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- ◆ 512KB Internal Cache
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- ◆ STB Velocity nVidia AGP Video Card with 4MB SGRAM video memory
- ◆ 17" Colour SVGA Monitor (0.28 dot pitch, 15.9" Viewable Area)
- ◆ 3 PCI, 1 ISA, 1 PCI/ISA Shared and 1 AGP Expansion Slots
- ◆ 14-32X CD-ROM Drive
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CAD USER MAGAZINE SEPT. 1997

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- ◆ 64MB High Performance SDRAM
- ◆ 512KB Internal Cache
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- ◆ STB Velocity nVidia AGP Video Card with 4 MB SGRAM video memory
- ◆ High Performance TCO 17" Colour SVGA Monitor (0.26 dot pitch, Trinitron technology, 15.65" Viewable Area)
- ◆ 3 PCI, 1 ISA, 1 PCI/ISA Shared and 1 AGP Expansion Slots
- ◆ 14-32X CD-ROM Drive
- ◆ Yamaha XG Software (speakers optional)
- ◆ Mid-Sized Desktop Chassis
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- ◆ 512KB Internal Cache
- ◆ 4.3GB Hard Drive
- ◆ STB Velocity nVidia AGP Video Card with 4MB SGRAM video memory
- ◆ 17" Colour SVGA Monitor (0.28 dot pitch, 15.9" Viewable Area)
- ◆ 3 PCI, 1 ISA and 1 PCI/ISA Shared and 1 AGP Expansion Slots
- ◆ 14-32X CD-ROM Drive
- ◆ Yamaha XG Software (speakers optional)
- ◆ Mid-sized Desktop Chassis
- ◆ Microsoft Office 97 Small Business Edition

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- ◆ 32MB High Performance SDRAM
- ◆ 512KB Pipeline Burst Cache
- ◆ 4.3GB Hard Drive
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- ◆ 17" colour SVGA monitor (0.28 dot pitch, 15.9" Viewable Area)
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- ◆ 12-24X CD-ROM Drive
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- ◆ US Robotics 56KB Modem

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- ◆ 256KB Level II Cache
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- ◆ Extra High Performance 128-bit PCI Graphics Controller
- ◆ Infrared communication port (IrDA 1.0 compatible)
- ◆ 20X CD-ROM Drive
- ◆ 2 PCMCIA type II slots
- ◆ Touchpad with 2 buttons
- ◆ Lithium Ion "Intelligent" Battery
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"BEST BUY AWARD" ADVISOR SEPT. 1997

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(As per £1,699 spec. but with 40MB RAM, 2.1GB EIDE Removeable Hard Drive and 33.6KB Modem)

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Psion Dacom 33.6KB/s PCMCIA Fax/Modem

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Additional 8MB RAM

£97.50 inc VAT

Port Replicator

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- ◆ 64MB RAM
- ◆ 256KB High Performance Cache
- ◆ 4GB ATA-33 EIDE Hard Drive
- ◆ 20X CD-ROM Drive
- ◆ Extra High Performance 128-bit PCI Graphics Controller
- ◆ Infrared communication port (IrDA 1.1 compatible)
- ◆ Zoomed Video Support
- ◆ 2 PCMCIA type II slots or 1 type III
- ◆ Integrated Synaptics Touchpad
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DELL FINANCE 3 YEAR RENTAL: £25.51 PER SYSTEM, PER WEEK, EXCLUDING DELIVERY AND VAT.

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MOVING VIOLATION D-LM1997

SPEED: *166 MHz*
MAKE: *Dell*
MODEL/YEAR: *Latitude LM/1997*
COLOR: *64,000*
DRIVE: *12X variable
CD ROM*

ENGINE: *MMX™ Technology*

LOCATION: *Austin, Texas*

VIOLATION:
*Operating at speeds that could
humiliate other notebooks.*

ISSUING OFFICER ID *35100*

[Signature]
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D-LM1997

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- ◆ 32MB RAM
- ◆ 256KB High Performance Cache
- ◆ 3.3GB ATA-33 EIDE Hard Drive
- ◆ 20X CD-ROM Drive
- ◆ Extra High Performance 128-bit PCI Graphics Controller
- ◆ Infrared communication port (IrDA 1.1 compatible)
- ◆ Zoomed Video Support
- ◆ 2 PCMCIA type II slots or 1 type III
- ◆ Integrated Synaptics Touchpad
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- ◆ 4.3GB Hard Drive
- ◆ STB Velocity nVidia AGP Video Card with 4MB SGRAM video memory
- ◆ 17" Colour SVGA Monitor (0.28 dot pitch 15.9" Viewable area)
- ◆ 3 PCI, 1 ISA, 1 PCI/ISA Shared and 1 AGP Expansion Slots
- ◆ 14-32X CD-ROM Drive
- ◆ Integrated Yamaha Wavetable sound and Altec Lansing ACS90 speakers
- ◆ Mini Tower Chassis
- ◆ Microsoft® Office 97 Small Business Edition

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- Mini Tower Chassis (Rackmount option available)
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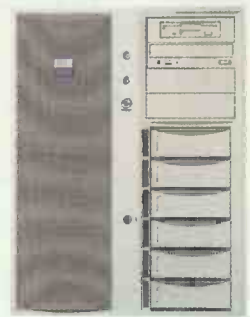


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INTERNATIONAL
JAN-JUNE '97

VNU BUSINESS PUBLICATIONS

Will you stay loyal to your current PC vendor? Dan owners do.

Dan Technology has enjoyed enormous success in polls conducted this year by the nation's leading computer magazines. In recent months, we've won top honours from the readers of PC Direct, PC Magazine, PCW, What PC? & PC Pro.

Our products, after-sales service, overall reliability — all have always received more than enough votes to place Dan in the first rank of PC vendors. But this year we've done even better. Two of the leading magazines asked their readers the most important question of all: would they buy from the same vendor again? We're proud and delighted to reproduce the answers here.

The August 1997 Service and Reliability Survey in PC Magazine revealed that

Dan users were more likely to stick



Dantum PCs featuring Intel Pentium® Processors with MMX™ Technology from £ 803

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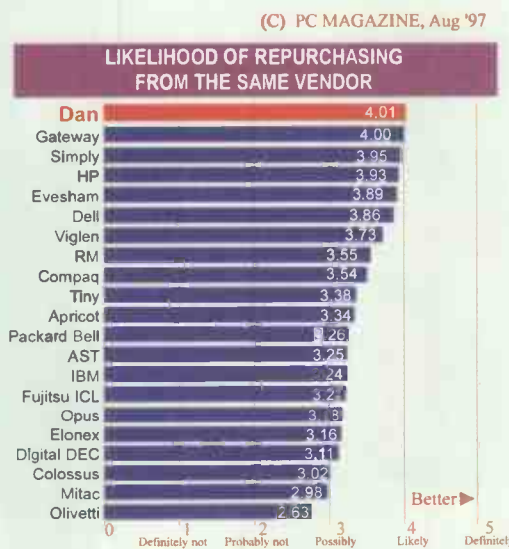
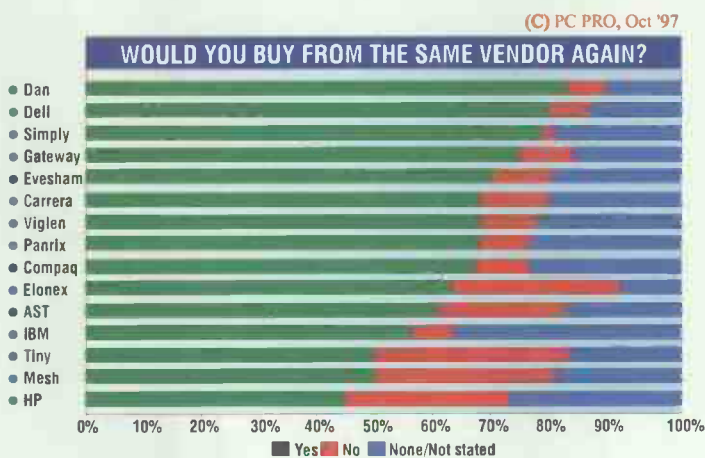
dan technology

with their current PC vendor than owners of *any* other brand.

(Incidentally, this is the third year in a row that Dan has headed PC Magazine's brand loyalty league table.) PC Pro's 1997 PC Awards (October issue) confirmed the trend.

The performance difference between two makes of PC is often measured in fractions of a second. These polls clearly show that service, support and overall reliability are now just as important to users as speed, if not more so.

Ask yourself, are you *really* satisfied with your PC supplier when it comes to these matters? If the answer is no, give us a call and we'll show you why our users keep voting us Number One. If the answer is yes, you're probably a Dan owner already.



Please send me full details on the dan Personal Computer Systems

NAME: _____

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www.iomega.com

*Ditto Max is available from £199. It accepts 3, 5 and 7GB cartridges. Ditto Max Professional is available from £229. It accepts 3, 5, 7 and 10GB cartridges. Both drives are backward compatible with most industry standard tape cartridges.

Editorial

It may say January 1998 on the cover, but this is most certainly our Christmas issue. It's safe to say that a great number of people will be unwrapping computer

equipment of some description on The Big Day. For many, it will be their first PC.

It was back in the early eighties when I unwrapped my first PC — well, a Sinclair ZX81. I remember it all clearly. It may have resembled a desk calculator and been dwarfed by the family TV, but I loved it.



The following year I got my first Sinclair ZX Spectrum and experienced the worst Christmas nightmare: dead on arrival. Yes, the curse of the broken PC that still strikes today. When the shops re-opened, it appeared that I was not alone, as scores of stressed parents with moody kids thrust their useless boxes onto the counter for a replacement. I ended up getting through no less than four of these "doorstops" over the period of one month, and there lies a lesson for us all: if you're buying electrical equipment for Christmas, make sure it works before wrapping it up. And don't forget the batteries!

However feeble some of the early home PCs may have been, they captured the hearts and imaginations of countless enthusiasts, including myself. At an early age, the seed had been sown and my life changed forever. I suspect there'll be more joining the ranks this month, captivated by their new purchase.

The appeal has never been stronger. For me, the most remarkable thing about how computers have changed over the past 20 years is not the drop in price or increase in performance, but what we can do with them. Photo retouching, sound and video editing, desktop publishing, the best games, office applications and communications are now possible on today's PCs.

Probably the single most important development since the early home computers has been PCs with their own displays. I'm sure my family wasn't the only one frequently brought close to break-up because someone desperately needed to use their computer via the TV just as Coronation Street started.

Merry Christmas and a Happy New Year!

Gordon Laing
Acting Editor

Next Month

NT Workstation PC group test

New year, new budget. Nik Rawlinson looks at ten networkable, 300MHz Pentium II high-end workstations to see what's hot, what's not, and what's to be got.



Budget laser printers

Smaller, faster, cheaper: we test the latest low-cost lasers.



Year 2000

The end of the century is nigh! Find out if your PC will survive the millennium, and what to do if it won't.

Plus... Scanner update

It's true! Decent colour flatbeds for less than £200.



February '98 issue

■ On sale Saturday 27th December

* Next month's contents subject to change.

January Cover disc

**Personal
Computer
World**

■ **How to use the CD-ROM**

Quit existing applications (if you have 16Mb or more of memory you don't have to do this, but you will get better performance if not too many other applications are running). Put the disc into your CD drive.

• **Win95:** If you've got Win95, the PCW interactive loader will appear on your screen. If your CD doesn't autoload, go to **Start/Run** and type in `<CD Drive>:\pcw.exe`. • **Win 3.1:** From Windows Program Manager choose **File/Run**, type in `<CD Drive>:\pcw.exe` and press enter.

■ **System requirements**

A PC with Win 3.1 or later and a colour VGA display. For best results, run on a Pentium PC with at least 16Mb of memory.

■ **Possible CD-ROM problems**

The technical helpline on 0891 715929 is open weekdays from 10:30am to 12:30pm, and 1.30pm to 4:30pm. Calls cost 50p per minute. If you experience problems with the CD-ROM, such as a message "Cannot read from drive D:", please return the disc with a covering note bearing your name and address and clearly marked "PCW CD January 98" to: TIB, TIB House, 11 Edward Street, Bradford BD4 7BH.

■ **Featured applications**

• **Microsoft Project 98 (Win95 only)**
Effective project management: Whether you're overseeing simple short-term projects or managing complex multi-project schedules, you can remain in control.

Run **SETUP.EXE** from the directory:
`<CD-DRIVE>:\SOFTWARE\FEATURED\APPLIC\PROJECT\`

• **Yamaha Software Synthesisers (Win95)**
This collection includes the full versions, which can be used after contacting Yamaha. See CONTACT INFO on the CD.

Run **YAMAHA.EXE** from the directory:
`<CD-DRIVE>:\SOFTWARE\FEATURED\APPLIC\YAMAHA\`

• **i publish 2 (Win95)**
Includes layouts for print, web and on-screen delivery. The layouts determine

characteristics such as placement and sizing of text and pictures.

Run **SETUP.EXE** from the directory:
`<CD-DRIVE>:\SOFTWARE\FEATURED\APPLIC\IPUBLISH\`

• **FastForms 3**
The main component of FastForms is the Form Designer, enabling you to create and manipulate forms — e.g. HTML and application forms, invoices, printed records.

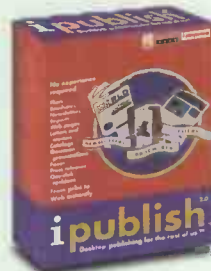
Run **SETUP.EXE** from the directory:
`<CD-DRIVE>:\SOFTWARE\FEATURED\APPLIC\FASTFORM\`

■ **Featured games**

• **Tomb Raider II (Win95)**
Tomb Raider II combines the classic gameplay of Tomb Raider with new moves, weapons, puzzles and more!

Run **TOMB2.EXE** from the directory:
`<CD-DRIVE>:\TOMB2\`

• **Dark Forces II Jedi Knights (Win95)**
Jedi Knights continues the story of Katam as he embarks on a quest into his past and learns the ways of the Jedi.



IMPORTANT NOTICE

The publisher, VNU, has checked the *Personal Computer World* CD-ROM for known viruses at all stages of production, but cannot accept liability for damage caused to your data or your computer system which may occur while using either the disc or any software contained on it. If you do not agree with these conditions, you should not use the disc. It is good practice to run a virus checker on any new software before running it on your computer, and to make regular backup copies of all your important data.

Unless otherwise stated, all software contained on the CD is for demonstration only. This means that it may be restricted in some way — for example, it may be time-limited or have certain functions disabled.

Run **JEDIDEMO.EXE** from the directory:
`<CD-DRIVE>:\SOFTWARE\FEATURED\GAMES\DARKFORC\`

• **Turok: Dinosaur Hunter (Win95)**
Turok: Dinosaur Hunter is the Windows 95 3Dfx demo of this previously exclusive Nintendo 64 game.

Run **TUROK3DF.EXE** from the directory:
`<CD-DRIVE>:\SOFTWARE\FEATURED\GAMES\TUROK\`

Canterbury Classics Competition: 25 CDs to be won

The Canterbury Classic Interactive CD Catalogue on this month's CD is a regular feature on *Classic fM Magazine's* free cover-mounted CDEExtra. This month's catalogue features ten new CDs from the brand-new mid-price classical label by Classic fM and BMG Conifer, which aims to bring new recordings of complete classical works (by established world-class performers, and young up-and-coming artists) to a new and wider audience. To celebrate the successful launch of their new label this winter, Classic fM and BMG Conifer are offering 25 lucky readers the chance to win a free copy of one of their CDs, and 25 runners-up can each win a free copy of their CD sampler. The prizes are worth over £300 in total! To enter, just answer these questions:

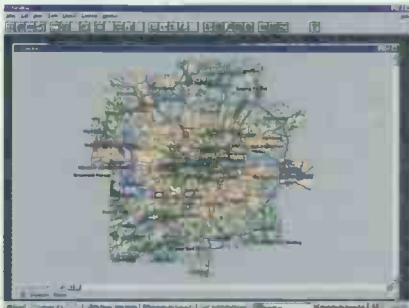
1. Which track, from the ten new Classic fM / BMG Conifer CDs, is featured on this month's PCW CD-ROM?
2. Is this statement true or false? — *The CD sampler of Classic fM / BMG Conifer's new classical record label includes excerpts from all of the first ten CDs released on the label.*
3. If you were to be one of the lucky prize-winners in this competition, which of the ten new Classic fM / BMG Conifer CDs would you choose as your prize?

• **Send your answers, on a postcard, to: Classic fM/BMG Competition, 35 St Peters Grove, Canterbury CT1 2DJ. Winners will be selected at random from all entrants who answer these questions correctly. Closing date: 31/01/98.**

Rules of entry: This competition is open only to readers of Personal Computer World, except employees (and their families) of VNU Business Publications, Classic fM and BMG Conifer.

PSION COMPETITION

On this month's CD-ROM, there is an opportunity to win one of the awesome, award-winning, new Psion Series 5 machines. Crack the ingenious graphic puzzle that Psion has created to tax your logic problem-solving skills. The puzzle requires QuickTime for Windows and can be found in the Games section of the Software Library. To find out where to send your competition entry, complete the puzzle and you will be given an email address.



Above Zoom into town with InfoMap



Right Jedi Knights

• Microsoft Close Combat II: A Bridge Too Far (Win95)

Close Combat is a WWII strategy game that offers psychological profiles, continuous (real-time) action, authentic historical scenarios and multi-player functionality.

Run **MSABTF.EXE** from the directory:

<CD-DRIVE>\SOFTWARE\FEATURED\GAMES\COMBAT\

■ Featured multimedia

• InfoMap 4.0

Zoom into a vector-based map of London (or the rest of the UK in less detail).

Run **SETUP.EXE** from the directory:

<CD-DRIVE>\SOFTWARE\FEATURED\MULT\INFOMAP\

Wanted: Material for PCW cover CD-ROMs

We are always on the look-out for material for our cover-mounted CD-ROMs. If you think you have something that might be suitable, such as software, pictures, fonts or demos, please let us know: email Matt Honeyball at matt_honeyball@vnu.co.uk or write to him at CD Development, New Media, VNU Business Publications, VNU House, 32-34 Broadwick Street, London W1A 2HG. Please note that Matt cannot accept technical support calls.

January 1998



PCW INTERACTIVE Complete Contents List

FEATURED SOFTWARE :

APPLICATIONS:

MS Project 98, Yamaha Synthesiser, i Publish 2, FastForms 3

GAMES:

Tomb Raider II, Dark Forces II, Jedi Knights, Turok Dinosaur Hunter, Close Combat II: A Bridge Too Far

MULTIMEDIA:

InfoMap 4.0



Personal Computer World

F O L D H E R E

Software Library

- Acrobat Reader
- Callcheck
- D-Noise
- Datapict
- Desktop Lawyer
- DirectX 5.0
- Easyphoto
- Exile II: Crystal Souls
- Exile: Escape from the Pit
- Gazillionaire Intergalactic
- Inside Information
- Internet Explorer 3
- Internet Explorer 4
- JPEG Optimiser
- Mind Your Own Business
- MusicPage
- Netscape 4.03
- Norton Anti Virus
- PaintShop Pro
- Phone Monitor
- PKZIP
- Psion Puzzle
- Real Audio Player
- SmartMail
- Space Monitor
- Video for Windows
- Video Works
- Wincode

- Winzip 3.1/95

PDF file reader

- International dial code finder
- Adobe premiere filter
- Handy icon/clipart/font converter
- Legal document creator
- Windows graphics driver
- Image gallery editor
- Cool role-playing game
- Great role-playing game
- Wheeling & dealing
- Searchable product database
- Win 3.1 internet browser
- Internet browser
- JPEG converter
- Home accountancy
- Net sheet-music retrieval program
- Netscape's newest net browser
- Virus checker/killer
- Image editor
- Internet call logger
- File compression utility
- A chance to win a Psion
- It's audio for real!
- Clever email package
- Drive space utility
- Windows video drivers and player
- Video editing software
- Multi-purpose encoder/decoder for Windows
- Windows file compression/decompression

FastForms competition



Maybe forms aren't the most exciting things to create, but we all use them — in business they're a necessity. The vital art of form design need not be boring, using FastForms 3. Try it for yourself: there's a timed trial version of the software on this month's cover disc. In no time at all, you could be producing professional and attractive forms.

You'll love using such a simple and effective tool as FastForms, and as an extra incentive to get you using the software, Toplevel is offering PCW readers an exclusive chance to win a free Eagle PC* for the best form which has been designed using

FastForms. Plus, 20 runners-up will each receive a copy of FastForms 3.

FastForms comes with an on-screen tutorial if you need help getting started, or begin by experimenting with the layout and look of one of our forms from the library of

ready-made examples (we may even include yours in a future version, if it's good enough). Or, of course, you can start from scratch.

Let your imagination run riot and take the tedium out of form design by producing some fantastic-looking forms. Try drop shadows, or rounded corners as variants on the usual boxes and fields. Colour brightens things up, and fancy fonts and pictures can bring a form to life.

FastForms lets you add text fields so that your form can be printed and hand-filled, or filled separately in the form filler application, or linked to database fields so that form data can be held within the FastForms database, letting you control your data. You can create and maintain computerised lists and records like customer lists and current stock records, print address labels and reports, and produce random samples of a database for test mailings.

The pull-down choice lists and checkboxes enhance a form and make it easier to complete. FastForms also has an excellent facility to perform calculations within a form (even complicated spreadsheet functions), saving time for the filler and reducing the scope for errors. For those familiar with the net, forms can be saved in HTML format and incorporated into your web pages.

Once you start using FastForms, you'll never look back. FastForms takes the pain out of an otherwise daunting task, saves you time and money, and helps you produce professional, attractive, personalised forms for all sorts of uses. Start designing those fab forms and a PC or a copy of FastForms could be yours!

* Eagle PC: P100MHz, 1.2Gb hard disk, 16-speed CD-ROM, graphics card, sound card, 80W speakers.

How to enter

Send your form, together with your name, address and a daytime telephone number, to: Toplevel Computing, Bath Road Trading Estate, Stroud GL5 3QF. Entries must arrive by 30th January 1998.

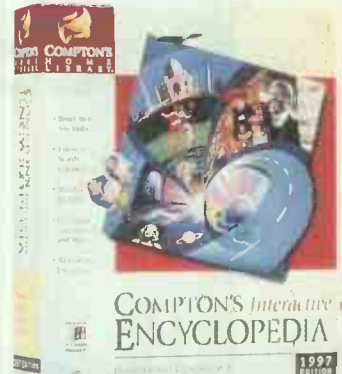
Rules of entry

This competition is open to readers of *Personal Computer World*, except for employees and their families of VNU Business Publications, Toplevel Computing and Eagle. TopLevel directors are the sole judges of the competition and their decision is final. No cash alternative is available in lieu of prizes.



Compton's Interactive Encyclopedia 1997

Free on this month's cover disc we are giving away a full copy of **Compton's Interactive Encyclopedia 1997 Edition**, from The Learning Company. It is packed with 37,000 articles, 100 full-motion videos, slide shows, animations and presentations, more than 8,000 photographs and nearly 17 hours of sound and music. A dictionary, thesaurus and atlas are included. But if you want to upgrade to the 1998 version, The Learning Company is offering £15 off either of the two new versions, Standard or Deluxe.



No matter what you are looking for, you will find it in Compton's Interactive Encyclopedia: everything from the complicated world of Bosnian politics, to the works of Matisse and Babe Ruth's baseball career, are covered.

But a multimedia encyclopedia is no good without a search engine, and Compton's excels in this. Its search facility allows you to specify your search with "and", "or" and "not" phrases and the Infolinks feature highlights any related articles. So if you are looking at information on Nelson Mandela, you will find links to articles on the ANC, Apartheid and Johannesburg.

Visual timelines give you the bigger

picture on world and US events, and you can use the interactive atlas to see where these events happened. There are 3D environments, too, which are packed with facts. And when you have researched a topic, using the Present It feature you can create multimedia presentations with video, voiceovers, pictures and sound clips.

But it is not all work and no play. There is a lot of fun to be had, including an



introductory tour of the CD where your guide is none other than actor Patrick Stewart, alias Jean Luc Picard of Star Trek: The Next Generation.

Running the CD

- To run the CD you will need:
- 486DX2/66MHz or better
 - 8Mb RAM (16Mb recommended)
 - Hard disk with 70Mb available
 - 256-colour SVGA
 - Double-speed CD-ROM drive
 - Windows 95 or Windows 3.1
 - Windows compatible sound card
 - Mouse

SPECIAL READER OFFER

The 1998 update of Compton's Interactive Encyclopedia has just been released in two separate versions: Standard and Deluxe. The Standard version is fully updated and expanded, while the Deluxe version comes on two CDs and includes the content from a complete 26-volume encyclopaedia. Both have free monthly online updates to keep your encyclopaedia bang up to date. The Learning Company is offering £15 off the price of both of these titles to PCW readers.

Standard version: Special discount price £24.99 (normally £39.99)

Deluxe version: Special discount price £34.99 (normally £49.99)

Both versions will be shipped in a jewel case.

Order Hotline 0800 371305

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Borland Delphi Special PCW reader offers

If you want to create software that is fast to develop and speedy to run, Delphi is the best solution. We've got together with Borland to offer *PCW* readers exclusive opportunities to buy the latest versions of Delphi at savings up to 75 percent off! Delphi 2 Developer and the latest Delphi 3 Professional edition, complete with rights to deploy applications are available at very special discounted prices. See opposite page for full details.

Delphi's visual design environment lets you create sophisticated Windows applications faster than any other development tool. Because Delphi is built around an optimizing native code compiler, Delphi applications are between ten to 20 times faster than interpreted code.

Delphi delivers three of the key features most sought-after by today's developers:

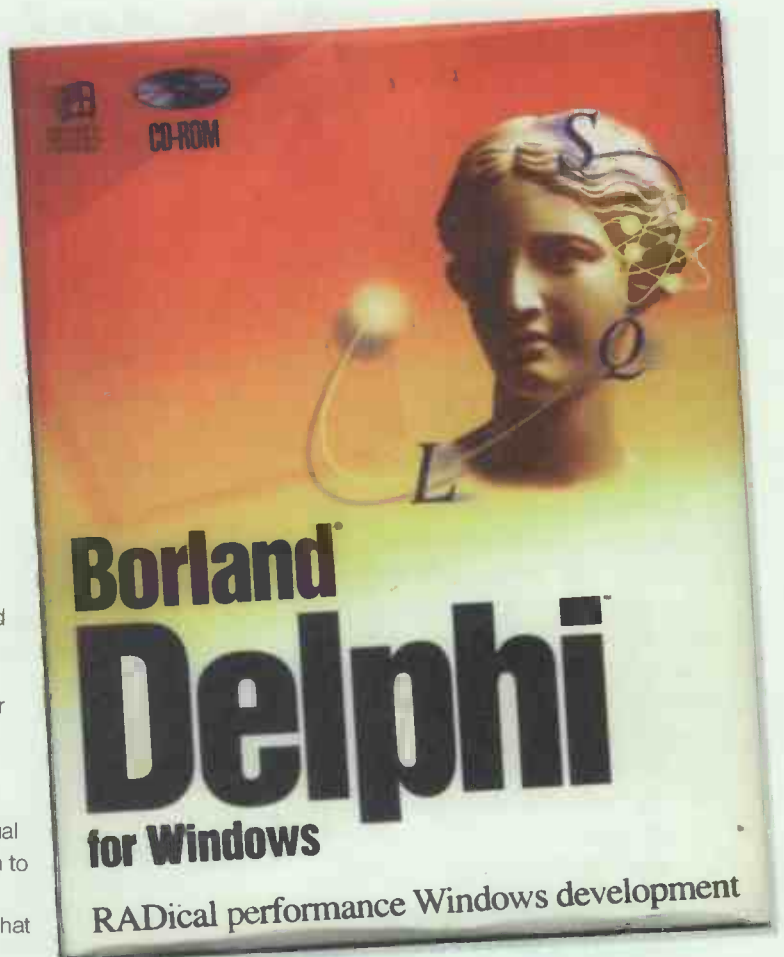
1. Rapid development: On the surface, Delphi looks a lot like Visual Basic. Add a form, pop on a control or two, double-click a button to add a few lines of code, click Run and away it goes.
2. Native code compilation: Delphi compiles to true executables that potentially run as fast as applications created in C or C++.
3. Object orientation: Delphi supports classes with constructors and destructors, inheritance, encapsulation and polymorphism — all the essential characteristics of an object-orientated language.

You can also program procedurally in Delphi. You get the best of both worlds: Delphi is easy to learn if you are familiar with Visual Basic or xBase, but all the benefits of objects are available, too.

Delphi integrates the Borland Database Engine, so you have instant support for dBase, Paradox, and ODBC local databases.

System requirements for Delphi 1 on last month's CD

- Delphi requires Windows 95, 3.1 or a 100 percent compatible operating system, an 80386 or newer processor (486 recommended) and 6Mb of system memory. A minimum installation requires approximately 30Mb of disk space.
- DCC.EXE, the DOS command-line compiler, requires at least 1Mb of extended memory.
- Delphi has been tested under Windows 95, Windows 3.1, Windows for Workgroups 3.11, Windows NT 3.5 and OS/2 Warp.



It includes the Local InterBase Server so you can create standalone client/server applications with a high-performance ANSI SQL-92 compatible database server.

Also included is Borland's award-winning ReportSmith report writing tool, which allows programmers to prepare innovative reports using live data in all popular database formats.

For more information, browse the Delphi web site at www.borland.com

Limited licence offered through *PCW* on last month's free Delphi CD

- This software can only be installed onto a PC once. It is not shareware.
- Applications developed using the software may not be deployed.
- The software is for personal use only by software developers and may not be used for development or teaching in a commercial or educational establishment.
- Programs and applications that have been constructed with the software may not be distributed. The software is provided only with the aim of allowing the owner to learn the use of this software. For distribution rights of owner-generated applications, the owner will have to purchase a copy of additional software or a package designed for this purpose.
- No resale of the CD is permitted. No free support is available with this CD. Full licence details on the CD.

**EXCLUSIVE
OFFER**

Special offers

Learn to program with Delphi: £29.95 + VAT (normally £42.51 + VAT)

Includes limited edition of Delphi 1.0 (full software, but no option to deploy applications) and includes a full online curriculum and tutorial as well as the acclaimed book, *Learn Delphi in 21 Days*.

Delphi 2.0 Developer: £99.95 + VAT (was £399 + VAT)

Lowest price ever! Includes full Delphi 2.0 Professional for Windows 95 and Windows NT, with full printed manuals and rights to deploy applications. Also includes Delphi 1.0 with rights to deploy applications.

Delphi 3.0 Professional: £249 + VAT (normally £399 + VAT)

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“ Dan has managed, yet again, to produce a machine that has an impressive specification and performs brilliantly ... you get a lot for your money. ”

dan Ultimate/200, Best Buy, What PC?, April '97



danum /166
Performance
November 96



danum /133
Highly Commended
December 96



danum /200
Editor's Choice
December 96



danum /200
Best PC
19 96 Awards



danum /s
Best Home PC
1996 Awards



danum/133
Best Buy
December 96



danum/133
Editor's Choice
December 96



Home Plus/133
5 Star Award
December 96



danum/200
Best Buy
January 97



dan Home PC/166
Recommended
January 97

1997 ANNUAL AWARDS

“THANK YOU” To Everyone Who Voted For Us

We're proud of the numerous accolades we win for Dan Technology PCs month after month. And nothing gives us more pleasure than being up there amongst the winners of the magazines annual awards. Sometimes our votes come from expert journalists, as with the What PC? Awards. With PC Direct and Personal Computer World, recognition comes from the readers themselves. But wherever they come from, we're very grateful for these tributes to the efforts of our workforce. Thank You.



PCW Awards 1997, Best On-Site Maintenance - WINNER: Dan Technology

Dan Technology was a highly placed runner up in every other relevant category. Personal Computer World, July 1997



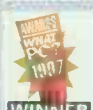
PC Direct Hits Awards 1997, Network Servers - WINNER: Dantum Pro Server

"While the competition did increase, long time off-the-page server champion Dan Technology continued its dominance of this particular market, taking not only one of the runner-up slots, but also retaining its victors laurels with the Dantum Pro Server... [Dan has won the Network Server category every year since 1993]." PC Direct, June 1997



What PC? Awards 1997, Best Budget PC - WINNER: Dan Home PC

"An ideal budget buy. Dan has a rock solid reputation, it builds sturdy PCs and prices them competitively. You may be able to buy a higher specified PC elsewhere, but it's doubtful that you'd get comparable quality and support." What PC?, June 1997



What PC? Awards 1997, Best Professional PC - WINNER: Dan Ultimate PC

"...should keep even the most demanding user happy for a long time. Yet another winning computer from Dan. It might not be the cheapest, but you get a lot for your money." What PC?, June 1997



dan Ultimate II Plus

- Intel Pentium®II Processor with MMX™
- 512KB Pipeline Burst Cache Memory
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danum 95/133
Recommended
September 96



danum 95/200
Buy it
September 96



dan Home PC/166
Recommended
September 96



dan Home Plus/133
Best Buy
August 96



Service & Reliability
User Survey, Desktop PCs
August 1996



dan Technology
Most Reliable PC
July 96



dan Technology
Best After Sales Service
July 96



Winner: dan
Best Telephone Support
July 96



dantum Home Plus/133
Best Value Award
June 96



dan Ultimate/133
Editor's Choice
June 96



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Dan's reputation for producing solid reliable machines is second to none and its latest effort is no exception.



dan Home Plus, What Personal Computer, October '97



dan Ultimate/200
Highly Commended
February 97



Home Plus/166
Performance
February 97



dantum 95/MMX200
Editor's Choice
March 97



dantum /166MMX
Gold Award
March 97



dan Ultimate/200X
Best Buy
April 97



dantum /200MMX
Gold Award
June 97



dan Home PC
Best Budget PC
June 97



dantum /200MMX
Best Pro PC
June 97



Service & Reliability
User Survey, Desktop PCs
August 1997



dan Xplora Plus/166
Editor's Choice
September 97

Popular Upgrades

Yamaha CDR400t CD Writer

Make your own professional quality CDs with Yamaha's internal SCSI CD writer. The perfect solution for archiving and distributing large amounts of information, the CDR400t can write over 600MB of data (74 minutes of audio) to a single CD. Together with performance speeds of 4x write/6x read and Win95 'Plug & Play' compatibility, the CDR400t is ideal for all your back-up, archiving, database and multimedia storage needs.

Upgrade the 24maxCD-ROM supplied with Ultimate II Plus to:
Yamaha CDR400t CD Writer £251 (£295 inc VAT)

Creative's SoundBlaster AWE64 Gold

The SoundBlaster AWE64 Gold represents the pinnacle of Creative's renowned audio range. Experience realistic and expressive true instrument reproduction and digital effects with EMU8000 WavEffects synthesis and Creative WaveSynth/WG.



Upgrade Creative SoundBlaster AWE64 OEM to:
SoundBlaster AWE64 Gold £ 68 (£ 80 inc VAT)

Yamaha Speakers & SubWoofer

Upgrade the dan Hi-Fi Speakers to Yamaha

Yamaha M15 Speakers £ 12 (£ 15 inc VAT)

**Yamaha M15 Speakers
with MS10 SubWoofer** £ 69 (£ 82 inc VAT)

Hauppauge WinTV-Radio Card

Hauppauge WinTV-Radio is a single slot PCI Card which brings digital video to your PC. It has a 125-channel cable-ready TV tuner and a high quality video digitizer in addition to an FM radio receiver. Watch TV-in-a-window and get multipage Teletext, or "channel surf" FM stereo radio broadcasts. You can display video from VCR, camcorder or any other video source. Spice up your multimedia presentations with still frame capture and even digital movie capture in high quality AVI formats at 25fps. Also available in TV only format.



WinTV-Radio Card £ 101 (£ 119 inc VAT)

WinTV Card £ 82 (£ 97 inc VAT)

The TV cards & modems will only work in the UK.



Cert. No: 854556
ISO 9002:EN 29002 (BS 5750 Pt2)

Delivery cost to most of UK for one system is £18.



dantum 95/166
Winner 1996 Award
June 96



dantum 95/133
Best Buy
June 96



dantum DUO Server
Runner-Up
June 96



dantum PCI Server
Winner
June 96



dan dantum 95/100
Gold Award
April 96



dan dantum/133
Best Buy
March 96



dantum Home/100
Recommended
February 96



dan Ultimate/166
Recommended
February 96



dan 95/100
Performance
January 96



dan Ultimate/133
Recommended
December 95

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Opening Hours - London/Leeds Showrooms: Mon-Fri 9.30am-6pm

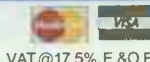
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“...should keep even the most demanding user happy for a long time. Yet another winning computer from Dan.”

dan Ultimate PC, What PC?, June '97



dan Ultimate PC

The PC system you always dreamed of

- 32MB SDRAM
- Fast 5.2GB Ultra DMA HDD
- Intel Pentium® Processor with MMX™
- 100MB Iomega ZIP Drive + cartridge
- 512KB Pipeline Burst Cache Memory
- ATi Xpert@Work 4MB SGRAM Video Card
- 17" Iiyama L/R N/I Monitor (9017T)
- 24max Speed CD-ROM
- SoundBlaster AWE 64 OEM
- Hi-Fi Power Speakers (150W PMPO)
- 56KBPS VoiceFax/Modem (UK only)
- Free Slots: 2 PCI & 1 PCI or ISA
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- Midi Tower Case w/200W PSU
- Win 95 UK Keyboard
- Windows 95 or Win 3.11
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Microsoft IntelliMouse™
- MS Works Suite, Serif Page Plus, Intuit Quicken 6SE, Encarta '97 US & MMX™ Software Bundle



166MMX	£ 1508	£ 1772 incl. VAT	£ 63.05
200MMX	£ 1587	£ 1865 incl. VAT	£ 66.33
233MMX	£ 1655	£ 1945 incl. VAT	£ 69.15

32MB Additional Memory Upgrade £ 77 (£91 incVAT)
 6.4GB HDD Upgrade £ 52 (£62 incVAT)
 8MB ATi XPert@work Upgrade £ 28 (£33 incVAT)

The Dan Ultimate PC is a highly specified system based on the Pentium Processor. It has been updated to include more popular upgrades to ensure ultimate performance.

Super-fast processing power is an important element

for the Ultimate PC and together with the Pentium Processor, this system achieves an excellent rating with 512KB of Pipeline Burst Mode Cache Memory combined with 32MB of fast SDRAM.

A spacious 5.2GB hard disk drive is included in the specification and this can be upgraded to a maximum of 18GB. Also included is a 17" high quality monitor which

is partnered with an ATi Xpert@Work 4MB SGRAM video card and a 56KBPS voicefax/modem.

Exceptional Hi-Fi sound is a reality with the multimedia kit which incorporates a 24max speed CDROM and high quality sound card. Also included as standard is an Iomega 100MB Zip Drive, with upgrade options from a range of removable media. Please see below for details.



Monster 3D DIAMOND

Add 'Killer-3D' To Your PC

- Works with your existing graphics card
- Accelerates all Direct3D games
- Provides state-of-the-art 3D features
- Easy pass-through install
- Requires PCI slot

add £101 (£119 incVAT)

Hauppauge PCI WinTV Card Upgrade

A PCI single slot Plug and Play card with 125-channel TV tuner, video digitiser and Teletext decoder. Capture pro-quality stills or motion video in A VI format.

add £ 82 (£ 97 incVAT)



Iomega 100MB Zip Drive

The Zip is a very affordable personal storage solution that uses 100MB cartridges. You can either backup your entire hard drive or copy selected files up to 100MB. It's an ideal way to move and store personal or confidential information. The Zip cartridges are robust yet small, light and convenient. They're perfect for multimedia, presentations, software applications, financial data, graphics, archiving and more.



Cert. No: 95/4556
 ISO 9002/EN 29002 (BS 5750 Pt 2)

go direct to dan

New systems based on the Pentium® II Processor

Now Open Saturdays*

"...performance results were the best of the bunch..." *

And that was *before* the Pentium®II Processor!

Every PC user wants more speed. Maybe you're an IT manager with a corporate intranet in mind. Or perhaps you're looking for a faster machine to work with at home.

Look no further. Whatever you're planning to do, Dan's Ultimate II and Dantum II/MM systems help you to do it quicker. Using the latest 233MHz, 266MHz or 300MHz Pentium II processors from Intel, these new PCs are built to go just about as fast as a PC can go.

It's not only the processors that give our new systems the edge. There's also the electrifying 64-bit PCI graphics capability; USB ports for easy peripheral connection; up to 256MB RAM; and room to spare for additional storage. Even spatial 3D stereo sound is built in. Add Dan's renowned construction quality and unrivalled reputation for reliability, these new PCs stand among the world's finest.

Call your nearest Dan Technology sales office today for a free information pack. You'll find we're pretty quick off the mark with service too!

* Dantum review in PCPlus, January 1997



dan Ultimate II

High-end Pentium®II Processor System

- 32MB SDRAM
- Fast 5.2GB Ultra DMA HDD
- Intel Pentium®II with MMX™ Processor with 512KB Cache Memory
- ATi Xpert@Work 4MB SGRAM Video Card
- 17" Iiyama L/R Monitor (9017T)
- Iomega 100MB ZIP Drive + cart.
- 24_{MAX} Speed EIDE CD-ROM
- SoundBlaster AWE 64 OEM
- Hi-Fi Power Speakers (150W PMPO)
- 56KBPS VoiceFax/Modem (UK only)
- Free Slots: 2 PCI & 1 PCI or ISA
- 1.44MB Floppy Disk Drive
- Midi Tower Case w/200W PSU
- Win95 UK Keyboard, Microphone
- Windows 95 or NT (extra cost)
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Microsoft IntelliMouse™
- MS Works Suite, Serif Page Plus, Intuit Quicken 6SE & Encarta '97 US & MMX™ Software Bundle (5 titles)



233MHz	£1795	£2110	incl. VAT	£74.96
266MHz	£1896	£2228	incl. VAT	£79.12
300MHz	£2060	£2421	incl. VAT	£85.92

Ultimate II Upgrades

- 32MB Additional Memory Upgrade £ 77 (£91 incVAT)
- 6.4GB HDD Upgrade £ 52 (£62 incVAT)
- 8MB SGRAM ATi XPert@Work £ 28 (£33 incVAT)
- Windows NT 4 ws Upgrade £ 71 (£84 incVAT)



dantum II /MM

Entry-level Pentium®II Processor System

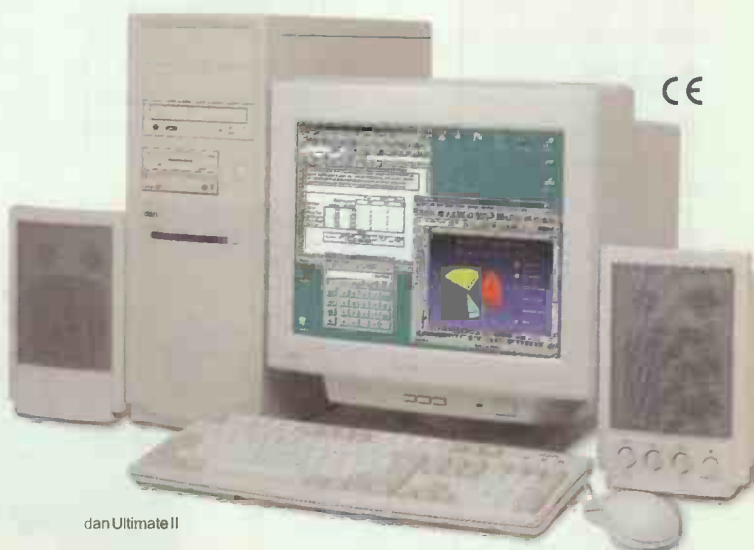
- 32MB SDRAM
- Fast 3.2GB Ultra DMA HDD
- Intel Pentium®II with MMX™ Processor with 512KB Cache Memory
- ATi Xpert@Work 4MB SGRAM Video Card
- 15" Super VGA L/R Monitor
- 24_{MAX} Speed EIDE CD-ROM
- 16-bit Sound Controller
- Advanced Speakers (10W PMPO)
- 56KBPS VoiceFax/Modem (UK only)
- Free Slots: 2 PCI, 1 PCI or ISA & 2 ISA
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- Midi Tower Case w/200W PSU
- Win95 UK Keyboard
- Windows 95 (or NT at extra cost)
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Microsoft IntelliMouse™
- MS Works Suite, Serif Page Plus, Intuit Quicken 6SE & Encarta '97 US & MMX™ Software Bundle (5 titles)



233MHz	£1299	£1527	incl. VAT	£54.42
266MHz	£1400	£1645	incl. VAT	£58.58
300MHz	£1564	£1838	incl. VAT	£65.38

dantum II/B Upgrades

- 32MB Additional Memory Upgrade £ 77 (£91 incVAT)
- 4.3GB HDD Upgrade £ 18 (£22 incVAT)
- 5.2GB HDD Upgrade £ 51 (£60 incVAT)
- 8MB SGRAM ATi XPert@Work £ 28 (£33 incVAT)
- Windows NT 4 ws Upgrade £ 71 (£84 incVAT)



dan Ultimate II

Iomega 1GB Jaz Drive

A super-fast removable hard drive that can pack up to 1GB on each cartridge. It's an ideal answer for multimedia - it can record a 2 hour movie, save 8 hours of CD quality sound, save huge graphics files and much more. The Jaz drive's speedy access times and rapid transfer rate mean you can move files around and backup a 1GB hard disk in as little as 5 minutes. There's no limit to the amount of additional cartridges you can use so it's the solution to all your storage needs.



* Sales & Showroom now open every Saturday from Nov 1st till Christmas, 9.30am-13.00pm

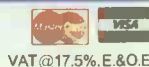
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Internet: www.dan.co.uk

e-mail: sales@dan.co.uk



VAT @ 17.5%. E.&O.E.

dan technology

Newsprint

APOLOGIES!

...to those of you who have had trouble accessing our web site. The problems, sadly, have been beyond our control. The good news is that the site is being revamped and will become bigger and better over the coming weeks. By way of compensation we present, with this issue, a...

COMDEX WEB SPECIAL REPORT

Following a long and hallowed tradition, the 1997 Fall Comdex is timed to miss monthly magazine deadlines. This is a plot to avoid publicity — but we have an answer. We will post on our site a special report from Clive Akass in Las Vegas on the latest and greatest at the world's top computer show. Log in now at www.pcw.co.uk

Past, Christmas present, and future

CDs have never had the capacity to exploit multimedia fully, so it will be exciting to see what designers do with DVD-ROM. Wonderful stuff, if a new work called Discoveries is anything to go by. Published as a companion to the IBM World Book, it's an Anglicisation of a prizewinning Larousse history of the earth from the Big Bang. It combines the advantages of speech and text, because every word is spoken. We'll tell you more soon in a review, but meanwhile, at £59.99 for a five-CD set, it would make a great Christmas present. Or wait for the DVD in the new year. **DVD-RAM split...page 46**

New fast link heralds end of line for audio modems

British Telecom may offer a cut-price hybrid ISDN data service to homes as soon as next summer, in a move that could make audio modems obsolete.

The Home Highway service,

get two new numbers, making three in all.

BT will not say how much the service will cost, except that it will be cheaper than ISDN. High ISDN pricing, which has been blamed on old strategic mistakes by BT, has extended the market life of audio modems to the point of farce, as increasingly sophisticated ways are found to push data past antique and patently redundant analogue bottlenecks.

BT has been saying for years that ISDN installation costs are impossible to cut. So how is it that a more complex hybrid system can be cheaper?

John Dunbar, marketing manager for Ericsson, which makes the new home unit, said it was because ISDN is usually added to an existing analogue service and therefore requires an extra line. "Home

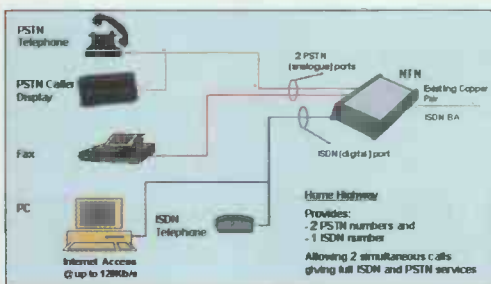
Highway allows both on a single copper cable. You don't need a new line." The unit also allows users to retain analogue services such as Caller Line Identification (CLI) which are lost on the analogue ports of many ISDN cards, says Dunbar.

Modem makers have been preparing devices for an eventual switch to all-digital comms, but they still face a shake-up.

Rockwell, which makes the chips for most modems sold, chose last month to announce a cheaper alternative to Asymmetric Digital Subscriber Line. ADSL offers a way of getting up to 6Mbit/sec through standard BT lines by piggy-backing a high-frequency signal. But it would require massive investment by BT.

BT has run one successful ADSL trial, and has asked service and content providers to take part in another next year. A

● *Continued on page 26*



offering data rates up to 128 Kbps, will start trials in February and could go on general offer three months later.

It uses a modem-style box which plugs into BT's main socket in the home and offers four lines: two analogue ports and one two-line ISDN port.

Only two of these can be used at a time, so you can use your old analogue equipment on one line if you wish. You also



Microsoft court battles

■ The US Department of Justice threatens to fine Microsoft \$1 million a day for bundling IE4.0 with Win98, which it says violates a 1995 "consent decree" banning software shipments being tied to OS licences. Meanwhile, Microsoft has filed a countersuit against Sun, which is suing it over its Java code. **See People, page 32**

Cheap Alpha PCs coming

■ Intel is paying \$700 million for Digital's chip plants as part of a deal to settle a potentially devastating patent dispute. And Samsung plans NT-ready sub-\$3,000 PCs based on 600MHz Digital Alpha chips for late 1998.

News edited by Clive Akass: news@vnu.co.uk. Net news edited by Adam Evans: adam_evans@vnu.co.uk

Computers big and small shape up for the future

Pressure for a change in the shape of the end-of-century computer is coming from three directions at once.

The increasing power of handhelds is challenging notebooks for the mobile market. This has renewed interest in the sub-notebook format as a way of flogging expensive machines to users who want true mobiles.

And notebooks are taking the place of the sit-up-and-beg

desktop. AJP has launched a 4.7kg notebook (*below*) with a biggest-yet 15.1in colour TFT screen, equivalent to a 17in CRT, which the company does not try to pass off as portable.

It has a full-size keyboard, with a numerical keypad, and a footprint of 35.7 x 27.5cm compared to the 30.4 x 24cm of the typical notebook. It will cost less than £2,500: cheap for a screen of this size. "We see it as a desktop machine that is moved only perhaps for the occasional presentation," said AJP marketing manager Angela Parmar.

Vendors in London for the launch of Windows CE 2.0 (see *right*) showed off the latest batch of handhelds, including two with colour screens which will not be available until 1998. Most luxurious was Hewlett-Packard's 620LX, with a 256-colour 640 x 240 screen, 10Mb

ROM and 16Mb RAM, and web, ethernet and fax capability.

Sharp's colour HC-4500A comes with 8Mb of RAM but a similar-sized colour screen. A mono version, the HC 4100 (*top right*) is available now.

Dell, Hitachi and Toshiba all have new sub-notebooks on the launchpad in the US. Toshiba's is a Network Computer and will sell at first only in Japan; Toshiba is also upgrading its tiny Libretto.

The Hitachi, with an 8.4in colour screen and a 233MHz Pentium processor, will sell for about \$3,500. It remains to be seen whether machines at that price can compete with cheaper "baghelds" that will surely emerge from the current crop of PDAs.

Hitachi 01628 585335;

Dell 01344 720000; Toshiba

01932 852455; AJP 0181 452 9090;

Sharp 0161 205 2333



CE 2.0 launched

Microsoft last month launched the new version of its handheld operating system. Improvements in Windows CE 2.0 include support for TrueType fonts, better synchronisation, ethernet security, support for email attachments and a pocket version of PowerPoint for mInI presentations. Vendors of some first-generation CE machines are offering ROM upgrades to CE 2.0. Details are at www.microsoft.com/windowsce/hpc/ Microsoft 0345 002000

Business help

The government has set a site at www.openm.gov.uk/gdirect with more than 600 forms and guidance papers to help small businesses cope with everything from tax returns to maternity leave.



USB hub

Northstar has launched a four-port USB hub.

Details are at www.northstar1.com

Lots of fun

Morgan's has launched an online computer auction at www.morgan-auctions.co.uk

Lamb Screen Toy

The cover CDs for the November issues of *Personal Computer World* and *What PC?* and *Software* contained a program entitled Lamb Screen Toy. VNU has been informed that this is commercial software and not available for free use. Please do not download this program onto your system and, if you have, please delete it. Copies of this software may be obtained from Village Centre at www.villagecenter.co.jp/english/poe.html

Search engines cash in on the sex starved

Someone asks for sex on the net once every two seconds. It is the word most commonly entered in search engines, with more than 1.5 million requests a month, according to a survey by *The Web* magazine in the US.

The rest of the top ten were Chat, XXX, Playboy, Netscape Software, Nude, Porno, Games, Weather and Penthouse.

Search engines like Infoseek are unabashedly cashing in on the demand by placing porn ads on sex-site listings. The UK Plus

engine, an Infoseek associate and stablemate of the moralising *Daily Mail*, objected vociferously in April when Newsprint pointed out, tongue in cheek, that it was being used as a conduit for porn.

Its UK pages are squeaky clean (and rather good) but its world links, porn and all, come from Infoseek, albeit minus paid-for porn ads.

An on-site policy statement says UK Plus tries to exclude offensive sites but "due to the unregulated nature of the internet" can accept no responsibility for content.



"User... Can you please stop using that foul language?"

Pentium II price cuts too late for Christmas buyers

Intel will cut Pentium II prices in January, prompting questions about its Christmas pricing policy. The move will position PIIs as entry level just three weeks after the seasonal buying spree, a source from Intel said.

Intel came under fire early this year when it launched MMX processors, rendering Christmas machines out of date just

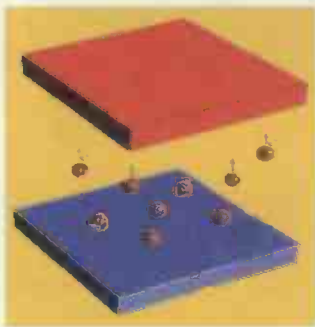
weeks after purchase. The source said there will be another price shift in April as part of a plan to "ramp the PII" into the entry level of the marketplace.

Intel will sell MMX chips for three months next year, after which sales will tail off as the ceramic processor becomes obsolete.

The source added that Intel is set to

introduce a PII processor in a scaled down format which will fit into NetPCs. The idea is to ensure that Intel can deliver the form-factor PC manufacturers want to compete with the NC platform. An Intel representative said the company was unable to comment on its future plans.

Mike Magee, VNU Newswire



Cool way to use an old technology

Readers of a certain age may recognise the above diagram with a frisson of nostalgia. It shows the process which drove the first devices of the electronic age, including early computers, and which is still used in the cathode ray tube of your PC.

It is, of course, thermionic emission. Electrons constantly spill like evaporating water from the surface of a metal. By putting a positive electrode nearby to attract them, and setting the whole caboodle in a vacuum, you can generate a flow of current.

This flows only one way, hence the term thermionic valve. Tiny voltage changes on grids set between the electrodes produced huge changes in the flow, producing the first amplifiers.

In practice the electron source, or cathode, is usually heated to give electrons more energy. This masks a side effect of thermionic emission which is only now being exploited: only the most energetic electrons spill out, so there is a cooling effect.

A company called Borealis has brought out a solid-state diode, using new high-emission material, which pumps heat from the cathode to the anode.

It claims that arrays of these devices can be used as ecologically impeccable cooling on virtually any scale. But a major application would be to cool computer chips. Full details are at www.borealis.com

Clive Akass

Manufacturers hedge their bets on Microsoft's NetPC

Manufacturers are holding back from making dedicated Net PCs, Microsoft's answer to the Network Computer.

A NetPC is essentially a sealed PC with no expansion slots or floppy drive, and a BIOS primed for remote administration. Unlike an

NC (as presently specified) it has a hard disk. The idea is to give a PC the security and ease of maintenance of an NC.

Doing without slots entails creating a new motherboard, which vendors are loth to invest in. Tulip, IBM and Compaq all offer designs based on standard PC

boards and boxes with blocked floppy bays. Tulip's Peter Van Leuwin said it was hard to invest in a product for which there is uncertain demand. Tulip is demonstrating its NetPCs with beta software as Microsoft has been slow to deliver its Zero Administration for Windows. IBM offers its LanClient Control Manager (LCCM) which lets you wake up PCs and install BIOS changes and operating systems remotely. Download LCCM, which works on compliant non-IBM PCs, from www.pc.ibm.com/desktop/lccm

boards and boxes with blocked floppy bays.

Tulip's Peter Van Leuwin said

www.pc.ibm.com/desktop/lccm
Tulip 01293 420200



Soyo claims this SY-5ED5/M motherboard is the first to marry Intel's Accelerated Graphics Port (AGP) to Socket 7 processors, enabling speeds of up to 266MHz. Soyo 0181 481 9720

Tulip revives Commodore

Commodore PCs will be back in shops in the new year following Dutch-owned Tulip's takeover of the troubled firm. They will be targeted at a lower end of the market than Tulip's own brand. Sales of 100,000 in the first year were predicted by Tulip founder Franz Hertenaur at his new highly-automated plant which is set up for Dell-style manufacture-to-order.

Tulip 01293 420200

End of line for the audio modem?

Continued from page 24

spokesman said: "BT wants to find out what services are likely to use ADSL now."

Rockwell says its Consumer Digital Subscriber Line is cheaper because no equipment needs to be installed at the user end. But it is significantly slower, offering just 1Mbit/sec.

Dataquest comms analyst, Sue Thomson, said: "CDSL could offer BT big savings." But

she pointed out that BT "is not going to change quickly unless it is forced to do so by competition." The competition is hotting up. Fast data broadcasting next year will force the hands of land-line providers. Last month, Nortel announced a scheme to provide a permanent 1Mbit/sec link over the mains.

Clive Akass

Modems double up, page 41

Lotus hits the Java suite spot

Lotus launched a suite of Java office apps last month in what looks like the first serious challenge to the current fashion for massive do-it-all applications.

Lotus eSuite, codenamed Kona, will have little impact in the short term. But it is well placed to become the powerhouse for Network Computers, which rely on trim, downloaded applets.

The web *lingua franca*, HTML, is used as a file

format and the suite will run on any Java Virtual Machine.

It consists of a customisable environment called WorkPlace, with basic office applets, a browser and facilities for connecting to IBM mainframes (IBM, of course, owns Lotus).

It will ship early next year in the US for \$49 a seat, or \$1,495 for a server version with unlimited users. Two rival Java suites from Corel and Oracle have been



delayed. In fact, Oracle subsidiary NCI has licensed eSuite for its NC, and even Oracle is offering it as an option with its INterOffice groupware product.

The UK Java Users Forum said eSuite will be welcomed by companies facing high licensing costs for suites. It said in a statement: "This presents the first step towards a viable NC model."

Lotus 01784 455445,

esuite.lotus.com;

Java Forum 01753 842824;

www.javavision.org

Short stories

New hope for piggies in the middle...

The word "disintermediation" is one of the ugliest to be coined in the web age: and it is worse for those whose livelihood it threatens. It means of course the exclusion by electronic commerce of middle-men from the process of trade.

But companies can survive by web-enabling their business in such a way as to offer the logistics and support purely net-based enterprise cannot offer.

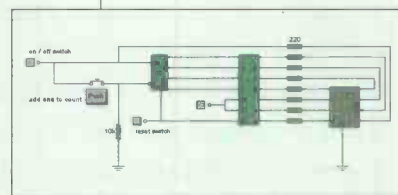
This at least is the pitch of Masterpack International, which has signed a co-development deal with Microsoft to develop systems. It already offers a series of e-commerce modules for medium-sized businesses.

● *Ovum's view*, page 36

Masterpack 01865 784343



Sun has launched a Java development environment it claims allows for non-programmers to write applets with the aid of Java Beans: re-usable code components. Java Studio costs £62 and can be bought direct from www.sun.com/shop/sun



■ A home version of Crocodile Clips 3.0, which allows you to play with and test electronic circuits in simulation, is now available for £49.95 (inc VAT). Crocodile Clips 0131 226 1511



Labour rules out Y2K cash aid

■ No government cash will be available to help companies solve the millennium bug problem, says Industry Minister Barbara Roche.

"The problem came from industry and industry must solve it," she said at the launch of a Y2K survey, sponsored by the DTI and

Sage. This found that fewer than 50 percent of firms have allocated money from their current budget to tackle the problem.

Sage has set up a Y2K knowledge base at www.sage.com.

● Y2K "fix" in trouble: page 30
Sage 0800 336633

Visio shows off AutoCAD clone

Visio, developer of the bestselling diagramming and drawing package, is gunning for the daddy of CAD packages: Autodesk's AutoCAD.

It has launched its long-awaited clone called IntelliCAD, which it claims offers unparalleled compatibility with AutoCAD drawings, commands and applications.

A preview version will be available from mid-November, but you can sign up for one now at www.viso.com. Visio says this will enable potential buyers to evaluate how well the new product integrates with existing AutoCAD sites.

IntelliCAD will also offer features not

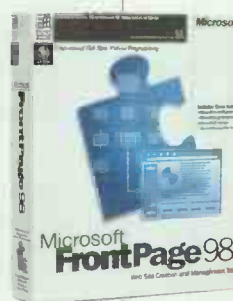


available in AutoCAD. These will include:

- A full implementation of Microsoft's Visual Basic for Applications.
- A visual menu editor and drag-and-drop button bar editor to facilitate customisation.
- A multiple document interface to enable work on more than one document at once.

IntelliCAD will sell for about £400, compared with more than £3,000 for a full version of AutoCAD. It will ship before next April.

Visio 0800 834859



Out Front

■ A beta version of FrontPage 98, the latest upgrade to Microsoft's website publishing suite targeted at home and small office users, can be downloaded at www.microsoft.com/frontpage/. It wins

a Highly Commended award in our web editor group test this month. To find the winner, turn to page 188.

Visual Café

■ Symantec is shipping its rapid development kit, Visual Café for Java 2.0, for £429 (ex VAT).

Symantec 01628 592222;
www.symantec.com

Naturally Speaking

■ The price of Dragon Naturally Speaking was said to cost £279 ex VAT in our November issue. It is actually £279 inc VA.

p29 >

RIGHT SO THE INTERNET IS READY FOR BUSINESS. BUT IS YOUR BUSINESS READY FOR THE INTERNET?

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Syquest launches Jaz killer

Syquest has launched an impressive challenge to Iomega's Jaz drive with a fast 1Gb removable drive, offering the lowest cost per megabyte of its kind.

The suggested US price of the SparQ is \$199 (about £125) including a cartridge, for the internal IDE or external parallel-port version.

Extra cartridges cost just \$39 (£24) each, or \$99 for three. That works out at less than 2p per megabyte.

Even allowing for UK loading and VAT on these prices, this is cheap by Jaz standards. Internal and

external Jaz versions are selling for around £180 and £259 ex VAT respectively. A 1Gb Jaz cartridge costs £54 ex VAT.

The claimed performance of the SparQ looks good: an average sustained read/write data rate of 5.63Mb/sec; an average seek time of 12 milliseconds.

All this should be taken with a pinch of salt until the drives arrive in UK shops — probably early next year. Syquest's 1.5Gb SyJet did not appear for two years after the company announced it.

But there has been a big

shakeup at Syquest, which was toppled unceremoniously from its market-leading position for removables by the success of Iomega's Zip.

The market is now more cluttered, with hard-drive costs falling, a 2Gb Jaz from Iomega, and recordable DVD on the horizon.

Clive Akass

Syquest 0131 339 2022 www.syquest.com; Iomega 0800 973194 www.iomega.com

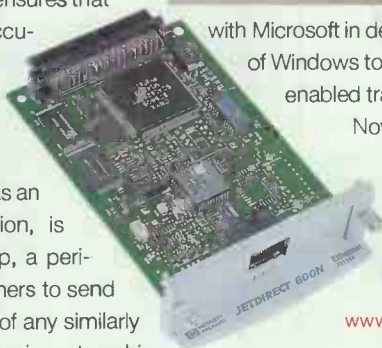


HP gets support for JetSend remote printing technology

Hewlett-Packard has licensed its JetSend technology, launched in July, to Xerox, Canon and Ricoh, taking us a step further on the road towards globally compatible data communications.

Operating-system and platform independent, JetSend lets you send documents direct from a scanner, digital camera or PC to any PC or printer worldwide. This ensures that documents are received accurately, clearer than a fax, and avoids problems in launching email attachments due to software incompatibility.

Hewlett-Packard, which has an annual turnover of \$40 billion, is currently developing JetRamp, a peripheral allowing ScanJet scanners to send data direct to the IP address of any similarly enabled product, and is working in partnership



with Microsoft in developing the next release of Windows to make the PC a JetSend-enabled transceiving device.

November sees the launch of the LaserJet 4000 (pictured above), HP's first JetSend-ready product.

HP 01344 360000;

www.jetdirect.hp.com

Nik Rawlinson



Short stories

Xerox offers home multi-function box

Xerox, which normally specialises in high-end PCs, has launched a multi-function machine targeted at small offices and homes. The Document Workcentre 450c offers colour printing, fax, scanning and copying for £499 ex VAT. It comes with Xerox's Pagis Pro imaging and document management software.

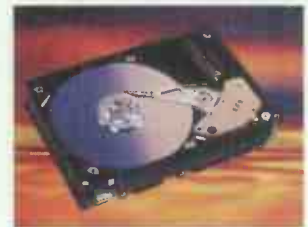
Xerox 0800 454197; www.xerox.com

Fast CD-R drives

Teac is offering a four-speed write, 12-speed read CD-R drive, the CD-R55S, for £370 ex VAT. Sony's new CDU928E-RP, capable of two-speed writes and eight-speed reads, costs a recommended £215 ex VAT.

Sony 01932 816000;

Teac 01923 225235



Hitachi's new 9.1Gb and 18.2Gb 3.5in SCSI hard drives offer a claimed 7.7ms average seek to read time and sustained data rates of up to 15.4Mb/sec.

Hitachi 01628 585000;

www.hitachi.eu.com/hel/ied/

Small printer sees red

Citizen's tiny PN60i portable printer has an infra-red interface to allow wireless printing from IR-enabled devices such as the Psion Series 5 (pictured below) and Windows CE machines. The thermal-transfer device weighs just 700 grams with its NiCAD battery and can use an optional colour cartridge. It costs £329 ex VAT.

Citizen 01753 584111



Warehouse first to sell downloads

Software Warehouse claims to be the first UK company to sell downloaded software. Selected titles, initially mostly utilities, will be at www.downloadshop.co.uk. Sizes will be at most 7Mb to cut download times. Prices will be some 40 percent less than packaged versions. Chairman Steve Bennet admitted: "We have no idea how it will go." www.software-warehouse.co.uk

It had to happen: a Cambridge company has set 2020AD as the year when it will offer the world a complete virtual human.

"So far we have managed to demonstrate that in order to create the artificial interface a human being would have to exhibit, we have to go for a holistic approach," said Anil Malhotra, business development director at Cyberlife, which developed the cult game, *Creatures*.

"Once we have got the working software, we will take it out of the virtual world and



Cyber spin-off: *Creatures* book from Sybex in the US

put it into the real world by creating robots." Phew. And it's not all talk: Cyberlife is doing concept development already. It wants to produce believable, lifelike robots initially for the entertainment market.

Correx makes a DOS of Y2K fix

Correx 2000, sold as a fix for PC clocks that don't roll over into the next century, was sent out with an unlicensed version of MSDOS 6.20.

It comes on a bootable floppy which, when its tests are over, leaves you at a functioning DOS prompt. A spokesman for its distributor, Secure PC, said when we pointed this out: "That's totally new to us."

The program's author also claimed ignorance of the copyright infringement but said steps

would be taken to remedy it.

Only the next day, Secure PC (best known for its anti-theft hardware) was delivering review copies to another magazine.

Later, the author admitted using unauthorised DOS files and said he was "looking at licensing arrangements."

Newsprint last month pointed out that the claim on the Correx 2000 box that it "fixes the time bug" is misleading: a rollover fix is crucial, but is only part of the Y2K problem and

the simplest to solve. Secure PC says it is amending the text after consulting its lawyers. The box says the product can fix a



PC BIOS "for the next 999 years", although neither DOS nor

Windows takes dates after 2099. Correx 2000 works through DOS and does not interact at BIOS level. There are better fixes, which we will review next month.

Paul Wardley

2020AD ... birth of the Cyberlife robot Adam

Caroline Swift continues her reports from Silicon Fen



The company, with input from a consultant at MIT, is developing the technology for software robots, or "softbots".

Within 12 to 18 months Malhotra anticipates having a prototype ready to deal with the real world. The work is being done in co-operation with a nearby consultancy called Scientific Generics.

Cyberlife is not short of backers. A funding round this year raised £2 million; investors include Acom founder Hermann Hauser and net pioneer Peter Dawe.

It's a case of thinking about technobiology rather than biotechnology, says Cyberlife's chief scientist, Steve Grand. It is exciting enough to attract Alan Boyd, one of Microsoft's original employees, who has become development director.

"We are really creating artificially alive complex adaptive systems in which a key

characteristic is that they display lifelike behaviour. They are not just genetic algorithms, nor just neural networks. We combine all of the technology to produce very intelligent autonomous organisms," said Malhotra.

CyberLife metamorphosed in the mid-eighties from Logotron, whose software for schools was bought out by Longman. Left with a games business and staff including a couple of biologists, it wasn't long before the idea of building rich genetic structures came up.

The company fused computer science and biology to create what it calls "technology that is alive": reasoning lifeforms which last year were launched as state-of-the-art *Creatures*. In just a year 350,000 CD-ROMs have been sold. Now Cyberlife is looking at applications in retail, banking, air travel and

communications.

It is working with NCR on the relationship between retail space and consumer behaviour, and on the banking environment of the future.

CyberLife is also working with the Defence Evaluation Research Agency on pilotless aircraft and with BT on adaptive technology for telecoms.

Meanwhile, *Creatures* has sprouted 156 unofficial web sites worldwide. The web site www.cyberlife.co.uk is getting an impressive 620,000 hits a week.

Hermann Hauser was due to speak last month at a new networking group that has spun out of Cambridge. Digital People provides a meeting point in London for "a volatile mix of convergence people".

Visitors at its inaugural October meeting included Jerry Yang, founder of Yahoo, Michele Appendino, partner in Net Partners, Erik Hagen, head of Scandinavia On-Line, and Eva Pascoe, of Cafe Cyberia. www.digitalpeople.co.uk

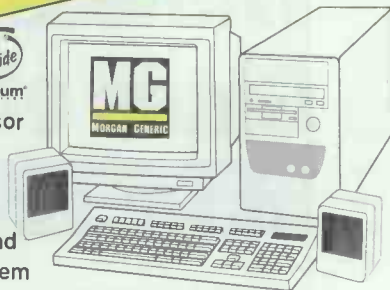
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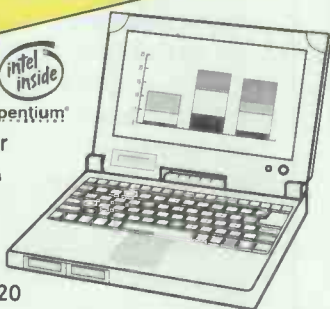
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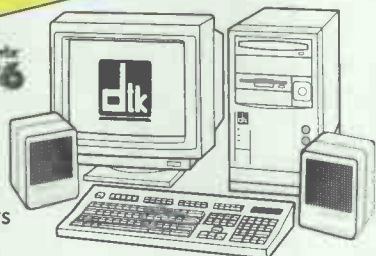
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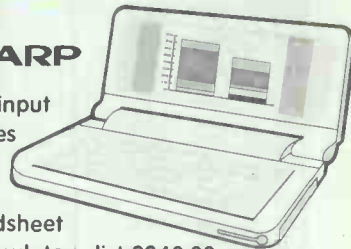
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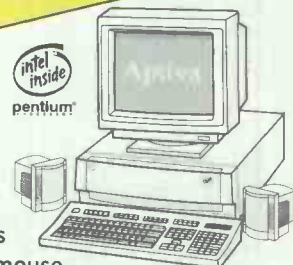
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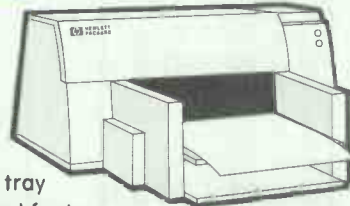
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Short stories

Utility bundles for Christmas

■ A Christmas offering from Quarterdeck bundles three PC utilities — FixIt, Clean Sweep and Magnaram — for £49.99. The tools help you clear up your hard disk, make best use of RAM and diagnose problems.

Astrasoft is offering a two-CD bundle of titles including First Aid 97, Norton Anti-Virus, Windelete, Quick Views Plus, PC Handyman, and Powerdesk. It will be available in leading PC supplies stores.

Quarterdeck 0645 123521;
www.quarterdeck.co.uk;
Astrasoft 01494 464 765

**Alien aid in the classroom**

■ Adi, an extra-terrestrial tutor with a virtual classroom, is crossing the channel from France where it is said to have been a big success. He stars in a CD range for seven- to 15-year-olds, to be released in January, covering each school year in English and Maths for the National and Scottish Curricula.

Adi, an "intelligent" alien, lets children learn at their own pace and becomes a companion as well as personal tutor.

Dealer CUC Software has also just launched new Fisher Price multimedia programs for toddlers from 18 months up.
CUC 0118 920 9100

Adams CD delayed

■ Fans of Hitchhiker's Guide author Douglas Adams will have to wait until Spring for the release of his Starship Titanic adventure CD-ROM game.

It boasts photo-realistic graphics from award-winners Oscar Chichoni and Isabel Molina, and a natural-language engine which enables conversations with characters.

Zablac 01626 332233

Firm fined

■ Glasgow-based Stewart-Buchanan Gauges has been fined £3,000 after being named in a call to the Business Software Alliance's "shop your boss" hotline. An audit found four unlicensed copies of AutoCAD LT, one of Microsoft Office and seven of Win95.

BSA hotline 0800 510510

The Agenda conference is attended by the likes of Bill Gates and Andy Grove, and they are very accessible.

News of the Department of Justice's \$1 million-a-day claim against Microsoft (see page 24) caused a buzz this year. It wants the fine to be imposed until Microsoft



Bill for Bill: \$1 million a day

stops forcing PC vendors to install IE 4.0 with its OS.

I watched Gates as he heard the news break. He sat quietly through the sessions before going to check with his office. Then he became vocal. He claimed the dispute centres on whether Microsoft or the DoJ determines what is in an operating system.

He said the browser was becoming part of the operating system (Explorer

Witness to the Gates of wrath

Tim Bajarin, at the Agenda conference, watches as the Microsoft chief hears he may be fined \$1 million a day

4.0 will be merged into Windows 98) and that this was allowed by the terms of a 1995 DoJ agreement which made allowances for new features.

A poll of Agenda attendees found 65 percent in favour of the DoJ action. But most I spoke to doubted that the DoJ would win.

Even Sun chief Scott McNealy, himself embroiled in a lawsuit with Microsoft over Java (see below), said: "You can't defeat Microsoft

by gumming them to death."

Gates said IE 4.0 made Microsoft the biggest distributor of a Java client. McNealy complained that it was non-standard; but clearly his lawsuit has given him more publicity than he could buy.

● Agenda attendees, who have been very accurate with forecasts in the past, predicted 1998 PC industry growth will be 11.8 percent in North America, 12 percent in Europe, and 17.2 percent in Asia.

Grove defends chip prices

■ Intel chief Andy Grove showed the conference a graphics workstation-class PC built around experimental Pentium II chips clocking what he hinted was well over 600MHz. He also showed an NCI Pentium-based version of Interactive TV: Microsoft's Web TV (see page 40) uses a rival's RISC chip.

I asked him about Intel's consumer-chip prices, which have stayed high. Grove believes pricing is not an issue and that value is the real driving factor. Of course, low-cost RISC chips are meanwhile getting design wins in everything from smart phones to PDAs. It seems that Intel is willing to preserve its high margins by ceding the low-end market to competitors.

He's scared of Java, says McNealy

Microsoft is scared by the threat Java's cross-compatibility poses to Windows, claims Sun chief executive Scott McNealy (pictured, right).

Microsoft laid the path to its lawsuit with Sun over its Java licence by deliberately adding Windows-only APIs to the Java software included with its recent release of IE 4.0, he told the Gartner Group's annual symposium



in Cannes. "Java was wildly successful and then they signed up to it: in fact, it was so successful they had to sign up to it," said McNealy.

To loud applause, he slammed Microsoft's claim that users are not interested in Java's portability. "I have not met anyone who has said they do not want 100 percent cross-platform compatibility," he said.

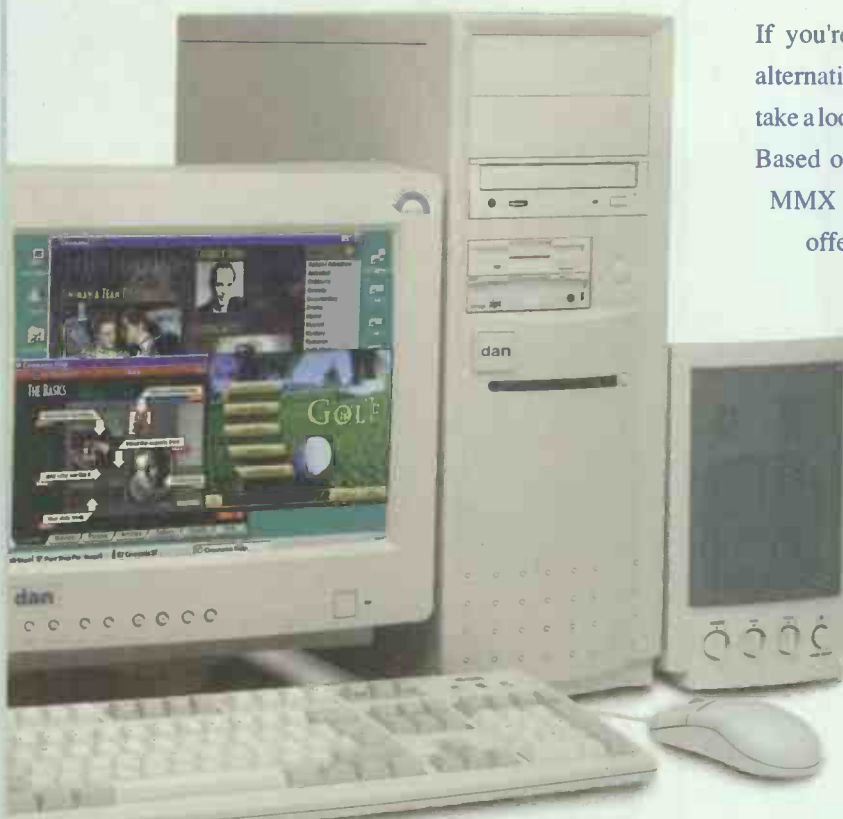
He blamed the votes of Microsoft and Intel for Sun's setback in its bid to make Java an ISO standard.

Jonathan Lambert
VNU Newswire

New Stars from dan

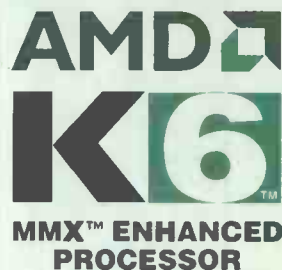
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IT skills shortage opens up jobs market

Britain faces a chronic IT skills shortage, a major recruitment group has warned. The CRT Group has put £70 million into a plan to train 2,000 IT workers. They will be selected from people who tend to be excluded from jobs, like the over-40s, the homeless and single parents, especially women.

Mark Edwards, group business development director, said fewer than ten percent of the staff are in place to meet the estimated needs of the new millennium. There is a shortfall of skills in NT, networks, Oracle, Year 2000, COBOL and DB2.

"Corporates reduced their intake of new IT graduates in recession but we are paying for it now. Companies have underinvested in

IT training and now there is an unprecedented growth in demand by business to use it to remain competitive."

As a result, salaries have rocketed, with an Oracle programmer in the City earning up to £80,000. Rob Wirszyez, chairman of the government's IT skills project office, reckons that between 30,000 and 50,000 new IT staff will be needed by the year 2000.

Consultancy Logica, which employs 5,500 people worldwide, is so concerned that it has introduced a walk-in careers desk at its West End headquarters.

Operations director Ian Hardacre says it has increased its annual intake of graduates from 150 to 350, of which about 80 percent

have a computer science or science degree.

The new careers desk enables people off the street to have a pre-screening interview, not a job offer. It is attracting about 20 people a day. "We can determine whether a person is suitable for Logica and whether we are a good fit for them. They have to be prepared to be self-starting."

He said: "The demand for skills in the IT industry is not going to diminish. This is not a blip. We are going through a revolution in the way IT is getting into our lives, and from a careers point of view this is the right industry to be in."

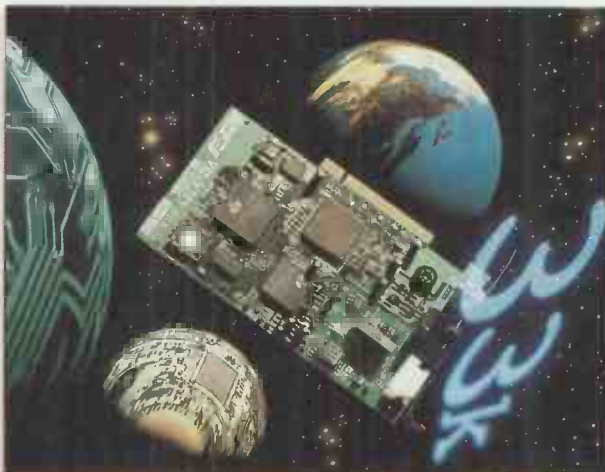
Caroline Swift

CRT 0800 7314932; www.crtgroup.com

PCI modem points to death of ISA

Brain Boxes is offering what it claims to be the only internal fax modem to fit a PCI slot. The PCI V34+ card includes an emulation of the 16550 UART chip which normally mediates the link between serial data stream and the PC's parallel bus. PCs conforming to the Win98 spec will have no other buses but PCI, marking the end of the venerable ISA bus. The company offers a PCI-based quad fast serial port.

www.brainboxes.com; 0151 220 2500



Short stories

BT offers 25p-a-go document summaries

■ An answer to information overload is available on trial at BT Labs' Internet Online Shop. It's text summarisation software called ProSum, which is available as an online service or as a £49 Microsoft Word add-in.

Chris Dix, manager of BT Shop, says the system can summarise text as much or as little as needed, and users can choose keywords to pinpoint items of particular interest.

The online service costs 25p per summary using micro-payment tokens. BT plans to combine it with a search engine to let you to scan summaries of all documents on a topic.

transend.labs.bt.com

Microwaves offer fast alternative to lines

■ Web service providers are looking at microwave links as a cheap way of providing web connection to line-of-sight customers, says wireless specialist Groupe Pathfinder.

However, other companies are ignoring the technology as it is considered a black art, says MD Richard Porter. Microwave links can be used either internally or externally where they have an all-weather range of up to 100km.

Prices for an installed system range upwards from £3,500.

Groupe Pathfinder 0151 520 0855

Ex private eye fined for data sales

A former private investigator has been fined for offences involving the disclosure and sale of personal information to clients including major newspapers.

The case against Rachel Barry, who was said to have used deception to get information, like ex-directory numbers and itemised bills, has raised new concerns about defending privacy in an age of electronic data.

Her clients included *The People*, *The News of the*

World, *The Sunday Express* and *The Mail on Sunday*.

Harrow magistrates fined her £600 for procuring the information and £600 for selling it. She was also ordered to pay costs of £800. The offences were a breach of the 1995 Data Protection Act.

Data Protection Registrar, Elizabeth France, said after the case that problems can occur when data is readily accessible on local networks by junior staff.

"We are encouraging data users to make it less easy for staff not directly involved to have access to this kind of information, so that they cannot be harassed into giving it out to the wrong person."

The DPR's office has had few complaints over information accessed via the web. "The greatest concern involves spamming and receipts of large amounts of junk mail," a spokesperson said.

You can't beat your friendly corner shop with e-trading

The rise of global commerce will not lead to the death of your friendly local dealer, according to the authors of a new Ovum report.

Many companies see themselves opening up a world market by putting themselves on the web. But just because their "virtual shop windows" can be seen globally, it does not mean they are equipped to sell abroad: goods still have to be delivered and serviced, and then there are the legal complications.

"Companies underestimate the problems of international trade," said Mark Stevenson, one of three writers of *Ovum Evaluates: Online Commerce*. He said that there will always be a need for traders who are able to deliver and provide a local service.

The report evaluates nine commerce servers —

Broadvision, Connect, IBM, Intershop, Mercantec, Microsoft, Netscape, Open Market and Oracle. Stevenson said the best choice depended on what you wanted to do, but all those on offer had their problems.

Lead author Heather Stark said: "No company would think of getting a telephone as their only step towards success, although few would be able to do business without one. Organisations must think of their online business in the same way. What distinguishes one company from another are the systems and business models that support the connection."

She warned: "For every rising star of online commerce, there are massive dark spaces in between with no signs of life."

Ovum 0171 312 7318; www.ovum.com



Scoot is a hoot

Freepages web site has relaunched as Scoot. Billed as a Yellow Pages for the web, it has details of over two million UK businesses and a cinema guide. Users can access Scoot via the web or over the phone. Vodafone users can also receive text information via SMS on their mobile phones by dialling 333.

0800 192192;
www.scoot.co.uk

Windows 98 to offer TV internet access



Microsoft is planning to enable computers equipped with television tuners to receive free internet content using free space in television broadcast signalling. WaveTop software from WavePhore will be included in Windows 98, allowing users to receive information without paying for telephone calls or subscribing to the internet via an ISP.

WavePhore will be launching a data broadcast network in the United States before the end of 1997, which they claim will reach 99 percent of all households. The network will deliver news, information and entertainment, and be wholly supported by advertising. A number of big-name content providers have already been signed up.

This method of broadcasting internet content could prove extremely attractive to advertisers because the experience will not be interactive. Users will have to take whatever they are given: this may be too high a price for those who are used to the freedom of net surfing, but may prove a winner with people who are starting out on the web.

www.microsoft.com
www.wavetop.net

Play chess with your mate

■ BT's Wireplay has added chess to its list of multi-player games. Users throughout the UK can go head-to-head in either friendly or timed games.

Wireplay also supports two variants of speed chess: Blitz, where players have two, three or five minutes in which to make all their moves; and Fischer Clock, in which players start with just two minutes but gain an extra 20 seconds after each move. Players can "chat" to each other during games, and spectators can tune in to any game in progress. All the software

necessary to take part is freely available from the Wireplay web site or by calling 0800 800918.

Usage is charged per minute on a special telephone rate of 6p during the day and 2.5p in the evening.

www.wireplay.com



E-pub games are a virtual hit

■ Tired of that long walk over the road to your local? Help is at hand in the form of E-Pub from Uproar. The "electronic pub" site features a variety of pub machine games including Trivia Blitz and Cosmo's Conundrum, all of which have cash prizes. E-Pub has 40,000 registered users and is

proving so popular that Microsoft has booked all the advertisement space on the site until Christmas.

www.uproar.co.uk



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Digital paper goes global with new free Java viewer

Hummingbird has released an internet publishing package which enables you to screen identical pages on virtually any platform.

Standard web HTML cannot guarantee WYSIWOG — What You See on Your machine is What Others Get on theirs — because the display depends on how the target machine interprets the language.

Adobe's Acrobat and Hummingbird's Common Ground both offer WYSIWOG by providing free viewers of their document files for major platforms such as Windows, Mac OS and the various flavours of Unix. But Hummingbird's new Common Ground Internet Edition is the first to offer a Java viewer to enable publishing for any platform supporting a Java Virtual Machine.

Hummingbird claims that its Digital Paper format, unlike Adobe's Portable Document Format, can cope with exotic

characters because it describes types mathematically rather than relying on font substitution.

The Common Ground Internet Edition is freely available to anyone posting Digital Paper documents on a public site. It includes a viewer and a driver that converts any Windows 95 or NT document into Digital Paper.

It is intended to promote Common Ground Web Publisher 4.0, which is targeted mainly at publishing on intranets. Features include automatic document conversion and hot-link updates.

An Adobe spokesman stated that a Java viewer for Acrobat is being developed but no launch date has been announced.

Common Ground's internet edition can be downloaded from www.hummingbird.com/cg/cgie.

Hummingbird 01628 777784

Legal pitfalls await unwary companies

A survey of companies with web sites shows that only 17 percent took any legal advice before setting up their internet presence. The survey was commissioned by national law firm, Eversheds, which states: "The net is becoming an excellent tool for business, but it is a legal minefield."

Almost three quarters of those questioned admitted that they had not taken legal advice on whether they could use their organisation's domain name on the internet. Eversheds claims there is little awareness of the problems which can arise in countries other than the UK through the use of a domain name.

Another increasingly awkward area is the question of trademarks: 20 percent of companies are using trademarks belonging to other organisations without having checked the legality of their use on the web.

Isabel Davies, Evershed's head of intellectual property, said: "Companies which don't check out their legal situation are storing up trouble."

www.eversheds.co.uk

Broadsheet web sites aim at student loyalty

Both *The Times* and *The Daily Telegraph* have launched web sites aimed at students.

The *Times* site, 4-D, has been developed in conjunction with Line One and aims to "provide a range of cutting-edge material, specifically created for, and by, students". Books and CDs can be purchased on-line and there will be competitions and chat rooms in which net-hungry students can "chew over the zeitgeist".

The *Telegraph* site, known as Juiced, is backed by Midland Bank, which is offering a prize of £200 for the best "electronic journalist" each month. The site covers similar topics to 4-D including news, sport,

Internet shorts

Dynamic HTML approved

The World Wide Web Consortium (W3C) has approved Microsoft's proposals for the next version of HTML, the language at the core of web site development. The acceptance of "dynamic" HTML is a blow for rival Netscape which was hoping that its competing technology would be given the nod.

www.microsoft.com

www.netscape.com

www.w3c.org

L-plates galore

Kosmos Software has launched a web site for learner drivers. The site features a comprehensive set of resources, including a national directory of driving schools.

In addition to contact details, the directory lists the various services available like advanced tuition, female instructors and motorway training. The rest of the site has lots of information on different aspects of learning to drive, including licences, instructors, driving tests and buying a car.

You can also take an online theory test, but beware — your score may prove embarrassing, particularly if you have previously passed your driving test.

www.learners.co.uk



FODDER



travel and music, and provides personal financial information.

The sites invite comparison to the high street banks' practice of offering giveaways to new students when they open an account.

The *Times* and the *Telegraph* are hoping that the web sites will engender loyalty to their papers in post-university years.

www.juiced.co.uk; www.4-d.co.uk

www.lineone.net; www.midlandbank.co.uk

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A tangled **web** we weave

Bill Gates' Web TV Plus paves the way for a revolution: enhanced TV, or an integrated web. Tim Bajarin looks at what will doubtless become one platform.

When the Web TV was introduced last year, I was among its critics. I could not see how adding the web, in its current form, to an analogue TV would attract consumers.

I was in a focus group when one member, after two minutes of viewing web information on a TV, asked when the movie was going to start. This incident highlighted the fact that static information will not be enough to attract a broad audience accustomed to motion video and talking heads. Yet the idea of a web-enabled TV is fascinating the PC, consumer electronics, cable, entertainment and broadcasting industries.

People in all these industries have begun to try and make the Web TV idea more appealing to a market driven by entertainment rather than information. Bill Gates has had a PC/TV project inside Microsoft's labs for some time and he decided, early in 1997, to buy the Web TV company for \$450m and to adopt its strategy.

At the time, most of us had seen only the original Web TV concept, and could not understand what made Gates pay so much for a company that had not made a dime in profits and was perhaps years away from making any impact. Now he has launched Web TV Plus, embodying what is being called "enhanced TV", which gives us a better understanding of what was behind the purchase.

Web TV was originally just a digital overlay on an analogue video signal so that the web and video contents were completely disconnected. The new Microsoft Web TV system lays the groundwork for a communications revolution, by marrying traditional video content with live and connected web data. Users can

toggle between a TV program and any related web content. You could be watching a football game on two thirds of the screen, for instance, and at the same time be tuned to ESPN's Sportzone web site checking out game statistics.

The next stage would be to develop content that is directly tied to the program you are watching. An example of this might be the new Dreamworks-produced show, Spin City, starring Michael J Fox. You could have a live web site with information about the actors and the story, even the actual script, readily available during the show. Afterwards, viewers could participate in a live chat session with Fox and his co-stars, and producers might garner new story ideas from the feedback. There could also be a commerce link. An MTV viewer could call a site to order a video or a CD and related T-shirts or hats, from a band that is performing.

As digital technology advances, vendors will add optical read-write storage devices to a Web TV-like platform. Then you will be able to actually purchase the album cut to which you are listening, via compressed streaming audio over the web, in which case you could have your own custom CD, on the spot. As the bandwidth opens up and full-motion video can be compressed and sent down various conduits, you could even download that MTV music video or movie.

Eventually, this Web TV-like platform will also deliver the videophone, as well as digital content that uses 3D and virtual reality technology, to change completely the way in which we work, play and learn.

No wonder Bill Gates bought Web TV. He has the chance to drive the digital standards needed to make all of this happen. The ramifications could be staggering. Up until now, we have populated only the business and upscale home markets with digital technology. The computer industry by itself accounts for close to \$600bn in annual revenue, but that is peanuts when you look at the digitisation of the masses. You can easily imagine the combined revenues of the industries involved reaching \$2 trillion to \$3 trillion over the next 25 years.

We are moving rapidly towards a digital economy that will have an even more dramatic impact on our lives than the telephone or television. The groundwork now being laid, by all of the people working on a digital model that marries web content with today's TV programming, will eventually cause the two to converge into a single, digital platform. That platform integrates the web, the television, the phone and many other digital media into an interconnected environment that is on track to make a real impact on the traditional consumer.

Net profit: MTV's web site could act as a music shop for viewers



Internet shorts

**Choosing the healthier option**

The Health Education Authority (HEA) has launched a web site packed with information about fast food.

Aimed at "young people", the site forms part of the HEA's campaign to encourage people to make healthier choices when eating out in fast food outlets.

There is information about the campaign and a host of fast-food facts, together with some interesting scenarios where "a group of friends experience a number of fast food situations like Saturday Afternoon Burgers and Pre-film Pizza".

Mmmm... Sounds good enough to eat.

www.thinkfast.co.uk

At your convenience:
Fast food facts on HEA's web site

Modem makers see double in bid to maintain market

Audio modem makers are resorting to the strategy of doubling-up their products in a bid to breathe more life into a technology that should have died ten years ago.

Diamond Multimedia has announced what it describes as a 112Kbits modem: in reality two 56K modems using two lines in parallel, a process which is known as aggregation.

ISDN users routinely aggregate between two and six lines to achieve speeds of up to 384Kbps.

The Diamond modems will be introduced under the Supra brand name, which is currently number five in the US market. They will be on sale early next year. US Robotics is expected to announce a similar twin-modem

product at Comdex this month. The 56K standard is not now expected to be ratified by the International Telecommunications Union (ITU) until early next year and additional technology could muddy the waters.

Modems can already be aggregated using some communications software. Audio modems, designed for voice lines, survived beyond their natural span because of the cost of ISDN installation and the failure of the communications industry to foresee the demand for high bandwidth.

Several technologies, such as ADSL and cable modems, are competing to replace them for mainstream data traffic.

Additional reporting:
Mike Magee

Multi-currency net payments become a reality via NatWest

NatWest bank has developed a multi-currency payment engine for the internet in conjunction with Jersey-based ISP, Supernet. The Worldpay system enables on-line retailers to sell their goods in 16 countries, with customers paying in their local currency.

The payment page of a registered retailer is located on the Worldpay server which transmits the transaction to NatWest and deals with the credit card clearance over ISDN. British ISP, PSInet, plans to offer the service to any of its customers setting up electronic commerce sites.

The payment engine began development in conjunction with online shopping site Barclay Square, and more recently was used to accept multi-currency donations on the official Princess Diana



memorial web site at up to £7,000 an hour.

"Worldpay increases sales potential by enabling customers to pay for products securely, in their own currency," said a spokesperson for Supernet.

Using the same foreign exchange computer as is used for the 24-hour global credit card currency exchange rates, Worldpay sets prices on all its hosted sites once a day. This means web customers can be clear about what they will pay, rather than using a credit card where the rate of exchange is set some time after the payment has been made.

Worldpay makes a quarterly charge and a percentage on each transaction.

www.natwest.co.uk; www.worldpay.com
www.uk.psi.com

Dixons on web



Christmas is just around the corner and the thought of crowded high streets and stifling shops is enough to ruin anyone's seasonal goodwill. Dixons claims to have the answer to all this with the launch of its new web site. Over 2,000 electrical products, from PCs to hi-fis, can be bought via the web page at high street prices with next working day delivery.

"We have watched the internet closely as a channel for selling and now feel the time is right to enter the market," commented Mike Nevin, visual merchandising director.

www.dixons.co.uk



Computers Plc "The Specification"

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Genius

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Titan

Professional

Pegasus

MESH Genius Home PC

Amazing Value Multimedia & Internet



MESH Elite Family Connect

High Power Multimedia & fast Internet for all the family



Hi, I'm Chip - this month we've got lots of new spec PCs to offer you plus some very special Christmas offers



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MESH Genius Home PC Specification

Intel TX Chipset LPX Motherboard in space saving Slimline case

512Kb Pipeline Burst Mode Cache

16 Mbyte Fast EDO RAM

2.1Gb Ultra ATA DMA Hard Disk Drive

2Mb Integrated 3D Graphics

Superb 14" SVGA Colour Monitor

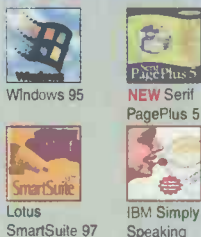
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Integrated 16 bit Sound Chip

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33.6Kbps Voice Fax Modem with Pipex Internet access*

Bundle



Bundle



MESH Elite Family Connect

MESH Elite Family Connect Specification

NEW ATX style MESH case with latest Intel Chipset ATX Motherboard

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32 Mbyte Fast EDO RAM

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24 Speed CD ROM Drive

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The ultimate PC for the serious gamer!

MESH Elite Titan

The experienced Multimedia user's choice.

17" monitor



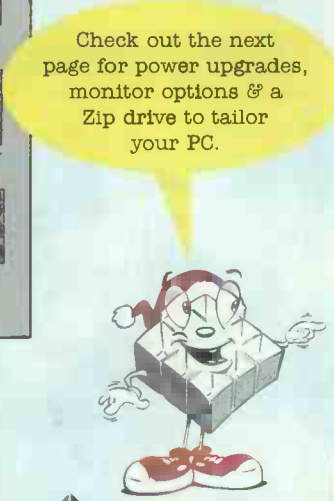
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- #### MESH Elite Fireblade Arcade
- MESH Elite Fireblade Specification
- NEW ATX style MESH case with latest Intel Chipset ATX Motherboard
 - 512Kb Pipeline Burst Mode Cache
 - 32 Mbyte Ultra Fast SDRAM**
 - 4.3Gb Ultra ATA DMA Hard Disk Drive**
 - 8Mb Hercules Stingray 128/3D Graphics Card**
 - MS Sidewinder Gamepad
 - 15" FST Digital SVGA Colour Monitor
 - 24 Speed CD ROM Drive
 - AWE64 Plug & Play Wavetable***
 - Yamaha DSP20 Speakers with Sub-Woofer**
 - Latest 56Kbps Voice Fax Modem with Pipex Internet access*

- #### Bundle
- Windows 95
 - NEW Serif PagePlus 5
 - SmartSuite
 - Lotus SmartSuite 97
 - Starfleet Academy
 - MDK
 - IBM Simply Speaking
 - IF 22
 - Moto Racer
 - Pandemonium
 - Formula 1

- #### MESH Elite Titan
- MESH Elite Titan Specification
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 - 512Kb Pipeline Burst Mode Cache
 - 32Mb Ultra Fast SDRAM
 - 5.2Gb Ultra ATA DMA Lockable, Removeable Hard Disk**
 - 4Mb ATI XPERT@Play 3D Rage Pro Graphics with TV out, MPEG2 & DVD support**
 - 17" FST Digital SVGA Colour Monitor**
 - 24 Speed CD ROM Drive
 - AWE64 Plug & Play Wavetable*
 - Stereo Amplified Speakers
 - Latest 56Kbps Voice Fax Modem with Pipex Internet access*

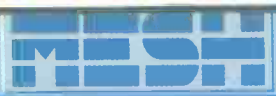


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	233 £1299	£1526.33	£60/m
intel inside pentium	200 £1275	£1498.13	£59/m
	233 £1325	£1556.88	£62/m
	233 £1399	£1643.83	£65/m
	266 £1499	£1761.33	£70/m

	Excl. VAT	inc. VAT	Finance
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3.5Gb Ultra DMA ATA Hard Disk Drive

NEW 4Mb ATI XPERT@Work AGP Graphics Card

17" FST Digital SVGA Colour Monitor

24 Speed CD ROM Drive

Yamaha 3D Sound Processor

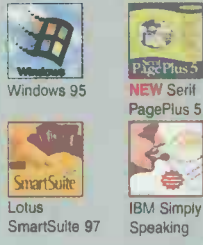
Stereo Amplified Speakers

Latest 56Kbps Voice Fax Modem with Pipex Internet access*

Bundle



Bundle



MESH Elite Pegasus

MESH Elite Pegasus Specification

NEW ATX style MESH case with latest Intel 440LX AGPset Motherboard

512Kb Pipeline Burst Mode Cache

64 Mbyte Ultra Fast SDRAM

6.4Gb Ultra ATA DMA Lockable, Removable Hard Disk

NEW 4Mb ATI XPERT@Work AGP Graphics Card

17" Taxan TCO95 Ergovision Diamondtron 0.25dp Monitor

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Tailor your PC to your exact requirements with these carefully selected options



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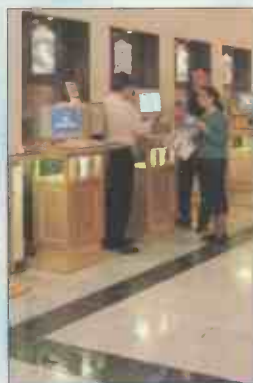
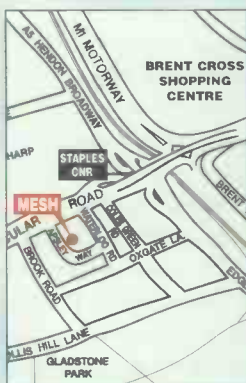


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DVD'ed they stand...

...DVD'ed they fall. Either way, the PC-RW vs DVD-RAM format debate must resolve itself and opposing factions must call a truce. Tim Frost comments.

The rift between the DVD Forum and the forces of Sony, Philips, Ricoh and Hewlett-Packard (HP) on the rewriteable DVD format has moved to the stage where, by the end of 1998, there will be two rewriteable DVD formats available to the PC market. The DVD Forum has always been split, with Sony/Philips and Toshiba/Hitachi/Matsushita taking different views on how DVD should develop. With DVD-Video and DVD-ROM, the groups have managed to come to an agreement to launch the read-only and DVD-R discs with the rewriteable format, but the two factions can't compromise.

In the summer, DVD-RAM (a caddy-based disc with roots in the PD optical disc) was ratified as the formal DVD rewriteable format. DVD-RAM offers 2.6Gb per side, and

both single and double-sided discs are becoming available from Maxell. Philips/Sony made it known that they were unhappy with the decision and last month, in a joint agreement with Ricoh and HP, announced their own competing rewriteable "DVD" format. Dubbed DVD+RW, the name for this Forum-unapproved version is likely to be changed to PC-RW, with PC standing for "phase-change".

PC-RW offers a higher storage capacity of 3Gb per side and the discs are caddy-free, like CD-R and DVD-R. It is DVD-RAM's reliance on a caddy, making it look like a large floppy disk, that has generated key criticisms from PC-RW's supporters; they say that future DVD-ROM drives have to be modified to take caddies and discs. A single-sided DVD-RAM can be removed from its caddy to play in any DVD-ROM drive, but disc manufacturers say that the DVD-RAM disc cannot be reliably replaced for further recording. DVD-RAM's supporters point to the added protection that the caddy provides, and believe that the costs and difficulties of making drives physically compatible with DVD-RAM are overstated.

The first samples of DVD-RAM compatible ROM drives indeed show that they can accommodate the caddies by using a simple square indent in a sprung CD tray, which adds little cost to manufacturing the drive. While a grab for technology licence fees always makes its

mark on these format disputes, the two groups appear to have genuine differences of opinion over the usefulness of their particular development.

Toshiba is hoping to include DVD-RAM compatible DVD-ROM drives in its corporate notebooks, with DVD-RAM writers in desktops. A spokesman said that DVD-RAM, in its protected case and with slightly better performance on streamed files such as video, is "the perfect solution for on-the-road presentations, and the disc can be chucked in a briefcase and still survive".

The opposite argument is offered by the PC-RW group. The market expects DVD to be a bare disc and anything that veers away from that is bad news, says HP's DVD marketing manager, Dave Dean. "We think the vote is in and counted and it is clear that people like the tray-loading solutions — we have gotten away from cartridges and caddies in the CD world."

There are data structure differences between the two formats. PC-RW is like CD-RW with the data written into pre-cut grooves in the blank disc, and the file system is split into data blocks with the addition of further PC-RW headers. DVD-RAM uses both the grooves and the "land" either side of the grooves to hold data, and has a PD-type data structure relying on embossed markers. At the data level, the formats are incompatible and the discs from one format cannot be used with the writers of other.

This incompatibility goes beyond the writers and into the DVD-ROM drives. None of the current generation of DVD-ROM drives can read rewriteable discs, but future releases will have LSI modifications to allow them to read the different physical data layout of DVD-RAM or to respond to the additional headers in the PC-RW data stream.

Both groups insist they will not support the opposition's rewriteable format in their DVD-ROM drives. This affects every buyer of DVD-ROM, with, for example, a Sony drive able to read PC-RW discs but rejecting DVD-RAMs, and Pioneer drives doing exactly the opposite. Despite the posturings on both sides, it would seem that the PC industry may put commercial pressure on manufacturers on all sides to support both formats, at least in their DVD-ROM drives. Although a strong selling point for upmarket PCs, the DVD-ROM drive remains one small part of the complete PC system. PC manufacturers want to avoid a situation where one OEM'ed part of their PC is responsible for a rush of service support calls from puzzled and annoyed customers who find that their branded PC will read some "DVD" rewritables and not others. There is pressure for drives that will handle both formats, no matter how unpalatable that is to the manufacturer concerned. ■



Ratified: a DVD-RAM drive from Hitachi

New search for knowledge

■ Encyclopaedia Britannica has launched a net search engine with a difference. Currently limited to 65,000 sites, the guide gives information only on those web pages which have been highly rated by a team of subject editors and copy editors.

There is a comprehensive description of each site, written by Encyclopaedia Britannica, with details of informational accuracy, quality and authority, together with ratings for ease of navigation and quality of design. Eighty-five percent of the

sites are described as "noteworthy" and fifteen percent have a "recommended" classification. Only one percent of the 65,000 sites has been judged "exceptional" and a mere thirty have merited a "best of the web" designation.

Although 65,000 sites represents a small fraction of what the net has to offer, Encyclopaedia Britannica is hoping that the guaranteed quality of the sites listed by their search engine will prove to be a winner. Any searches which come up blank are

automatically re-routed to the Alta Vista search engine for a web-wide search.

The internet's astonishing growth rate means that Encyclopaedia Britannica's team of web editors will be hard pressed to keep up with the number of new sites coming on-line every day. Another potential stumbling block for the new search engine is the lack of a localised UK version at a time when big players, like Yahoo and Lycos, are moving strongly in this direction.

www.ebig.com

Internet access via the national grid

A deal to beam the internet into the home via electricity lines could make a reality of the dream of fast, low cost web-access-for-all. That was the reaction of one analyst to an agreement between telecomms equipment maker Northern Telecom and UK electricity supplier Norweb to provide internet access to the mass residential market over Norweb's infrastructure.

This method will be ten times faster than ISDN, currently the quickest (but most expensive) mainstream method of accessing the net. Data can be transmitted at over 1Mbps, said Nortel, and as the network is already in place, the costs for the user should be lower than with other high-speed options like cable modems or wireless links. It will also be faster, though more expensive, than digital subscriber line (DSL) technology, which uses standard telephone wires to transmit multimedia content.

But some players in the expanding telecomms market claim that the technology under trial is still inadequate for business needs. Energis is working to develop similar "power line" telecomms with bandwidth sufficient to deliver sophisticated business data services.

Initially, the Nortel-Norweb services will be tested only in the UK but are unlikely to be extended in the near future to other European countries, or the US, because of the different layout of their electricity

networks. However, Nortel did not rule out similar partnerships with other European utilities, with analysts pointing particularly to Germany where the electricity giants are pushing heavily into the telecomms and internet services markets.

But schemes are starting up in other countries. In the US, electricity suppliers Peco Energy and Utilicorp formed a joint venture called Energy One to provide bundled telephone, net and energy services, and AT&T is likely to join the partnership.

The deal is the latest twist in a headlong scramble by infrastructure suppliers to cash in on the residential demand for internet and other multimedia services. Telco Energis said it is seeking to develop similar technology for its business customer base.

"We have been fully aware of the trials but have not been directly involved because their application is to the residential market," said chief executive, Mike Grabiner. "We believe that 'power-line' telecomms technology... has a potential application in business telecomms markets. Energis is seeking to develop this technology to allow higher bandwidth connection than that being trialled, to carry advanced business data services, conventional voice telecomms and internet access."

• See "Futures" in PCW next month for a full analysis of this new technology.

www.norweb.co.uk; www.nortel.com

Yell Top Ten New Sites



For your surfing pleasure we present a Yuletide log of the best new sites around, courtesy of Yell <www.yell.co.uk>.

The Christmas goose may be getting fat, but you can avoid going the same way with the aid of HealthNet, perched athletically at the number two spot.

1. Electrolux www.electrolux.co.uk
2. HealthNet www.healthnet.org.uk
3. Conde Nast Traveller www.cntraveller.com
4. Brainstormers Web Design Factory www.brainstormers.com
5. Poppets www.poppets.com
6. Apple-Expo www.apple-expo.com
7. Barclay Square www.barclaysquare.co.uk
8. Allied Dunbar Rugby Club www.rugbyclub.co.uk
9. The Internet Music Shop www.music-sales.co.uk
10. Fresh Records www.freshrecords.demon.co.uk

Short stories

Works well on paper...

Opinion at PCW Towers is divided over this latest wheeze (pictured, below) to get your pennies. For £4.99 you can buy these special notepads, designed to replace your mouse mat. They come with non-slip pads on the bottom. Most people in the office would not try one, for fear that ink might clog up their mouseballs. But your intrepid Newsprint reporter dared to be different, and thought them a good idea. So did his mouse, which liked having a fresh surface to run about on every other day. It saves desk space and gives you a fair chance, if not a certainty, of finding that vital phone number you scribbled down three days ago.

You can buy the pads in three designs from major sellers of computer stationery, or expect to see them as promotional freebies.

Details on 01494 815049 or email mousenote@aol.com

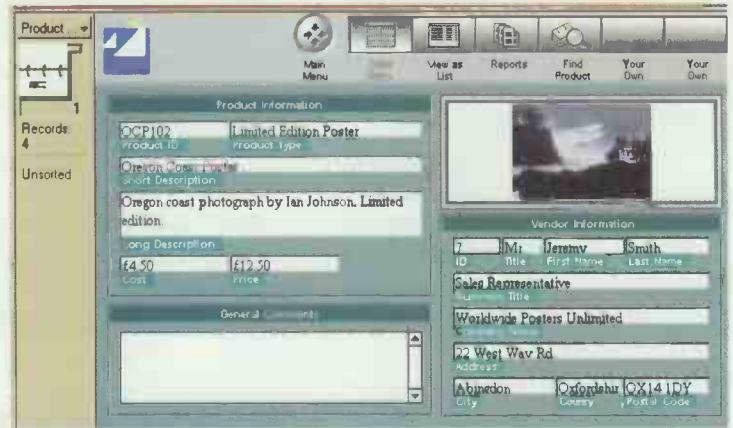


FileMaker Pro databases get netted with version 4

Clariss has launched version 4.0 of FileMaker Pro, which it claims is the world's bestselling PC database system after Microsoft Access.

New features of FP 4.0 include the ability to access and enter data using simple HTML templates. Clariss claims this means you can publish and collect information over the web without any extra software. Other new features include automatic conversion of Excel spreadsheets, and custom forms.

Clariss is the software arm of Apple, but publishes FP 4.0 for both the Mac and



The new version of the database system makes more of the web

Windows (NT, 95 and 3.1) platforms at the same recommended price of £199 (ex VAT).

Also launched last month was the new version 5.0 of its integrated office package ClarissWorks, again on all platforms. New features include web page design facilities and compatibility with MS Office, Corel and Lotus suites.

Clariss has announced a best-ever \$91.1 million revenue for the quarter up to 26th September, which it credits largely to sales of Mac OS 8.0.

ClarissWorks 5.0 costs £99 (ex VAT) or £49 for upgrades.

Clariss 0181 756 0101
www.clariss.co.uk

● See *First Impressions*, page 96

Top 10 Windows software

		Last month
1	MS Encarta Deluxe 98 CD	Microsoft -
2	MS Flight Simulator 98	Microsoft -
3	MS Bookshelf 96(Win 95)	Microsoft -
4	Nuts & Bolts (3.1+95)	Xatlantic 1
5	Smart Draw	Kiss -
6	MS World Atlas 98 v3	Microsoft -
7	MS Home Essentials 97 C/V	Microsoft -
8	Partition Magic v3	POW 5
9	MS Office Pro 97/ book/upgrade	Microsoft 4
10	MS Office 97 Stand V/Comp	Microsoft 6

DOS

		Last month
1	DOS 2 Win95 upgrade/net	Microsoft 1
2	MSDOS v6.22 upgrade	Microsoft 2
3	MS Wl 95 OEM 5 Pack CD	Microsoft 9
4	MS WFWG 3.11 base	Microsoft 6
5	System Commander v3.0	POW 4
6	Turbo Pascal v7.0	Borland -
7	PC Anywhere v5 Host	Symantec 7
8	Corel WP 6.2 U/G	Corel 3
9	Novell Personal NetWare	Novell 10
10	FSFX Upgrade for MS Flight	Microsoft 5

Top 10 CD-ROMs

		Last month
1	GCSE Maths	Europress 1
2	GCSE English	Europress 5
3	3D Interior Design	Europress 6
4	GCSE Physics	Europress -
5	Driving Instructor	Europress 10
6	Encarta 98 Deluxe	Microsoft -
7	Speak Fluent French	GSP 2
8	Bodyworks 6	Learning Co 8
9	Family Tree	Leister Productions -
10	Speak fluent German	GSP 4

Peripherals

		Last month
1	Joystick promotional	Zye -
2	Umax Astra 600 PP	Umax 1
3	Umax Astra 610P	Umax -
4	USR Sportster Flash EX	USR 3
5	Evergreen 486/586 proc upgrade	MID 5
6	HP ScanJet 5P	Hewlett-Packard -
7	USR Sportster WinModem In	USR 4
8	MS Sidewinder Precision pro	Microsoft -
9	Awe64 Gold	Creative -
10	Awe64 Value ISA	Creative 10



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Good thing the name wasn't any longer. *The Pentium®II processor from Intel.*



Intel's top engineers have just one thing on their mind: The Pentium®II processor. And with good reason. They designed new architectural features into the processor, plus Intel MMX™ media enhancement technology, to deliver a new kind of PC experience. We call it visual

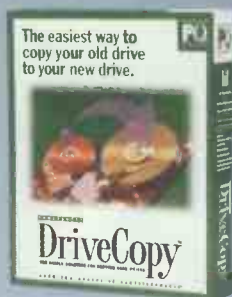
computing. Now, when you run software designed to take advantage of the Pentium II processor features, you'll notice a difference when editing home videos, enhancing your favourite photos, even making a video phone call on your PC. So if you want the ultimate PC experience, just remember one little number. www.intel.co.uk

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DriveCopy™

The easiest way to copy your old drive to your new drive in minutes.



Upgrading to a new high capacity hard drive used to be a painful process until now. With just a few simple steps, DriveCopy copies everything from your old hard drive to your new hard drive without losing a single preference, setting, or byte of data. There's no reinstalling, no data loss, no headaches. It's never been simpler or more affordable to upgrade to a new hard drive.

PartitionMagic™

The revolutionary utility that lets you create, resize, and move hard-disk partitions on the fly.



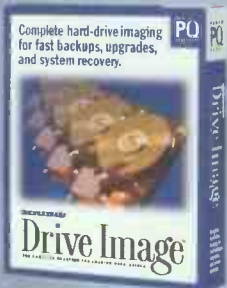
Up to 40% of your hard drive may be wasted space due to inefficient storage methods. Reclaim up to hundreds of megabytes of wasted disk space with PartitionMagic.

Running Windows 3.1, Windows 95, and NT on the same machine is now safe and easy with Partition Magic. And Boot Manager makes switching between them a snap.

Power Tools from PowerQuest™

Drive Image™

The fastest, easiest tool for complete hard-drive imaging.



With Drive Image, you can quickly and easily create and store a compressed image file of your entire hard drive, or just the partitions you specify, on a JAZZ, Zip, network or second hard drive. Backups become quick and easy, and complete system restoration is a breeze. Create an image of your old hard drive to configure your

new drive! No reinstallation necessary. Drive Image's patent-pending SmartSector™ technology works two to three times faster than conventional imaging methods so you save time, money, and a lot of aggravation.

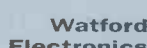
Drive Image™ Professional

The fastest way to clone workstations.



The process of cloning workstations is finally quick and easy. Download a stored image file to configure a new workstation in minutes, saving hours of installation time. You can even swap partitions between image files as well as create, resize, and move partitions without destroying data. No other product can give you such freedom and flexibility to customise image files to meet the needs of individual workstations.

For more information on any of these fine PowerQuest products, contact your local reseller or call **01202 716726**.



The other week, my 1993 vintage Psion Series 3a joined the Choir Invisible. The first sign that anything was amiss was the alarm. Instead of its usual church bell every morning at 6.15am, it started to squawk at me at various ungodly hours of the night. Then it began to complain that its batteries were permanently low. And then, one morning, it just refused to come on at all.

I'm not one of those whose life is regulated by his organiser — I tend to remember things like tax demands, dentist appointments and copy deadlines anyway — so I didn't get emotional, nor did I have to avail myself of counselling, as the Americans and Japanese apparently do. I was just miffed at the tragic, senseless waste.

Anyhow, I rang Psion, and they told me there's a place in South London that can do a Lazarus on these things. You check it in with them, go for a coffee or a beer, and then, on your return, behold, it is risen. Well, I wasn't particularly busy that week, and friends informed me that Streatham can be fairly pleasant at this time of year, so I decided to make the trip to said service shop.

"Fifty quid!" I protested. "For replacing one worn-out cable?" (The most common cause of death, and probably the one in this case, is the cable linking the keyboard to the screen: constant opening and closing of the clamshell case eventually wears it through.) "It might be more," said the girl at reception. "It is quite an old model, you know, so you never can tell what else might be wrong with it." First, it would be necessary to take it to the operating theatre, open it up, and look inside. Having peeked, they'd be able to give me an estimate. I told her that I might be prepared to pay £50, but if it came to any more it could stay dead. So while the technicians scrubbed up, off I went up Streatham High Street.

She did have a point, of course. It was a rather old model and there was therefore no telling what else might go wrong with it, even if they did fix it this time around. Then again, they were saying much the same thing about my great aunt 20 years ago when debating whether or not to give her an artificial hip. Today, I understand, albeit with the aid of a stick, she can still hold her own in an egg and spoon race. A conundrum, therefore: pay £50 and risk oblivion in the near future, or forget it and buy a new one. But *which* new one?

I took a look in Dixons for inspiration. They were advertising the Psion Series 5 in the window, but they only had a picture of a Series 5 and a box — not the machine itself. On a scale of let-downs, this is somewhat akin to going to Wembley to see Bob Dylan only to find when you get there that he's sent his socks instead. Come to think of it, I've never actually seen a Psion Series 5 anywhere and neither has anyone else to whom I've spoken. It's probable, then, that like the Yeti, the Loch Ness Monster and a stable version of Internet Explorer, it remains a thing of legend rather than reality.

But Dixons did have some real Windows CE units on display so I used the time to poke away at them and make snide remarks. What is the point of having a full-function computer and equipping it with a screen and a keyboard that are more suited to a Fisher-Price Spellmaster? It's like playing a £1,000 Aiwa CD through an acoustic horn speaker.

No joy there, then. I was about to give up and say "Sod it, I'll pay the £50" when I happened across an oasis in the high street.

The Organiser Shop, it was called (or something similar). I peered in through the window and there they all stood, winking at me like a row of Amsterdam tarts. Such style. Such class. My dilemma was sorted. I returned to the service shop, said thanks but no thanks, collected the dead body and went back to Organisers R Us for a tête-à-tête with a salesman.

A mere credit-card swipe later and it was mine. A remarkable thing it is, too: stylish, like the Limited Edition Psion Series 3a of a couple of years back and just as portable. Length and breadth, it's about the same size as a cheque book but opens up to A5. Like the new Windows CE handhelds, it utilises pen technology. To enter an address, you access an alphabetically-sorted section headed Addresses and input the information manually using a pen. Entering appointments and anniversaries is easy: months are indicated by recesses



Michael Hewitt

Sounding Off

Michael Hewitt to suffer that most painful of personal losses, the death of a Psion. There's no time to grieve, though, as he rushes off to buy a new one.

in the body of the unit, next to which the days of the year are listed sequentially to allow rapid input and retrieval of data. And once it's entered, there it stays, impervious to battery failure, airport X-ray machines, or sunspot activity.

Of course, there are a few downsides. Unless it spontaneously combusts, it won't wake me up in the morning. And connecting it to my PC's serial port isn't a particularly effective way of exchanging data, either. But for £12.50, pen included, how can I complain?

● See also: *interview with Psion designer, Martin Riddiford, p178; and Newsprint, p25.*

■ mike.hewitt@mjh1.demon.co.uk



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For years, I had a rigid "no beta" rule, and flatly refused to try any software that wasn't shrink-wrapped. I took the pledge after Symantec gave out pre-release copies of Norton Utilities Version 8, codenamed Jason, with the promise that the software was in final version except for the packaging. Jason could not cope with the latest version of the Stacker compression system and trashed my hard disk. Norton and Symantec shrugged off my predicament with the excuse: "It's not the final version".

Microsoft has turned beta testing into a fine art, having given thousands of guinea pigs the chance to find out whether pre-release Windows 95 would crash their systems. When Microsoft gave a briefing on Win98, they handed out Win98 CD-ROMs like sweeties. I was wary, but was reassured that the Win98 installation process offered the safe option of easy reversion to Win95. Colleagues told me they had installed successfully.

The first surprise was finding that safe loading needed over 160Mb of free disk space — at the briefing we had been told 120Mb. But the installation process was warm and welcoming. I chose the option to keep all original Win95 files safe in case I wanted to go back to them.

Halfway through installation, the setup program could not find some driver files which it needed. They were nowhere on the Memphis ROM. When I tried to cancel, up came the warning that cancelling before finishing would leave Win95 unusable. This stuck my PC between a rock and hard place.

I called the Microsoft UK beta helpline. The technician was helpful but shocked that anyone should be trying to load Win98 onto a working machine. "This is only an early version," he told me. "You should have been warned only to try it on a spare machine".

We certainly hadn't been warned, and I later learned that the colleague who had found Windows 98 installation so smooth had been using virgin machines, with clean hard disks.

On Microsoft's tech advice, I escaped from the half-finished Win98 install process by powering down the PC and re-starting, ignoring the "safe recovery" option and a forest of error messages. Through past mistakes I knew that I must not let my anti-virus software try to repair, and thus trash, the boot files it now detected as changed. Inoculate is the safe option.

Because the startup files had been scrambled, the PC no longer recognised the CD-ROM drive. Because my machine had come with all system software pre-loaded on the hard disk, I had no way to re-install the ROM drivers. My most recent backup tape had been made under Win95. Although the Colorado tape drive works under DOS, the Colorado DOS software refuses to read a backup made under Windows. Luckily, I had an old DOS tape which got the ROM drive working, which let me re-install Win95 from the DOS prompt, which let me

restore data from the Windows backup tape: a solid 24 hours of non-stop, nail-biting work.

But the fuller horror story started to unfold. Win98 installs around 1,200 files on the hard disk. Many have the same name as Win95 files but a later date, so any Win95 re-install operation must be set to override the normal default and overwrite newer files. This gets rid of same-name Win98 files but it still leaves the hard disk knee-deep in Win98 files with different names. Overwriting loses setup options, by replacing them with defaults.

Win98 had partly installed a new version of Drivespace compression and this refused to run. The Win95 Plus! CD refused to re-install the original Drivespace because it found a later version. Over several more days, Microsoft Support helped me to edit the scrambled Registry and rename and move files to fool the Plus! disc into thinking there was nothing newer in its way.

My poor PC now works almost as well as it did before I tried to install Win98, albeit with directories renamed "\$!\$!\$!" and error messages popping up each time Win95 falls over a stray file or fails to find a shortcut.

The key point, Microsoft's Beta Support Line explained, is that early betas lack Uninstall. Without this, the only way to remove the Win98 detritus is to reformat the hard disk. Microsoft's press briefers had neglected to tell us that. They have shown no sign of concern so you



Barry Fox

Straight Talking

Beware of the beta: for years, Barry Fox has pledged never to install one on his machine, but the wiles of a Win98 beta got the better of both he and his hard disk.

can be sure it will happen again. I'm now saying "NO" to all betas — forever. Well, would you road test a car with prototype brakes on the M1? If you must road test a beta, first take the time to check your boot, system and rescue discs and backup tapes. You may be surprised how useless they really are. If you are buying a new PC with pre-loaded software, ask about system driver discs.

I have just noticed something in the small print on the Win98 ROM label: "Software expires Jan 31 1998". So even beta testers who enjoyed a smooth ride may find themselves stranded on 1st February with no working PC.

■ 100131.201@compuserve.com

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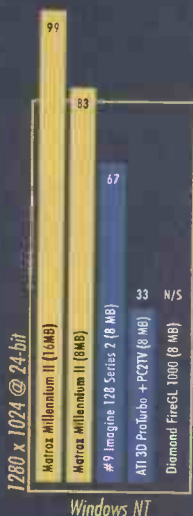
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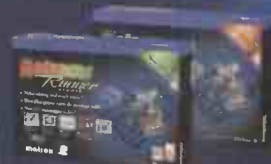
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Matrox (UK) Ltd. 6 Cherry Orchard West, Kembrey Park, Swindon, England SN2 6UP, Tel.: 01793 44 11 00 Fax: 01793 44 11 99 BBS: 01793 48 99 06 *Recommended retail price. Some dealers may sell for less. Windows NT tests conducted by Matrox Graphics Inc. on a Dell XPS H266 configured with an Intel Pentium® II, 266 Mhz processor with 512K cache and 32 MB of RAM. Matrox Millennium II, Number Nine 128 Series 2, ATI 3D ProTurbo + PC2TV, and Diamond FireGL 1000 were all configured with maximum memory configurations using driver revisions 3.20, 4.102.03, 3.1.76, and 2.70.4.0.27 respectively. WinBench 97 business tests conducted at 1280 x 1024 @24-bit at 75Hz vertical refresh using small fonts under Windows NT 4.0. Pentium is a registered trademark of Intel Corporation.

It is that time of year again when DP managers like to throw another programmer on the fire and sit back to wish for a few practical things in their stocking. With my business hat on (the red one with the fur trim) it's easy to think of a few things most business IT users would like. So here, in no particular order, is my list to be sent up the data centre chimney:

- I'd like some stability in web browsers. Yes, versions 3 of Netscape and Internet Explorer added lots of functionality I couldn't live without, but now the versions 4 have added stuff which it's going to take a couple of years to catch up with. Let's have a period of settling in before we're bombarded with previews of version 5. Give the poor site designers a chance.

- Then I'd like a PC that genuinely is upgradeable. For years it has been the case, allegedly, but I'd like one where any part, from processor to memory, can be snapped in and out to taste. When I write "snapped", by the way, I don't want to have to put so much pressure on a board to get it in place that I end up with a half-inch groove in my fingers. Nor do I want to pull out tiny plugs by microfine wires because there's nothing to get hold of. And while I'm on the subject of upgrading, I'd like drives that fix into drive bays without worrying about rails. And cables that are long enough so I don't have to practice macramé to add a tape streamer to an existing controller.

- Once I've got my upgradeable PC I'll need an operating system. I'd like the friendly features of Windows but none of the drawbacks. For instance, I want it to start immediately. No more will I have that stomach-turning moment when I have just switched off the PC and realise that there was one more file to copy off it.

I know it's a tough one, but I'd also like an operating system that doesn't crash. And, I'd like to see the end of the double click — entirely and completely, I've been helping users with Windows since version 1 and the thing that has caused most confusion is double clicking. I've watched experienced users double click a button and wonder why two actions occur. I've watched newcomers click an icon and wait. And wait. And wait...

- Back on the hardware for a moment, let's have decent screens. The first request is really another Windows plea. Yes, I like clever screens that switch off after a few minutes of not being used, but please make sure they come back. There's nothing more frustrating than a monitor that stubbornly refuses to come out of standby.

My favourite present on the screen front, though, would be the demise of the ever-large cathode ray tube (CRT). No more monstrosities that take up half the desk, cripple you if you try to lift them, and probably pour out

yobba rays (anyone remember Space Patrol? OK, so you're not that old). Let's have affordable, high-resolution plasma screens. I'd opt for something around the 50in mark but I don't want to pay more than £500.

- So to applications. For a start, I'd like Microsoft to get its act together over email clients and address books. Outlook and Outlook Express have nothing in common.

Then there's the personal address book, and the address books of each of these. Sorry, I want a single address book and a single client to handle everything. When I want to insert an address in Word, it shouldn't have to ask me where to look every time (and it shouldn't default to the personal address book — the one I'm least likely to use). When I do get an address, it should have the company name in it. What's the point of a business address without it?

I could go on and on about applications, but let's keep it simple. I'm not someone

who moans about too much functionality. I love AutoComplete and spell-checking on the fly, but please make sure everything works together. Isn't that the point of having Windows applications? Who is to do that? Microsoft. No more cop-outs on the lines of "it's not our



Brian Clegg

"I'd like an operating system that doesn't crash, and I'd like to see the end of the double click — entirely and completely"

Business Matters

Brian Clegg has an IT user's Christmas wish list — may your browsers remain stable, your PC become genuinely upgradeable and the CRT wither away.

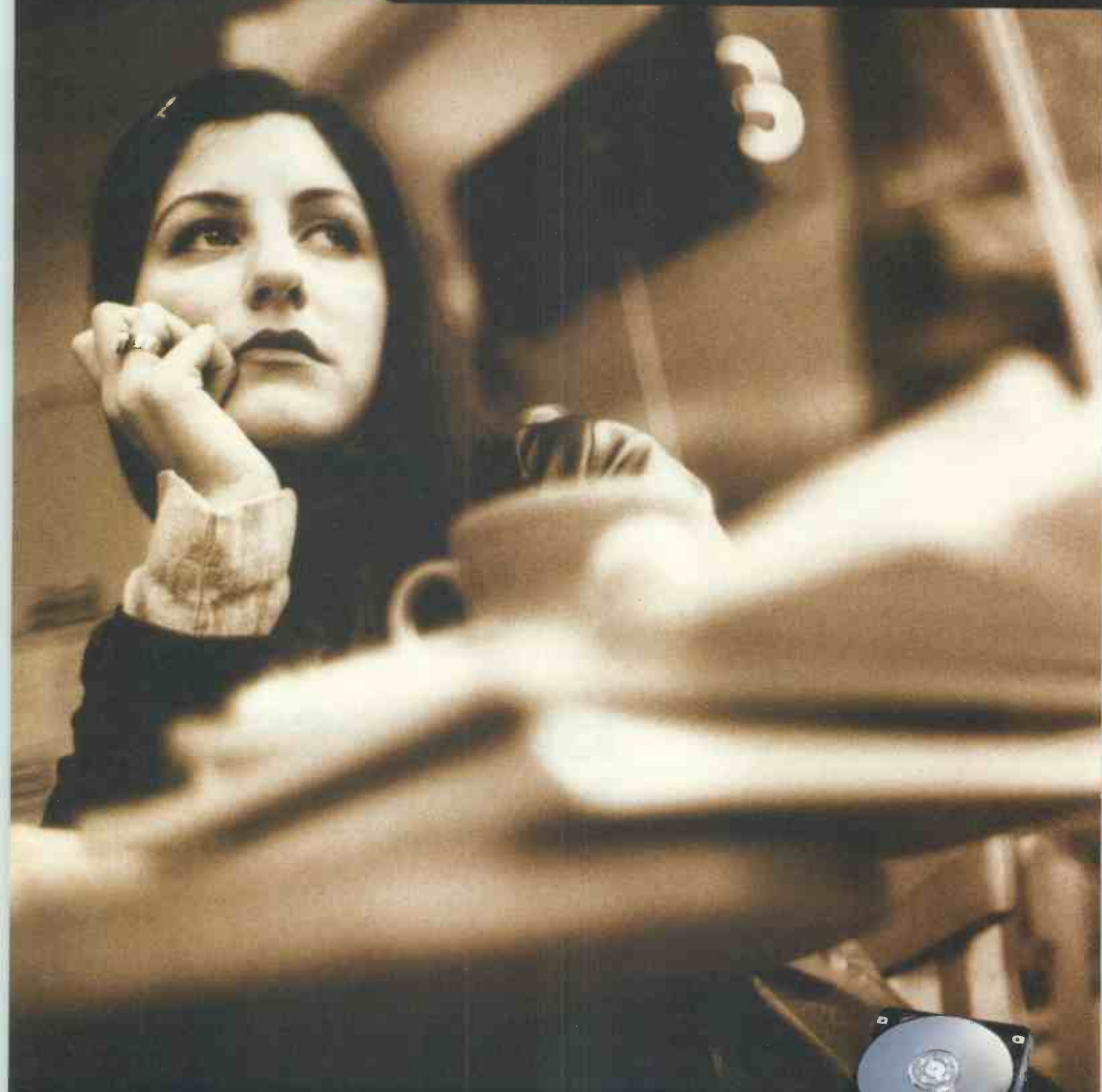
application". Instead of fining them, the US authorities should make Microsoft check that everyone's software works together under Windows, and make sure it's fixed if it doesn't.

- Oh, and finally, I would like a force feedback joystick. It isn't going to do a lot for the cash flow, but it will make Shadows of the Empire (the latest Star Wars game) even more enticing.

So, is my list a bit long? Could there be a touch of wishful thinking there? OK, maybe I will have to make do with just the joystick.

■ BrianClegg@msn.com

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writing a poem. We've got two microseconds
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Does the name Roger Excoffon mean anything to you? He was French, a self-taught graphic designer who became artistic director of the Olive type foundry. His Mistral typeface was based on his own handwriting. It's the script font you see throughout France and it ships with products like MS Office and CorelDraw (sometimes a.k.a. Staccato 222). It's particularly brilliant as it looks like real handwriting and the letters join together with uncanny accuracy.

Excoffon's achievement is all the more admirable in that he did it all with pen and paper, yet now anyone with £140 to spare can have their own handwriting immortalised in TrueType. A UK company, Formula Solutions, offers this service, and they'll also incorporate signatures and company logos into a TrueType font. My handwriting is so illegible that I've had to use mechanical forms of writing for years. I can think of no reason to digitise my own script, except perhaps for use as some sort of encryption algorithm. But I fell upon the demo version eagerly. This included two sample handwritten fonts and a utility to use them in a word processor.

There seems to be some bizarre character mapping somewhere: I eventually managed to convert the handwritten text to an exotic mix of accented and other upper-ASCII characters in normal Arial. The samples certainly weren't in the Excoffon league and lacked £ signs, but it made a change not only to be typing the usual nonsense, but also near-illegible nonsense.

Flash, bang, wallop

The idea of simulating an activity concerned with creating simulation is intriguing. A product called Photographer aims to improve your 35mm photography techniques without you ever having to buy a film. It autoruns entirely from the CD-ROM, installing nothing on your hard disk, thereby gaining several points in reviewer-friendliness. But as the first thing I saw was an error message saying that it would only run in 256 paletized (*sic*) colour, it promptly lost them again.

Start up, and you have various windows on-screen. One shows the scene, with a choice of static and moving subjects (from F1 racing cars to birds at sunset) all with optional sound effects. At the bottom of the screen is the camera. You have the choice of a simple SLR with manual controls or an advanced camera full of bells, whistles and LCD panels. Various other windows show the choice of lens, a toolbar (lose more points for no tooltips) and overall scene brightness.

Finally, there's the viewfinder: what you see here is controlled by dragging a small rectangle around the scene window and zooming or changing lenses. Workshop text panels take you through the basics of operating the camera and the particulars of each scene. Click on the various camera controls, take some shots, and your pictures are instantly "developed", then criticised.

Coming to terms with the interface is the first hurdle. The documentation is definitely in the "could do better" class, and although aperture and speed is interactive, focusing only offers the choice between automatic and typing a number into a dialog box. It's all good fun, but the quality of the images in the viewfinder and developed picture frames don't do the program justice. A pity, as there's over 500Mb of the CD unused.

Unfortunately, much of the advice is utter gibberish. On a shot taken at 1/250th of a second at f1.4 on a standard 50mm lens, focused at 2m, I was informed that everything between 0.9m and 4.1m was in focus and warned about camera shake. Experienced photographers will no doubt already be guffawing, but for the rest of us it's just not possible for that combination to achieve that depth of focus, and only those in the terminal stages of *delirium tremens* would be likely to move the camera during exposure. Nice idea, sloppy analysis, awful interface.

Pretentious, moi?

It was with a feeling of *déjà-vu* that I removed the shrink-wrap from Oz Clarke's Wine Guide, as there on the box was "One of the best CD-ROMs you can buy" — *Personal Computer World*. Now, Paul Begg reviewed the Microsoft Wine guide, hosted by Oz Clarke, in our May



Tim Nott

From the desktop

Handwriting, photography and DIY greetings cards claim Tim Nott's critical eye, and it's enough to drive him to drink. But not without Oz Clarke's wine guide.

'97 issue — but he didn't write that. Turning over the box, it says "Oz Clarke... strips away the mystique and snobbery surrounding wine" — which he did write.

This CD-ROM comes not from Microsoft, but from Websters Multimedia. It is the "third completely revised and updated version of the program previously published as Microsoft Wine Guide". Confused? So was I.

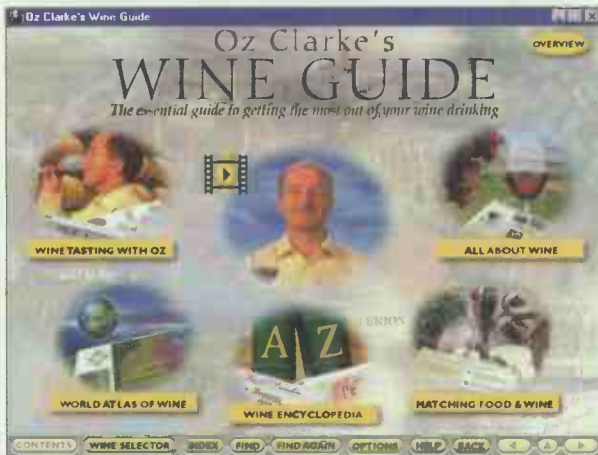
For anyone interested in wine, this CD-ROM is wonderfully encyclopaedic, covering the world's vineyards, wine production, vintage charts, tasting notes and a glossary. There are also videos of Oz dispensing his affable wizardry.



Top Photographer: How to become a David Bailey (who?) without actually having to buy a film

Right A comprehensive guide to the world's wines, some interesting oddities and videos of Oz

Below Make your own cards and avoid the card-shop scrum



Criticisms? It rather labours the point on the fundamentals: I think most potential buyers will already have mastered the basics of getting the contents out of the bottle

and be approaching power-user status. And although the "What to drink with..." section is full-bodied and well-rounded, it did lean rather upmarket. A sweet Sauternes with, say, Roquefort cheese is surprisingly excellent, but I felt that blowing a bottle of Andrew Will Cuvée Lulu Chenin Blanc (bone dry, delicately floral, good fruit intensity and plenty of refreshing acidity — OC. ...And rather expensive — TN) with fish and chips was *de trop*.

Although depressingly few bottles in my cellar even make it onto Oz's C-list (perhaps because there are depressingly few there) this is a truly fine CD that left me with a thirst, and Microsoft is welcome to quote me on that one.

If you can't beat them...

One of the fun activities with graphics software and colour printers is creating your own personalised greeting cards. However, this desktop's traditional sledgehammer-and-nut approach of struggling with CorelDraw for an hour or so is hardly a money-saver.

Enter the purpose-made CreaCard Gold, where Carlton Cards, presumably scenting a shrinking market in ready-made cards, has teamed up with Micrografx.

Mrs Marie Holmes, a Satisfied Customer of W. Yorkshire has, according to the blurb on the box, tried "...all the others but they do not compare.

CONGRATULATIONS & THANK YOU!" Now there, apparently, speaks an expert (or perhaps obsessive) card-maker, so minutes later I was 43Mb of disk space the poorer, half of which, strangely, seemed to be a screensaver.

The first surprise is that although it's a Windows application, it takes over the entire screen, hiding that confusing taskbar thing and all the other "Stuff You Don't Need to Know About". Next surprise is the Kid Lock: "Portions of the content... and the add-on packs available... may be unsuitable for children." This brightened things up a little.

Getting into the program proper, the chunky cartoon interface persists, with screens of pre-designed cards for every occasion from Halloween to Hari Raya and, of course, birthdays. And there are

the usual reassuringly awful jokes: "No trees were destroyed to make this birthday card..." (turn over) "it was made from finest recycled material at a sweatshop using child labor at eight cents an hour!"

There is something for everyone here, ranging from the cloyingly sentimental to the downright rude, and in this respect there's very little difference from browsing in a card shop, except you can edit the text. Should you want to go further, there's an option to add your own scanned or digital photos, and a drawing application with an interface that achieves the rare distinction of being simultaneously patronising and confusing. When you have created the card, you can print it or send it via email.

The other part of the package is Forget Me Not, a combined address book and calendar. When you've tired of the available

content, you can call a special number, deploy your credit card and receive a code for unlocking additional material from the CD, including Celebrations of Faith, Off the Wall and Adults Only. ■

POW Contacts

Tim Nott is at timn@cix.co.uk

CreaCard Gold from Micrografx
01483 747526 www.creatacard.com

Formula solutions 0181 252 4444
www.formula.co.uk

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Last month *PCW* ran the first undercover PC group test ever done in a computer magazine. The reader feedback has been very positive and for that we are grateful. We are also grateful to the participants who were the targets of our operation. As in any critical review, there are some winners and some losers, and we feel that it is only fair to let the companies involved comment on our approach. Here's what they have to say.

■ **From: Evesham Micros**

Thank you for giving Evesham Micros the opportunity to comment on the UK's first undercover PC group test.

Reading the review of your purchaser's experiences, as a reader I would be very surprised that my company is still in business after 14 years, let alone that it is still shipping out thousands of PCs a month to buyers old and new. But then, I would be equally surprised, as a Managing Director of such a large organisation, if we did not occasionally suffer from the odd glitch. The important thing is that we learn a lesson from our mistakes, and we have shown that we do learn and do get things right most of the time.

Your mystery purchaser had one unfortunate experience with Evesham Micros. But it was one machine out of the thousands that we ship out every month. In a recent survey of over 250 Vale owners (*PC Magazine*, August

97 edition), Evesham Micros came within the top five companies for reliability, likelihood of purchasing from the same vendor, and for service. I think you would agree that the finding of their survey is more representative of our operation than this particularly unfortunate but isolated incident.

Our business has developed by concentrating on quality and after-sales service. I would imagine from your description of the packaging you received that the machine had been damaged in transit, although you omitted to mention it. We have reviewed our courier situation in light of your findings.

Your readers may rest assured that we will continue to build Evesham Vale computers to the highest standards. And we will continue to provide a level of service that is, according in a survey of over 250 Vale owners, second only to one.

Richard Austin
Managing Director
Evesham Micros

■ **From: Golf Computers**

When first approached by *PCW*, we had no hesitation in agreeing to take part in an undercover test. After all, we believed in our claims to provide flexible systems, reliable delivery and superb customer support, so this seemed the only legitimate way to put it all to the test.

When the review was printed last month, we were both surprised and elated. Surprised at the wide array of quality

companies taking part in the survey, and elated to be awarded Editor's Choice.

The detailed description of our Promax products and services confirmed several points we knew already — the excellence of many of our components, including the AWA speakers and Iiyama Vision Master screens, and the friendly and helpful service. It also helped to highlight a number of improvement areas of which we are aware and are working on at present. For example, we are looking at ways of upgrading the presentation of the machines, and we are mounting a recruitment programme to augment our sales team.

We fervently hope that more reviewers adopt this undercover approach of system testing, as it is clearly the only way to obtain the same service and product functionality information as a customer would — and it provides useful feedback for all involved.

Jonathan Senior
Operations Manager
Golf Computers plc

■ **From: Viglen**

We were very pleased to take part in the "undercover labs test" in the December issue of *PCW* and believe that this sort of review is very important. However, we do feel that there are a number of unfair comments in the review and are pleased that we have been given the chance to reply.



Firstly, in "The Buy" section, Viglen was criticised for refusing to deliver the PC to an address because the person who was at the address was not the person who ordered the PC, and he was not the holder of the credit card used for the purchase. Because of the risk of credit card fraud, we have procedures in place to protect our customers, ensuring that people do not purchase PCs using other people's cards and that people do not falsely accept deliveries.

Secondly, we were pleased that our technical support was praised in solving the technical problems, and very surprised and disappointed that the caller seemed to have had to wait a long time to speak to one of our technical support analysts. We keep a very tight call logging system and have looked into the two waiting times mentioned. Our records show that the average call waiting time for the period shown was seven minutes but, as with any support system, we are prone to peaks and troughs for busy periods

and can only assume that this was one of those times.

We have taken all of your comments on board, and would like to assure your readers that we are always looking at ways to improve our support to ensure that our customers receive the best possible service available.

June Stokes
Head of PR
Viglen Ltd

■ **From: Stak Trading**

Thank you for awarding us the Highly Commended award in your undercover review last month. It was great to receive recognition for our efforts.

There were a few ADI monitors that slipped through with an American plug, but we have tightened up our incoming inspections and can assure any future customers that they would not suffer this irritation.

Although the review commented that our payment options are limited, I would like to point out that we do accept Visa, MasterCard, Switch and Delta as well as cash and cheques.

We believe at Stak Trading that to offer a complete service, we must give strong support in both pre- and post- sales. Therefore, we do not employ "order takers" on the Sales Team, but experienced enthusiasts who know what they are talking about, which is why you found us to be "one of the most knowledgeable companies we dealt with".

As you pointed out, we employ more people on Customer Services than sales and that's why you got through on the second ring. Again, these people have done their time in our assembly area and RMA (return material authorisation) departments before interacting with customers.

It was a fantastic idea by PCW to go undercover and discover the real levels of product and service that the customer will receive, and we hope you will do more in the future to keep the industry on its toes!

Graham Woodcock
Sales Manager
Stak Trading

■ **From: Armari**

With reference to the undercover test featured in the December 97 issue of PCW: In the "Did it turn up on time section" you state that the Armari system failed to arrive on time due to the fact it had not finished testing. The system was indeed delayed by a day due to our pre-shipment stability tests being unfinished.

The reason for the system being delayed further was that we became suspicious about the validity of the purchase, which was via credit card. The customer, Mr Evans, was never available on the given contact number; instead we always got an answerphone message giving two other contact names. When it actually came to

process the credit card, the first two cards we were given were declined. At this point, we decided not to ship the system until we could fully verify the card and delivery address through the issuing bank. The system was eventually shipped on the Friday for a Monday a.m. delivery.

In the "Failure Factor" section it was said that we failed to include a mouse. However, when the system was returned to us, a mouse was also returned with a serial number matching the mouse we sent out. As the mouse was returned to us mixed in with the polystyrene loose fill packaging, we can only assume it must have come out of the accessories box during rough transit to PCW, and the reviewer failed to search the packaging or contact us regarding its absence. We have since been cross-taping the accessories box to prevent it popping open in transit. As we supply build-to-order systems, great care is taken to prevent parts, documentation etc. being omitted. Parts lists are checked and signed off by two members of staff during the final pre-ship stability testing phase, and again during final packaging.

In the "Customer Support" section it was said that there was some confusion over the monitor picture shimmering (the answer PCW was looking for was a low refresh rate setting). New Armari systems which have been pre-installed with an operating system have all the monitor modes and optimal refresh rates set prior to shipping. We also install a system configuration manager which takes a snapshot of our shipping configuration and can inform the user of configuration changes such as refresh rates. If PCW had re-installed the system or purchased the system without software, we

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would have offered this as an explanation.

All in all, we feel that the undercover tests were a great way of showing where a company's strengths and weaknesses lie. We are in favour of these tests continuing, as we believe it will greatly aid the consumer in making the right decision when confronted with the endless array of manufacturers in the PC market. We believe that these tests will show consumers that when they buy a PC from Armari, they can expect the best and the most reliable the industry has to offer. This is our policy that has not, and will not, change.

Jon Fisher
Marketing Manager
Armari Ltd

■ **From: Carrera**

I am writing to congratulate your team on the excellent Undercover PC Group Test that appeared in the December 97 issue of PCW. It made a refreshing change to see a magazine take on the role of a buyer and thoroughly investigate every stage of the purchasing process.

Carrera was particularly delighted to have been selected to take part in this test. We had put ourselves forward, but had no idea that one of the Carrera machines was going to be reviewed. Carrera prides itself on excellent customer service and support as well as quality PCs. Our sales and support staff were really motivated by this feature — it was good to see them finally getting some recognition for their work.

PCW did its homework on this article. You even noted small but important details such as the fact that Carrera only levies a one percent credit card surcharge instead of the usual three percent, and the fact that the Carrera technical support team have a customer's full system details in front of them as they work.

There were a couple of points that we would like to be mentioned, however: Carrera's buy-back policy on all systems sold, and the fact that Carrera has a repair and upgrade centre in central London which offers same-day turnaround for most upgrades and repairs.

The PCW undercover test was the first feature that actually showed the whole picture instead of simply concentrating on the PCs themselves. This sort of feature exposes the pitfalls that so many purchasers need to know about. It was a brave piece. Well done.

Neil Simpkin
Marketing Manager
Carrera Technology

■ **From: Dell**

Thank you for including Dell in your recent Undercover Group Test. Customer satisfaction is our top priority so we were interested in your comments, and consider the test extremely valuable feedback.

There is one point I would like to clarify for the benefits of your readers and our customers. In the review, you state that "Dell was one of a few companies to charge our credit card before the machine had been despatched". I have investigated the background to the particular order and that comment is factually incorrect.

According to our records, the order was placed on the 17th September 1997. The order was then shipped on the 23rd September 1997 and invoiced on the 24th September 1997. The credit card was subsequently charged on the 24th of September.

However, as we have to get authorisation at the time of order, the funds would have been reserved but not charged from that time. While it is true that the customer's credit was affected, the customer was not actually charged until 24th September.

For the benefit of your readers, I would like to clarify Dell's corporate policy on credit card orders. Our normal practice is to charge our customer's credit card ONLY when the order ships.

I hope this clarifies matters.

Annette Condon
Public Relations Manager
UK and Ireland
Dell Computers

Matrox madness

I have been buying PCW for years now, and have nearly always agreed with your reviews and reports. But I was furious to read your report on the Matrox m3D in December's issue [3D graphics cards group test]. To me, it was totally wrong.

Firstly, you said that the Diamond Monster 3D using the Voodoo chipset was for people wanting to play games at maximum resolutions. But the 3Dfx add-on cards cannot go above an 800 x 600 resolution, compared to the m3D which goes to 1,024 x 768. On my Intel 233MHz (not Intel Pentium II) I can get 47 frames a

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Admin desk

Dear Panasonic:
Re. Panasonic range of Monitors
Please, please, could you send me more details about your super range of monitors. You seem to have thought of everything and have something for everyone. I look forward to hearing from you soon.
Kind regards,
Sharon Smith, Secretary.

Accounts department

Director's office

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Panasonic Monitors

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second in GL Quake at 1,024 x 768 using the m3D.

Also, you just tested it on a 166MHz machine; but since parts of the m3D run at the clock speed of the machine's CPU, it could mis-inform people who have machines running at 200MHz or above, as at these clock speeds the m3D easily outperforms the 3Dfx cards.

The 3Dfx cards may have more games supporting them, but you will find that patches will be quickly written by Matrox so that the m3D can be used on these games. So far, every other review of the powerVR(2) chip has said that it is technically superior to the 3Dfx chip. And as for the large polygons, I have seen none; however, I have heard numerous reports of the 3Dfx cards giving poor images due to the loop-through cable.

How your report can differ so dramatically from all the other reports. Do you all own 3Dfx cards? All in all, yours was a very anti-Matrox report which doesn't hold up with the rest of the industry.

Will Lean

WJLEAN@HOTMAIL.COM

Dylan Armbrust replies:

While Mr Lean is correct in his assertion that the Power VR PCX2 chipset used in the m3D does scale up in performance when running with a higher-clocked CPU, his 233MHz-based PC isn't reflective of what the majority of people own in their home. In fact, over 35 percent of PCW readers still have 486s on their desktops, while a larger number have Pentiums clocked below 166MHz. The minimum spec for the PCX2 chip is a 166MHz CPU: it's also the entry-level PC today, and that's why we selected it.

Again, Mr Lean is correct in his assertion that the m3D can handle a higher resolution. But again, you need the processor power to make the best use of it. For those who don't have, or can't afford, a powerhouse PC, the Orchid Righteous 3D is an economical alternative. We're also sure that most people in this situation would be content running their game at 800 x 600, especially if they have a 14in or 15in monitor.

As for Final Reality, it is a fully DirectX 5.0 compliant benchmark of which ALL graphics card drivers make use of. Many of the graphics cards handled the benchmark admirably, others didn't and so faired poorly. Regardless of "the industry's" view, we stand behind our results and our review.

CompuServe service suffers

I wonder if the much anticipated buyout of CompuServe by AOL is responsible for the new realism which has afflicted CompuServe. Frequent users of CompuServe will be aware of the lamentable response to the technical support number which generally rings engaged for hours at a time.

Complaints to technical support in the past have been answered with promises that everything is being done to improve the situation, offers of connect-time credit and profuse apologies. My most recent experience is to be told that the technical support is poor and that it will not improve in the foreseeable future. This would be a surprising attitude from any service provider, let alone a long established one like CompuServe.

My company has now cancelled all but one of our CompuServe memberships and uses cheap, off-the-peg ISPs. Their service is not great, but at least we're not paying for added value that we're not getting.

John Stolz

johnstolz@jsi.co.uk

Nick Solomon, Customer Service Manager of CompuServe, replies:

Our technical support is certainly not poor, as Mr Stolz suggests. In fact, I believe it is the best in the industry with expert assistance available online around the clock, and phone lines open 16 hours a day, seven days a week.

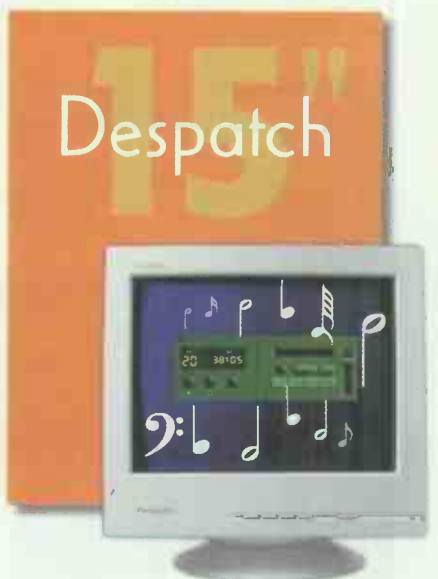
To the best of our knowledge, Mr Stolz himself has never been a CompuServe member, but rings our support line on behalf of a number of individual members. While he may have experienced some difficulty reaching us by phone from time to time, I can confirm he was successful on many occasions. We even advised Mr Stolz that it may be more cost effective for him in the long run to ring his local CompuServe support centre in France.

While it would be great to answer all calls 100 percent of the time and within one ring, this is not a realistic expectation of any support centre — today, or in the foreseeable future. What we do aim to achieve is a potent mix of expertise, efficiency and effectiveness that addresses the real needs of our members. We have also invested considerable effort in self-help tools, so our members can find the help they need at their fingertips, either

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Monitors

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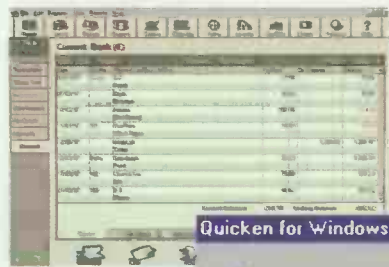
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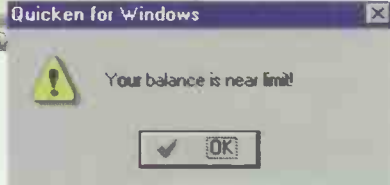
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online through the excellent support areas of *Communities* or through the new help tools featured in our next CD, currently in production.

Customer consideration

I have recently abandoned my Acorn 5000 and started shopping for a Pentium II PC. I found plenty of suppliers, but what made the difference was the after-sales support. I regretfully turned down the otherwise excellent deal offered by Time Computers when I found that telephone queries for customer support for software queries would cost a hefty 50p a minute! Gateway, my eventual choice, has to score highly with Freefone customer support available for as long as you own the machine.

Customer support is a hidden extra not always considered by purchasers who are carried away by what they see demonstrated in-store. I feel it ought to be highlighted in advertisements as a matter of course so that it can be brought to the attention of people who might overlook it as an important consideration.

PMINOLI@aol.com

Customer support is a vital aspect of a PC purchase. It's no good going for the cheapest and best-specced system when no-one answers the phone and the PC turns up late and badly built. In last month's undercover PC group test we put 14 suppliers under the spotlight and found an enormous difference in terms of their customer service.

Gateway, incidentally, took 16 minutes before we spoke to an operator, and a further 30 minutes to solve our relatively simple technical questions. However, as pointed out above, the entire call was free of charge.

The trouble with 2000

Having recently taken out a three-year subscription to *PCW*, it has just occurred to me that this will expire in August 2000. I just hope your subscription software is Year 2000 compliant.

Martin Light

Martin.Light@btinternet.com

*Our subscriptions department has taken measures to handle any Year 2000 problems. In next month's *PCW* we'll be taking an in-depth look at Year 2000 issues and what to do about them.*

Specification: spot the difference

I purchased a PC from a local company, the specification of which included a 200MHz MMX processor. On delivery I found that the indicator on the front of the system unit showed 200; however, on boot-up, the processor was described on the screen as a 6x86 PR166 which, to me, indicated a 166 processor. On speaking to the company I was told that the chip was a Cyrix 166 which had the equivalent speed of an Intel 200. The invoice shows a 200MMX. I was ready to take this further when a colleague who is knowledgeable about computers commented that there may be some justification in the company's assertion. In all other respects the computer appears to meet the specification and work well.

Address withheld

Yes, the Cyrix 6x86MX PR166 is slightly faster than an Intel Pentium 200MMX in performance, according to a few benchmarks out there. However, if you're feeling principled and you did order an Intel Pentium 200MMX, you might want follow it up, especially with regards to price: the Cyrix 6x86 166 is substantially cheaper than the Intel Pentium 200MMX.

Internet Explorer loses its way

The day after IE4 was released, I downloaded it and rushed to install it in on my computer. After rebooting, up popped my groovy new desktop — but when I double-clicked on My Computer, it crashed, and continued to do so every five minutes. After a day of this, I thought I'd uninstall most of it, just leaving the basic browser. Did this help? No. It carried on crashing every five minutes. So I had to re-install Windows 95, again.

Downstairs, my Dad was also installing IE4 and got the same result. He too had to re-install everything. And guess what? We tried to install it on my sister's computer: the install crashed, and to this day we cannot get the Display Properties up. Is this some sort of weird thing restricted to our house, or is this a common story?

Ashley Penney

ashp@meganet.co.uk

*Having experienced a variety of unsatisfactory occurrences with IE4 ourselves, *PCW* wishes Ashley and his well-equipped household the best of luck. ■*



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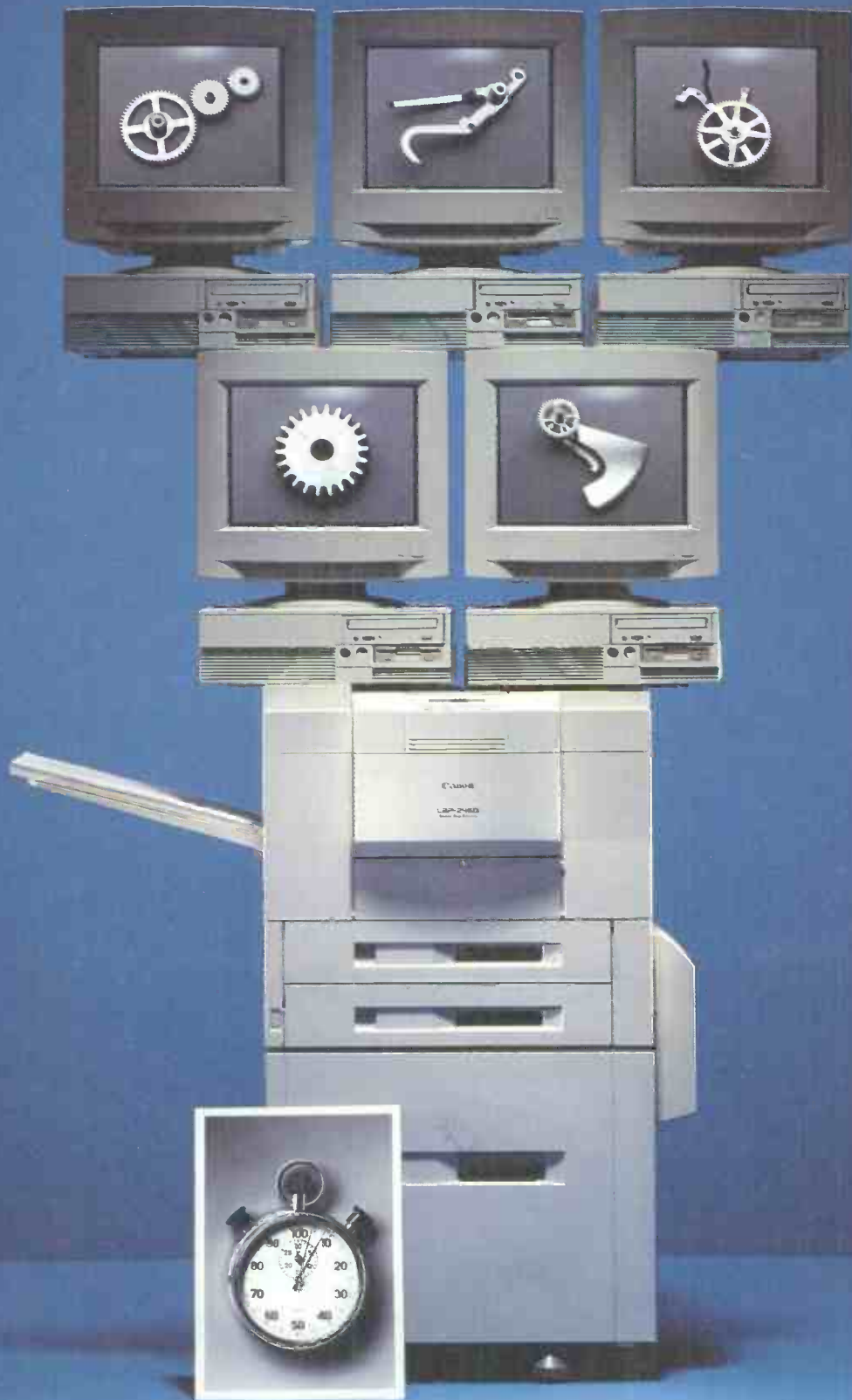
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Gadgets

Compiled by Adam Evans. Photography by David Whyte.

ErgoMouse

Research shows that more than six hours of mouse use per week can cause physical harm, yet almost 15 percent of Europeans still exceed that limit by at least three hours. Similar levels of usage in the US have, to date, cost industry \$7bn. But all this could change with the introduction of the Anir ErgoMouse from Norway. Resembling a joystick but sliding across the desk like a mouse, it promotes a more natural position, reducing stress on hand, arm and back muscles. Distributed throughout the UK by Esselte, the current right-handed version will be joined by a model for lefties in February 1998.

Price £75 (£63.83 ex VAT)

Contact Esselte 01233 624421 www.animax.no



Senso CIC

The world's smallest digital hearing aid has been launched by Widex. The Senso CIC actually fits inside the ear canal to provide almost invisible help for hearing loss. The advanced digital signal processing provides automatic volume correction 32,000 times per second and enhances the clarity of speech over any random background sounds. Senso CIC hearing aids are fitted in both ears, providing a natural sense of sound direction and allowing you to use telephones and headphones normally. Power is supplied by a tiny zinc air battery with an estimated 100 hours of use.

Price £1,895 (no VAT payable)

Contact PC Werth 0800 454338 www.widex.com

Evolution Music Creator Pro 61

Evolution Electronics' latest product is a full-size 61-key MIDI keyboard with a host of funky features. In addition to a full complement of white and black keys, it has pitch-bend and modulation wheels, octave shift, six program memories, sustain pedal socket, a standard MIDI socket and a keyboard-to-sound-card cable. If you want to try before you buy, Evolution says that the keyboard is currently being demonstrated at PC World stores throughout the country. Just follow the sounds of those tinkling ivories...

Price £174.99 (£148.93 ex VAT)

Contact Evolution Electronics 01525 372621
www.evolution.co.uk



CD HydroBath

Worried by dirty, seedy CDs? Losing sleep over fingerprints on your discs? Your problems could be at an end with the advent of the CD HydroBath from Discwasher. Apparently, it uses the scientific principles of hydrodynamic technology along with a specially developed high-speed rotation platform — or to put it another way, it spins the disc around and gives it a good-old wash. The supplied CD6+ cleaning fluid is enough for 100 CDs and the HydroBath can be run off any standard 6V DC power supply or four AA batteries if you're one of those dynamic types who needs to clean CDs on the move.

Price £23.42 (£19.93 ex VAT)

Contact Ross Consumer Products 01204 862026 www.recoton.com



Lap Top Locker

It's a real mixed bag on the Gadgets page this month. JanSport is pepping up those dreary laptop carrying cases with a new range of trendy backpacks specially designed to carry portable computers. The Lap Top Locker (pictured here) has a 21-litre capacity, a rubber base for protection and a CD organiser pocket. Its big brother, the Lap Top Transit, has a 37-litre capacity and extra padding throughout. Both packs are the same price and are made from 1,000-denier Cordura. At last, a bag for your laptop that you can carry without shame.

Price £60 (£51.06 ex VAT)

Contact Global Accessories 0181 877 9907 www.jansport.com

Logitech MouseMan+

Let's face it: mice are generally very dull items. But Logitech is one company that just keeps on surprising us with interesting new products. The MouseMan+ is a gloriously sculpted creation that fits the contours of your hand, perfectly. There are three buttons; two in the usual place and one under your thumb. It takes a bit of getting used to but can be less of a strain than using your index finger.

The wheel is a standard fitting on many mice these days and Logitech supplies its own MouseWare software to make the most of it.

Price £39.99 (£34.03 ex VAT)

Contact Logitech 01306 734300 www.logitech.com



First Impressions

A **Samsung** monitor shows off (p75) and Intel has the ultimate in video-conferencing, **Create and Share** (p83). **CorelDraw 8** (p88) stretches its legs and **MS Financial Suite 98** is where money talks (p91). **Norton Antivirus 4.0** (p92) cleans up your act.

■ Hardware

Gateway G5-166M

Christmas is coming and this PC is bundled with an Epson printer. Could make a nice present.

Hoping to capture the Christmas market, Gateway has come up with the bright idea of bundling a Pentium PC with an Epson Stylus Color 300 printer in what may be the ideal package for the first-time computer buyer.

You get a Pentium MMX 166 processor and 430TX chipset, 32Mb RAM (expandable to 256Mb), 512Kb pipeline burst cache and ATI 3D Rage II+ graphics with 2Mb of onboard RAM — everything you need to get straight on with business (or games, for that matter).

Setup was a breeze. All ports and plugs are colour-coded so it was merely a matter of matching like with like to ensure no immediate disasters. At 2Gb the hard drive may be adequate for most home users at the moment, but with the coming years destined to see the release of a host of increasingly resource-hungry applications, it was rather on the tight side. The internal US Robotics 33.6Kbps modem included a microphone and a copy of Phone Tools to offer data, fax and voicemail facilities. Using the pre-

loaded online trial software, we connected to AOL at full speed on the first attempt.

The monitor, a 15in Gateway Vivitron model with a viewable area of 13.9in and a host of easy-to-use controls, had a maximum resolution of 1,280 x 1,024 but shimmered when run at anything above 1,024 x 768. Its flat screen reflected the minimum of light and was comfortable to look at throughout the duration of our tests. The Windows 95 keyboard felt loose, comfortable and light to the touch but was nonetheless fairly unresponsive. The Microsoft Intellipoint mouse, as ever, lived up to its usual high standard.

Gateway should be commended for looking to the future with the inclusion of two USB ports, when many manufacturers are still producing machines without them. The Mitsumi IDE CD-ROM drive runs at 24-speed and the included Altec Lansing speakers are driven by an Ensoniq Wavetable PCI 32-bit sound chip to offer 16 MIDI channels and produce highly satisfactory output. Both the sound and graphics chips are built onto

the motherboard to save filling valuable expansion slots. The bundled software consisted of an impressive choice of packages, including Microsoft Office 97 Small Business Edition, Money 97 and Encarta 97.

Access to the interior of the machine was easy and required no tools. Inside we found a spacious and well-organised layout with three PCI (all free) and three ISA (two free, none shared) slots. But placement of the PCI slots meant two of them would not be capable of taking anything larger than half-sized cards.

The 32Mb memory is in the form of a single 168-pin SDRAM with access to the remaining slot being free and unobstructed. Two free bays (3.5in and 5.25in) offer opportunities for more storage capacity, although using the 3.5in bay would be a major operation requiring the removal of the existing hard drive and framework for the 5.25in bay. The unused serial and USB ports (two of each) should give plenty of scope for peripheral connection.

The bundled Epson Stylus Color 300 printer

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VNU European Labs

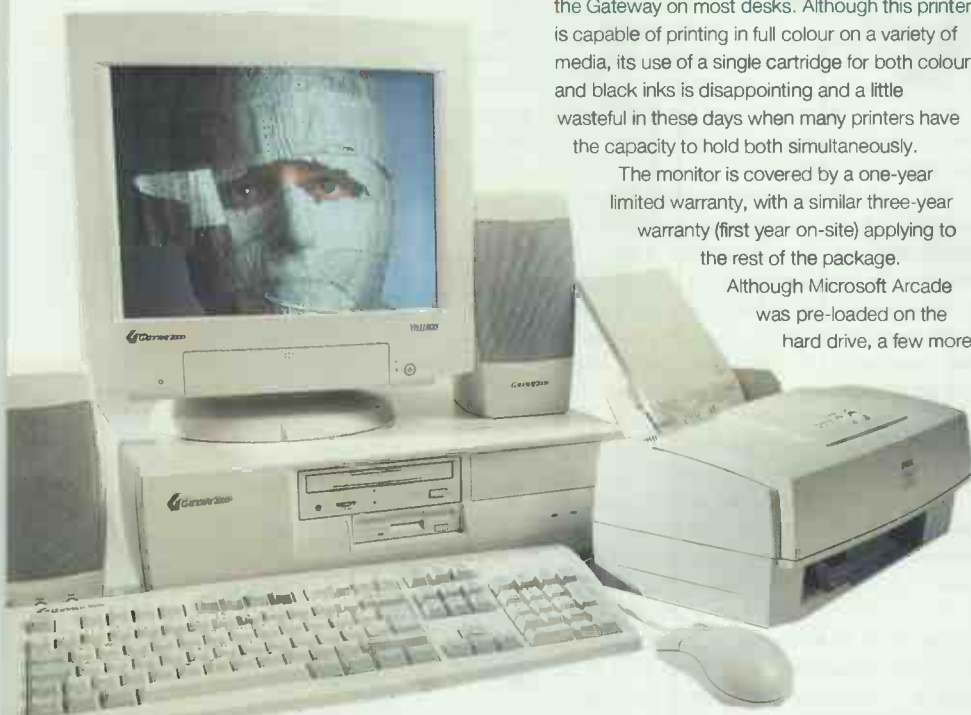


VNU Labs tests all kinds of hardware and software, from PCs to modems to databases. All our tests simulate real-world use and

for the most part are based around industry-standard applications such as Word, Excel, PageMaker and Paradox. Our current PC tests for both Windows 95 and NT are the Sysmark tests from BAPCo. In all our performance graphs, larger bars mean better scores.

Ratings

- ★★★★★ Buy while stocks last
- ★★★★ Great buy
- ★★★ Good buy
- ★★ Shop around
- ★ Not recommended



the Gateway on most desks. Although this printer is capable of printing in full colour on a variety of media, its use of a single cartridge for both colour and black inks is disappointing and a little wasteful in these days when many printers have the capacity to hold both simultaneously.

The monitor is covered by a one-year limited warranty, with a similar three-year warranty (first year on-site) applying to the rest of the package.

Although Microsoft Arcade was pre-loaded on the hard drive, a few more

and ATX full-size tower are available at £15 and £35 respectively. Other upgrade options could involve increasing the memory to 256Mb, the monitor to 21in, and a variety of multimedia and warranty packages.

Nik Rawlinson

(see our colour inkjet roundup, p146) produced mediocre results at very slow speed and so was possibly not the best choice for bundling with what is a fairly fast PC. It is a small unit that should, with the minimum of fuss, easily fit beside

impressive bundled games and perhaps a joystick would have been welcome additions to this package for the Christmas season.

Although the system comes with a desktop case as standard, upgrade options for tower

PCW Details

Price £1,173.83 (£999 ex VAT)
 Contact Gateway 2000 0800 172000
www.gw2k.co.uk

System Reviewed Pentium 166 MMX, 32Mb SDRAM, 2Gb HD, 24 speed CD ROM, 15in monitor.

Good Points A practical bundle for first-timers.

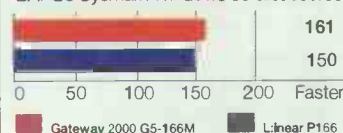
Bad Points Could have bundled a better printer.

Conclusion It's nice to see an all-in-one package for the first-time user.

★★★★

Performance results

BAPCo Sysmark Windows 95 test scores



■ Hardware

Tiny Home Cinema System

PC, projector, TV, home cinema and games arcade. Home entertainment on a grand scale.



bays, one occupied by the floppy drive. The build quality is good, Tiny having taken a lot of care with the structure and the tying of cables inside the machine.

To merit its Home Cinema System badge Tiny has fitted a primetime Goldfinger MPEG II PCI card to decode the DVD movies, and has installed software from Zoran to play and skip through the tracks. Zoran is currently in the news for having produced an MPEG II decoder

through software alone. It's a tough job though, which requires the processing muscle of a Pentium II to match the quality of a dedicated hardware card. Tiny's 233MHz PII is probably up to the job, but until software decoding is a proven solution, Tiny is sticking with a hardware card. The

Goldfinger has no external plugs, instead passing its information directly to the graphics card's internal feature connector.

Tiny has thrown in a copy of the recent Bond movie, Goldeneye, on a Region 1 coded DVD. Despite MPEG-II being a global digital video standard, there are people who would prefer you not to buy DVD movies in foreign lands for playing here at home. Consequently, most DVD movies carry a regional flag for identification: Region 1 is USA and Region 2 is Europe. Domestic DVD players will only play movies from their home region, effectively preventing Europeans from playing DVD films imported from the US.

Computer DVD-ROM drives, however, may have their regional coding specified through software drivers. Tiny has installed drivers for Region 1 since no Region 2 drivers, nor indeed any Region 2 movies, are yet available. This begs the question of future compatibility. As it stands, Tiny's PC will be unable to play Region 2 European movies when they come out. Tiny will supply Region 2 drivers when available, but then, you won't be able to play back any Region 1 titles (including the supplied Goldeneye movie) since you can only have one Region installed at a time.

One possible but untested solution is to set up two identical hardware profiles through

Windows 95. Install Region 1 drivers on one and Region 2 on the other, start up your machine on the desired profile and keep your fingers crossed!

Audio-wise, the Tiny features Dolby Pro Logic decoding although, despite having an output for a centre speaker, there wasn't one supplied. Consequently, the Tiny operates in Phantom mode, effectively driving its four speakers in plain Dolby Surround. Sadly, there was no output for the high-quality Dolby Digital AC-3 soundtracks, optionally available on most DVD movies.

Tiny supplied a remote-controlled VGA converter with composite and S-Video outputs to drive the projector. But, in order for the remote to switch outputs, the monitor signal is passed through the converter. In this process, the monitor's image quality is severely reduced, rendering it useless at anything above 640 x 480 pixels: we recommend you connect the monitor direct to the graphics card for normal use and manually switch cables for the projector.

This Tiny system is much like the £1,996 Tiny Sound and Vision system featured in our Home PCs group test this month (p128). For an extra £940 you get the Philips projector and screen, DVD drive, 32Mb RAM and software including Microsoft Football, Encarta 97 encyclopedia, Money 97, Works, a Formula 1 game and Goldeneye on DVD. It's an impressive overall bundle, but let down by the video switching and audio side of things. The PC configuration is good, but we would transform it into a home cinema using better components of our own choice.

Etelka Clark

The Tiny Movie Centre is an all-in-one entertainment system which can be used as a television, a movie player, a games arcade... oh, and a computer too. The 17in Samsung monitor is good enough for general use but if you're having friends around or doing a presentation, set up the 4ft square projection screen and flick on the Philips LCD projector (both supplied as part of the bundle).

The ATX-style motherboard is home to a 233MHz Intel Pentium II processor, LX chipset, and 64Mb of SDRAM which occupies two of the three DIMM slots. Fitted in a fast AGP slot is an excellent ATI Xpert@Work 3D graphics card (the almost identical Xpert@Play PCI card won our Editor's Choice in last month's group test). The motherboard features Yamaha General MIDI audio and a PCI TV tuner card had also been fitted.

Two of the four PCI slots were vacant, while both of the ISA slots were occupied by the 33.6Kbps modem and a card supplying the speaker outputs. There are three 5.25in bays with one taken up by a Toshiba DVD-ROM drive (sadly unable to play CD-R discs) and two 3.5in drive

PCW Details

Price £2,936.33 (£2,499 ex VAT)

Contact Tiny Computers 0800 821 333
www.tinycomp.co.uk

System Reviewed PII 266, 3.2Gb hard disk, 64Mb SDRAM, 17in monitor.

Good Points DVD drive. Fast chip. Good graphics.

Bad Points Terrible video switcher. Poorly thought-out audio.

Conclusion A good basic machine, but better to add home cinema options of your own choice.

★★★

Performance results

BAPCo Sysmark Windows 95 test scores



0 50 100 150 200 Faster

■ Tiny Home Cinema ■ Gateway PII 233

Hardware

Samsung SyncMaster 400TFT

Slim and gorgeous. Not how you would usually describe a monitor, but this Samsung's a cut above.

There is some computer equipment that always seems to attract a gaggle of admirers. While my 15in bog-standard monitor enjoys Ford Escort-like anonymity, this new flat-screen display from Samsung got attention befitting a turbo-charged Ferrari with every extra in the book. The basic reason for this is a good-looking profile: the SyncMaster is under five centimetres thick with a small but stable circular base (22cm diameter). The entire unit weighs 3.7kg.

The base holds some pleasant surprises, starting with a pair of integrated speakers and a built-in microphone. The speakers are rated to a maximum of 3W and produce only average sound. Sound quality has taken second place (perhaps rightly for this type of product) to the need to squeeze stereo speakers into the case.

The second surprise is the USB socket hidden at the back of the base. This makes it easier to connect and disconnect USB peripherals but I am a little disappointed that there is only one socket (so only one USB peripheral at a time). Conversely, the headphone and microphone sockets are thoughtfully situated



at the side for easier access.

The display is bright, sharp and vibrant. The maximum resolution is 1,024 x 768 at 60Hz (flicker-free on a TFT panel) and it can also display 640 x 480 and 800 x 600 (although not full-screen). The viewing angle is impressive, with an 80-degree vertical and a 120-degree horizontal range. On-screen controls are

comprehensive, covering colour temperature, picture geometry, brightness, contrast, microphone on/off and speaker volume.

The SyncMaster 400TFT comes with a separate AC/DC power adapter and a converter for use with Macs.

This 14in display is the first of a range of TFT panels which Samsung is developing. A 15in panel will be out before Christmas and we'll see 17in and 21.3in (...oooh, nice!) versions in the second half of 1998.

Adam Evans

PCW Details

Price £2,583.83 (£2,199 ex VAT)

Contact Samsung 0800 521652

www.samsung.com

Good Points Sharp, bright picture. USB.

Bad Points The usual TFT big price hit. Non-removable base.

Conclusion Highly desirable, but only for those with very deep pockets.

★★★★

ViewSonic Graphic Series G773

Not a looker from the outside, but inside it's vibrant, sharp and ideal for colour-intensive apps.

For some reason, perhaps known only to ViewSonic founder, James Chu, the company's logo is three Australian finches: maybe it was to add a little colour and style to the front of its monitors. The Graphics Series G773, the company's latest 17in, sorely needs something to dress up its bland exterior.

Designed for colour-intensive apps like small-business DTP work, presentation design and web development, the G773 promises sharp images and vivid colours comparable to aperture-grille CRT monitors. These are bold claims indeed, that no monitor manufacturer should make lightly.

So, should the makers of aperture-grille tubes such as Sony and Mitsubishi be quaking in their boots? Not quite, as we'd still recommend those types of monitor for professional users performing graphics-intensive work. However, the G773 does make the most out of its dot-trio shadow mask. For designing a company booklet, sales promo, presentation, or web page production, this monitor is suited to the job. Focus is sharp, helped somewhat by a fine dot pitch of 0.26mm,



and while there's usually a little degradation in focus from the middle to the corners of the screen, none was apparent here.

What most impressed us in terms of picture quality was the vibrancy of the colours produced. Controls are on-screen and include all the usual size and positioning adjustments as well as manual degauss and ViewMatch colour temperature modes. This last feature is important

as it allows the user to change the colour temperature on the monitor; something that needs to be done throughout the day if your work requires a high degree of colour matching.

The G773 is capable of running a non-interlaced resolution of 1,024 x 768 at a flicker-free refresh rate of 87Hz and has a viewable area of 15.8in. This is a highly ergonomic monitor which is both PC and Mac compatible. The screen is anti-glare coated, carries an EPA Energy Star rating and complies to that most stringent of standards, the Swedish TCO 95.

Lynley Oram

PCW Details

Price £499.38 (£425 ex VAT)

Contact ViewSonic 0800833 648

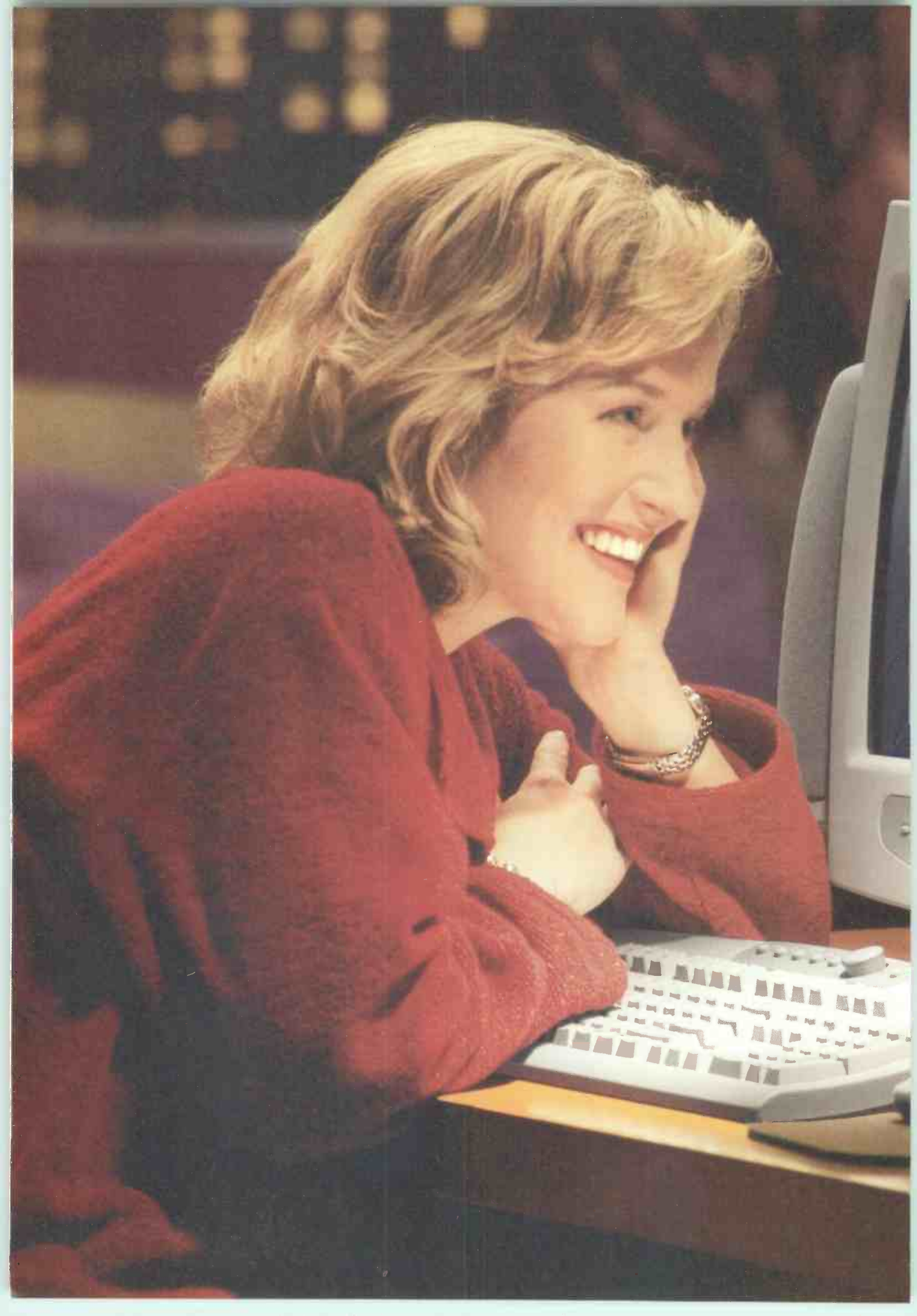
www.viewsonic.com

Good Points Vibrant. Sharp focus. Ergonomic.

Bad Points Not the cheapest 17in monitor around.

Conclusion Suited to the needs of the average small-business user.

★★★★



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Hardware

Canon MultiPASS C20 and MultiPASS L90

Two multi-function devices. Choose your weapon: do you want big or small? Inkjet or laser?

For many people, multi-function devices represent the ideal solution for all their office equipment needs. A single unit can be used as a fax machine, a printer, a scanner and a copier. Recognising the versatility of such machines, Canon has released not one but two new models: the inkjet-based MultiPASS C20 (MPC20) and the MultiPASS L90 (MPL90) which is built around a laser-based print engine.

Of the two, the MPC20 is undoubtedly the more attractive. It is compact and stylishly designed but its flimsy plastic design gives the machine a rather cheap look and feel. On the other hand, the MPL90 is more of a well-built uncle than a big brother. It towers several inches above its sibling and has a considerable footprint.

In both cases, installation was straightforward, although I was a bit miffed by the six floppy disks I had to wade through (are CD-ROMs really that difficult to prepare?). The MPC20 uses a twin ink cartridge system, meaning there is a three-colour cartridge (containing cyan, magenta and yellow inks) and a separate reservoir for black. A simple slide-in toner cartridge sates the MPL90's consumptive desires.

Both machines use Canon's MultiPASS Desktop Manager software as a front end. The earlier version was cumbersome but this new edition rectifies many of the earlier problems. From the one simple interface you can perform scans, send and receive faxes and print documents so long as you've hooked up using a bi-directional parallel cable. Usefully, the program can also run in the background, popping up whenever one of its services is required.

To be honest, in general operation, the two units are really indistinguishable. Sending and receiving faxes is the same under software control and only different key locations separate manual operations. The most obvious differences show themselves when you start printing or copying. For text printing, the MPL90 cannot be criticised. Even at the smallest point sizes, characters were clean, crisp and eminently readable; hardly surprising for a 600dpi laser printer. Not only that but it's reasonably fast, managing around three-and-a-half pages per minute during tests.

Naturally, the Inkjet MPC20 cannot hope to compete in terms of throughput but it puts up a good fight in the text quality stakes. I was amazed to find that I could read mono text right down to 3pt size, which is several points lower than you would usually need.

The MPC20's other big plus point is that it can print in colour. The machine is based on the print engine of Canon's popular BJC4200 printer, which boasts a top print resolution of 720 x 360dpi. On paper this sounds impressive and for splashes of colour it does work perfectly. But problems arise when trying to print large areas of dark colours. Even after tweaking the settings, the MPC20 seemed to be ink-thirsty which resulted in sodden and corrugated pages. Less acceptable is the obvious banding that appeared on almost every black or dark area, regardless of coverage or resolution.

Specification-wise the two devices share several features. Both use a 14.4Kbits/sec modem for fax operations, which means a potential send/receive time of six seconds, depending on the machine at the other end of the line. The scanning resolution is 400dpi in 256 greyscales, which is poor compared to modem colour flatbed scanners yet



Left Canon MultiPASS L90

Below Canon MultiPASS C20



better than competing multi-function devices. Pitched as the heavy-duty solution, the MPL90 has a greater paper-feeder capacity of 250 A4 sheets (compared with 20 sheets

accommodated by the MPC20). It

can also store around 138

received faxes in memory, while the MPC20 can cope with a maximum of only 42. Speed dials have not been forgotten, with up to 120 finger-preserving shortcuts on the MPL90 and 50 on the cheaper inkjet model.

Canon has also seen fit to bundle a number of software titles with the MPs. Both come with Xerox's Textbridge OCR (optical character recognition) package and MPC20 buyers will also find CoreIDRAW! 4 and ANDRoute 97 (route planner) in the box. A particularly dreadful Canon screensaver is also thrown in, so I repaid the gesture by throwing it out.

Scott Colvey

PCW Details

Price MPC20 £449 (£382.13 ex VAT); MPL90 £1,300 (£1,106.38 ex VAT) both are street prices

Contact Canon 0181 773 3173
www.canon.co.uk

Good Points MultiPASS Desktop Manager software is easy to use. Installation is a breeze.

Bad Points Noticeable banding on MPC20 graphic printouts. The sheer size of the MPL90.

Conclusion The MPC20 is an absolute bargain but the heavy-duty MPL90 is overpriced.

MPC20 ★★★★★

MPL90 ★★★★

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Hardware

VideoLogic Sonic Storm & Apocalypse 5D Sonic

Play your cards right. Choose a PCI sound card or a 2-in-1 card for graphics and sound.

More PCs are arriving with fewer ISA slots. More often than not, there are only two ISA slots available in the higher-end Pentium II machines and both are usually occupied by the only two add-in cards which seem to be using that particular bus nowadays — modems and sound cards.

As graphics cards move over to the AGP bus, it would seem to make sense for sound cards to finally start shifting over to the PCI bus, which is faster than the older ISA bus. It has a far larger bandwidth of 133Mb/sec, compared to the 7Mb/sec offered on the ISA side of the tracks. Indeed, more sound-card manufacturers are making the move, as are PC companies (Gateway has started installing PCI sound cards, in machines like the Ensoniq ES1370, as standard).

VideoLogic has taken all this one step further. The company has launched two new products: a PCI sound card and a 3D graphics card with incorporated sound. But regarding the latter product, we had to ask ourselves, is this necessarily a good thing?

Apocalypse 5D Sonic

The Apocalypse 5D Sonic combines 2D/3D graphics acceleration and PCI-based audio acceleration in one card. There's just not enough room on the blanking plate for all the audio and graphics connectors PCs currently use, so the gameport comes on a separate blanking plate. Installation is relatively easy. We installed the card in a brand new PC from Mesh, which used a Cyrix PR166MHz processor.

Bearing in mind that the card was tested on its base requirement of 166, and its performance may well improve with a faster CPU, the results were nevertheless poor. Before testing the card we had expected the scores to be different from those recorded by the Apocalypse 5D in our recent graphics card group test, as it was benchmarked on an Intel 166MMX which has a very different architecture from the Cyrix. However, given that the Cyrix has a higher clock speed (200MHz) the Apocalypse 5D performed less well than we had expected. Speed issues aside, it fell down on some of the tests, failed to reproduce any of the transparency effects in our benchmark test, and managed to support just seven out of the eleven 3D graphics features tested.

On the graphics side, it shares a similar spec with its soundless stablemate: a PowerVR-based NEC PCX2 processor for the 3D side of things,



while 2D graphics are looked after by Tseng Labs' ET6100 graphics controller. Essentially, this card is the fusing of the Apocalypse 5D and SonicStorm cards. It comes bundled with five games, ported to the PowerVR: TombRaider, WipeOut 2097, Ultimate Race, Terracide and MechWarrior II.

Sonic Storm

VideoLogic gets it right with this product. Anyone who has ever had to battle with a sound card to get it and its software installed will know what a frustrating and soul-destroying experience that can be. Not only did this sound card slip into its PCI slot with ease, but Windows 95 actually detected the new hardware and found all its software first time, without my making a single keystroke — and they say miracles don't happen!

The half-sized card claims to be SoundBlaster compatible. This was tested by playing Quake in DOS mode and the card did sound impressive. We also put it through the same tests as we used in a past group test (PCW June 1997). Our PCW MIDI file sounded brilliant on this, in comparison to other cards in a similar price range. Aurally, there was little to fault this card.

The Sonic Storm uses the Maestro-1 audio signal processor, manufactured by ESS Technology. It has a 64-channel audio stream processor and a 64-voice General MIDI wavetable synthesiser. A 2Mb wavetable sample file is stored in system memory and samples are transferred over the PCI bus. According to VideoLogic, this is a good thing as it removes both complexity and cost from the card itself. The

company is aiming this card at the gaming market, hoping to attract gamers with promises of faster frame rates, made possible because the hit made on the CPU using a PCI card is significantly lower compared to an ISA-based card.

Midosoft Studio 4 Lite, AudioRack and MixMan's 3-Mix are all included in the software bundle that accompanies this card, as well as a selection of trial versions of internet phone software. SonicStorm has driver support for Windows 95, DirectX and Windows NT.

Lynley Oram

PCW Details

Apocalypse 5D Sonic

Price £222.08 (£189 ex VAT) 6Mb version (4Mb SDRAM/2Mb MDRAM); £245.58 (£209 ex VAT) 8Mb version

Contact VideoLogic 01923 260511
www.videoLogic.com

Good Points Saves on PCI slot space. Great sound.

Bad Points Poor performance in our benchtest. Needs two blanking plates.

Conclusion A bizarre combination, but may have a home with manufacturers making compact PCs.

★★

SonicStorm

Price £69.33 (£59 ex VAT)

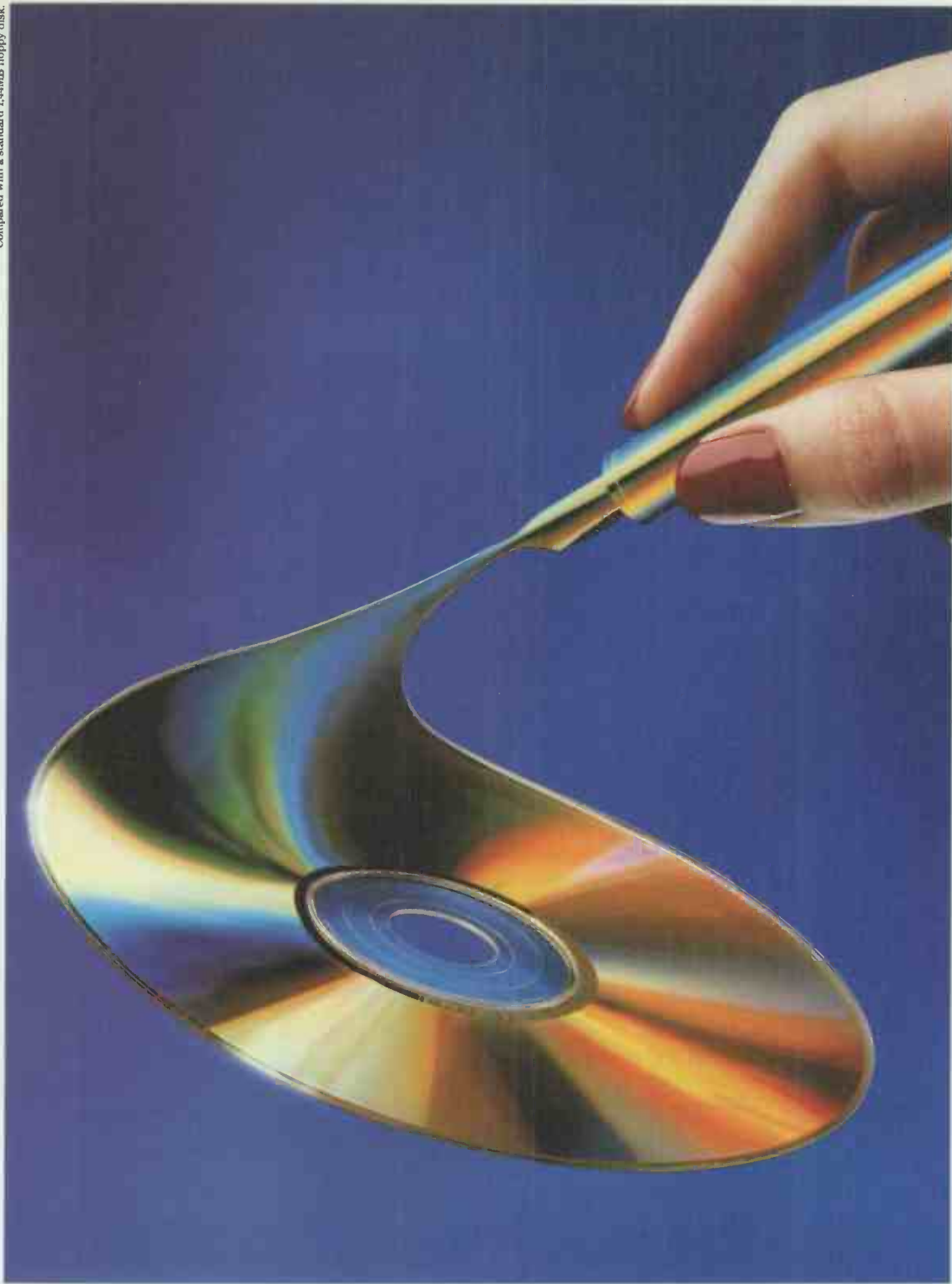
Contact VideoLogic 01923 260511
www.videoLogic.com

Good Points Ease of installation. Price.

Bad Points Software wavetable.

Conclusion Great value for money.

★★★★



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Ultra2 SCSI not only will allow your I/O design to go twice as fast as before, but achieve this performance breakthrough without compromising cable lengths or device capability. On the contrary, Ultra2 SCSI will extend these capabilities.

With our LDVLink low voltage differential technology, Ultra2 SCSI actually extends cable length to 12 meters and provides connectivity for up to 15 devices. In addition, increased signal integrity enhances overall system reliability.

What's more, our Universal Ultra2 SCSI solutions with LVDlink

technology are backward-compatible with your single-ended Fast and Ultra SCSI designs. And, with both host and target devices available, and support for all major platforms, upgrading to full Ultra2 SCSI systems is even faster.

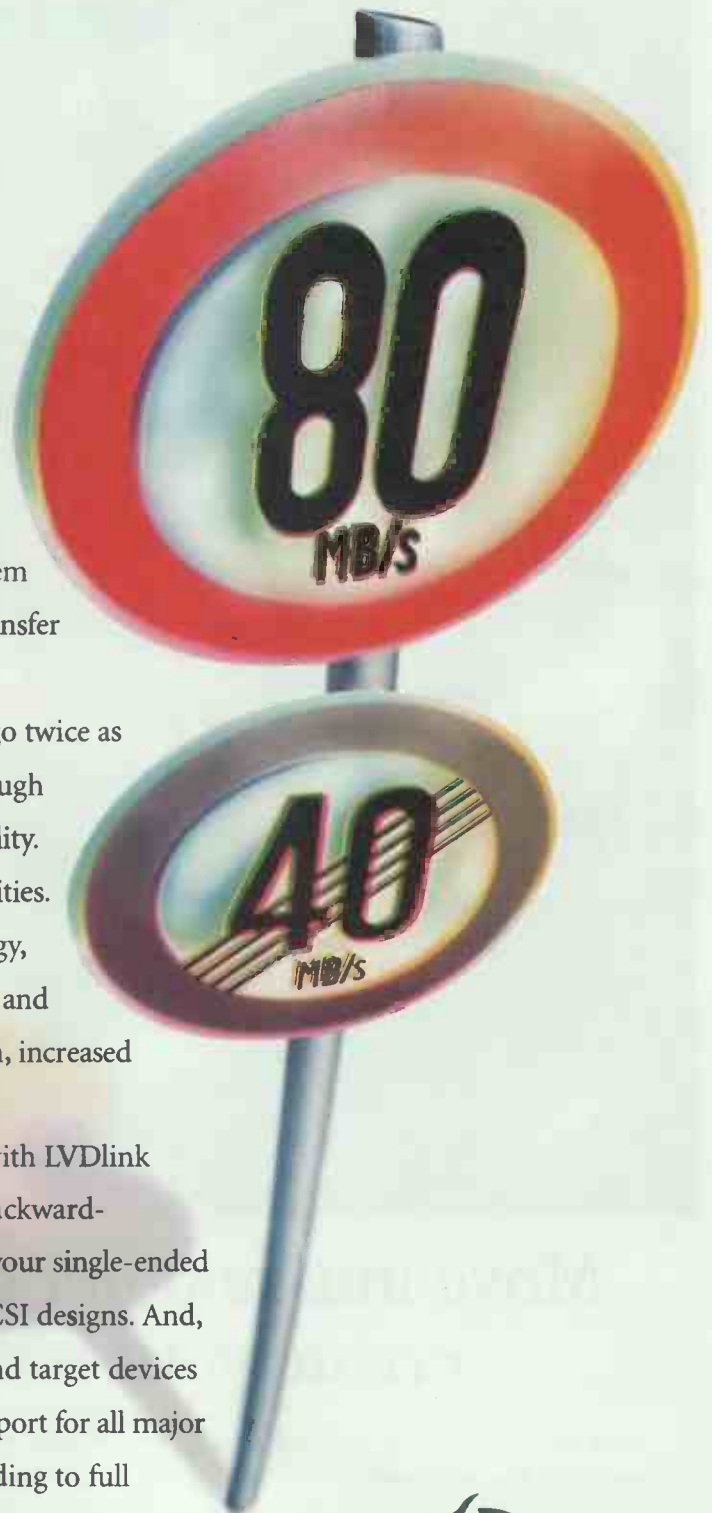
To find out more, call our distributor, or visit our web site at <http://www.symbios.com>.

PCI-SCSI Host Adapter Products



SYM8150F	PCI - Fast SCSI	10MB/s
SYM8600SP	PCI - ULTRA SCSI, (ohno BIOS)	20MB/s
SYM8750SP	PCI - ULTRA SCSI	20MB/s
SYM8751SP	PCI - ULTRA Wide SCSI HAB	40MB/s
SYM8951U	PCI - ULTRA 2 SCSI	80MB/s
SYM22801	PCI - Dual Ultra Wide SCSI	2 x 40MB/s
SYM20810	PCI - Fast SCSI (no fios)	10MB/s
SYM20101	SE/SE SCSI Bus Repeater	40MB/s
SYM20102	SE/Diff SCSI Bus Converter	40MB/s

Distributor: Manhattan Skyline Ltd.
01 628 778 686



Hardware

Intel Create and Share Camera Pack

Ride the new video-conferencing wave with this easy-to-install package of goodies.

Here's a new type of product you're likely to see more of. It's an all-in-one video-conferencing package aimed at the home user. In last October's PCW we focused on video-conferencing, the newest wave of the near future. Certain products, like the VideoLogic Captivator PCI, had just been released onto the market and we mentioned that it would only be a matter of time before there were more products in the same vein.

Enter Intel and its Create and Share Camera Pack. When a mega-corporation like Intel enters the fray you know it's serious about the technology, so it seems a safe bet to say that PC-based video-conferencing is now no longer just a fad for the early adopters.

Create and Share is a feature-packed product that incorporates a videophone, photo enhancer, image and video organiser, scene recorder, electronic postcard facility, and a fun, special-effects package called Kai's Power Goo.

Intel's Create and Share also comes with the hardware you need to get your system up and running, including a PCI video-capture card and a colour camera. Installing the hardware is easy and as long as you have an available PCI slot and are comfortable inserting the card, you'll have no problems. Once in place, all you have to do is insert the CD-ROM. The setup procedure walks you step-by-step through the setup.

Now I'm not one to willingly praise an installation process, but this one was very easy. It recognised the hardware, installed the software and was ready to go in the space of about ten minutes. It's too bad more products won't install like this. The only drawback with the hardware is the camera. Even though it may be unobtrusively designed, the focus of the images shown was somewhat blurry and disappointing.

The software bundle is a good start for any family that wants to get into video-conferencing and sharing images across the net, via email. Its video-conferencing facility uses Intel's long-established videophone technology. It is H.323 and H.324 compliant, which means it can be used on the internet via your ISP or in a direct-

dialed, point-to-point connection using your modem. The only catch is that you must have a 28.8K modem or better to use it.

The Videophone does actually work but I wouldn't advise trying a random call-up via the Intel conferencing site as it takes ages to find someone who'll answer your "call". The best method is to call a specific IP address or telephone number: that way you won't waste valuable phone time and money connecting to the recipient.

The other features of the package are handy and fun. You can record video clips using the Scene Record functions and transmit them via email. It also lets you take snapshots of whatever is on camera and send them, too, or you can

take these images and manipulate them using Kai's Power Goo.

Goo is great for kids and adults who like to make caricatures of friends and family. If you want to get a bit more sophisticated you can use Photo Enhancer. This is an image-manipulation package that lets you change images, for instance removing objects like clouds in the sky and retouching them to your preference. You can then upload these images to a web site, email them or use them in any other kind of fashion (for greeting cards, say).

Another internet-friendly feature is

NetCard: essentially a quick and easy way to send email with attachments such as send images, video and audio messages. It is similar to using a mail package like IE3, except more user friendly. All you do is drag and drop the image or video you want to send on to the "postcard", perhaps add an audio message, type a message and send it all. It works with any email package so the recipient doesn't need Create and Share to read it. All the images, video files and snapshots can be stored in the Gallery for easy access later. This is a good package with an easy-to-use point-and-click interface that didn't disappoint. If you're into more advanced packages, you may want to wait a while for the USB camera edition or the PCI 56K modem edition.

Dylan Armbrust



PCW Details

Price £176.25 (£150 ex VAT)

Contact Intel 01793 403000 www.intel.com

Good Points Good selection of software. Fun.

Bad Points Fuzzy focus with camera.

Conclusion A good start for the video-conferencing curious.

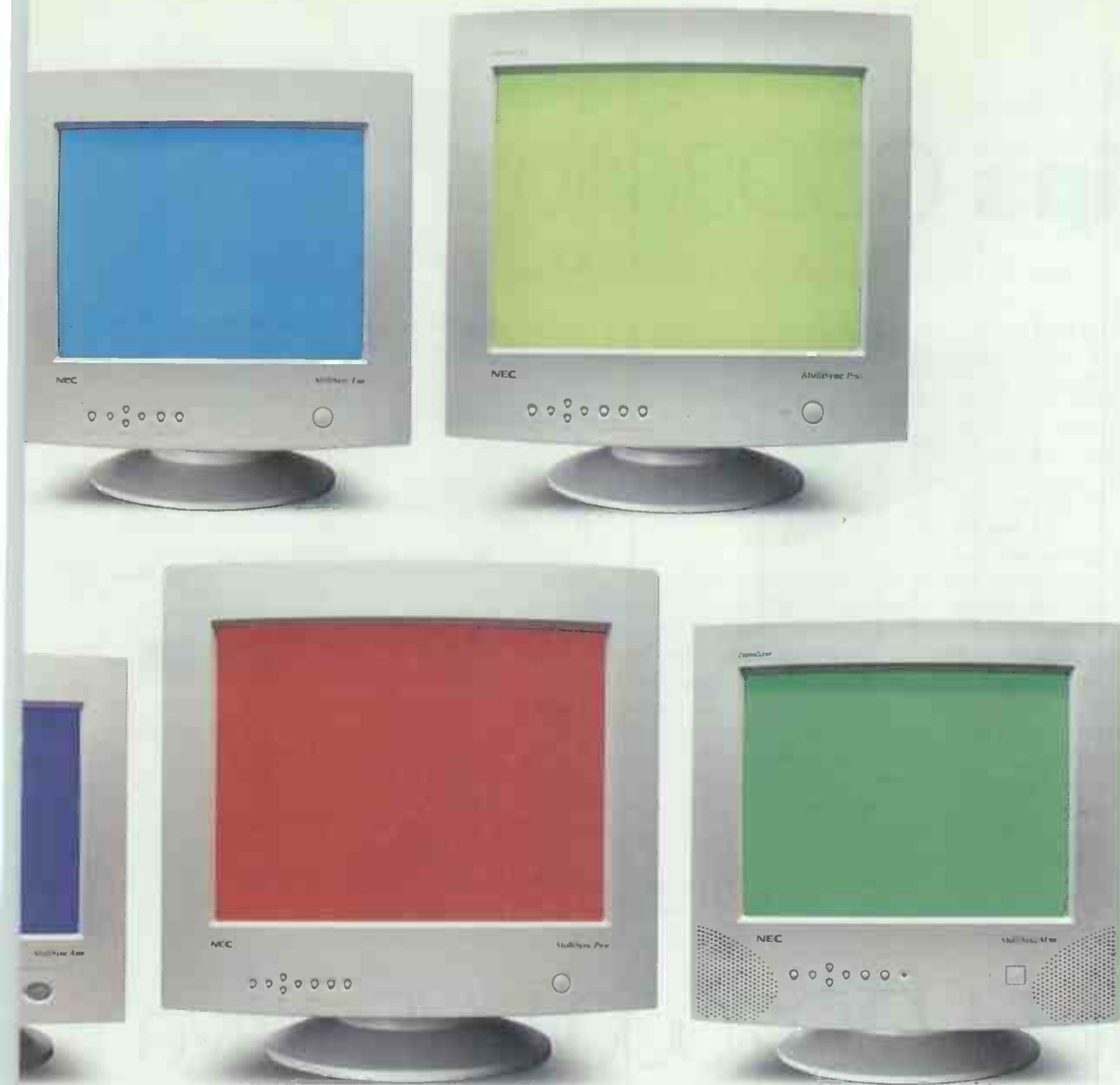
★★★



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Hardware

Philips CDD3610

Desktop data storage par excellence. No oil painting but is this the CD drive of the future?

Philips has seen the future of CD and says it is re-writable. The company is phasing out production of its CD-R drive and replacing it with the new CDD3610, which writes to non-erasable CD-R and re-writable CD-RW discs.

It's not much to look at, the 3610: a standard IDE tray-loading form-factor drive that can slot in place of, or preferably beneath, your existing CD-ROM drive. But what CD-RW offers is a near-total solution to desktop data storage. With a CD-R/RW, the PC has three levels of storage: the hard disk for everyday work, CD-RW for expanding the hard disk capacity on special projects (image, DTP, Internet, audio and video work spring to mind), and CD-R for final archiving or for sending the files off to someone else to use.

The early review sample came with Adaptec's Easy CD Pro/DirectCD and will eventually ship with a version of Easy CD Creator (reviewed in PCW Nov 97 issue) for more flexibility. Windows 95 doesn't properly support re-writable technology so DirectCD loads on startup and overlays Windows with the CD-writable function.



This is an almost transparent activity, creating Explorer windows for the CD writable drive that allows drag, drop and delete in the normal way, so the CD-R/RW disc is treated just like any other hard-disk, albeit with the slower speed of an optical drive. CD-RW discs can be re-written thousands of times without problems and the Philips drive writes incrementally so that regularly updated files are written in fresh areas of the disc. This means that no one area gets heavily over-used simply because it contains a file that is constantly being re-written.

Like CD-R, CD-RW media can be finalised so that they can be used on CD-ROM drives. However, since many CD-ROM drives were

made before CD-RW was developed they will not read the discs. If universal interchange is needed, go directly to CD-R. At around £15 a disc, CD-RW compares well with alternative removable media and is ideal for storing internet data or work-in-progress and then transferring it to outrageously cheap CD-R discs when you want to archive the files or send them out.

Tim Frost

PCW Details

Price Around £350

Contact Philips Business Centre 0181 689 4444
www.philips.com/pkm/laseroptics/cdr

Good Points The future for desktop removable storage.

Bad Points Slow CD-ROM read speed, so you still need a good CD-ROM drive.

Conclusion The combination of CD-R and CD-RW in one drive is simply too useful to ignore.

Hitachi GD2000 DVD drive

Speed is the essence of this new drive. Prepare for DVD-ROM, games, videos coming soon.

A good six months after manufacturers said that DVD-ROM drives were available, they are at last coming into the country in quantities large enough to supply the dealers.

This second-generation drive from Hitachi can now be bought off-the-shelf and its most important feature is its speed. The GD-2000 is a double-speed DVD drive and, since DVD runs eight times faster than CD-ROM, this brings it up to being the equivalent of a 16x CD-ROM drive. This is an important point since, at 16x CD speed, the GD-2000 can be used as a replacement for an existing CD-ROM drive in all but the most speed-hungry CD-ROM apps. (Note though, that many manufacturers hype-up the CD speed by quoting "max" rates of 20x to 24x, while it may essentially be only 16x CD).

An added bonus of the GD2000 is that it is compatible with both CD-R and CD-RW discs, as well as both single and dual-layer DVDs. This makes it more of a universal player than older



CD-ROM drives which won't even recognise CD-RW, let alone DVD discs.

The drive interface is IDE/ATAPI so the GD2000 slots in place of an existing IDE CD-ROM drive. Windows 95/98 recognised the drive and ran it immediately at switch-on.

Unlike the other DVD packages, the GD2000 is available as a bare drive, without a DVD MPEG II Video decoder board. This makes it a strong contender as a "future-proofed" ROM drive suitable for a top-end MMX or Pentium II system. It can be used with any of the new generation of DVD-Video decoder card or software options becoming available and this particular drive is not

area-coded. That doesn't necessarily mean that you can play US DVD-video discs though, since the DVD video board or software will probably have the area code in it instead.

DVD-Video, ROM and games software to use on DVD drives are still in short supply but expect a big push in DVD movies, PC apps and games to start later in the year. If you want to go up in the ROM world now, this is a drive to do it with.

Tim Frost

PCW Details

Price £210 (£178.72 ex VAT)

Contact Hitachi 01628 585000
www.hitachi.com

Good Points Double-speed DVD drive.

Bad Points More than twice the price of a good CD-ROM drive.

Conclusion You need to be DVD-ready and this is a good choice.

★★★★



Screen Savers.

Model	A500	A700
Size	15"	17"
Dot Pitch	0.28mm Dot Trio	0.28mm Dot Trio
Recommended Resolution	1024 x 768 @ 80Hz	1024 x 768 @ 85Hz
Max Resolution	1280 x 1024 @ 60Hz	1280 x 1024 @ 65Hz
OptiClear CRT Coating	✓	✓
Digital Control System & On Screen Display	✓	✓
IBM & Apple Mac Compatible	✓	✓
Typical street prices (ex. VAT)	£199	£349
Typical street prices (inc. VAT)	£233	£410
Warranty	3 years	3 years

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NEC

Personal Computer World • January 1998 • 87

Software

BETA

CorelDraw 8

Draw, Dream and PhotoPaint get top billing, but does this year's supporting cast fit the bill?

Since the first edition of CorelDraw, we've had a new version each year. Corel 3 pioneered the use of CD-ROM to accommodate the huge amount of resources and extras, and it has been growing steadily since.

What's in the box? No surprises here: it's big and the content is much the same as last year's, with the star acts being Draw (vector drawing and page layout), followed by PhotoPaint (image-processing and painting), and Dream 3D (3D modelling and rendering). The supporting cast includes OCR-Trace (bitmap-to-vector conversion and optical character recognition), Texture (layered texturing with lighting effects), Scan (wizard-driven scanning and image enhancement), Capture (screen grabs, including elliptical and freehand areas), Script Editor (macros), and Versions (archive management).

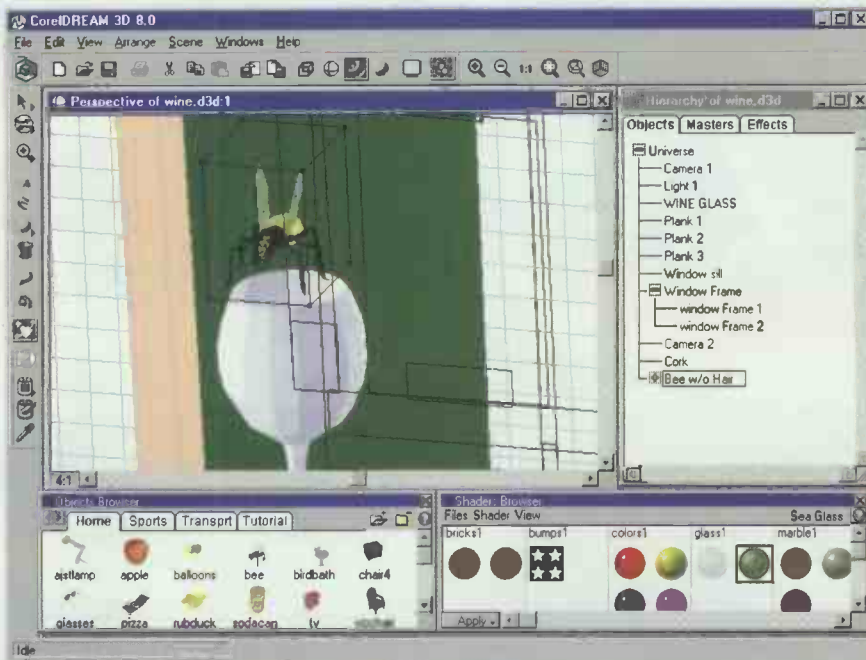
Other utilities include hardware colour management, a duplexing print wizard and a wizard for profiling settings for service bureaux. The 1,000 fonts come with

Bitstream's Font Navigator 2, and there's a profusion of templates, photos and over 40,000 pieces of clipart. A standard install takes 245Mb.

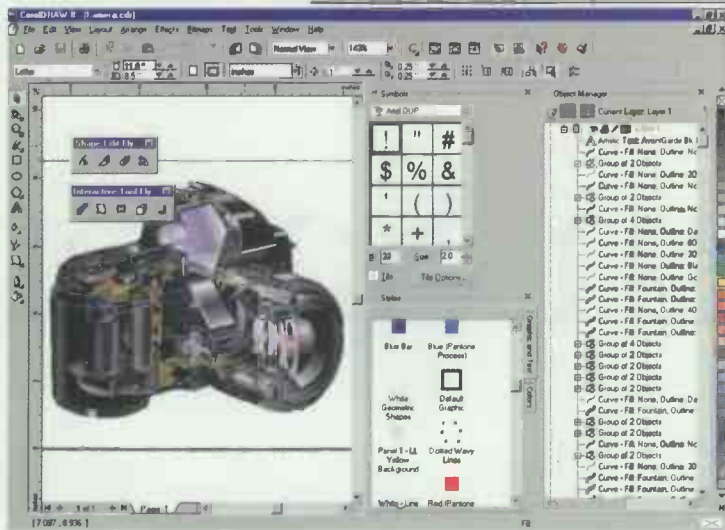
Dream 3-D I'll dispense with the accessories to concentrate on the three main performers. Dream 3-D is based on the well-known Ray Dream Designer.

You have, by default, four windows: at the bottom are the drag-and-drop browsers for the 3D object and shader libraries; on the right is a tree-like hierarchy of objects and effects; and on the left of this is the working window.

Last year's model brought us VRML output for web pages, and this year's adds 3DMF. There's an improved shader mixer, better light control and a new Cloudy Fog atmosphere. You can work in a semi-rendered preview mode but this was Impossibly slow on the beta and, in terms of usability, Dream scores poorly against rival products.



Above Buzzing around in Dream 3D



Left The new-style Dockers can be extravagant with screen space

PhotoPaint

Turning to PhotoPaint, which started off as a rebadged version of Zsoft's budget PhotoFinish, but has grown over the years to offer professional features comparable to the high-end products from Adobe, MacroMedia and Micrografx. It includes floating, layered "objects", natural media brushes and pressure-sensitive pen support.

This version, in common with Draw itself, sees a number of interface changes. There's a new "flat" look, as in Microsoft Office, with controls that highlight as you move the pointer over them.

Rather more useful are Dockers: tabbed palettes, rather like those seen in Adobe products, which can float free or be docked at

any edge of the screen. These don't entirely replace Roll-ups but, like Adobe's, individual pages can be dragged out to float independently: the pages offer access to Objects, Channels, Scripts, the Recorder and the Tutors. The Tutor tab has the look and feel of a tiny web browser and the tutorial text is contained in HTML files, but this feature was still "under construction" in the beta. A Workspace feature enables you to save different customised interfaces and there's support for the Microsoft Intellimouse: holding down the wheel pans around an image; turning it, zooms in and out.

In terms of new features we've got proxy editing; saving time by working on a low-res copy of a bitmap and "rendering" the changes to the high-res image when desired. There are new filters, lenses and plug-in effects, and many of these can now be previewed dynamically straight on to the image, instead of in a dialog box thumbnail. An Image stitcher will create a panorama from multiple files and the animated GIF format is now supported.

As for the painting tools, there's a new symmetry feature that lets you paint mirrored strokes, or radial patterns, by defining an axis of symmetry or rotation and the number of points. More fun can be had with Orbits. These add extra bristles to the brush tools that oscillate or rotate about the drawn path. Hence you can get all

sorts of twisted ribbon, DNA-style spirals and strange, tubular intestinal effects. These also work with the Image Sprayer that lets you spatter the screen with tiny images and which now includes more samples.

Draw 8 itself

We've covered the interface changes: flat look, Intellimouse support and the Dockers, which here include styles, view management, objects, symbols, scripts and two internet-specific panels. There seemed to be a problem here, as it was impossible to tab the Dockers together or expand a single one, with the result that it was seemingly unavoidable to fill the entire screen with them.

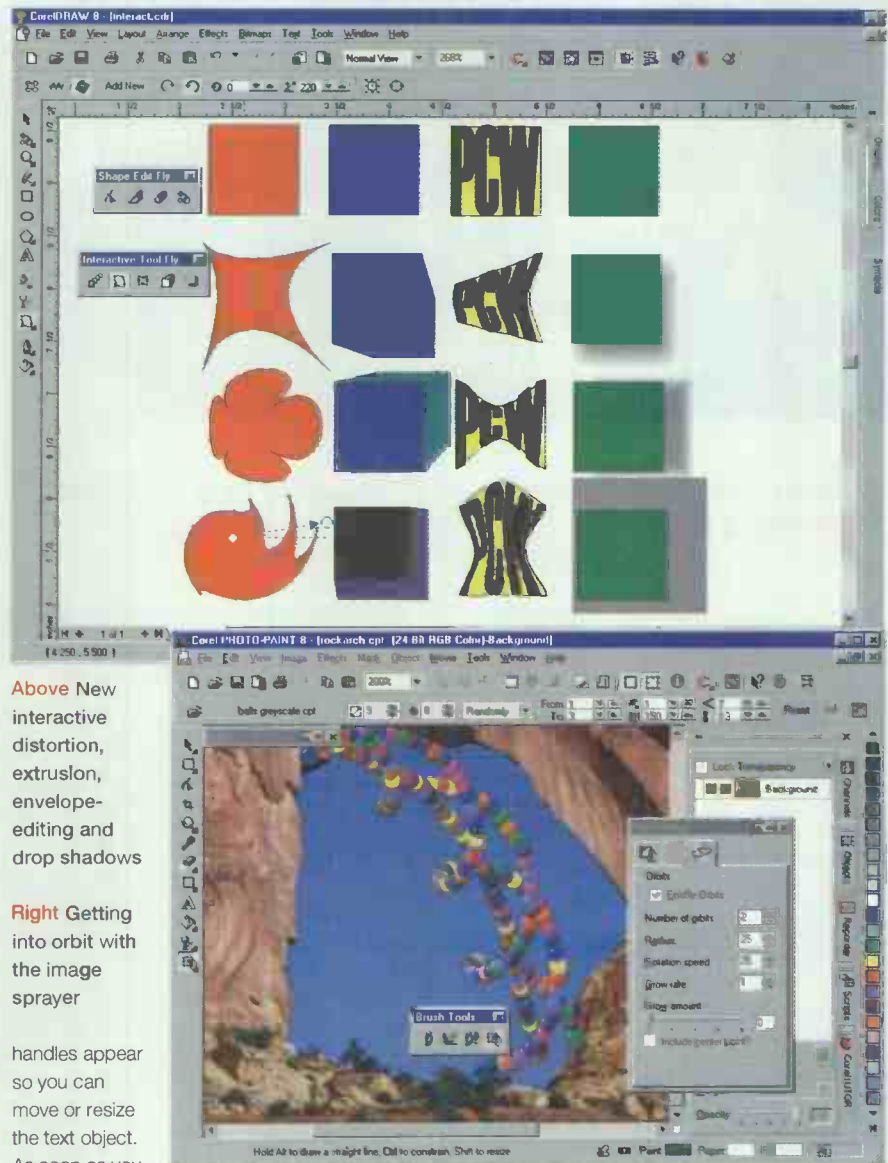
Moving on to drawing cheers things up somewhat. Picking from a stack of overlapping objects has always been tricky, but now you can hold down the Alt key as you click cycles through overlapping objects. Another great time saver is in node editing: previously, after you created a shape you had to switch back to the selection or node-edit tools to transform it. Now, with a shape tool active, you can edit the nodes and handles of an object without having to switch back. It also works on previously-drawn objects. Using the ellipse tool, for instance, the normal click-drag will draw a new ellipse. Click-release on a shape, however, and its handles will appear exactly as if you'd switched to the arrow tool. You can then tweak the object but still keep the ellipse tool current for the next action.

Last year brought new interactivity: real-time on-screen handle control of blends, fills and transparency that dispensed with dialog boxes and previews. Corel has built on this to offer more interaction. Envelope editing, where you distort the shape of an object or piece of text, is now far simpler: you just drag handles on-screen rather than mess with settings in a Roll-up. The same process applies for extruding 3D effects and adding drop shadows — all the relevant options appear in the context-sensitive property bar.

Brand new on the interactive front are the three distortion tools. The Zipper distort adds a zig-zag edge to an object, the Push-Pull distort bends segments of an object and the Twister distort does what its name suggests. It's all very subtle. The direction and length of the interactive handles affect not just the intensity of the effect, but can switch between concave and convex modes. Better still, you're not constrained by symmetry — you can weight the effect to apply more strongly in different directions, giving natural-looking swirls and petal effects.

There's also an interactive stepped colour control. Click on an object with the Control key held down and colour will be added in ten percent tint stages. You can import and "in-place" edit and render 3D objects, although this didn't appear to be fully working yet and the 3D TextArt effect mentioned in the release notes was nowhere to be found.

Other improvements to text handling include a feature that resizes fonts to make a block of text fill a frame exactly, saving much trial and error. Another neat touch is that if you pause while entering free-range Artistic text, the sizing



Above New interactive distortion, extrusion, envelope-editing and drop shadows

Right Getting into orbit with the image sprayer

handles appear so you can move or resize the text object. As soon as you start typing

again, you're back in text-entry mode.

The Undo feature now goes beyond file saves: a welcome addition to anyone who has inadvertently saved changes they didn't want. Another safeguard is that you can now lock individual objects to protect them against accidental change. Previously you could only do this to an entire layer of objects. Duplication has been improved, too: previously you had to set the automatic placement of a duplicate from a dialog box, but now if you move the first duplicated object, subsequent ones will inherit the same relative placing which makes it much easier to create repeating patterns.

Finally, there's more web support, including access to Corel's ftp site direct from the Scrapbook clipart browser and a "Make HTML compatible" feature that removes text formatting that could cause problems with browsers.

After last year's tidy-up of the interface and speed enhancement, this version is a bit of a disappointment. The combination of interactive tools and the property bar is excellent but other parts of the interface should be taken out and shot. The Dockers are a good idea in theory, but

seem poorly implemented and compete for screen space with the profusion of roll-ups. My copy of the beta took three times as long to redraw the same picture as Corel 7. With a scheduled release date only five weeks after the date of the beta, this does not bode well.

Tim Nott

PCW Details

Price £464.13 (£395 ex VAT) to be confirmed

Contact Corel 0800 973189 www.corel.com

System Requirements Windows 95 or NT 4.0, P90 (133 recommended), 16Mb RAM (32Mb recommended), 80Mb disk (245Mb recommended).

Good Points More flexible drawing. Excellent interactive tools.

Bad Points New dockers add further confusion to the interface, and performance (at least in beta) is well down on version 7.

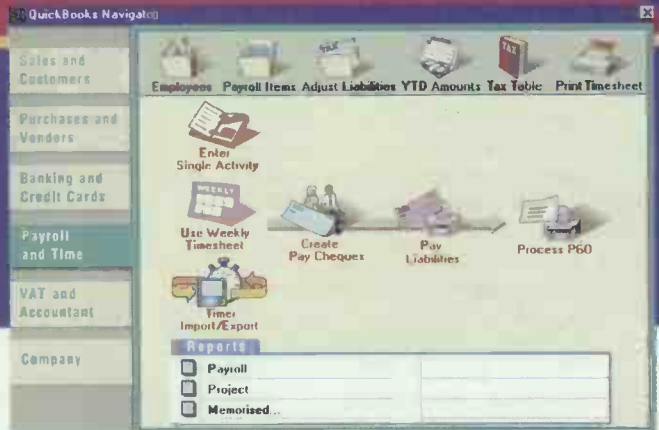
Conclusion On a first impression, not one of Corel's better years, but the final verdict will have to await the release code.

★★★

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What the press say

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PC Advisor, September 1997.

"QuickBooks is exceptional value for money and an extremely flexible package."

Computer Buyer, September 1997.

"Intuit has managed to make the new version of QuickBooks Accounting more sophisticated without sacrificing its legendary ease of use."

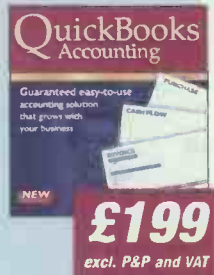
Mind Your Own Business, June 1997.

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Systems requirements: Works with Win 3.x or Win '95, 8MB RAM minimum, Hard Disk with 25 MB free space.

ADVERTISING CODE: QBW0/01

Software

Personal
Computer
World
Recommended

Microsoft Money Financial Suite 98

Financial advice, online banking, it'll even eliminate your credit card debt (no ready's, though!).

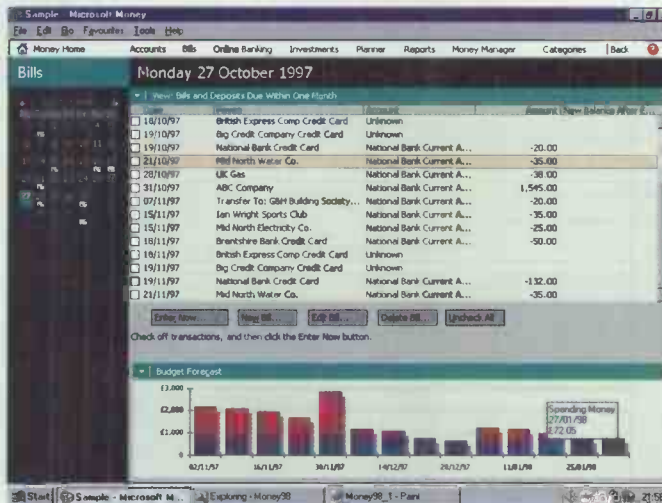
It's less than a year since Microsoft tempted us with Money 97. Now, with the 98 version there's another chance to swap *our* money for more of *its* Money. Is it worth it? That depends on which version you buy. Here, we're looking at Money Financial Suite 98 (for £20 less you can get Money 98 Standard, which leaves out the financial planning aspects and some reports).

The big selling point of Money 97 was its online banking facility. Here in the UK there was only one taker, Barclays Bank. But now Nationwide has joined, too. That's it for the time being, but you can expect other banks and financial institutions to get involved soon, so check with yours if you're interested in this facility. If you're a Royal Bank of Scotland customer, you can import data into Money 98 but as yet you can't connect directly.

But even if you're not interested in online banking, there are other features in the new Money that are worth consideration, especially if you have internet access.

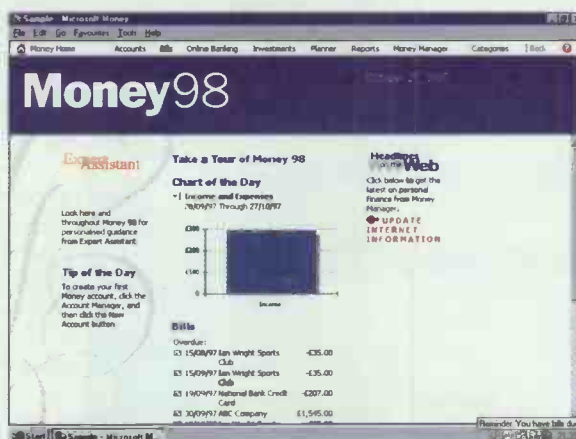
Money is no longer just an accounting system, it can now take over your entire personal finance portfolio, look after your accounts and offer support on everything from your stocks to your mortgage. This becomes apparent when you start Financial Suite 98 and view its home page (the interface is seemingly a web browser, complete with frames). The home screen shows summaries of your assets and liabilities, gives the current balances of your bank accounts and offers financial advice such as *change your mortgage*, or, *pay some bills*. The clever part is that this advice is "live" — Financial Suite makes its recommendations on the basis of its analysis of your account details.

For example, based on the latest mortgage rates, the program will identify whether you are paying too much and alert you to the possibility of refinancing your mortgage. For this to be as accurate as possible, you need to give the program details of your assets, liabilities and



The Money 98 home screen summarises all you need to know (and some things you'd rather not) about the state of your finances

is the invoicing module which you can also use for credit notes, quotations and pro-formas. It's biased towards sellers of goods rather than services, in that it reveals item codes and unit prices



Forthcoming income and expenditure can be checked quickly and accurately

financial goals, like investment plans and pension provision. It can even handle one-off targets like

wedding expenses. You get help with income tax self-assessment, too.

There's a Debt Reduction Planner which offers to create a plan to eliminate your credit card debt. And there are several useful work sheets including home inventory, loan and mortgage, tax and pensions, although none of them have live links to your accounts.

For further help, the text of many UK-specific financial articles are there to browse. Some are updated when you connect to the internet from within Money 98, as are tax and mortgage rates. The provision of information in this way is invaluable, yet relatively easy for software publishers to include. Let's hope it sets a trend.

If you invest in the stock market, there's Microsoft Investor to track and automatically update the value of your portfolio and let you research other investment opportunities online. Another useful feature for budding entrepreneurs,

on its printed forms (which are acceptably formatted for a small company). It's dislocated from your bank accounts, needing its own asset account to be set up to hold both income amounts and payments. But there is an automatic routine to transfer receipts to your bank account, where you can set up appropriate income categories. It's ideal for startup sole-trader businesses but don't expect to be able to carry out business analyses as easily as using dedicated business accounting software.

Cheekily, Microsoft has included an upgrade Wizard to open a Quicken file in Money 98, convert the data into Money 98 format and let you start using the data immediately. For those who outgrow Money 98's embryonic business features, Microsoft has provided an upgrade path to either Sage Instant Accounting or Sage Sterling — Money 98 is file-compatible with both.

James Taylor

PCW Details

Price £49.99 (£42.54 ex VAT)

Contact Microsoft 0345 002000

www.microsoft.com/Money

System Requirements 486DX, Win95, 12Mb of RAM, 25Mb hard disk space (+6Mb for Microsoft Internet Browser), CD-ROM, modem.

Good Points Online banking and updating facilities. Sage compatibility.

Bad Points Some of the help still talks in dollars.

Conclusion Your own personal financial assistant at a laughably low price.

★★★★★

Software

Norton AntiVirus 4.0 Deluxe

Now all DOS, Windows and NT users can have the ultimate protection against vicious viruses.

Symantec's Norton brand is the leading name in utilities, yet in the anti-virus market it has so far not achieved the success of McAfee in the US, or Dr Solomon's in the UK. Knowledgeable buyers recognised its lacklustre detection rates. But that bugbear was laid to rest in early 1997 with the release of version 2 for Win95 and NT. Now Symantec has updated the software for DOS and Windows 3.1, and packaged all versions in one box. The result is Norton AntiVirus 4.0 Deluxe, one of the strongest and most complete anti-virus packages you can buy.

The software installs from CD-ROM, which also includes AVI videos of information on viruses and how to use the product. Setup installs the appropriate version for the platform you're running. During installation you're prompted to create a set of rescue disks which you can use to rebuild your system following a destructive virus attack. If you're connected to the net you're asked if you want to download the latest virus definitions. This feature, LiveUpdate, lets you get virus updates free, for the life of the product.

Like all virus scanners, updates are important to maintain the software's effectiveness at detecting new viruses. LiveUpdate can retrieve not only new virus "signatures" but also extensions to the scanning engine which may be needed to deal with completely new types of virus such as those written in Java or VBScript.

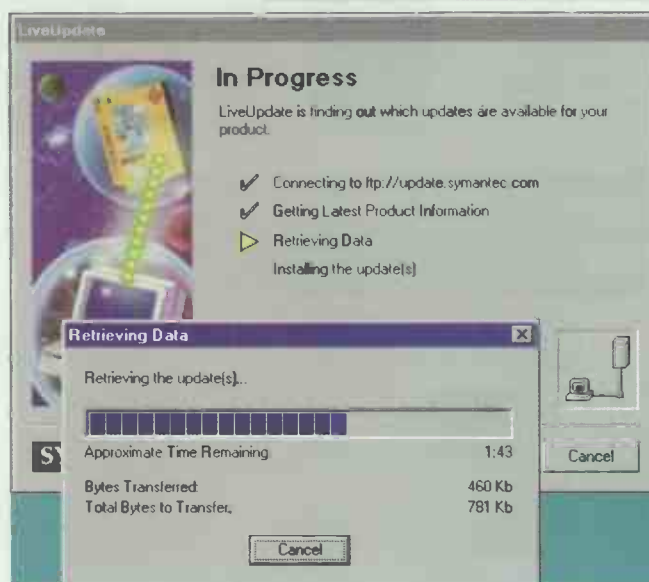
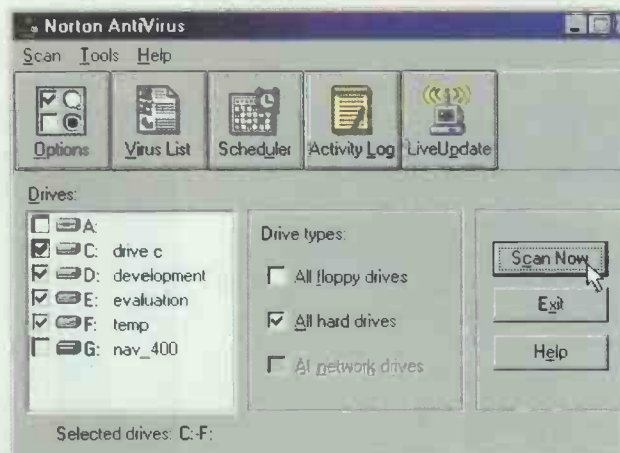
All versions of Norton AntiVirus sport an identical interface although the DOS version is rendered in text mode. To check your PC you choose which drives to scan and click Scan Now. You can also scan drives, folders or individual files using the "Scan with Norton AntiVirus" option on Explorer context menus, or run regular checks using the Norton Scheduler. When run in this way the program minimises, and displays a small message box on completion to tell you all is clear.

The software includes Auto-Protect, a resident scanner which works in the background to check files when you run, copy or move them, or when they arrive as an internet download or email attachment. Auto-Protect makes it impossible to run an infected file (at least not one it can detect). When a virus is found, the screen clears and a text mode warning appears, with options for proceeding. The Repair option can be used to disinfect a file there and then, although not all viruses are successfully removed.

Auto-Protect can warn you about virus-like activities such as attempts to write to a hard disk's system areas, or format the hard disk. It checks your disc drive for infected floppies and can check if you've left a floppy in the drive when you shut down so you don't accidentally boot from an infected disc.

Right The user interface, based on the Windows 95 version, is consistent across all platforms

Below Using LiveUpdate you can download new virus definitions over the internet



Norton's Inoculation option (integrity check) lets the software see if a file has been modified, perhaps by an unknown virus. Inoculation is applied only to system files by default. Program files are more likely to be modified by a new application's setup program, which would result in false alarms, but if you can live with this you can enable this extra level of protection.

What sets Norton AntiVirus apart is the amount of customisation allowed. For both the scanner and Auto-Protect you can choose how to be alerted when a virus or suspicious file is found and what options should be available for dealing with it. There's even an option for tuning the virus scanner's sensitivity. Corporate users will particularly appreciate the ability to customise alert messages and password protect the options to prevent tampering.

Norton AntiVirus uses similar leading-edge techniques to other top products and delivers a

top-notch virus detection rate. "Striker" allows encrypted viruses to run safely in protected memory so they decrypt themselves, allowing them to be accurately identified.

"Bloodhound" uses heuristic methods to sniff out possible new viruses. Symantec claims that it can even detect most unknown macro viruses (to date, Dr. Solomon's is the only other product that claims to do this).

For those seeking virus protection, Norton

AntiVirus 4.0 is a safe choice. It's easy to use, highly effective and is easily updated via the net. AntiVirus 4.0 deserves to become the market leader — its developers have done a good job.

Julian Moss

POW Details

Price £69.33 (£59 ex VAT)

Contact Symantec 0171 616 5800

www.symantec.com

System Requirements 386, 4Mb RAM, MSDOS 5, 9Mb disk space, CD-ROM drive.

Good Points Easy to use. Highly effective. Free updates via the internet.

Bad Points Updates are expensive on disc.

Conclusion One of the best anti-virus products you can get.

★★★★★

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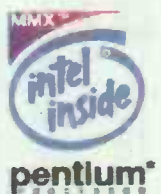
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- 14-inch non-interlaced SVGA Monitor
- 24 speed IDE CD-ROM
- 100/10 Mbps Fast Ethernet on-board
- 1 x ECP/EPP parallel, 2 x RS232 16550A serial ports
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Software

ClarisWorks 5 Office

You don't need acres of memory and disk space to make it work well for your business needs.

Office software is generally considered to include word processing, a spreadsheet and a simple database.

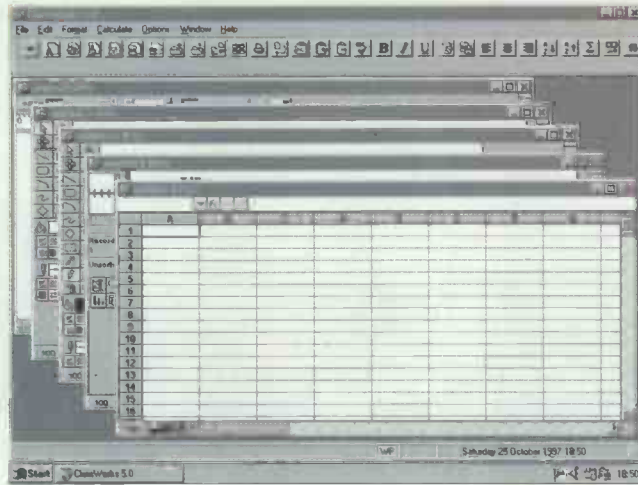
Integrated software of this kind is usually called "Works". Bigger packages bundling separate, more powerful, versions of these programs usually incorporate the word "Office".

The *de facto* standard for office software is undeniably Microsoft, currently pushing Office 97. But it's an expensive, big application and even the cut-down small-business edition demands 195Mb of your hard disk space and has many features that smaller businesses might never need. So, if you're in this category take a look at this version of ClarisWorks Office instead.

At the core is the new ClarisWorks 5 which features links to the net, plus enhanced HTML document translation to take advantage of it. If you haven't yet signed up with an internet service, there's a Pipex Dial trial offer in the box. Also in the box is a copy of Claris Home Page Lite (web publishing package) and a large quantity of ready-to-use document templates including JIAN BusinessBasics from the business planning software publishers BizPlanBuilder, justifying the Office epithet.

ClarisWorks 5 includes word-processing, spreadsheet, database, drawing and painting programs. The graphics lend it presentation capabilities so you can combine words, graphs, tables, photo images and video on a single page. As well as its own native formats, ClarisWorks can read and write in most other popular formats, too, including Microsoft Works and Word, WordPerfect, Lotus, and graphics files.

There is an impressive number of document templates, or stationery already set up with text, pictures and other formatting options which can be changed if you so choose. Ready-to-use documents include newsletter layouts, financial worksheets, databases, presentations and web page templates. Apart from its own templates, it also offers a selection of more than 60 business documents from JIAN BusinessBasics. These include templates for agreements, worksheets and checklists for sales, marketing, finance, accounting and general management. They were originally created for use in the US so you might need to check whether they are suitable for use in



Left As well as the more usual office functions, ClarisWorks 5 includes painting and drawing programs

Below, left There is much useful pre-defined stationery, including the JIAN BusinessBasics sets

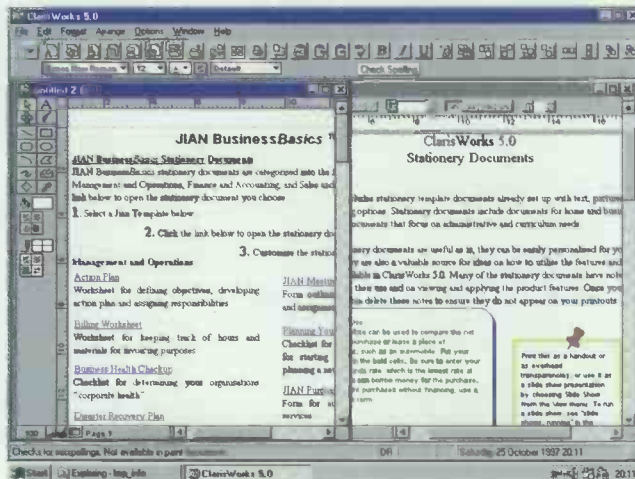
the general-purpose default. You can edit these bars, add new buttons to open documents or web pages, play macros or

launch other programs in order to gain immediate access to all your files without leaving ClarisWorks. For example, you can additionally set up a button bar that will be saved with a document so the correct shortcuts are available when needed.

Other novelties in ClarisWorks 5 are the Access Menu which lets you use the keyboard instead of the mouse to navigate to various palettes (could be useful for some portable computers); and the Texture palette which lets you edit textures as well as patterns and save your customised palettes.

Obtaining telephone support entails the unusually tiresome routine of ringing one office to register and then another to get help. Both systems are afflicted with voicemail. Support wasn't able to answer our three questions, kept us waiting for ages and then cut us off. Perhaps you'll have better luck?

James Taylor



the UK. Stationery uses a different suffix (.cws) from documents (.cwk) and irritatingly doesn't let you look for both when opening documents.

For your own documents, you can call on ClarisWorks Assistants for detailed step-through help in the automated creation of everything from newsletters and tables to mailing labels and business cards. For publishing on the net, you get a new ClarisWorks HTML translator with support for gif and jpeg images, background images and tables, plus ten new templates for single page web sites.

You can also install Claris Home Page Lite which, among other features, will publish multi-page sites. Unfortunately, the version included does not qualify for support from Claris (but you can upgrade to the full version). Home Page Lite is not installed automatically with ClarisWorks; you must browse the CD to find it.

Claris is proud of its new ClarisWorks button bar. You get four mutually exclusive bars for the internet, the Assistants, document formatting and

PCW Details

Price £116.33 (£99 ex VAT. Upgrade £57.58 (£49 ex VAT)

Contact Claris International 0345 413060; www.claris.com/intl/uk

System Requirements Windows 95

Good Points Versatile word processor. Useful stationery and templates. Low price.

Bad Points Fragmented installation routines. Meanness in supplying only a light copy of Home Page.

Conclusion Even if you don't need the ability to exchange files with other users, or the cross-platform compatibility with the Mac, Office is still a bargain. It needs less memory and disk space than others: ideal if you're starting up a business on less-than-leading-edge equipment.

★★★



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Software

Claris FileMaker Pro 4.0

Mac-like, powerful, easier to use than other applications and now with instant web publishing.

Designed for the Mac and ported to Windows, FileMaker Pro is easier to use than the likes of Access or Paradox. Much of its complexity is hidden behind straightforward dialogs using plain English terms. For example, FileMaker has only one text field type, which stores up to 64,000 characters. By default, indexes are silently created as needed and every word in a text field can be indexed. Other databases managers make you specify field size and indexing, and have separate unindexed memo fields for longer text. FileMaker's approach is intuitive and powerful.

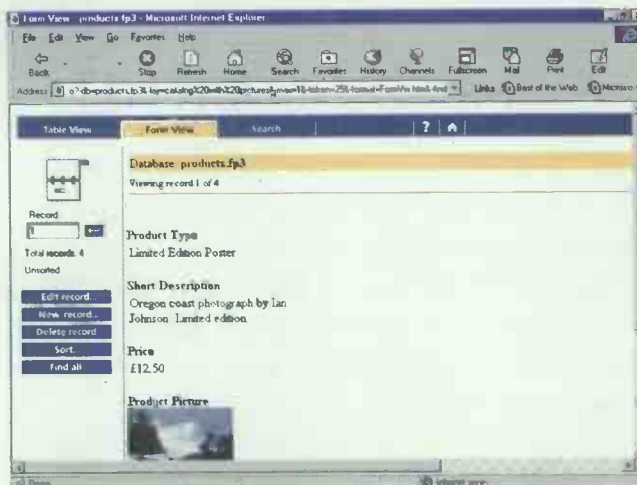
Another strong point is that the same "layout" (form) designer is used for forms and reports. When you create a new database, FileMaker creates a default layout that handles viewing, editing, listing and printing records.

Any layout can be put into Find mode, which blanks out the fields for you to type in the values you want to match. Click Find and FileMaker displays just the matching records. Layouts can easily be customised by adding buttons to automate your work, say. There is a large range of pre-defined

actions you can attach to a button, or you can write custom scripts using ScriptMaker, a point-and-click dialog which lets you create sophisticated routines visually, without having to remember keywords or parameters. FileMaker was designed as a sophisticated flat-file database, although relational features were added to the last version.

None of this is new and little has changed since version 3.0. There is one major innovation; an internet feature called the Web Companion. Dynamic data publishing allows web browsers to execute queries against a proper database as opposed to simply viewing data in static HTML files. Traditionally, offering this type of access is difficult, since you need to create programs that run on a web server and generate HTML on the fly. Claris has side-stepped much of this work by making FileMaker itself into a web server.

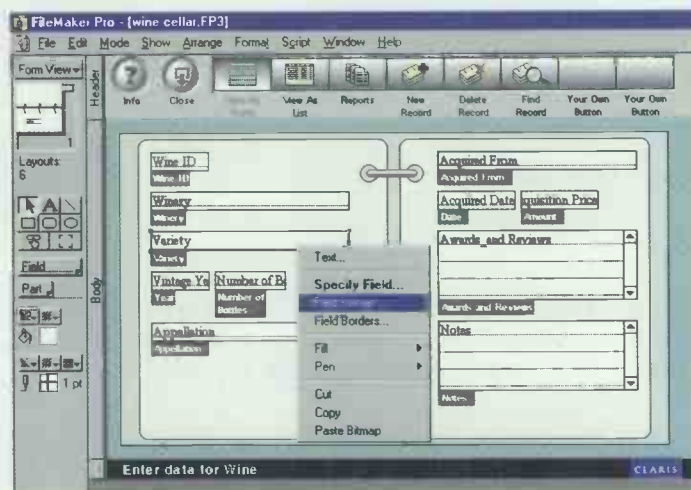
If your PC has a TCP/IP address, either on the web or on an intranet, publishing a FileMaker



Left Browsing a database using FileMaker's Instant Web Publishing

Below, left This layout uses drawing objects to create a notebook-style background. Right-clicking a field pops up a customisation menu

Once you leave the comfort zone of Instant Web Publishing, FileMaker is not really any easier than other



solutions. Even so, FileMaker's web features should light up the eyes of anyone wanting a simple way to publish data, particularly on an intranet. We tested it on a network both with Mac and Windows systems and in moments the Macs were happily browsing a database hosted on Windows NT. The great advantage is that no additional client software need be installed (and presumably neither are client licenses required).

For full internet publishing you need a permanent connection and a fixed net address. Users of dial-up accounts must use FileMaker's static HTML export instead. FileMaker is great for ease of use, but be cautious before adopting it for custom database applications. And, it remains weak on Windows integration. FileMaker does not have tooltips. There is no ODBC driver and no connection to ODBC databases, no support for ActiveX, and DDE only as a client, not as a server. FileMaker remains a Mac alien in a Windows world. Despite this, it is still the best choice for non-technical users who want to manage data and share that data on an intranet, too.

Tim Anderson

database is a snap. At a minimum, all you need to do is check the box that enables the Web Companion plug-in. Web browsers that navigate to FileMaker's URL will see a home page that lists all open databases. Selecting one of these presents the data in a simplified layout, with searching and editing features. There are even Java applets that simulate FileMaker's data browsing tools. You can control which fields are displayed by configuring Web Companion to show data from a particular layout. Fuller control is available by writing your own web pages using GDML (Claris Dynamic Markup Language).

There are limitations to FileMaker's web publishing. FileMaker scripts do not work over the web, so more complex applications require JavaScript embedded into HTML files, as in the supplied examples. Although access passwords are respected, Claris warns that "all files in the web folder can be accessed, replaced, or even deleted by savvy web users".

PCW Details

Price £233.83 (£199 ex VAT). Upgrade £116.33 (£99 ex VAT)

Contact Claris 0345 413060 www.claris.com/uk

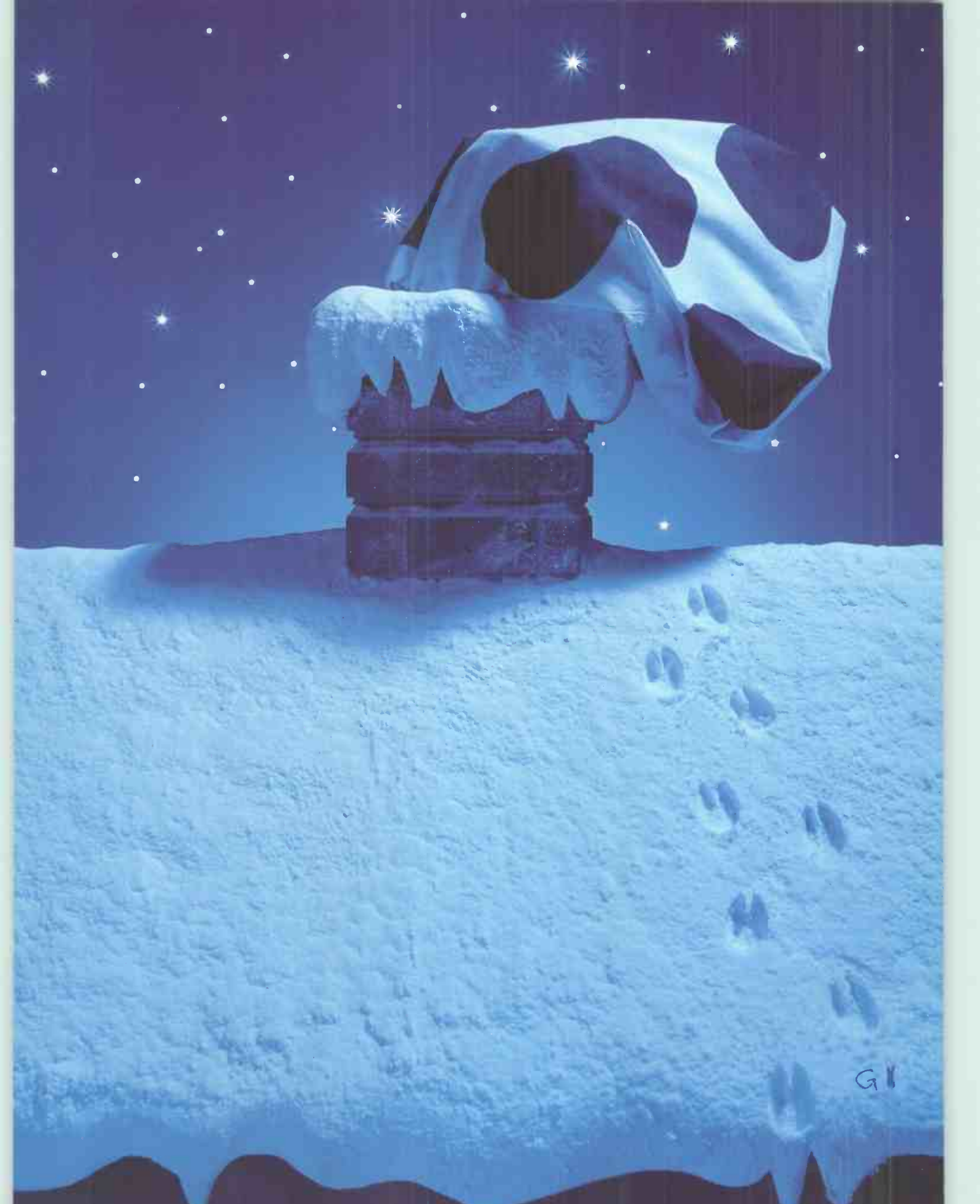
System Requirements Windows 3.1 with Win32s, Windows 95 or NT.

Good Points Genuine ease of use, including web publishing. More powerful than it first appears.

Bad Points Still looks like a Mac application. Windows integration still weak.

Conclusion The best end-user database but quirky in a Windows environment.

★★★★



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It was a late December eve, and tucked under the tree were packages bursting with fresh technology - all across the land, computer dreams were about to come true.

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Experience the latest multimedia software titles, surf the web and print documents using the 720dpi printer. It's a perfect starter system for both family and home. And at £999 (plus VAT and delivery), it's priced to keep you in the Christmas spirit!

If you've got an extra special person on your list — a Gateway Solo™ 9100 is just the thing. The flagship of the Gateway Solo portable line, the S5-233XL, is powered by the latest in mobile computing processor — a 233MHz Intel Mobile Pentium mobile processor with MMX

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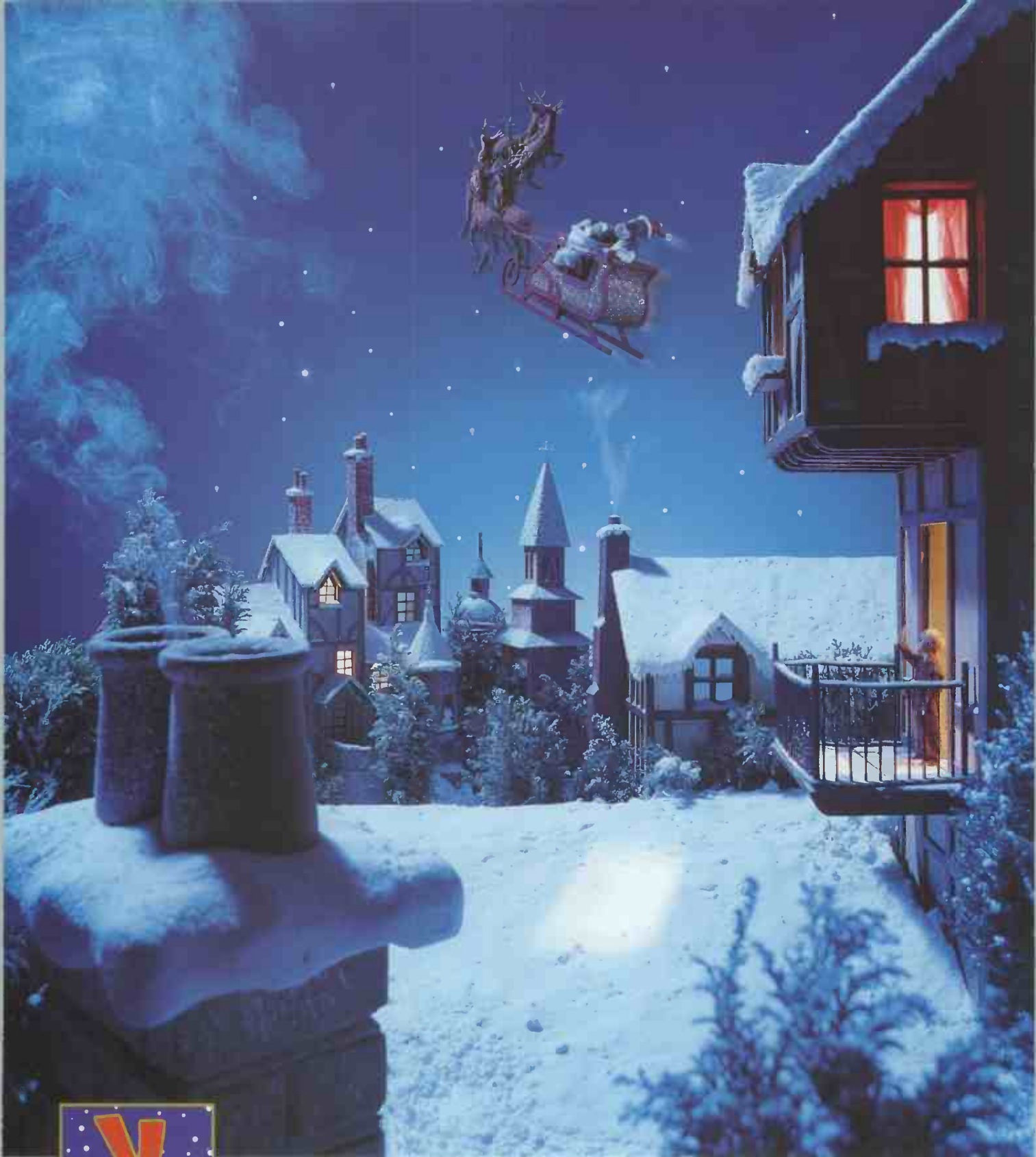
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G6

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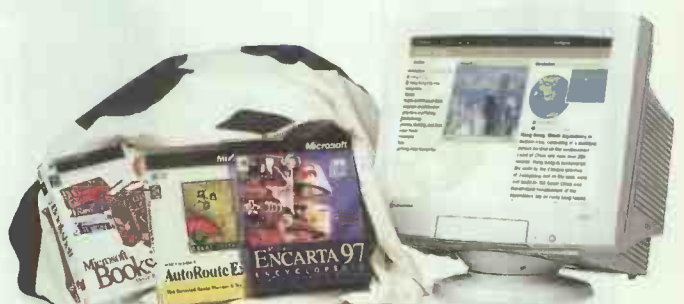
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Software

Microsoft MSN 2.5

Will this latest e-zine-styled online service from Microsoft be enough to attract the punters?

The web today is like television was in the thirties: it works, but only enough to give us a glimpse of its potential; it has users, but not yet so many as to pump in serious money; and nobody is quite sure what is to be done with it.

This uncertainty is evident even at the most basic level: your connection. There are two types: direct, where you are put straight onto the web to wander at will; and value-added, where a gateway to the wider web is part of a package of services built around a community of users. It's the difference between going straight to the bus station when you head out of town, or dropping in first at the pub next door. The pub can make a lot of money if it can attract the punters.

CompuServe and AOL pioneered the value-added model, but they began as closed non-web online services. It is by no means clear how the model will develop, or even survive. In the free-for-all of the web, where communities tend to arise spontaneously on the basis of common interest.

Nevertheless, two of the most powerful people in the world, Rupert Murdoch and Bill Gates, saw the model as a way of selling content for profit. Both have set up value-added web connections in Britain: Murdoch/BT's Line One, and Microsoft's MSN.

If you find this worrying, be reassured that the web is too big even for these heavyweights to control and they could screw up badly. Microsoft has already done so several times. It set up MSN as an old-style closed service and had to scrap millions of dollars worth of infrastructure when Gates did his famous U-turn towards the web.

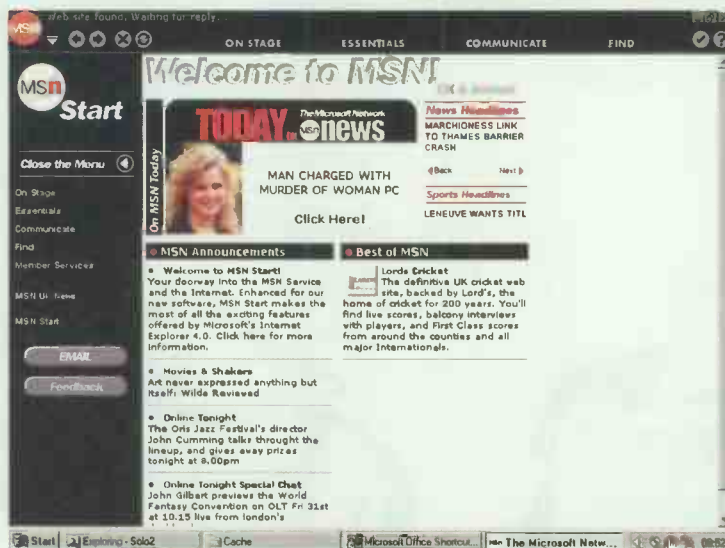
It missed out on \$200m of publicity when it failed to have MSN ready for the Win95 launch. The first UK version of MSN software went so far overboard on special effects that my home PC simply refused to run it. Even on faster PCs, they grew so irritating that I by-passed them.

It seems, according to US reports, that I was not alone and that MSN has had problems attracting people to its content. There are even rumours, denied by Microsoft, that Gates wants to sell MSN. Yet MSN deserves credit for trying to push forward the boundaries of what is possible



Left & below left MSN's magazine style demands a lot of resources

construed as Microsoft refusing to compromise. Its e-zine style, like much other web content, will not be comfortable to use (and therefore commercial) until delivery speeds rise by an order of magnitude. This goes too far the push channels Microsoft has introduced with its Explorer 4.0 browser,



incorporated (along with the new Outlook Express email module) into the latest version 2.5 of the MSN software.

But infrastructure developments are coming faster than they did with early TV, which had World War II to contend with. Digital broadcasting, which will gain impetus next year, will change radically the way such content is delivered and read, and providers will have to change with it. MSN is already doing so, making much of its content available free to browsers (see www.uk.msn.com/portal/default.asp) or via an IE 4.0 channel. It wants to prime an audience for future commercial services.

So what is the point of joining MSN? The answer is that its prices are on a par with those of the no-frills providers. Once you have figured out how to use a standalone browser, you can take or leave the content and use MSN as a plain web link.

Clive Akass

on the web. The content, much of it originating in Britain, is variable, but sometimes very good. Often the design goes over the top, but how else do you define limits? The gaming zone is popular: chat rooms are populated by novel cartoon "avatars" and there is an excellent, though heavily US-orientated, magazine called Slate.

MSN had a harder task than CompuServe and AOL, which built a huge captive community of users before opening up to the internet. It compensates by grabbing its users as soon they log in and trying to hold them on-site. The opening screens offer a host of attractions but no obvious way to enter a web address. I'd bet there are MSN users who have never discovered the web beyond the home site.

Some users like this approach but it can be aggravating to people like myself who use the web continually as a source of information. The content is still largely suitable only for fast lines and high-spec machines, which could be

POW Details

Price £14.95 a month, unlimited use; £4.95 for three hours a month, plus £1.95 each extra hour; £149.50 per annum

Contact Microsoft 0345 002000
www.uk.msn.com

System Requirements Windows 95 and 14.4Kbps modem. 28.8K modem or better. At least 16Mb of RAM.

Good Points Well-produced if erratic content.

Bad Points Interface gets too tricky and needs a fast connection.

Conclusion Reasonably priced web link with some good added attractions, but demands a lot of resources.

★★★

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dial-up connection
is the business
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Software

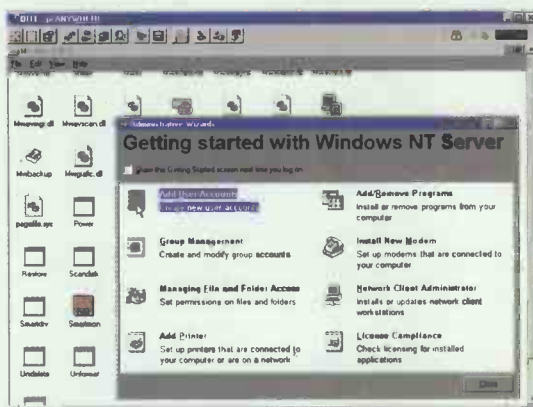
Symantec pcANYWHERE32 8.0

Remote access software is on the up and up and now there is better integration with Win NT.

This latest version of pcANYWHERE32 integrates caller authentication with Windows NT's user and group authentication for extra security. If you are connecting to an NT box, it includes support for LiveUpdate, a simple method of updating the package via the web.

For those unfamiliar with the program, pcANYWHERE allows users to remotely connect to another PC, via modem; or by using a network which can be a LAN (local area network); or, if the remote machine is attached, via the internet.

The upgrade from 7.5 to 8.0 adds some useful features including some aimed at making the NT administrator's life easier, such as the fact that the program will now log on to NT's Event Log, so the administrator can see who has connected. pcANYWHERE now integrates desktop videoconferencing using CU-SeeMe 3.0, which allows multiple remote PCs to simultaneously connect to a single host.



NT, running by remote control on a Win95 machine — you hardly notice that you are working remotely

There are a number of minor changes, too, which increase ease of use. For instance, the video resolution of the host computer can be automatically switched to match that of the remote machine without the need to go through the Control Panel, and the remote mouse can now be set to automatically match the remote machine's left- or right-hand mouse setting, or to

respect its current settings — it makes life easier for those of us with left-handed colleagues.

Combine the new features with those already present in pcANYWHERE, such as fast connection times, the ability to transfer files and to remotely control a machine and a decent terminal emulator, and this program stands out as an excellent piece of software and once again takes the lead in remote-control access software.

Ian Wrigley

PCW Details

Price £163.33 (£139 ex VAT) host and one remote. Upgrade £69.33 (£59 ex VAT)

Contact Symantec: 0171 616 5600
www.symantec.com

System Requirements Win95, NT3.5.1 or better.

Good Points Better integration with Windows NT. Video resolution syncing.

Bad Points Hard to find any!

Conclusion A great product, ideal for anyone who needs remote access to another machine.

★★★★

IMSI WinDelete 97

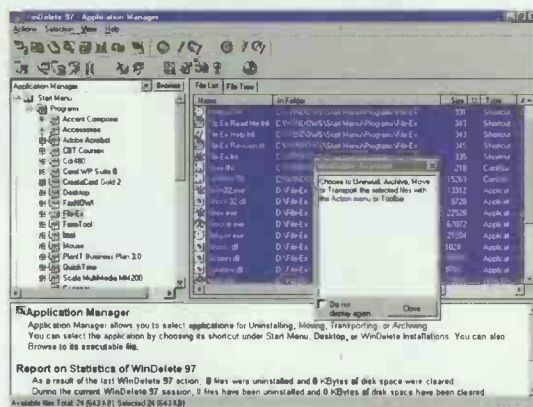
Delete those unwanted Windows apps with ease and style! But keep your wits about you.

Deleting Windows applications can be tricky. Manual deletion can leave unnecessary files on your system, where they consume disk space. WinDelete 97 includes facilities to monitor installations so they can later be cleanly removed. It also lets you archive, delete or move applications and files.

Using the Transport feature you can remove an application from a computer, copying it to archive diskettes for subsequent installation onto another computer. When you don't want to remove an application, but still need to delete some files, the CleanUp Wizard could prove useful.

With this tool you can search for, delete or duplicate empty files, backup files and temporary files, unused files, invalid shortcuts, ScanDisk .chk files and internet cache files.

When your system has been analysed you are shown a list of the selected files for deletion. It's important that you review this list: when using any



Use the application manager for an Explorer-type view of your applications and files

deletion application, you must know what you're doing; it's not unusual for it to suggest deletion of files that you subsequently find are needed by another application. Should a mistake happen and a required file is removed, it can be restored if you have enabled WinDelete's Undo Buffer or uninstalled using WinDelete's Archive mode. You

can screen your autoexec.bat, config.sys, win.ini and system.ini files for invalid information using the Integrity Check tool.

Three useful applications are included with WinDelete 97: McAfee VirusScan, Retrospect WinPack (compresses and decompresses zip files) and Silverlock WinTuner which analyses and tunes aspects of your system's performance.

Steve Cotterell

PCW Details

Price £34.99 (£29.78 ex VAT)

Contact IMSI 0181 581 2108 www.imsiuk.co.uk

System Requirements Windows 95 or NT4.0.

Good Points A useful set of tools which, if used intelligently, are easy to learn and use.

Bad Points You need to keep your wits about you.

Conclusion WinDelete 97 will help you perform your housekeeping.

★★★★



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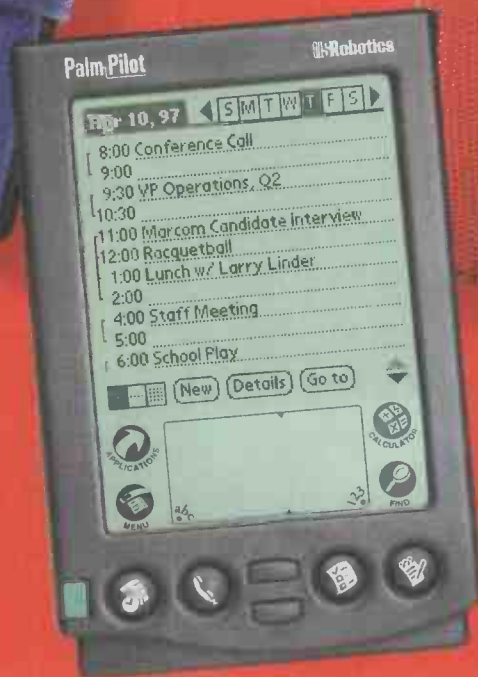
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3Com

Software

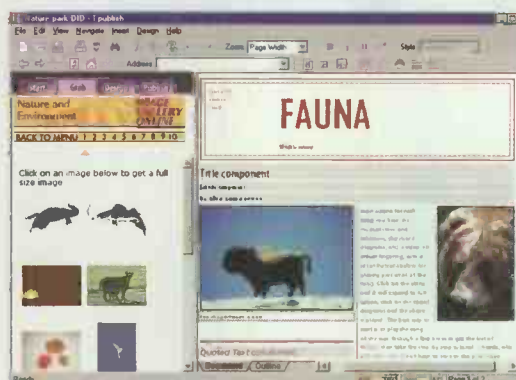
i publish 2.0

Painless and easy DTP for the novice — but don't expect to become a press baron just yet.

If you thought the Wizard-based approach of Microsoft Publisher (and others) was a painless introduction to the complex world of DTP, Design Intelligence's i publish would like to challenge that. Designed for outputting to paper, web pages, and on-screen presentations, this takes the automated template-based approach to the limit.

Start up, and you are presented with a choice of ten document types: choose one and you get a range of sub-choices in thumbnail view, of layouts and "scheme sets" (style and colour combinations). Clicking on a combination shows a larger preview.

Having made your choice, the preview expands to show your document and the control window contracts to four tabbed pages: Start, which you must have; Grab, for adding your own text and graphics to the placeholders; Design, for altering colours, fonts, picture placement and so on; and Publish, for outputting to paper or



Online clipart from the web-browser control centre

electronic format. The innovative bit is that this control window is actually a web browser. You can drag and drop files from your hard disk, from the CD-ROM and, if connected to the internet, from Design Intelligence's online gallery.

Moving on to the Design tab, you can change font and colour schemes from thumbnails. If you want to format a single component, however, you have to go through the menus. Although the

schemes are well-designed, there's little flexibility: you don't specify font size, but choose between Normal, Large, Larger or Huge.

In theory the program takes care of all layout problems for you, but I didn't find it that clever and the facilities for resizing text and picture blocks are limited. It takes some of the uncertainty out of creating smart-looking publications, but there's little scope for the more ambitious.

Tim Nott

PCW Details

Price £59 (£50.21 ex VAT)

Contact Design Intelligence 0118 981 4230
www.i-publish.com

System Requirements 486, 16Mb RAM Win95, 65Mb disk. Internet Explorer 3.01 or later (incl).

Good Points Easy thumbnail-driven layout creation.

Bad Points Little creative choice for the more ambitious.

Conclusion Easy and fun, but it won't teach you anything about DTP.

★★★

FreeSpace

Disk space — the final dump to clear. Here's an easy file compression utility that works well.

Compression dramatically increases the amount of data you can get onto your hard disk, but it has drawbacks. A compressed partition can slow down performance and you risk massive data loss if this big file gets corrupted. Techniques like zipping files are less worrisome but tedious. But FreeSpace's third approach lets you pick and choose what you compress.

FreeSpace's single-floppy installation makes no deep-rooted system changes. In order to work, first Windows and then FreeSpace must load, so you cannot compress system files, the Windows folder or FreeSpace itself. Nor will it compress over a Win95 network. The FreeSpace Manager is simple: tell the QuickSpace wizard how much space you want to save and on which drive, and it will come up with a suggestion. Once you've accepted, the program goes into action. The compression takes a while but this is really all you need worry about. You can, if you want, choose folders and files



Simple, effective. A refreshingly non-technical interface

manually for compression. Other options and utilities let you verify compressed files, or uncompress them. You can even bypass the FreeSpace Manager and compress folders from the right-click menu.

Following compression, the only difference you should notice is that compressed files are in blue text in Explorer, and drive and folder property sheets have an extra FreeSpace tab,

showing the savings made. The files themselves continue to behave as normal. Files saved to, or moved to or from a compressed folder are automatically compressed/decompressed.

Does it work? In brief testing, results were good with between 35-60 percent savings and even loading a 50 percent compressed 10Mb executable showed little performance hit. But with hard disk prices below £100/Gb, FreeSpace isn't that economical for sub-gigabyte drives.

Tim Nott

PCW Details

Price £39.95 (£34 ex VAT)

Contact AstroSoft 0149 4533393
www.mijenix.com

System Requirements Win95/NT 4.0, 8Mb RAM.

Good Points Beautifully simple to use and, in limited testing, worked well.

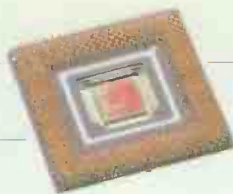
Bad Points None encountered.

Conclusion Cautious users might want longer-term testing, but the first impression is excellent.

★★★★

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T h i n k # 1 .



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*according to Dataquest Samsung sold more DRAMs and SRAMs in the past three years than any other manufacturer

Software

ZipMagic VS Zip It 4

Zippadee-doo-dah! Two file compression utilities reviewed: something old and something new.

ZipMagic is a new, impressive and easy-to-use compression utility. Its ease of use is down to the Archive Manager, which looks like the familiar Windows Explorer, but with added functionality and a file viewer. To archive files, just launch the Archive Manager, highlight the files you want to compress and click on Zip To in the drop-down menu. A dialog box appears and you simply create a new archive and name it, or choose one from those you've previously created and — hey presto! — you have an archive of compressed files.

Files can be added or moved to an existing archive: adding files leaves the original uncompressed file in place, while moving a file creates a compressed version and deletes the original. You can also specify Maximum, Normal, Fast, Super-Fast compression or None. If you see zip files in any of the following formats: Z, GZ, TAR, TGZ, LHA/LZH, ARJ, and ZOO; ZipMagic will convert them for you.

There are several useful tools, including a neat feature which tests the integrity of a zip file so if a recipient can't open it, you can see if the fault is yours or theirs. You can also add comments to a zip file and make a self-extracting archive. And, there's the great Archive Manager: you can view your desktop, drives, folders and files using a Tree List and File List; but it also includes the archive management tasks so you can view the contents of every archive compressed by the formats supported by ZipMagic. You can extract files by dragging them to the desired destination, view files inside archives and perform many other management operations.

Zip-It has been around for a while but though it has some nice features, version 4 is not as easy to use as ZipMagic and lacks the Archive Manager. Nevertheless, it integrates well with

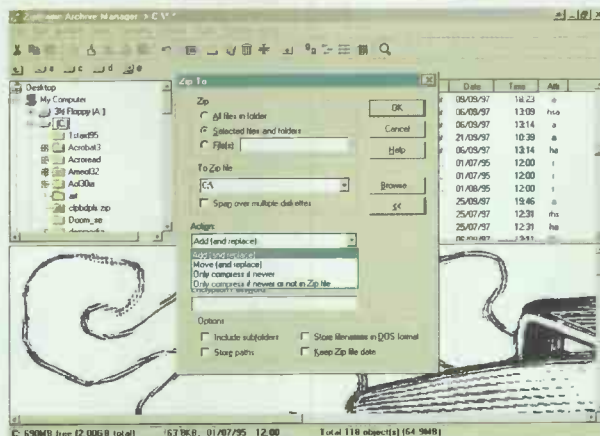
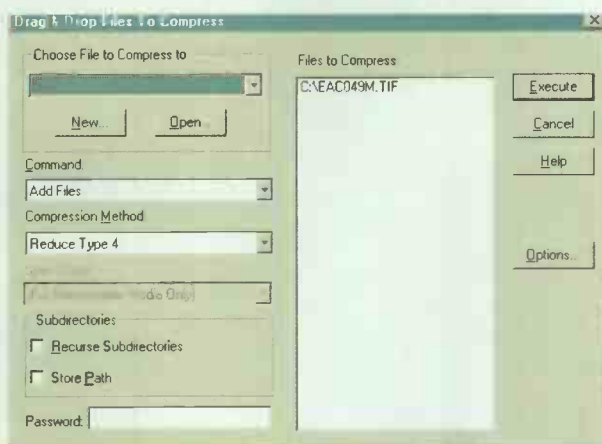
Windows Explorer (as does ZipMagic) and all you need do is highlight the files for compression, right-click your mouse and provide the archive destination. One click on a button and you have a

You can drag-and-drop files into a compressed archive and Zip-It will also archive a folder and its contents (and sub-folders) into a ZIP file at one go. As with ZipMagic, you can create a self-extracting file.

One big advantage of Zip-It is a new plug-in for Netscape Navigator/Communicator and Microsoft Internet Explorer that allows you to view the contents of a ZIP archive in a browser window. Individual files can be viewed or extracted or the archive saved to disk. You can also connect to a server on the net which supports the I-Zip protocol, display and browse the contents and extract individual files without having

to download the entire archive.

Paul Begg



ZipIt is good (Top), but not quite as good as ZipMagic (above) which is easy: just select the files for compression and, a few mouse clicks later, you have a compressed file

compressed file — quick and easy. However, if you launch Zip-It itself, you are faced with a dauntingly blank dialog box.

I can't say I'd recommend a new user to choose Zip-It over ZipMagic, but existing users will certainly want this upgrade. You can view and convert to Zip, ARJ, LHARC, and GZ formats.

PCW Details

ZipMagic

Price £29.99 (£25.52 ex VAT)
Contact AstroSoft 0149 453 3393
www.mijenix.com/zipmagic.htm

Good Points Easy to use. Good range of features, tight compression and an enhanced Explorer, too.

Bad Points Nothing comes to mind.

Conclusion Excellent product — and this is only version 1. What are they going to do next?

★★★★★

Zip-It 4

Price £29.99 (£25.52 ex VAT)
Contact Quarterdeck 0645 123521
www.quarterdeck.com

Good Points Quick, efficient. Good net integration.

Bad Points Not as easy to use as it could be.

Conclusion It does the job and does it well, but ZipMagic has the edge.

★★★★

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Result and You Don't Know Jack

Parties and PCs were chalk and cheese, until now. Gather round as the PC becomes your quiz inquisitor.

Calling anyone throwing a Christmas party this year and racking their brains for games to play — *PCW* has the answer. Why bother creating a quiz when someone else can do it for you, with sound, lights and pictures? Stick a quiz CD into the PC, sit the players down in teams, and clear off to the kitchen for that well-deserved triple sherry. Quiz CDs are the new “orange and balloon” game!

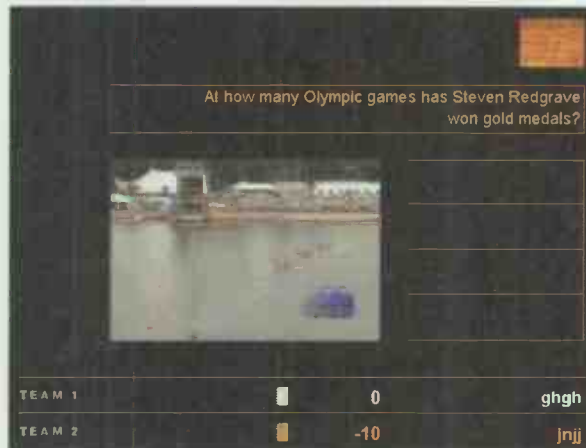
Result is a new one from the BBC, a quiz hosted by Desmond Lynam (aka The Coolest Man on Television) that tests your sporting knowledge. It draws on years of sports coverage from the BBC archives, mixing questions that use audio and video clips with straightforward sporting trivia.

BMG Interactive has released an updated version of **You Don't Know Jack (YDKJ)**, previously only on sale as YDKJ Lite. It doesn't stick to any specific subject; rather, it poses questions about high-culture couched in low-brow terms, e.g. “Which one of the following headlines taken from a 17th century tabloid, is written in iambic pentameter?” Unlike **Result**, there are no video or audio clips, it

is presented as a game show rather than a straightforward quiz, and it is hosted by the suitably smarmy Jack Cake. Up to three contestants can play. In YDKJ, as with **Result**, the questions run the gamut from a cinch to an impossibility.

Although **Result** loudly trumpets the involvement of Des Lynam, he features surprisingly little. Having briefly introduced you to the game, he passes the odd comment on your answers and appears at the end of a round to tell you what he thinks of your score, usually in a clichéd one-liner comparing your progress to that of a footie team. Desmond is justifiably worshipped by millions for his ability to host marathon-length sports programmes while going out live to millions with a producer screaming down his earpiece, but unfortunately he couldn't make this script sound natural to save his life.

In contrast, the host of YDKJ is absolutely inspired. Jack Cake has a gag for every answer, right or wrong, and I played for a few hours



Left Among the 3,000 questions on the **Result** CD, there may be a few you can answer

Below YDKJ may be jokey, but don't let that fool you

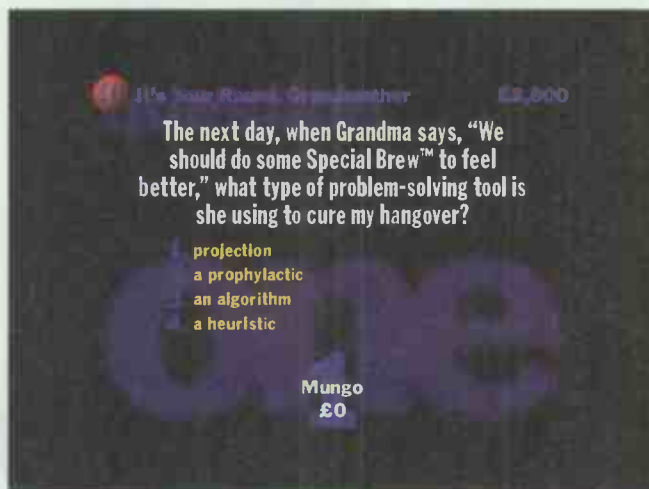
Occasionally a question arrives that is particularly simple, yet the vast majority can be answered only by the sports-obsessed: e.g. “Which diminutive Welsh flyweight champ was known as ‘the ghost with the hammer in his hand’?”

The main flaw with **Result** is its lack of imagination. The

game designers had the chance to design a sports quiz with the potential of an interactive medium, yet they seem to have just copied all the components of *A Question of Sport* onto a CD and left them there, with little attempt to make it an engaging experience. Even if you love sport, the uninspiring gameplay wears a bit thin. Rather than pack the game full of footage and commentaries from the last 30 years, the multimedia element is used sparingly. Too many questions are anagrams, or hangman. The game's designers have also had a problem synchronising the sound with the video (no matter what I tried, I couldn't correct it). This is most noticeable when Des Lynam speaks to camera, although there were recurring problems with other graphics during the game.

The bottom line is that even if you play solo and can't answer a single question, YDKJ and its host put on a great show. But to enjoy **Result**, you will need a knowledge of sports as sound as Des Lynam's presenting abilities.

Paul Trueman



without hearing any question twice. Whether he's asking questions in up to five accents in the same sentence, or cracking risqué gags when you and your friends get it wrong, one can only marvel at the amount of time and effort taken and the seamless way it is all stitched together. In the introduction to YDKJ, a man called Murray prepares the contestants (that's you), while all the hustle and bustle of a pre-show countdown goes on in the background, before the producer's voice calls out “Lose the desktop...and...fade to black”. The graphics are perfectly in sync with the clean, crisp, sound and the effects lull you into thinking that you really are in a show. There are breaks in between questions, filled by the end of the gag from the last round, plus chatter from Jack and each question number's customised jingle (there are up to 21 questions).

In **Result** there is a similar length of time between questions but nothing to look at, other than a small graphic showing the question number, and the same burst of music is played each time.

PCW Details

Result

Price £29.99

Contact BBC Multimedia 01483 204450
www.beeb.com

System Requirements Windows 95

★★

You Don't Know Jack

Price £29.99

Contact BMG Interactive 0891 515555
www.bmginteractive.com

System Requirements Windows 95/3.1

★★★★★



p112 >

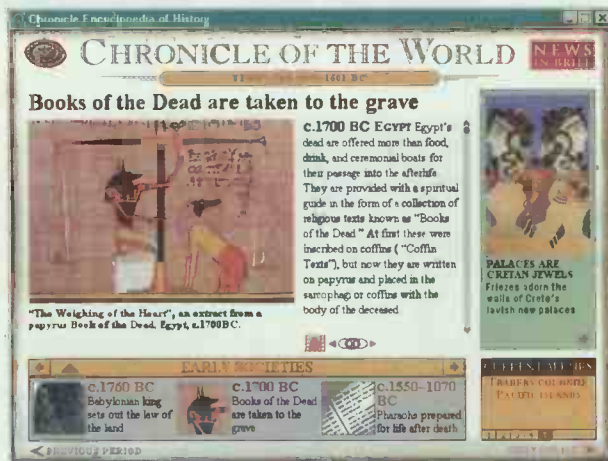
Encyclopedia of History

From man's early beginnings to the present day; you can learn history by reading the 'news'.

It's no mean feat to provide an Informative journey through history, from the first scratchings in earth's primeval swamp to that of Pathfinder and Sojourner on Mars. Doring Kindersley has succeeded.

What, for me, always let Doring Kindersley (DK) products down was the content. It was slender. A bit like nouvelle cuisine: DK titles looked good and tasted good, but hardly satisfied the hungry mind that wanted steak and kidney pud with three veg.

Lately, DK titles have been getting better and this is one of the best I have seen. It recounts the events of world history, from the earliest foraging in the antediluvian mists through to the present day, as if it were being reported in a newspaper.



The newspaper headline style lends interest to the information

This is an approach to reporting historical events that many teachers have adopted in the classroom, so the concept will be familiar to children.

At first glance, finding the information you want looks fiddly: you seem to have to click on

icons that fly through a window towards and past you. In fact, you can search for the word you want, click on it and be taken to a page where the appropriate news story can be read.

The depth of additional information is quite impressive. Clicking on "Books of the Dead" takes you to a page which explains that the Ancient Egyptians buried their dead with a book that was believed to be an instruction manual for the afterlife. From here, you can get an explanation of Egyptian religious beliefs and other information.

Overall, a useful introduction to world history, well presented in a format children will understand. Good stuff.

Paul Begg

PCW Details

Price £29.99

Contact Doring Kindersley
0171 836 5411 www.dk.com

System Requirements Windows 95

★★★★



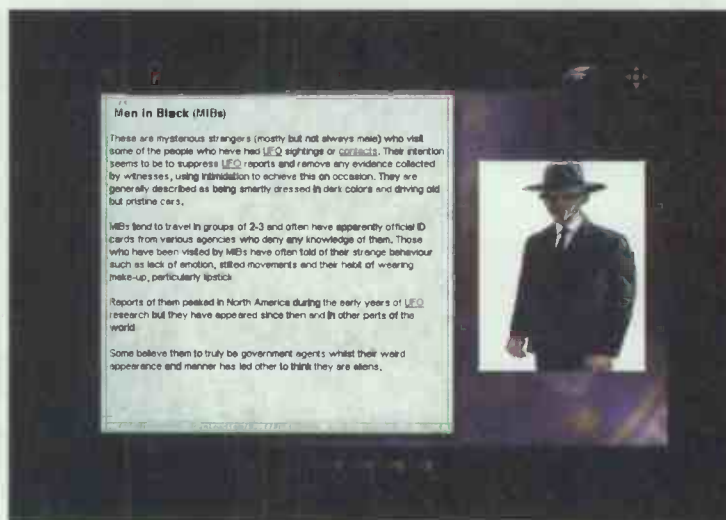
Sightings UFOpedia

Keep your eyes peeled and it's amazing what you'll see. But watch out for those Men in Black.

Sightings is an encyclopaedia-style collection of paranormal and supernatural investigation. All the topics have been taken from the American television series, US Sightings, which informs the public about a range of extraordinary phenomena, from UFO encounters to government cover-ups. This CD has been compiled from "authentic" evidence and tries hard to explain the forces behind cases such as the Roswell incident and the mystery of the crop circles.

A comprehensive database of more than a thousand global UFO sightings can be searched by location and date and includes video footage never before seen. You can link into the Sightings web site to maintain the database, and there is a facility for you to submit any sightings you may have encountered (genuine ones, please!).

This CD will appeal to all who are interested in aliens; from those with a consuming passion for the subject, to the merely curious. A lot of so-called "evidence" is brought forward and it is quite exciting to see it for yourself. The video footage of the Roswell Allen Autopsy is fun, even if it does look slightly false. There is also a 3D walk through a top-secret military base, enabling the user to gather classified information through



Many references are available, from UFOs to crop circles to the darkly mysterious MIBs

expert interviews on the Roswell incident, and a look at the possible implications of alien technology on human beings.

For all you Men in Black film-fans there is a section dedicated to them (Will Smith not included): apparently there have been many reports of strange, oriental-looking men wearing black suits and driving soundless black cars,

threatening death to those who have encountered species from other planets if they dare reveal their stories. But even after these warnings victims have told all, and the bizarre death threats have not been carried out. Is this a story of fantasy, or of cowardly men dressed in black who scare people for a laugh? Who knows, but the truth is out there!

Etelka Clark

PCW Details

Price £29.99

Contact Anglia Multimedia 0500 600191
www.anglia.co.uk

System Requirements Windows 3.1,
Windows 95 and DOS 5.0

★★★

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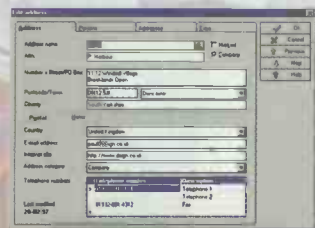
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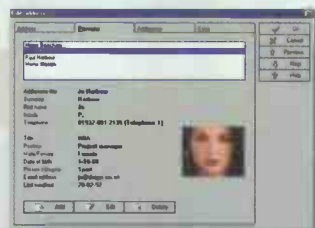
Jo Flower
 (Product Manager Avery Office Label UK)



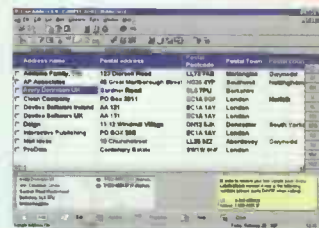
Davi-Address is a new revolutionary address management program. Incredibly user-friendly, easy, fast and complete. It does the thinking for you. No more hassle with complicated database programs or the limitations of wordprocessors. Get organized... get Davi-Address!



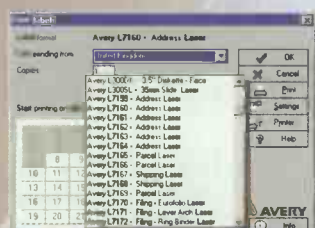
1 Clear and orderly address card. Free definable fields ensure maximum flexibility.



2 Enter multiple contacts, family members or other individuals per address.



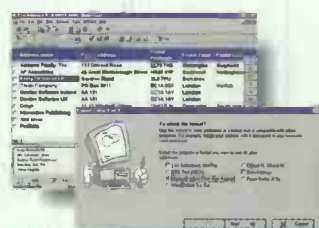
3 Easily make quick selections, searches and categories with fast toolbar buttons.



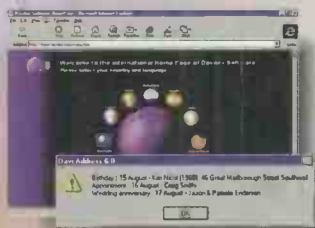
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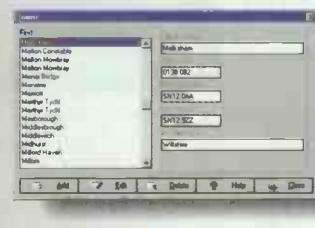
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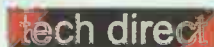
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■ Software

Monopoly Star Wars

Can you get out of a galactic jail, free? Is the Imperial Palace worth more than a hotel on Mayfair?

This is one of the programs chosen by Intel to prove that its latest processors are a match for console machines when it comes to delivering playing power. The graphics are certainly impressive.

You choose a Star Wars character to play Monopoly, which has been restaged in the Galactic Empire. Figures move around the board in a realistic 3D world and the characterisation is excellent.

Children can find CD-ROMs difficult if there are not enough clues about what to do. But with Monopoly and the Star Wars trilogy, they are on familiar territory.

Working out how to play was easy. C3PO is the banker and the computer carries out all the game functions like throwing the dice, moving pieces and overseeing the auction of property. Even though this takes away useful tasks like adding dice and counting out your move, it did speed up the game because arguments over



dice throws, or where your counter was, became irrelevant. Colonies and starports replace houses and hotels and street names become chunks of the Galactic Empire with names such as Tatooine, Endor and Dagobah.

Memories of the traditional board-game Monopoly still influenced what property the players bought. "I've got the Imperial Palace,

which is Mayfair" said one player.

In addition to the game itself, there are 200 film and music clips from the Star Wars trilogy included. Because our testers were not followers of the Star Wars cult, they clicked to omit these as they appeared. But the option to play with or without movie clips would have suited them better.

Games can be saved, and they can be played against friends, the computer or across the internet. Monopoly Star Wars seems ideal for these latter options.

Debbie Davies

PCW Details

Price £39.99

Contact Hasbro Interactive 0181 569 1234;
www.hasbro.com

System Requirements Win 95.

★★★★

Super Jewellery Kit

Jewels with a personal touch, but no precious stones. Luckily, it's the thought that counts.

Anglia Multimedia has recently brought out a whole range of PrintPak products consisting of packages with which children can be creative, using the computer. The latest one is the Super Jewellery Kit which allows children to design their own earrings, necklaces and brooches and make them into the real thing.

In addition to the CD-ROM, the contents of the pack includes Print and Shrink paper, a plastic substance form which your jewellery will be made: a small bag containing leather thongs, earring backs and butterflies, and some brooch clasps.

There is a small pot of liquid, which waterproofs your creation, and a couple of pieces of double-sided sticky tape.

The idea is to choose the item you would like to make, design it, print it out on the Print and Shrink paper, pop it in the oven for a couple of minutes and then add any fasteners you may need. It seems easy, although there are a number of hassles involved.



The whole process is slightly fiddly. Trying to cut out the design, once printed onto the plastic, was a nightmare because the material kept splitting. Baking it in the oven was nerve-racking because I was continually expecting it to explode at any time. My end result didn't look too good. PCW's Adam Evans volunteered his face to grace my brooch, but somehow I shrunk it to the size of pea. A good idea but naff and seriously overpriced — check out my brooch (pictured, left) for evidence!

Etelka Clark

To start with, you must use a colour inkjet printer (a laser would melt the special paper). Also, it is much better if you have a scanner handy, as most of the patterns are designed to take photographs. But when the accessories run out you have to pay £10 for a refill pack! I really don't think a sheet of plastic, some pieces of aluminium and a bit of double-sided sticky tape should amount to that much?

PCW Details

Price £19.99

Contact Anglia Multimedia 0500 600191;
www.anglia.co.uk

System Requirements Win 3.1 or Win95. Mac 68030 or better. PowerMac 7.1 or better.

★★

■ Software

Chaos Island

The words "research" and "strategy" don't usually spell fun but this CD-ROM breaks the mould.

As a merchandise platform, Jurassic Park has simply run and run. How well does it transfer to CD? Very well, according to the enthusiasm of our testers.

Chaos Island is a strategy game based on the idea of researchers stranded on a remote island inhabited by dinosaurs. This time it is Isla Nublar, where our team of scientists pit themselves against enemy dinosaurs and evil hunters in a fight to save the island and their research.

Chaos Island owes much to the films Jurassic Park and The Lost World. Celebrity voices include Jeff Goldblum as your lead scientist and Vanessa Lee Chester as Sarah, his girlfriend.

What makes the game a success is the innovative way in which players breed dinosaurs and co-opt them onto their team. Having selected your team members, your first task is to



establish base camp, find supplies and the artificial nest and begin hatching eggs. Your decisions have a strategic dimension such as: where to build camp, which team members to send out on scouting missions, whether to breed herbivorous dinosaurs who will clear the vegetation or carnivores who will fight enemies and hostile dinosaurs.

As well as strategy, the game tests directional and map reading skills. Colour coding is used to signify the location of friendly dinosaurs, supplies, and enemy hunters and dinosaurs. When team members tire, you return them to base camp to rest. When carnivorous dinosaurs flag, you prepare dinner by shooting a few enemy hunters.

There are 12 missions, each with three difficulty levels. As each becomes more treacherous, the enemy dinosaurs get bigger and more terrifying. Once our testers had overcome their qualms about feeding dead hunters to the dinosaurs and nicking dinosaur eggs, they couldn't get enough of this game.

Debbie Davies

PCW Details

Price £29.99

Contact Microsoft 0345 002000;
www.microsoft.com

System Requirements Win95.

★★★★★

How does it work?

Had you ever wondered how a toaster pops up a pop-tart? — No, neither had we, until now.

A favourite theme of science fiction is postulating some disaster which leaves people without the trappings of modern civilisation and wondering how they would cope.

Could they make something as simple as a match? It is a fascinating concept because most people are profoundly ignorant about how everyday things work. Once you realise that you haven't got the faintest idea how, say, a video camera works, your curiosity makes you want to know. And that's the appeal of this CD which explains how more than 100 everyday things work; from a lavatory to your video.

The explanations are short and not particularly clear and, given that school-age children are possibly more likely to turn to this CD-ROM than their parents, this is a fairly major mark against it.

In case I am thicker than I think I am, when I say the explanations are not clear, I have in mind the following, which I didn't find in the least enlightening: "Focuses light onto a target plate covered with a layer of photoconductive material that conducts varying amounts of electricity, according to the amount and colour of the light that shines onto it. The photoconductive material is scanned point-for-point across the plate by



electronic circuitry, and the image on it is coded into a stream of electrical signals." This explains how a camcorder works? Not to me it doesn't! However, not all the explanations are this complicated and it is fun to see how the more simple things work, such as a door lock or how an electric toaster pops up the toast.

All 100 objects are found in the rooms of a 3D walk-through house, which is fun for kids to use as it encourages knowledge through exploration. If you just want to see how the loo works, there's

an index, from where you can go straight to it.

The video animations showing how each object works were very good but there was no way in which you could copy a picture or the text to another document (for inclusion in a school essay, perhaps).

Paul Begg

PCW Details

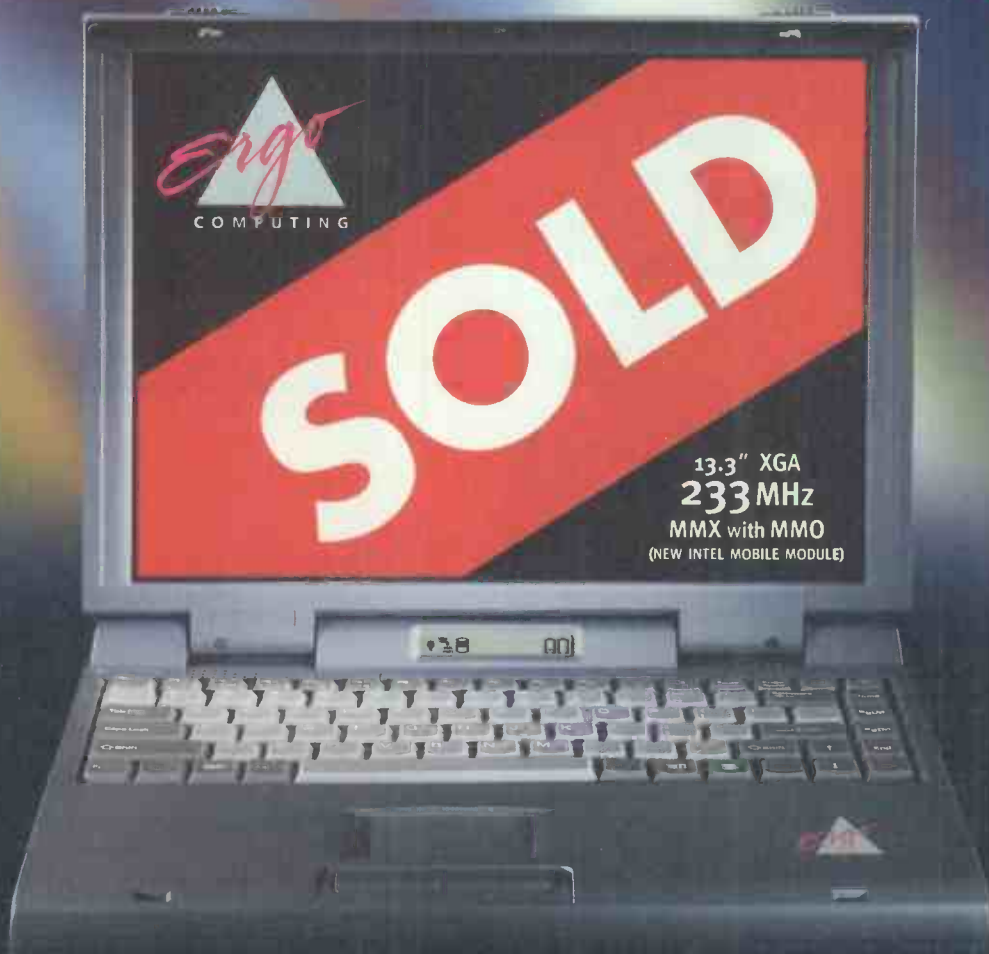
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Senior Lecturer in Business
Information Systems Management

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Great Minds Think Viglen

■ Hardware

HP DeskJet 500

This printer has gone the distance and has shined in almost every respect. And it's still going strong.

Back in 1991, I decided to upgrade my 9-pin Star LC10 dot-matrix printer. I noticed that the HP DeskJet 500 had been highly acclaimed in nearly every review. This was very encouraging, and prompted me to buy one.

For some strange reason, my greatest reservation at the time had been its lack of support for continuous-feed paper. Now, I can't even remember why this was a such a concern. Like most people, all I use at home are A4-sized sheets of paper.

The other main contender back then had been the Canon BJ-10C, but its portable design lost out in favour of the solid build of the DeskJet 500, with its integral sheet feeder. I am certain that this sturdiness has been the main reason why this printer has had such a long and productive life, outliving three PCs.

Compared to today's models, this isn't a fast machine. A speed of 4ppm is quoted, but this is only achieved when printing text using the internal fonts. Luckily, speed was never a major concern of mine. Quality of output is more important, and



the DeskJet 500's output has always been high enough for me, which is one of the reasons why I have kept it for all these years. Its 300dpi output, while relatively low in comparison with some of today's offerings, is still good enough for printing general correspondence or reports.

Unfortunately, the quality of its monochrome half-toning is poor, making it unsuitable for printing true colour bitmaps. Mostly, I stick to printing text, line-art and vector images.

The other main reason for my devotion to the DJ500 is its compatibility with everything, from DOS to the latest Windows applications. Even my Psion 3C has a driver for it. Also, I have no trouble getting hold of consumables. Because of the Hewlett-Packard name, these are available over the counter in most high street stations.

KD Brent

PCW Details

Price Discontinued (£499 plus VAT in 1992)

Contact HP 01344 369222 www.hp.com

Good Points Reliable. Highly compatible. Availability of consumables.

Bad Points Resolution. Colour support.

Conclusion A good second-hand bet.

★★★

6 MONTH TEST

■ Hardware

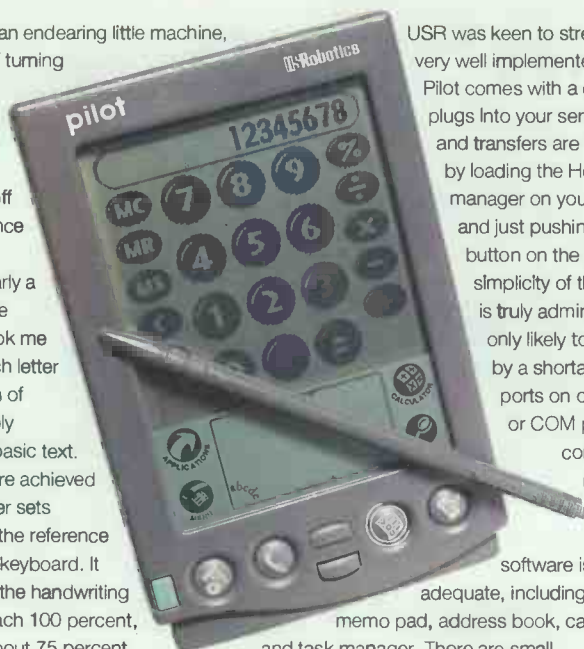
US Robotics Pilot 5000

Did this Pilot pass with flying colours, crash land, or never get airborne in the first place?

The Pilot is an endearing little machine, capable of turning heads

with its pen input and compact design. The "Can I have a go?" crowd can be staved off easily with their ignorance of Graffiti, but this language barrier is clearly a concern for prospective users. In practice, it took me seconds to master each letter and a few hours' worth of fiddling to be reasonably confident with writing basic text. Extended characters are achieved by two shifted character sets which can be seen on the reference card or on the pop-up keyboard. It has been claimed that the handwriting recognition can approach 100 percent, but I usually achieve about 75 percent.

Connectivity to the desktop is a feature that



USR was keen to stress and it is very well implemented. The Pilot comes with a cradle that plugs into your serial port, and transfers are conducted by loading the HotSync manager on your desktop and just pushing the button on the cradle. The simplicity of this system is truly admirable and is only likely to be upset by a shortage of serial ports on older PCs or COM port

conflicts with modems.

The supplied software is merely adequate, including a diary, memo pad, address book, calculator and task manager. There are small disappointments in the calculator which has no

scientific functions, in the memo pad which can not store more than 4,096 characters including spaces, and in the pitiful alarm. These limitations can be overcome by third party software, which is easily available on the Internet and simple to install with HotSync. Additional functionality can also be added by third party fax, database and money management programs.

Aiden (surname not supplied)

PCW Details

Price Product no longer available. Pilot Personal £219 (£186.38 ex VAT); Pilot Professional £299 (£254.47 ex VAT)

Contact US Robotics 01734 228200 www.usr.co.uk

Good Points Battery. Size. Weight. Connectivity to the desktop.

Bad Points Software. Low quality of supplied stylus.

Conclusion Truly pocket-sized, and easy to use.

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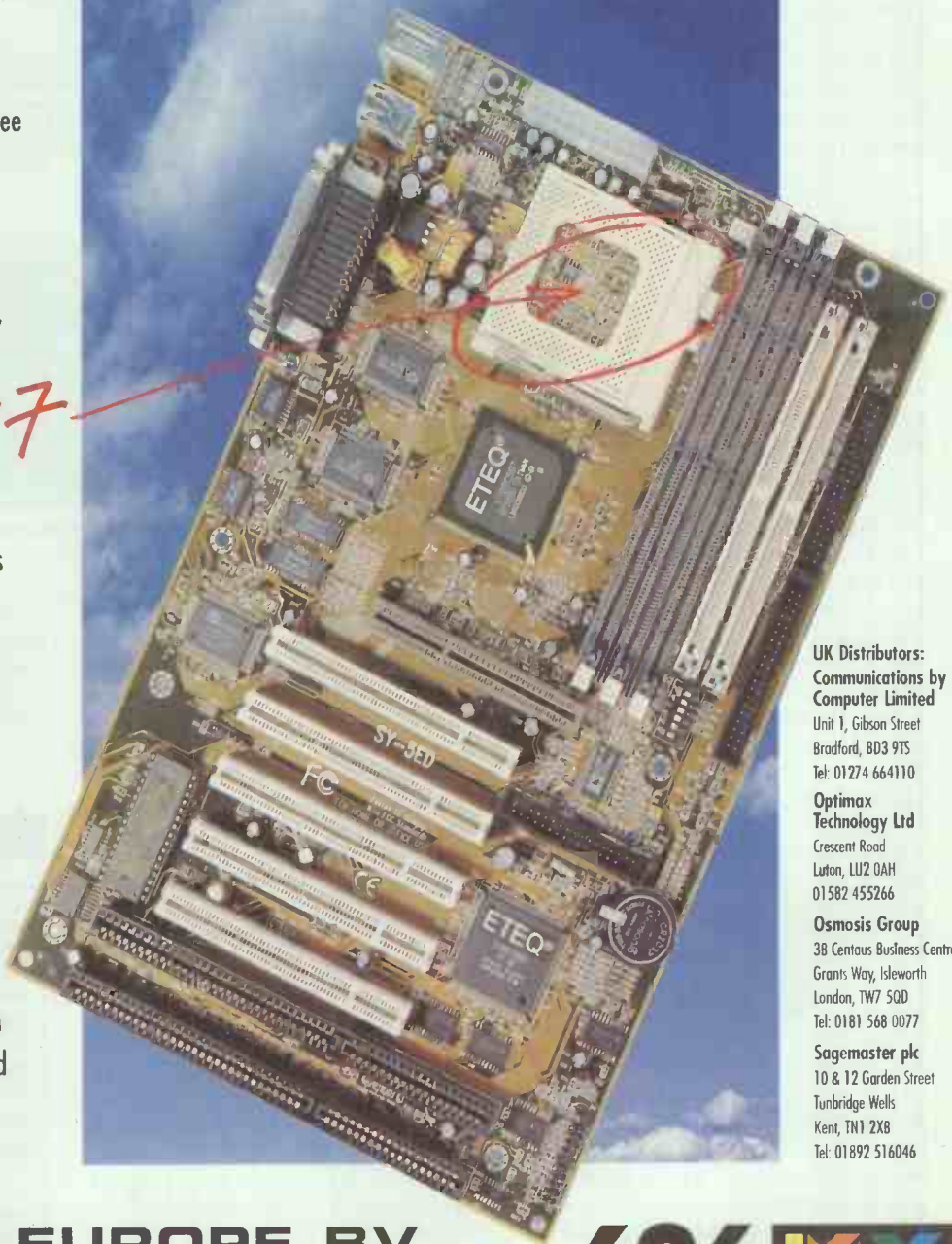
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Software

Delphi 3

A quick-as-a-flash compiler and object-orientated programming on tap. Watch the Help files.

Delphi is a visual programming language, competing directly with Visual Basic. I've been using Delphi since version 1 and have been using Delphi 3 for the past six months.

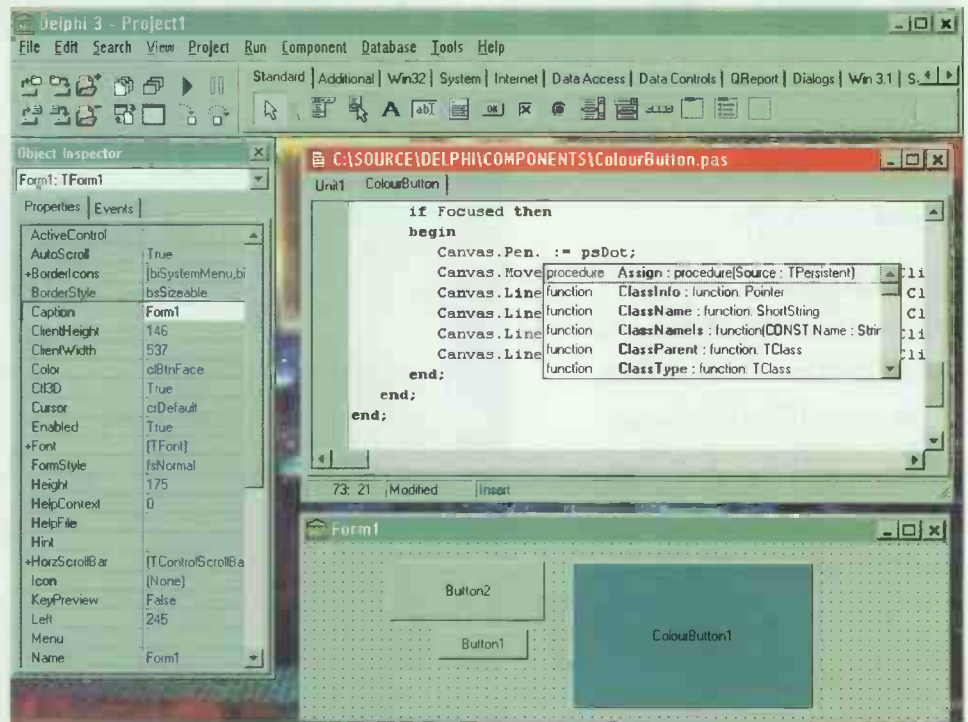
Delphi 3 and Visual Basic 5 have very similar features, but Delphi has one great advantage for programmers trying to write reusable, maintainable code. It is object-orientated, and has been built from the ground up as an object-orientated tool, not as an afterthought.

The Visual Component Library (VCL) encapsulates all the Windows controls in easy-to-use components. Borland has been quite poor at encapsulating some of the Windows 95 controls such as the Rich Edit and List View controls, but if a VCL component doesn't contain some of the functionality you require, it's simple to derive your own component, add the functionality you require and install it back into the Component Palette.

Another object-orientated feature that initially seemed to be a bit of a gimmick is form inheritance. Now, after using this feature, I've realised how useful it can be. For example, I have a dialog box form from which every other dialog box is derived. Now, if I'd like to make a foreign language version of my software, I'll need to change the wording on the OK and Cancel buttons. With form inheritance, I can just change the wording in the base dialog box form and that's it. A bit easier than changing it in 20 to 30 places, don't you think?

Also gimmicky but useful is the Code Complete feature. Type in the name of an object and a list of its properties and methods will appear. Click one of the methods and tool tip will show the parameters taken by the method. This saves traipsing through the help files, which have been notoriously bad since release 1 and have not improved tremendously.

Delphi comes with a native code compiler, which must be the fastest compiler of any development tool. This means, for simple projects, all you need to ship is the EXE file. However, if you require database support, you'll need to ship the Borland Database Engine. The code produced does seem to be quite large, compared to that produced by products such as Visual C++.



Fast worker: Delphi has a very fast code compiler, and is the best visual programming tool around

On the downside, Delphi 3 does seem to be a little less stable than its predecessors are. Often, after a bug has occurred, it's necessary to leave Delphi and come back in again. Fortunately, I haven't lost any of my code yet.

Overall, I continue to be hugely impressed by Delphi. I can't think of one example where I have been unable to achieve something because of the limitations of the tool. It usually comes down to me being stupid or Windows preventing me from doing what I want to do. Some people are of the opinion that Delphi is harder to learn than Visual Basic, but I don't know if this is true. If you're likely to be coding from within Word, Excel etc., then using Visual Basic as your sole programming language may make sense.

Delphi comes in three flavours — Developer, Professional and Client/Server. Unless finances are stretched, I would recommend the Professional version, which provides the source code for the VCL. This is an invaluable resource, for tracing through to find bugs and also to pick up coding tips. All the versions also come with a free copy of Delphi 1, which means you can continue to develop 16-bit software, if required.

If you're put off by the thought of Pascal,

there is always C++ Builder, which is almost exactly the same as Delphi but uses C++ as its language. In terms of what PC you'll need to run Delphi, I wouldn't recommend trying it on anything less than a Pentium-class CPU and at least 16Mb of RAM.

Chris Bell

PCW Details

Price Learn To Program version £49.95 (£42.51 ex VAT); Standard version £89 (£75.74 ex VAT); Professional version £468.82 (£399 ex VAT); Client/Server version £1,526.32 (£1,299 ex VAT)

Contact Borland 0800 454065
www.borland.com.uk

System Requirements Windows 95, Windows NT 3.51 or higher.

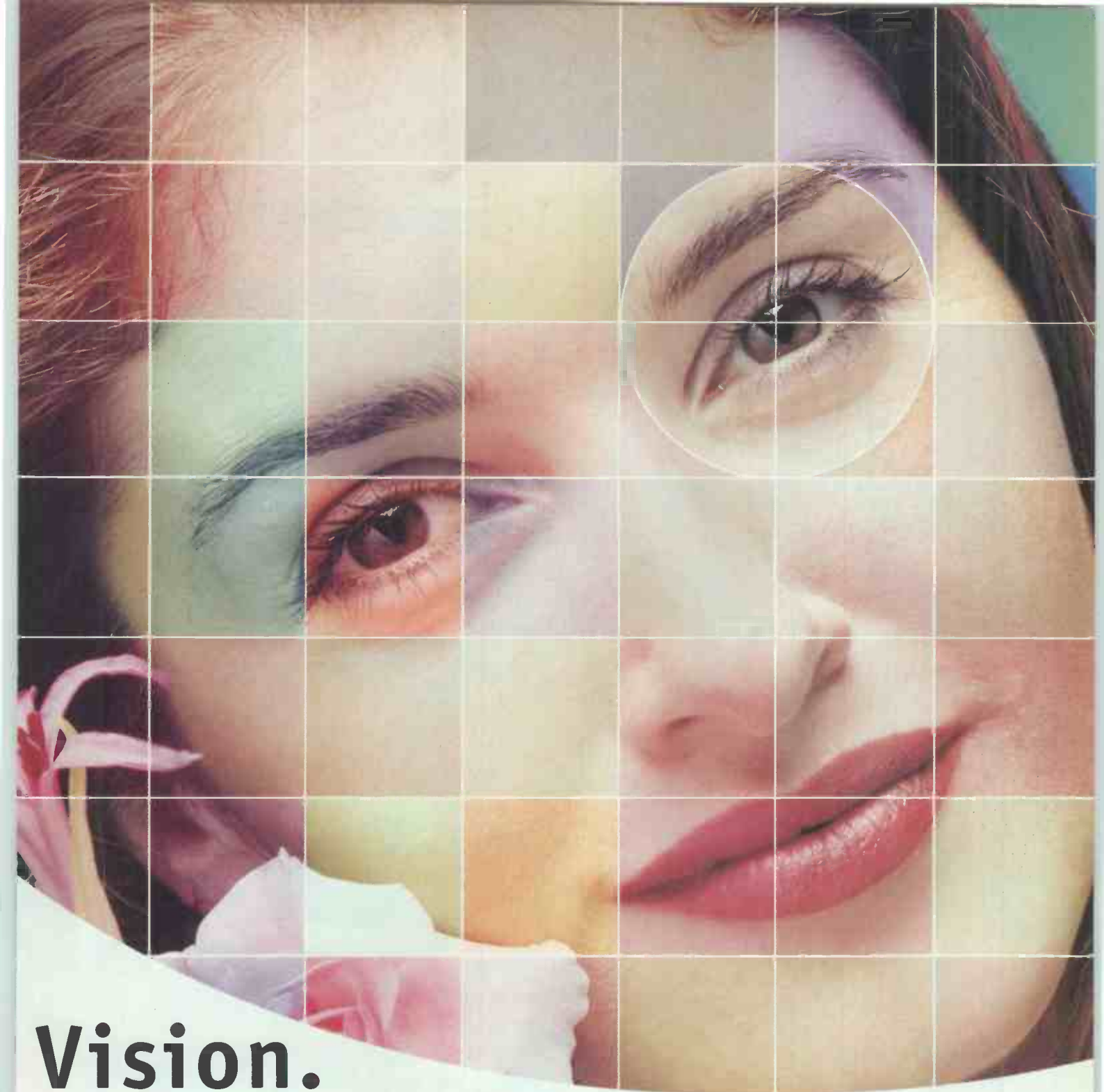
Good Points Object-orientated programming. The fastest compiler I've seen.

Bad Points Help files are poor.

Conclusion Still the best visual programming tool on the market. Possibly consider using VB if you're going to be writing code in Office applications as well.

★★★★★

We welcome readers' contributions to Long Term Tests and pay for those we publish. If you've used a piece of hardware or software for some time, write a 300-word piece for hardware or 650 words for software (plus GIF-format screenshot for the latter) and send it on disk in MS Word or ASCII format, to Lynley Oram at the usual PCW address, marking your envelope "Long Term Tests". Or email it to lynley_oram@vnu.co.uk.



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In high spirits

Everything from PCs and inkjets to games and CDs are tested in the *PCW* sleigh this year. Plus, the dream team give their wishlists.

There's no mistaking this time of year: nights draw in, snow begins to fall, festive TV specials are compiled and the streets are packed with frantic shoppers. But why get pushed around the stores when you can choose and buy everything you want from the comfort of your warm armchair? We thought that sounded sensible, so we compiled this festive feature packed with everything you want for Christmas.



First up is our regular PC group test, testing computers designed for the home. We asked five retailers and five direct suppliers to send us a machine with all the jingle bells and whistles they could muster for less than £1,699 (ex VAT).

We just couldn't wait another six months to look at colour inkjet printers again, so here we've rounded up nine top models. Some are familiar faces from previous reviews, others are brand new. It's a competitive fight for the colour crown but we've found a winner. Rudolph's red nose has never been so bright.

The winter months are a perfect time to snuggle up with a cosy game. Our regular Screenplay section has been fattened for the season and seconded into our Christmas special. With no less than eight games, including first looks at Tomb Raider II, International Rally Championship and Fin Fin, we've got something for everyone. And to make sure you stand the best chance of beating the bad guys or winning the race, we've gathered together a handsome selection of joysticks, gamepads and wheels that make perfect stocking fillers.

We've also rounded up the best encyclopedias and reference CDs of the year, along with the kids stuff that may appeal equally to adults.

And if you're lacking inspiration, check out our personal recommendations. Yes, five members of the *PCW* team can't wait to tell you what they want for Christmas, so let's hope Santa's taking note.

Packed with seasonal spirit and without a humbug in sight, this is your one-stop Christmas superstore.

Home PCs Contents

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Contributors

Home PCs Lynley Oram and Paul Trueman. Colour inkjets Nik Rawlinson. General features Gordon Laing, Dylan Armbrust, Adam Evans, Adele Dyer, Clive Akass, Etelka Clark, Paul Begg, Debbie Davies

Ratings

- ★★★★★ Buy while stocks last
- ★★★★ Great buy
- ★★★ Good buy
- ★★ Shop around
- ★ Not recommended

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Atlantic Proteus Office (DIRECT)

Proteus Office isn't a promising name for a home PC. However, Atlantic has spruced up this machine with a few goodies to appeal to most home buyers, such as a 266MHz Pentium II processor and 32Mb SDRAM. Atlantic scored major brownie points for using the excellent AWE64 Gold sound card which, in our opinion, no home PC should be without. Oddly, the AGP slot has been left empty, with a PCI 3D graphics card used instead.

Setting up was fairly straightforward, although the Proteus had a few problems. First we were confronted with a stubbornly blank monitor. Quickly opening the case revealed a graphics card that, while screwed in, wasn't properly seated in its slot so no connection was being made.

Annoyingly, the mouse that shipped with the system didn't work properly, and after some time spent fighting to move the cursor about the screen, we switched to another one.

Our troubles didn't end there. The 6.5Gb Quantum Fireball hard drive, which had been making noises similar to heavy



industrial equipment, failed before we were able to run the Quake test. Luckily, before it packed in, we managed to run the monitor test, check out the modem and put the system through the BapCo benchmark.

Should this happen to a client, Atlantic assured us that an engineer would be despatched as soon as possible. Good news for home users is that Atlantic will make appointments for evenings and weekends, but the technical support line is still only open 9-5, Mon-Fri.

The software package is excellent, with something for everyone, such as Desktop Lawyer and World Book Multimedia. The IBM Simply Speaking package is great for those who can't type/won't type, and a headset with microphone has been included.

Monitor ADI 15in Provista E40, with 13.5in viewable and an EPA Energy Star rating. As the monitor holds the German TUV standard, it is also MPR II compliant. It suffers from more moiré than we would like, but images are crisp and colours vibrant, and the screen regulation is excellent.

PCW Details

Price £1,976.33 (£1,699 ex VAT)
 Contact Atlantic 0990 134725
www.atlanticsystem.com/sys/
 Good Points Sound card. Software.
 Bad Points Hard drive failure. Unseated graphics card. Mouse.
 Conclusion This machine should never have left the factory.
 Build Quality ★
 Performance ★★★
 Value for Money ★★★
 Overall Rating ★★

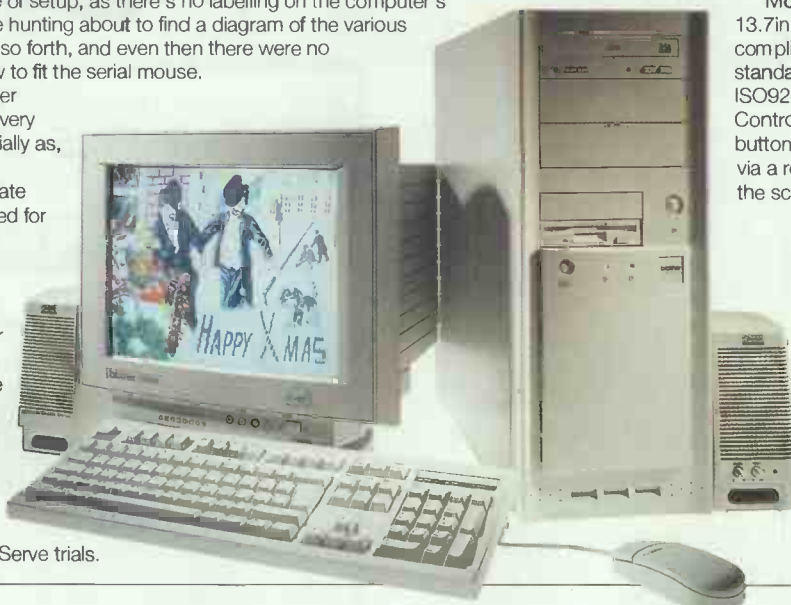
Brother Professor PII (RETAIL)

Brother sells via a slightly different retail channel than the other retail manufacturers in this group test. Its PCs are available in electricity showrooms and independent stores throughout the UK, but you won't find the Professor PII in places like PC World or Dixons.

To catch a consumer's eye, and hopefully his or her wallet, manufacturers of retail computers normally spend a fair chunk of their budgets on developing stylish designs. Not so with this system, which comes in a tall, non-descript case.

Along with design, Brother could also do with investing some thought into ease of setup, as there's no labelling on the computer's rear. It took some hunting about to find a diagram of the various connections and so forth, and even then there were no directions on how to fit the serial mouse.

A first-time user could find all this very confusing, especially as, on startup, the Windows 95 update driver wizard asked for the installation of missing USB drivers. There is nothing in the way of support or help for connecting to the internet and getting online, except for the usual round-up of online services such as AOL and CompuServe trials.



On a bizarre note, the 24-speed CD-ROM had been allocated the drive letter Z, which isn't a problem in itself, but it does add to the overall feeling of confusion.

There's so much space under the lid of this system that even the Pentium II 233MHz CPU looks lost, and you won't have any problems installing full- or three-quarter-length cards. Brother has installed an AT! Xpert@Work card in one of the four PCI slots. This is a great card, but a curious choice as it leaves the AGP slot unused. Sound is on the motherboard, provided by an excellent Yamaha OPL3 chipset.

Technical support is offered during office hours only.

Monitor A 15in Brother BM86, with 13.7in viewable, and EPA Energy Star compliant. It also carries the international standard for monitor ergonomics, ISO9241:3. Focus could have been crisper. Controls, including a manual degauss button, are not on-screen but are accessed via a row of buttons across the bottom of the screen.

PCW Details

Price £1,750 (£1,489 ex VAT)
 Contact Brother 01279 416888
www.kyodai.brother.co.uk
 Good Points Price, Build quality.
 Bad Points Lacks ease of setup.
 Conclusion A great machine, but not really suitable for an inexperienced user.
 Build Quality ★★★★★
 Performance ★★★
 Value for Money ★★★
 Overall Rating ★★★

Compaq Presario 4526 (RETAIL)

Retail PCs traditionally come better equipped in terms of software and manuals than their off-the-page (OTP) rivals. The Compaq Presario is an exception, with only the basics offered in terms of manuals, and an unimaginative software bundle. Titles like Encarta 97 and Creative Writer 2 do not a wild time make, and were not installed on the PC.

A fairly skinny selection of software had been pre-installed. There's the usual Windows pack, an online version of SimCity2000, some MS Office and Money applications. If you buy the Presario 4526 before 31 December this year, you will receive an additional complimentary software bundle worth £1,000. Users will have to use MSN to connect them up to the internet, as there are no introductory CDs or other pre-installed online services to help you out.

That said, this was one of the easiest PCs to set up, with colour co-ordinated leads and sockets. The tower case is impressively compact and moulded into an attractive retro-rocket look.

Praise should go to the designers of the Compaq tower, who have packed every square inch of space with the necessary components. It looks well thought out, but



unfortunately, upgrading your Presario is out of the question. This machine was not designed for users to open up and fiddle about in, installing their own kit. In fact, it's hard to find the different components in there, let alone replace them, or install more.

Compaq includes most of its Presario range of hardware in the package, and it suffers in this respect. It means that the PC is fitted with a Presario 56K modem, but the mouse is of a poor standard.

The Presario CD-ROM is an odd, trayless one. Having to push CDs into the fur-lined drive rather than place them on a tray, means that if you forget you already have a CD in the drive, you risk damaging them.

Monitor Compaq 1525 15in, with 13.5in viewable. It has a good volume knob that doubles as an on/off switch. Picture quality is poor and badly focused. Bizarrely, the picture is worse in the middle of the screen than on the edges, resulting in badly blurred text that is guaranteed to give anyone a headache.

PCW Details

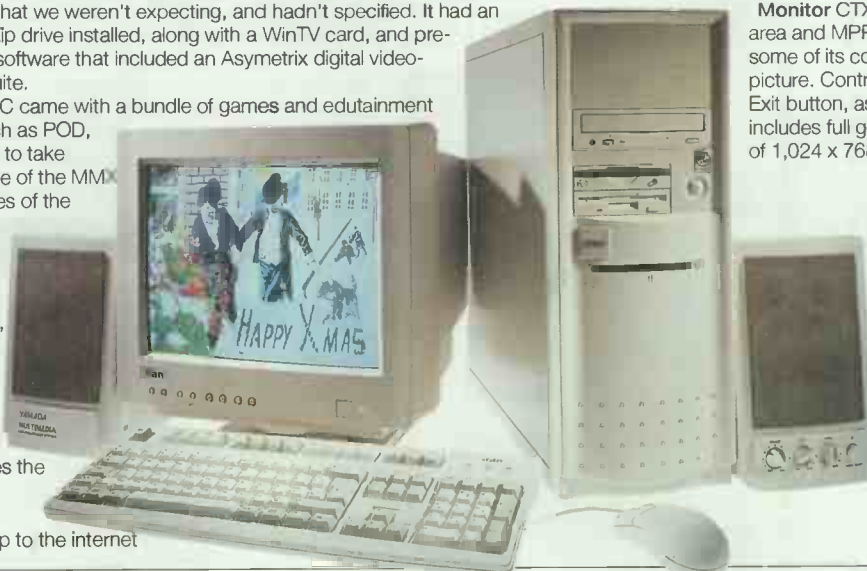
Price £1,799 (£1,531 ex VAT)
 Contact Compaq 0845 2704000
www.compaq.co.uk
 Good Points 56K modem. Attractive casing.
 Bad Points Poor-quality picture. Limited upgradeability.
 Conclusion Good software offer.
 Easy setup.
 Build Quality ★★ ★★
 Performance ★★ ★★
 Value for Money ★★ ★★
 Overall Rating ★★ ★★

Dan Dantum II (DIRECT)

The Dantum II from Dan is typical of the off-the-page PC: bland in appearance and designed with no flair or feel for aesthetics. However, it purrs along like a turbo-charged Rolls Royce, and when a PC performs with so much power and speed, who would care if it looked like a breeze block?

Like some of the OTP computers we saw, this had a powerful Pentium II 266MHz CPU. Dan has fitted this model with some particularly impressive components, considering the price. There's an ATI Xpert@Work AGP card, a 56K PACE modem, and a Creative Labs AWE64 sound card to go with the bass-heavy 160W Yamaha HA-107 speakers. The Dantum II scored extra points for including bonus goodies that we weren't expecting, and hadn't specified. It had an Iomega Zip drive installed, along with a WinTV card, and pre-installed software that included an Asymetrix digital video-editing suite.

The PC came with a bundle of games and edutainment titles, such as POD, designed to take advantage of the MMX capabilities of the machine. A round-up of the usual suspects, like Encarta and Creative Writer, completes the software bundle. Linking up to the internet



was simplicity itself, as there was a custom-made CD included that did all the necessary hard work. It took just a few minutes to connect, using Pipex as the online service. There was also the option to go online with either the pre-installed AOL or CompuServe trials.

The interior was the epitome of order and planning, with all offending leads taped up and out of harm's way. There were two free DIMM slots, so a user could triple the 32Mb of SDRAM already installed at a future date. There's room for another two PCI cards, and two internal free 5.25in bays to go with the single free external 3.5in.

Monitor CTX 1569 15in with a 13.8in viewable area and MPR II compliant. Not as generous as some of its competitors, but it did give a good picture. Controls are on-screen, with a separate Exit button, as well as an options menu that includes full geometry controls. It ran a resolution of 1,024 x 768 at a refresh rate of 75Hz.

Personal Computer World
Editors Choice

PCW Details

Price £1,991 (£1,694 ex VAT)
 Contact Dan 0181 830 1100
www.dan.co.uk
 Good Points Very impressive hardware. Easy Internet access.
 Bad Points Monitor could have been bigger.
 Conclusion What a piece of work is a Dan?
 Build Quality ★★ ★★ ★★
 Performance ★★ ★★ ★★
 Value for Money ★★ ★★ ★★
 Overall Rating ★★ ★★ ★★

HP Pavilion 8110 (RETAIL)

Personal Computer World
Highly Commended

Hewlett-Packard has come up with the ultimate in handholding computing with its latest Pavilion 8110. All the connections are colour coded, and there's even a beautiful, colour laminated wallchart to guide you through the process. Starting up the PC also launches a software package that takes you step-by-step through using your new computer, even down to getting you hooked up to the internet.

The user's manual is so easy to use and comprehensive, it even includes the PC equivalents of how to boil an egg, like what to do when you get a non-system disk error. The system configuration includes an Intel Pentium 200MHz MMX processor, a 2.5Gb hard drive and 32Mb RAM. Even after hours of use, the huge fan and vent located over the CPU kept everything cool to the touch.

HP misses the mark by a mile in the fashion stakes, having taken as read that grey is the new black. However, it has put a lot of effort into designing this PC, and while the mini tower is huge, it is the sort of machine you could leave in the living room to wow your mates with.

For a retail machine, the price tag of £1,452.30 (inc VAT) is reasonable. The keyboard is colour co-ordinated to go with the monitor. Controls for the CD-ROM, such

as play, rewind, volume, and the ever-important mute, are located on the keyboard, which is colour co-ordinated to go with the monitor. There are also buttons for accessing various functions such as the internet and your favourite software programs. As the Pavilion is aimed at the novice user, HP has already installed a cut-down SCSI card, so devices like scanners can be plugged in without opening the PC. It is little touches like this that make this PC stand out from the retail crowd.

Monitor HP Pavilion Multimedia 15in, with 13.8in viewable area. It is both EPA Energy Star and MPR II rated. Controls are on-screen, with the usual adjustments complemented by colour temperature controls. It's capable of handling a non-interlaced resolution of 800 x 600 at 85Hz refresh rate. The picture is crisply focused, with good, vibrant colours.



POW Details

Price £1,452.30 (£1,236 ex VAT)
Contact HP 0121 766 5559
www.hp-cpo.com
Good Points Ease of use. Price. Tech support.
Bad Points A little slow.
Conclusion Ideal for the budget-conscious, with nice extras.
Build Quality ★★★★★
Performance ★★
Value for Money ★★★★★
Overall Rating ★★★★★

Hi-Grade Axion PR11 266 (DIRECT)

Personal Computer World
Highly Commended

This may not be the most attractive case we've ever seen, but the Axion PR11 266 has personality. Housed in a large case and accompanied by the latest ADI monitor, the Axion PR11 266 hulked on the bench in the VNU Labs like a prize fighter, throwing threatening looks at the other PCs. Inside, it certainly had the muscle to back up the threats, with a Pentium II 266MHz CPU backed up by 32Mb of SDRAM housed in one of three DIMM slots.

We were most impressed by the use of an LS-120 instead of a 1.44Mb floppy drive. This piece of kit does the job of two devices: it will run your old 1.44Mb floppies, but it also takes proprietary disks which can store just under one hundred times as much data. Mind you, the LS-120 isn't as fast as the ZIP drive, so you'll need a little patience when backing up those big files. It makes an excellent storage device.

Hi-Grade has made the most of the capabilities of

the Intel 440LX chipset by

installing an AGP graphics card, the ASUS V3000. This card uses the NVidia graphics processor, a chip which has proved exceptionally fast in tests. In the VNU Labs, it managed to help the pull the Axion way ahead of the competition in the Quake test. Getting online is a piece of cake, using the Hi-Net CD-ROM which accompanies the system. Just plonk the CD into the 24-speed Teac CD-524E and follow the on-screen instructions. Piece of cake.

There's a range of family-orientated software packages which should keep the entire family occupied on Christmas Day, including Lotus SmartSuite 97 and games like Network Q and RAC Rally Championship. The copy of IBM Simply Speaking Gold is a nice touch, as is the headset with microphone included in the box.

Monitor ADI Microscan 5P 17in, with 15.6in viewable, plus EPA Energy Star and MPR II compliancy. It has an optional USB port and the usual range of on-screen controls, including manual degaussing. Colours are vibrant, the picture is crisp and sharply focused. A



POW Details

Price £1,996 (£1,699 ex VAT)
Contact Hi-Grade 0181 532 6111
www.higrade.com
Good Points LS-120 drive. AGP graphics card.
Bad Points No technical support weekends/evenings.
Conclusion Loads of features for the price. A great gaming PC.
Build Quality ★★★★★
Performance ★★★★★
Value for Money ★★★★★
Overall Rating ★★★★★

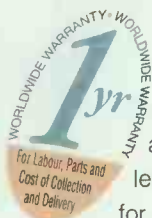
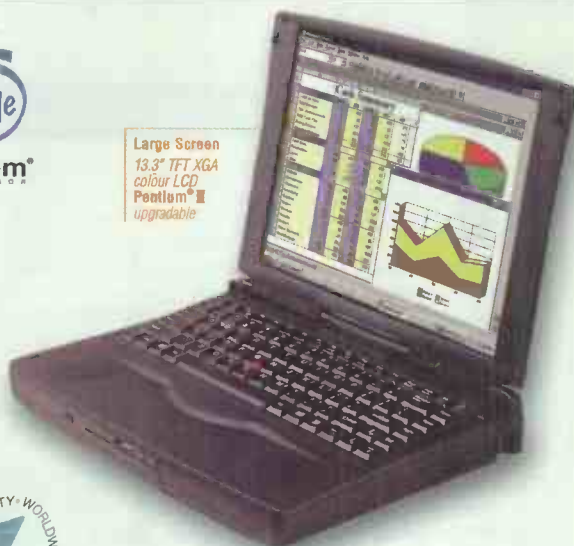
Infinite upgradability means that when other notebooks grind to a halt the Notino AS6000 will still be a winner

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2Mb 64-bit SVGA	2Mb 64-bit SVGA
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Li-ion 60W smart battery (4hrs)	Li-ion 60W smart battery (4hrs)
	33,600bps data/fax modem

Standard Notino AS6000 features
Intel 82439TX PCiset • track-point • two PC-Card slots (support zoom video mode) • diagnostic instrument to check system's voltage/ temperature/ fan status • auto tilt-up 300mm keyboard with desktop-like 19mm pitch keycaps • 16-bit 3D sound • ports: parallel, serial, USB, FIR, games, external monitor, external keyboard, TV out, microphone, line-in, line-out, external speaker • dimensions: 322mm x 245mm x 50mm • 3.6Kg weight • Windows 95.



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Packard Bell Pulsar 20 (RETAIL)

If you like neo art deco kitsch, you'll love the Packard Bell Pulsar 20. It's a welcome colour change to beige, with the orange/green case resembling the curved front of The Flying Scotsman. The back of the tower case is as brightly decorated as the front, with coloured leads and corresponding sockets.

This PC seems truly aimed at the family market. Packard Bell has pre-installed its own desktop navigator, a rather twee virtual house integrated with all the software in the system. Want to learn something? Click on The Study, and you've got access to all the reference titles that are included in the computer's software bundle. If you're looking for a PC package that will hold your hand down that mysterious information superhighway, then the Pulsar is for you.

Whereas some retail machines are designed never to be opened up, this model had lots of space inside, with an accessible motherboard and three free PCI slots. The NEC 24-speed CD-ROM and floppy drive are nearly impossible to get to. There is room for expansion though, with internal bays — one free 3.5in and two free 5.5in. The Pulsar 20 scored points for



packing a 33.6K US Robotics modem. It also has an on-board graphics processor, ATI's 3D Rage II.

While this computer has some impressive components, it is let down by having only 16Mb RAM and 256Kb pipeline burst cache memory. A bit skimpy for a Pentium 200MHz MMX, considering that most other retail machines managed to get in 32Mb RAM.

The Pulsar comes with a more imaginative bundle of CD-ROM software than some of the other retail PCs we saw. It ranges from out-and-out fun titles like MDK and Fifa97, to the more esoteric Musée d'Orsay Impressionism CD.

Monitor The 15in 5480, with 13.8in viewable, loses focus towards the centre of the screen. Controls aren't on-screen but they are easy to use, and there's a self-test feature for the cautious. It's capable of a resolution of 1,024 x 768, with a refresh rate of 85Hz. This isn't worth trying though, as text is too fuzzy to read.

PCW Details

Price £1,499 (£1,276 inc VAT)
 Contact Packard Bell 01628 508200
www.packardbell/europe.com
 Good Points Imaginative design. In-depth manuals. Easy internet access.
 Bad Points Unpleasant screen. Tinny Speakers. Nasty buttons on tower case.
 Conclusion Will suit the family keen to discover what all the home PC fuss is about.
 Build Quality ★★★★★
 Performance ★★★★★
 Value for Money ★★★★★
 Overall Rating ★★★★★

Roldec Predator (DIRECT)

The Predator sports a 300MHz Pentium II CPU, but for all the potential speed and power that implies, this PC got off to an ignominious start. When we switched the PC on for the first time, we were greeted by the horrifying phrase, "No operating system found". For the novice or first-time PC user, this could be a daunting hurdle. But we typed in the command c:\win and that seemed to do the trick, as we didn't see the message again during any subsequent startups.

The Predator was one of the most impressively appointed PCs we looked at, with a 17in Princeton monitor, a 4.3Gb Quantum Fireball hard drive, a US Robotics 33.6K modem and an AGP Xpert@Work graphics card. Sound is via an on-board Yamaha OPL3 chipset. The Labtec LCS800 speakers were a severe disappointment, considering the high standard of components and peripherals that Roldec has assembled here.

With such a weedy sound, serious gamers, and users who like listening to audio CDs while they work, may want to make their own selection.



There's plenty of room for upgrading, with three free PCI and two vacant ISA slots inside a tidy, ordered tower case. As for the outside, well, let's just say that the "Intel Pentium II Inside" sticker was the most attractive thing about the whole package.

The trade-off for such a stonkingly fast CPU is the lack of bundled software. It doesn't come with any pre-installed applications other than the operating system, although there were two CD-ROMs that weren't hardware drivers: an AOL, and a Virgin Net package. We tried Virgin's offer, out of curiosity. After getting online in a few minutes, we're happy to report that Mr Branson has come up trumps again with a quick, simple registration process.

Monitor A 17in Princeton EC107, with 15.5in viewable and MPRII compliancy. We were impressed by the sharpness of the picture, and the onscreen controls which keep track of the current refresh rates. It's capable of a non-interlaced resolution of 1,152 x 864 with a refresh rate of 75Hz, although the picture is firmer at lower resolutions.

PCW Details

Price £1,996 (£1,699 ex VAT)
 Contact Roldec 01902 456464
www.roldec.com
 Good Points CPU. Needle-sharp monitor display.
 Bad Points Very little extra software. Unimpressive speakers.
 Conclusion Serious gamers and power users should look no further.
 Build Quality ★★★★★
 Performance ★★★★★
 Value for Money ★★★★★
 Overall Rating ★★★★★

The Axiom PVX is a
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...an absolute bargain

Editors Choice, PC Magazine, November 1997



PC Magazine's aim was to find an inexpensive business desktop PC, packed with as many useful features as possible, with a performance to match. They received 25 systems showing different solutions to their challenge, but the one judged as the closest to the ideal combination was the Hi-Grade Axiom PVX.

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16-bit 3D Sound	16-Bit 3D Sound card
120Mb 3.5" Floppy Disk drive (supports 1.44Mb)	120Mb 3.5" Super Floppy Disk drive (supports 1.44Mb)
VGA ATI 3D Expression PC2TV PCI 64-bit graphics card with 4Mb	VGA ATI 3D Expert@Work AGP (133MHz, 4x PCI speed) 64-bit graphics card with 4Mb SGRAM upgradable to 8Mb
17" Colour SVGA monitor (max res. 1600x1200 69Hz refresh)	17" Colour SVGA monitor (MAX RES. 1280X1024 @ 60MHz refresh)
3COM 3C905 10/100Base-T PCI Ethernet card	Intel Exthepress Pro PCI 10/100Base-T (Remote LAN wake-up feature)

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Tiny Sound and Vision (RETAIL)

Tiny differs from the other retail outfits in this group test in that its PCs are sold in its own shops, of which there are currently 46 dotted about the UK. The company sells specific models which customers can try out in-store, but each PC is made up to spec when ordered. Consequently, we expected Tiny to be able to provide fresher components than the other retail companies. While this machine wasn't as highly specified as the systems provided by the direct companies, it did manage to include some impressive components for the price point.

Hidden under the bland exterior lurked a Pentium II 233MHz processor, 32Mb of SDRAM occupying one of three DIMM slots, and an ATI Xpert@Work graphics card fitted into the AGP slot. Unlike the home version, the Xpert@Play, this card doesn't have a video-out connector. There is a TV tuner card however, located in one of the two ISA slots, which has an S-Video connector. The other ISA slot is occupied by a 33.6K modem, with sound provided by an onboard Yamaha OPL3 chipset.

Some attention has been paid



to making setup reasonably easy: not a lot, but some. A photocopied A3 sheet provided detailed diagrams of both the front and rear of the system, as well as all the connections. Any first-time user should be able to follow this with ease.

The software package is comprehensive, with a good mix of educational software such as gardening and cooking, plus there's Reader Rabbit for the youngsters. There's a couple of utilities, LanDesk and Rescue Me. A LineOne icon on the desktop provides instant access to registering an online account. There's also a rather nice online technical support guide installed on the desktop, to help you out in tricky situations.

Monitor A 17in unbranded monitor, with 15.5in viewable and both MPR II and EPA Energy Star ratings. Controls are on-screen and include all the usual sizing, positioning and geometric controls, with an additional degauss feature. The picture is reasonably sharp, but this wasn't the best of the 17in monitors we saw.

PCW Details

Price £1,996 (£1,699 ex VAT)
 Contact Tiny 0800 821333
www.tinycomp.co.uk
 Good Points Large monitor. Graphics card. TV tuner.
 Bad Points Setup could be easier.
 Conclusion Great value for a retail machine, but the off-the-page people do it better and cheaper.
 Build Quality ★★★
 Performance ★★★
 Value for Money ★★
 Overall Rating ★★★

Watford Electronics Aries Pro Media TX-97 (DIRECT)

Watford Electronics was the only one of the off-the-page companies to supply a machine without a Pentium II. Instead, the Aries Pro Media TX-97 sports a Pentium 233MMX CPU. In mitigation, this was one of the least expensive PCs, costing only a tenner more than the Packard Bell, and it far outdoes some of the retail machines in terms of components.

The Quantum Fireball Stratus hard drive has an enormous 6.4Gb of storage space. Sound is provided by the excellent AWE64 sound card from Creative Labs. A 56K modem is also installed, leaving one free ISA slot. Graphics is provided by a Matrox 2Mb Mystique 220. Memory expansion is limited, as both DIMM slots are occupied by 64Mb of SDRAM. However, there's plenty of room for fitting more drives, with one external 3.5in and two external 5.25in forward-facing bays vacant.

A curious rattling noise coming from inside the case turned out to be a loose screw rattling about. Otherwise, the innards were exceptionally tidy, with neatly tied and bundled cables.



We liked the lengthy standard warranty of one year on-site and five years return-to-base, upgradeable to three years on-site. This is an important consideration when looking for a home PC, as it's likely that the machine will be expected to have a longer lifespan than a business computer. Watford also gets a gold star for offering weekend technical support: 10-4 on Saturdays. You're still restricted to office hours during the week though, which isn't helpful when you're at work and your PC is at home.

The software package includes Corel WordPerfect 7, LanDesk, and a range of Compton's Home Library titles, which should keep most of the family amused. No games, though. Neither is there anything special for internet connection, with just the basic online services offered.

Monitor GX 1569 15in, with 13.6in viewable, and both EPA Energy Star and MPR II ratings. Controls are on-screen and include all the usual size, positioning and geometric adjustments, plus a manual degauss and a status button. Focus could have been crisper, but it's not hard on the eyes.

PCW Details

Price £1,509.88 (£1,285 ex VAT)
 Contact Watford Electronics 01582 745555
www.watford.co.uk
 Good Points Price. Warranty. Memory. Hard drive.
 Bad Points Could have included some games.
 Conclusion A good PC for the price-conscious.
 Build Quality ★★★
 Performance ★★★
 Value for Money ★★★★★
 Overall Rating ★★★



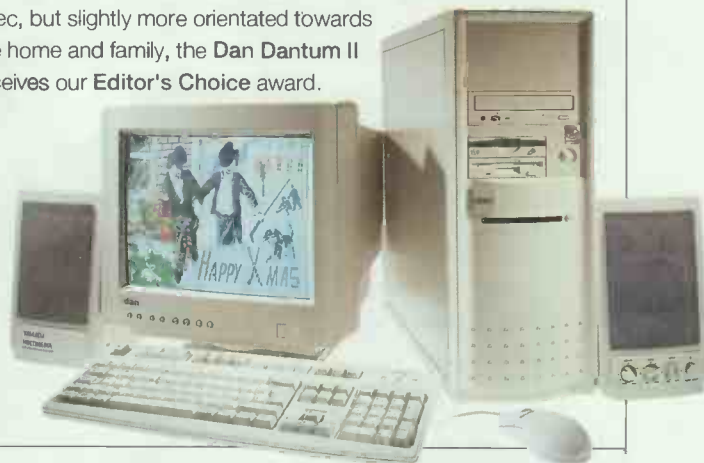
Editor's Choice

Christmas is almost upon us. Mums and dads the length and breadth of the country are pondering that age-old question: Should this be the year we get a computer for the family? Well, there are a few incentives to make you take the plunge now. Intel has recently dropped the prices on its Pentium II processors. And, not only does the new AGP graphics bus look set to revolutionise the way we play games, but AGP cards are no more expensive than PCI versions. By and large, warranties are still poor, with one year on-site being about the norm. Roldec stands out here, offering a five years return-to-base (RTB) policy. The retail companies come out on top for technical support. Out of the direct companies, only Watford offered support outside office hours. Seven machines sported an ATI 3D graphics card, with the Xpert@Work proving most popular.

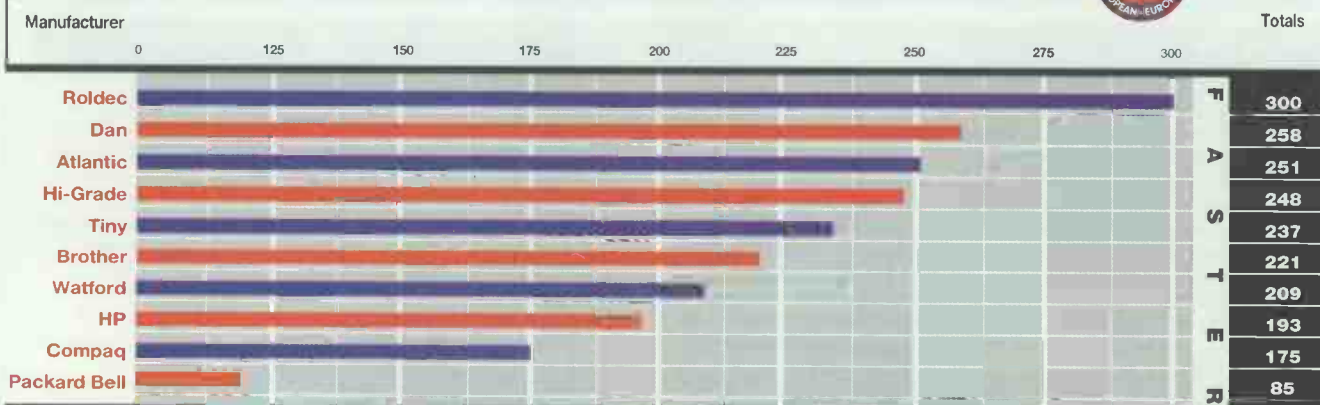
Should you buy your PC from a shop, or off the page? One glance at the features table (p142) reveals that you definitely get better value for money buying from one of the direct companies. With the exception of Watford Electronics, you can generally expect to get a Pentium II processor, an AGP 3D graphics card, 32Mb SDRAM, more than 3Gb of storage on the hard drive, and even a backup device such as a ZIP drive. Roldec again deserves a mention here, because the Predator is more suited to experienced users and gamers rather than for the home. The retail companies

paled in comparison, still using Pentium MMX processors, and both Packard Bell and Compaq provided only 16Mb SDRAM.

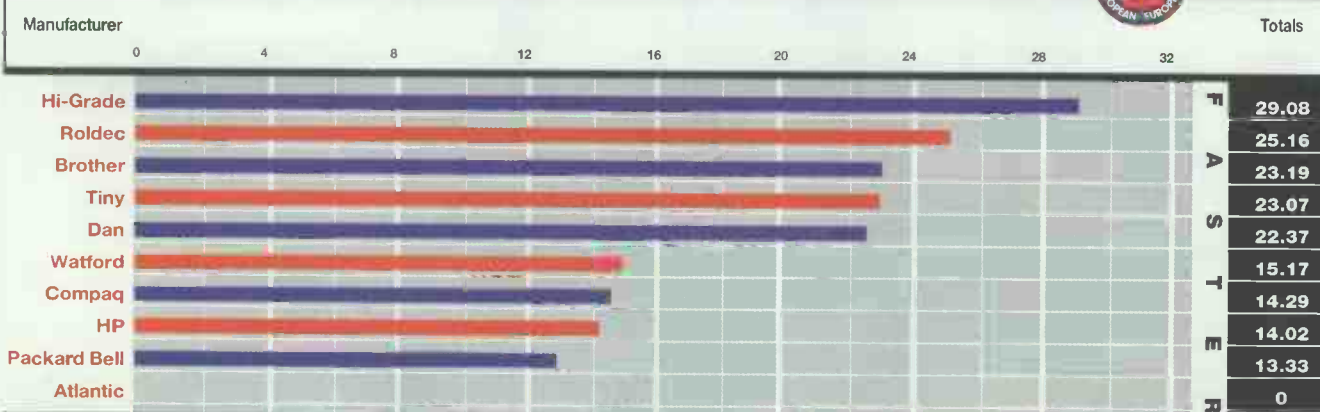
With this in mind, we decided to judge the retail PCs on style, ease of setup, ease of use and value for money. Could mum and dad set up this PC on Christmas Day without any difficulties? For all these reasons, we gave a **Highly Commended** to **Hewlett-Packard** for its Pavillion 8110, and also to **Hi-Grade** which, in its Axion PR11266, provided a top-rate home PC, choc-full of goodies and with an impressive 17in monitor. With a similar spec, but slightly more orientated towards the home and family, the **Dan Dantum II** receives our **Editor's Choice** award.



Sysmark/Bapco scores



Quake scores



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MS Excel 97, MS Publisher 97, MS Outlook 97, MS Autoroute
Express GT Britten, MS Small Business Financial Manager

OPTION 3 add £99 + VAT (£116.33)

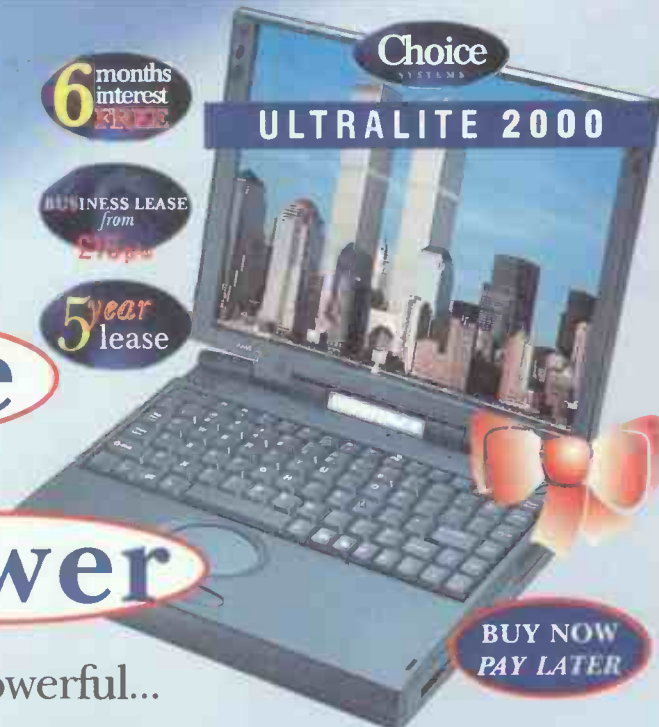
MS Windows 95, Lotus SmartSuite 97

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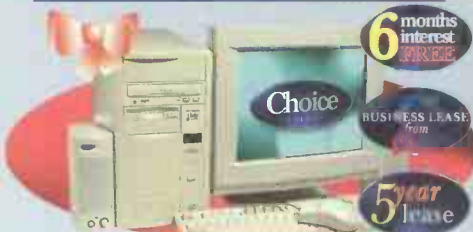
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- 2 years standard warranty (1st year P&L/2nd year labour only)

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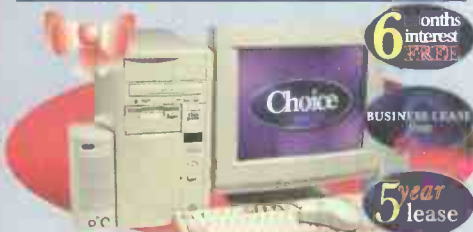
PENTIUM MMX P166	£649	£762.58
PENTIUM MMX P200	£725	£851.88
PENTIUM MMX P233	£799	£938.83
CYRIX / AMD	£ Call	£ Call

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- 15" FST Pro SVGA N/I monitor
- 105 Win 95 UK Cherry Keyboard
- Microsoft original IntelliPoint Mouse
- 2 serial/parallel Ports
- Deluxe mini tower case
- Choice of software not included
- Cyrix/AMD compatible
- 2 years standard warranty (1st year P&L/2nd Year labour only)

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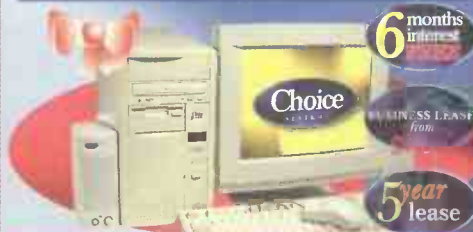
INTEL MMX P200	£1175	£1380.63
INTEL MMX P233	£1249	£1467.58
PENTIUM 2 233MHz	£1450	£1703.75
PENTIUM 2 266MHz	£1550	£1821.25
PENTIUM 2 300MHz	£1699	£1996.33
CYRIX / AMD	£ Call	£ Call

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- 8 Mb Matrox Millennium 2 Graphic Card
- 24 x speed IDE quality CD Drive
- Creative labs AWE 64 Gold sound card
- 17" FST Pro SVGA N/I monitor
- 105 Win 95 UK Cherry Keyboard
- Microsoft original IntelliPoint mouse
- 2 serial/parallel ports
- Deluxe midi tower case
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- 2 years standard warranty (1st year P&L/2nd year labour only)

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PENTIUM PRO 200MHz	£1875	£2203.13
DUAL PRO 200MHz CPU	£2299	£2701.33
PENTIUM 2 300MHz	£2100	£2467.50

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2nd year labour RTB
Free lifetime technical support.

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Table of Features

Personal Computer World
Editors Choice

Personal Computer World
Highly Commended



Manufacturer	Atlantic Systems	Brother	Compaq	Dan Technology	Hewlett-Packard
Model Name	Proteus Office	Brother Professor II	Presario 4526	Dantum II/266SW	HP Pavilion 8110
Price (ex VAT)	£1,699	£1,489	£1,531	£1,694	£1,236
Price (inc VAT)	£1,976.33 inc delivery	£1,750	£1,799	£1,991	£1,452
Telephone	0990 134725	01279 416 888	0845 2704000	0181 830 1100	local retailer
Web address	www.atlanticsystem.com/sys/	www.kyodai.brother.co.uk	www.compaq.co.uk	www.dan.co.uk	www.hp-cpo.com
Standard warranty	1yr onsite/4yrs RTB	1yr onsite	1yr onsite	1yr onsite	1yr onsite
Warranty options	3yrs onsite/2yrs RTB	3yrs on-site	See retail outlet	3yrs on-site	3 yrs
Technical support	9-5 Mon-Fri	9-6 Mon-Fri	8-8 Mon-Fri	9.30-6 Mon-Fri	9-9Mon-Fri 9-3 Sat
Hardware Spec					
Processor	PII 266 MHz	PII 233MHz	P233MHz MMX	PII 266 MHz	P200MHz MMX
RAM/Type	32Mb SDRAM	32Mb SDRAM	16Mb SDRAM	32Mb SDRAM	32Mb/EDO/SIMMs
Hard disk	Quantum Fireball	Seagate	Compaq	Seagate	Western Digital
Size(Gb)/Interface	6.5Gb EIDE UDMA	3Gb EIDE	4Gb EIDE	6.4Gb EIDE UDMA	2.5Gb EIDE
Motherboard Components					
Motherboard manufacturer	Intel	Intel	Compaq	Asustek	ASUS
Chipset	Intel 440LX	Intel 440LX	Intel 430VX	Intel 440LX	Intel 430TX
L2 cache/max cache (Kb)	512	512	256	512	256
Expansion and I/O					
Spare bays 3.5/5.25	2x 3.5in/2x 5.25in	2x 3.5in/2x 5.25in	None	1x3.5in/2x5.25in	1x3.5in/2x5.25in
AGP	●	●	○	●	○
PCI slots/ISA slots/shared slots	4 PCI/2ISA/1 shared	4PCI/2 ISA	1PCI/1ISA shared	3PCI/2ISA/1 shared	5 ISA/2 PCI
USB/serial/parallel/PS2	2 USB/2S/1P/2PS/2	2USB/2S/1P/2PS/2	2USB/2S/1P/2PS/2	2USB/2S/1P/2PS/2	2USB/1S/1P/2PS/2
Multimedia					
CD-ROM manufacturer	Goldstar	Toshiba	Compaq	Panasonic	Goldstar
CD-ROM speed/interface	24x EIDE	24x EIDE	24x EIDE	24x EIDE	24x EIDE
Sound card manufacturer	Creative Labs	Yamaha	ESS	Creative Labs	Polk Audio
Sound card model	AWE64 Gold	OPL3	ESS	Awe 64	Roland MPU-401
Speakers	SP868 80w	Screen Beat	JBL PRO	Dan Hi-Fi	Polk Audio Clip-on
Graphics & Monitor					
Graphics card	ATI Xpert@work	ATI Xpert@Work	S3 Trio KV2	ATI Xpert@Work	ATI 3D Rage II
RAM/Type	4Mb SGRAM	4Mb SGRAM	1Mb	4Mb SGRAM	2Mb VRAM
Monitor model	ADI 4P	Brother BM86	Compaq 1525	CTX 1569	HP Pavilion
Monitor size	15in	15in	15in	15in	15in
Max refresh rate @ 1,024x768(NI)	75Hz	75Hz	75Hz	85Hz	75Hz
Other Information					
Modem speed (Kbps)	56	33.6	33.6	56	K56Flex DVSD
Internet ready (Yes/No)	●	●	●	●	●
Other extras				Zip drive/TV card	
Office suite	Office 97	MS Works	MS Money & Works	Works 4.0	MS Works
Other software	Ultimate Human body IBM Simply speaking CorelDraw 4	Encarta, Football AutoRoute Express Magic Schoolbus	£1,000 additional software, until 31/12/97	Quicken 6 PagePlus LanDesk, Encarta	EasyPhoto Infopedia, Fifa 97 SimCity 2000
Annual company turnover	£26 million	\$1.3 billion worldwide	\$18 billion (worldwide)	47	£1.9 billion (UK)
Number of employees	160	5,000 worldwide	n/a	180	5,400 (UK)

Key Yes ● No ○

Table of Features



Manufacturer	Hi-Grade	Packard Bell	Roldec	Tiny	Watford Electronics
Model Name	Axion PII-266	Pulsar 20	Predator	Sound & Vision	Aries pro Media TX-97
Price (ex VAT)	£1,699	£1,276	£1,699	£1,699	£1,285
Price (inc VAT)	£1,996	£1,499	£1,996	£1,996	£1,510
Telephone	0181 532 6111	01628 508200	01902 456464	0800 821333	01582 745555
Web address	www.higrade.com	www.packardbell/europe.com	www.roldec.com	www.tinycomp.co.uk	www.watford.co.uk
Standard warranty	1yr onsite inc P&L	1 yr onsite	1yr P&L/5yrsRTB	1yr P&L, RTB	1yr onsite, 5yrs RTB
Warranty options	3yrs onsite	See retail outlet	4yrs Lab/3yr onsite	up to 3 yrs onsite	3yrs on-site
Technical support	9-5 Mon-Fri	(Mastercare) 24hrs/7days/wk	9-5.30 Mon-Fri	9-5.30 Mon-Fri/10-4 Sat	10-6 Mon-Fri, 10-4 Sat
Hardware Spec					
Processor	PII 266 MHz	P200MHz MMX	PII 300MHz	PII 233MHz	P233MHz MMX
RAM/Type	32Mb SDRAM	16Mb SDRAM	32Mb SDRAM	32Mb SDRAM	64Mb SDRAM
Hard disk	Maxtor Diamondmax	Seagate or Western Digital	Quantum Fireball	Fujitsu	Quantum Fireball ST
Size(Gb)/Interface	5.2Gb EIDE UDMA	3.2Gb EIDE	4.3Gb EIDE UDMA	4.3Gb	6.4Gb
Motherboard Components					
Motherboard manufacturer	ASUS	Packard Bell	Intel	Intel	Aries TX97
Chipset	Intel 440 LX	Intel 440TX	Intel 440LX	Intel 440LX	Intel 430TX
L2 cache/max cache (Kb)	512	256	512	512	512
Expansion and I/O					
Spare bays 3.5/5.25	1x3.5in/2x5.25in	1x3.5/2x5.25in	2x3.5in	1x3.5in/2x5.25in	1x 3.5in/2x 5.25in
AGP	●	○	●	●	○
PCI slots/ISA slots/shared slots	5 PCI/2 ISA/1 Shared	3PCI/1ISA	3PCI/1ISA/1 shared	4PCI/2ISA	4 PCI/4 ISA/1 shared
USB/serial/parallel/PS2	2USB/2S/1P/2PS/2	2USB/1S/1P/2PS/2	2USB/2S/1P/2PS/2	2USB/2S/1P/2PS/2	2USB/2S/1P/1PS/2
Multimedia					
CD-ROM manufacturer	TEAC	NEC	Teac CD-574E	Matshita CR-585	Panasonic
CD-ROM speed/interface	24x EIDE	24x EIDE	24x EIDE	24x EIDE	24x EIDE
Sound card manufacturer	Creative Labs	P-Bell Aztec 2320	Yamaha	Yamaha	Creative Labs
Sound card model	AWE64	Sound 16C	OPL3	OPL3	AWE64
Speakers	Yamaha YST-M15	Packard Bell	Labtec LCS800	Juster Multimedia	Aries 80w
Graphics & Monitor					
Graphics card	ASUS AGP V3000	ATI Rage II	ATI Xpert@Work	ATI Xpert@Work	Matrox Mystique 220
RAM/Type	4Mb SGRAM	2Mb VRAM	4Mb SGRAM	4Mb SGRAM	2Mb SGRAM
Monitor model	ADI Microscan 5P	PB 5480	Princeton EO17	29J76C	GX 1569
Monitor size	17in	15in	17in	17in	15in
Max refresh rate @ 1,024x768(NI)	85Hz	85Hz	85Hz	75Hz	85Hz
Other Information					
Modem speed (Kbps)	33.6	56	33.6	33.6	56K Flex
Internet ready (Yes/No)	●	●	●	●	●
Other extras	120Mb Superdisk	Fastmedia Keyboard			
Office suite	Lotus SmartSuite 97				Corel WordPerfect 7
Other software	LanDesk IBM VoiceType Gold Principal 97 Pack	Selection of family and games software	PC Systems diagnostic check	LanDesk Virus Protect Rescue Mel Softkey Home Pack	LanDesk, Supervoice Comptons Home Library selection
Annual company turnover	£17.5 million	n/a	12 million	£110 million	n/a
Number of employees	85	n/a	56	500	110

Key Yes ● No ○

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READY OFFICE option with Microsoft Office 97 Small Business Edition

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PURE POWER	£829 £974.08
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Look no further for superior performance with the latest Pentium II processor to boost your productivity at an outstanding price.

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PURE POWER	£1229 £1444.08
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- Desktop or mini tower case
- 4Mb Integrated 64 bit graphics with full screen MPEG
- 3 ISA and 4 PCI slots
- 3.5" diskette drive
- Two serial ports with 16550 UART
- One ECP/EPP parallel port
- 105 key Alps keyboard and Locland mouse
- MS Windows 95 with disks & manual
- MS Encarta97, MS Works, MS Money, Golf, Dangerous Creatures, Magic School Bus

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INTERNET CONNECTED	£1069 £1256.08
M-200 PCI 200MHz	
MULTIMEDIA	£959 £1126.83
INTERNET CONNECTED	£1149 £1350.08

for you.



POWER SERVER



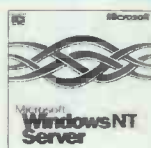
Practical and scaleable network ready file server for all round performance right out of the box.

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- 32Mb fast SDRAM
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POWER SERVER	£1849 £2172.58
NT 4 SERVER	£2549 £2995.08
P-266 AGP 266MHz	
POWER SERVER	£1999 £2348.83
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- Two serial ports with 16550 UART
- 15" SVGA colour monitor

R-533 AGP 266MHz	
SINGLE PROCESSOR	£4349 £5110.08
DUAL PROCESSOR	£5099 £5991.33
R-600 AGP 300MHz	
SINGLE PROCESSOR	£4799 £5638.83
DUAL PROCESSOR	£5699 £6696.33

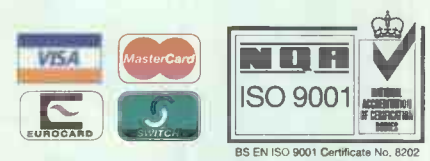


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Create colourful images this Christmas. Nik Rawlinson tests nine inkjets to see if they're worthy stocking fillers.

You can't help but love colour inkjet printers. Producing near photographic-quality prints at a fraction of the price of other colour printers, they've caught the hearts and minds of PC users worldwide.

Whether you're producing a winning presentation or creating your own calendar, a colour inkjet will probably end up being one of the most useful things you ever buy. And they've never been cheaper or better.

We got tired of waiting a whole year between group tests, so decided to take another look six months on. Half a year after our last inkjet group test, only a few models we originally tested remain current. We've taken these into the labs once again and compared them with the latest crop to see who'll take the throne. Over the next four pages, nine contenders vie for the colour crown.

Ratings

- ★★★★★ Buy while stocks last
- ★★★★ Great buy
- ★★★ Good buy
- ★★ Shop around
- ★ Not recommended

Inkjets Contents

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Alps MD 1000

Differing slightly from the other printers in the group, the smart, dark-grey MD-1000 (PCW November 1997) uses tapes rather than ink cartridges. Drawing the paper through up to four times, it prints the whole page in each colour in turn. The common CMYK options are supplemented by tapes for silver, gold, metallic cyan and magenta, and even white for printing on black media. On the downside, they make the printing process noisier than many inkjets. Instead of the usual three or four resolutions, the choice of settings changes depending upon the type of output selected. Normal printing can be done at either 300 or 600dpi. Quality was disappointing when using plain paper, which would mean drastically increased running costs for the home user (high-grade paper is £10.69 for 200 sheets). This machine really comes into its own when printing graphics. Taking six minutes and one second (6'01") at 600dpi, the gradated colours in the business graphics were smooth, with only slight stepping on the black fade. The inverse hairline was by far the clearest of any seen throughout the test. Printing the photo at 600dpi (9'26") on



high-grade paper produced slight banding in some areas, but using photographic paper at 1,200 x 600dpi and the finishing cartridge, produced some of the best reproduction of all the printers tested.

Bundled with Print Artist and Hanes T-shirt maker, this printer is ideal for graphics, and the added options for printing with metallic or white ink make it a desirable purchase for those who cannot get these slightly unusual facilities elsewhere. That said, a conventional inkjet may be more suitable for those wishing to have a balance of printing both graphics and text.

Personal Computer World
Highly Commended

PCW Details

Price £299 (£254.47 ex VAT)
Contact Alps 0800 973405
www.alps.ie
Good Points Business graphics. Choice of ink colours.
Bad Points Noisy. Poor copy paper.
Conclusion Impressive, but a conventional inkjet may be more suited to the home user.
★★★

Canon BJC-80

Tiny, charcoal-coloured and quiet, we've fallen in love with this printer. Tiny printheads have drop-in refills (black or CMYK) and can be replaced by the world's smallest scanner, built into another cartridge. It's about half the size of a notebook and is suited to those on the move, with its optional battery with a life of 200 pages. There's also the choice of using a serial cable or the built-in infra-red communications port for easy data communications. Print speeds are adequate, with a standard-quality page from Word taking just 19 seconds to print. Quality was not too good with the mono printhead, giving speckly grey characters rather than black. Using the CMYK cartridge improved matters greatly, resulting in solid characters with smooth edges. White speckling was present in most graphical output, including high-quality photo reproduction on Canon's bubblejet paper with the Fine option activated. The business graphics from Corel demonstrated strong banding at standard quality. This was eliminated when switched to high quality, but in both instances the fading bars were visibly stepped. The optional scanner cartridge is TWAIN compliant and can be



used with its own software or many popular graphics packages. But it's much slower than the scanning adapter for the Canon BJC-4300, taking 11'12" to scan an A4 colour page at 180dpi. Although the scanning cartridge and printer can be purchased separately, buying them together will save you £30.

There is a lot to be said for this feature-packed printer, which drew gasps of admiration when it arrived in the PCW office and didn't fail to impress.

Personal Computer World
Editors Choice

PCW Details

Price £233.83 (£199 ex vat); scanner cartridge £104.57 (£89 ex vat); printer and scanner together £304.33 (£259 ex vat)
Contact Canon 0121 680 8062
www.canon.co.uk
Good Points Overall performance.
Bad Points Bad points? What bad points?
Conclusion An excellent all-rounder.
★★★★★

Canon BJC-250

Small, elegant and attractive — and the price of this printer can be redeemed against the cost of a Thomas Cook holiday [see *Competition*, page 337]. The driver disk did not include the necessary files, but the manual ensured us that the BJC-240 driver was compatible. This threw up non-fatal error messages about colour adjustment methods not being available each time we printed, darkened and dulled the colours in the photo printout, and increased the print time by 40 percent. After downloading the BJC-250 driver from Canon's US site (not available through the UK site), the time taken to print a page from Word reduced from 45 to 36 seconds. The business graphics from Corel, which took 8'02" at high quality with the supplied BJC-240 driver, took only 7'34" minutes using the BJC-250 settings. The small text on the Excel spreadsheet was clear and easy to read, and the inverse hairline in the CorelDraw business graphics was well defined. Draft-quality text output was fairly fast but very light and speckly. Standard and high-quality output was feathered on both



copier and high-resolution paper. Cleaning the head had no effect, and the only solution was to replace the half-used cartridge with a new one. Output was then much improved in both standard and high resolutions. Changing cartridges was simple, enabling us to choose from black, CMY, fluorescent CMY and photo cartridges. Containers were supplied to hold whichever cartridge was not in use. A wide range of print media can be used, including banners, T-shirt transfers and even fabric sheets. The accompanying CD included a copy of Catz (worth the price of the printer in itself!) and PrintMaster Suite for producing cards, banners and posters from scratch or based on pre-drawn templates.

PCW Details

Price £163.33 (£139 ex vat)
Contact Canon 0121 680 8062
www.canon.co.uk
Good Points Bundled software.
Bad Points Cartridge wastage. Driver.
Conclusion Well worth considering.
★★★

Personal Computer World
Highly Commended

Canon BJC-4300

Not only is this a printer, but with the addition of an optional cartridge, it is also a scanner. The cartridge replaces the single printhead incorporating two (one CMY, one black) inkwells. Catz, PrintMaster and fonts are bundled.

Printing was fairly speedy, with a standard-quality page from Word arriving in 36 seconds. A one-page printout from Excel at the same resolution took 1'03" minutes, producing very clear text. The edges of the characters were sharp and unfeathered on photocopy paper in both this and high resolution. "High" offered an even ink distribution, with larger letters coming out darker and more solid, while draft quality was light and jagged and would not be suitable for everyday correspondence.

Photos were disappointing. Using Canon's bubblejet paper, the output was speckled with white. Colours were dark and unrealistic. Business graphics suffered a similar fate: the black was not solid and the fading bars were visibly stepped. Standard quality on photocopy paper and high quality on bubblejet paper both lost the inverse hairline, while standard quality showed banding in our blocks of solid colour.



Although not as quick as using a flatbed scanner, the scanning cartridge is certainly much cheaper and can scan any standard paper size up to A4 — much wider than a handheld scanner. A 180dpi (360dpi max) colour scan of an A4 sheet took just 3'54" and could be saved as either BMP or TIFF format.

The included scanning software allowed for basic adjustments including image sharpness, and edge and line enhancements.

A voucher offer allows buyers to claim money back against the cost of a Thomas Cook holiday, and buying the printer and scanner together attracts a further saving of £30.

PCW Details

Price £233.83 (£199 ex VAT); scanner cartridge £104.57 (£89 ex VAT); printer and scanner together £304.33 (£259 ex VAT)

Contact Canon 0121 680 8062 www.canon.co.uk

Good Points Optional scanner.

Bad Points Poor graphical reproduction.

Conclusion Worth spending a bit more for the scanning cartridge.

★★★★

Epson Stylus Color 300

A boxy machine with a small footprint and a 100-page cut-sheet feeder, this model is destined to replace the Stylus Color 200. The first thing that struck us on unpacking the unit was the single CMYK print cartridge. Combined black and colour cartridges like this prove to be more expensive in the long run than buying two separate units, as running out of one colour will invariably necessitate discarding three further wells that might be hardly touched. A screen graphic visible during printing should display both the progress and the amount of ink left in the cartridge, but in our tests this still showed the wells to be full when the magenta had run dry.

Printing is frighteningly slow. The economy, or draft setting (which is of a similar quality to 24-pin dot-matrix draft output) took longer to print a single page than it took both the HP890C and the Lexmark 7000 to print five draft sheets. The high-quality setting, the standard of which was comparable to the HP890C's draft output, took just under three quarters of an hour to print five pages: that's nine minutes per page! In normal quality, the small print on our spreadsheet was clear



and easy to read, but in all instances, text printed on normal paper had slightly feathered edges.

Graphics were handled well, with strong steady colours and clearly differentiated fades and shading. In both normal (360dpi) and fine (720dpi) quality the inverse hairline was clearly visible, which demonstrated good graphics handling. The price for this,

though, was the speed, which reduced to a crawl, with a slightly dark fine-quality print of the A4 photo taking over 20 minutes, although even with 100 percent ink coverage the pages did not curl.

PCW Details

Price £186.83 (£159 ex VAT)

Contact Epson 01442 61144 www.epson.co.uk

Good Points Good business graphics.

Bad Points Very slow on text. Four-colour cartridge.

Conclusion Disappointing-quality output overall.

★★

Hewlett-Packard DeskJet 890c

Holding two cartridges (black and CMY), the DeskJet 890C is much easier than some of its predecessors as all sockets have been moved from the underside to the back of the unit. On the downside, these new models never seem quite as sturdy as the old 500 series.

The driver comes complete with 126 fonts and Fontsmart, a font management utility that offers HP LaserJet font compatibility and places fonts that are used less often where they will not take up system memory, while still being easily accessible to the printer. Meanwhile, the Toolbox allows users to do everything, from installing and aligning print cartridges to changing print settings from a simple Windows interface.

The 24MHz RISC processor and 0.5Mb RAM speed things up with five "Economode" copies of a one-page letter arriving from Word in just 56 seconds. Their quality makes the setting perfectly acceptable for use in everyday correspondence. The average time taken to produce the same document in Normal and Best quality is 25 and 27 seconds per page respectively. Print quality is fine, with clear, sharp



edges and good definition of the very small text on our Excel spreadsheet.

Selecting premium-quality paper automatically set the print quality to Best and produced realistic colours with smooth gradation of tone. To output an A4 photo of this quality took 9'36". The white margin in the

example was just 1mm at the top, 3mm and 4mm on the left and right sides, and 10mm at the bottom. In the CorelDraw test it managed to print the inverse hairline without problems in normal mode, but in Best on premium paper it was difficult to see.

Personal Computer World
Highly Commended

PCW Details

Price £399.50 (£340 ex VAT)

Contact Hewlett-Packard 0990 474747 www.hp.com

Good Points Fast. Good colours. Almost full paper coverage.

Bad Points A little expensive.

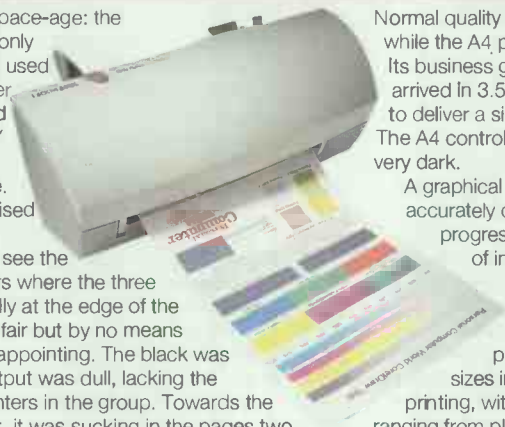
Conclusion We were impressed.

★★★★

Lexmark 1000 Color Jetprinter

Small, streamlined, space-age: the Lexmark 1000 has only one button which is used for feeding the paper — no power switch or lights and indicators. Supplied with a CMY cartridge (it holds only one at a time), all blacks were composite. As a result, they were characterised by a slight greenish tinge.

In draft mode it was easy to see the CMY making up the black letters where the three colours had feathered individually at the edge of the characters. Normal quality was fair but by no means crisp, and High was equally disappointing. The black was still not deep and the overall output was dull, lacking the impact of many of the other printers in the group. Towards the end of the high-quality print test, it was sucking in the pages two at a time. Nine files were missing from the installation disk so we had to download a 1.2Mb file from Lexmark's web site before we could use the 1000. Print speeds were fair but unspectacular. The average



Normal quality page from Word arrived in just under two minutes, while the A4 photo took 20 minutes. The strength of this printer is its business graphics capabilities. The full-page CorelDraw file arrived in 3.56 minutes — just over half a minute longer than it took to deliver a single page from Excel and with slightly wrinkled paper. The A4 control photo came out very dark.

A graphical screen display accurately charts printing progress and the amount of ink left in the cartridge. The driver offers a choice of 21 predefined paper sizes including banner printing, with paper types ranging from plain to greetings cards and encompassing transparencies and iron-on transfers.

PCW Details

Price £129 (£109.79 ex VAT)
Contact Lexmark 01628 481500
www.lexmark.co.uk
Good Points Small and neat.
Bad Points Only CMY cartridge supplied. Disappointing print quality. Dark photo reproduction.
Conclusion Fair performance.
 ★★★

Lexmark Color Jetprinter Series 7000

This two-cartridge printer can be filled with CMY and a black or photo cartridge. This makes it faster than the 1000, slashing print times to 21 seconds for a Normal quality page from Word, and 2'49" for a Standard quality page of business graphics from CorelDraw.

Normal quality is excellent, with good, dark black letters with sharp edges. The four-point text in our Word document was very clear and easy to read. Although there was a noticeable drop in quality after selecting Quick Print 600, the 7000's draft mode which produced slightly grey text with fuzzy edges, there also was no discernible improvement on Normal when we selected High.

The inverse hairline in the CorelDraw test was extremely clear in both normal and high quality, but while the gradation of the faded colours was impressive under Normal, it was noticeably stepped at high quality on premium inkjet paper.

Compared to the 1000 this is a large printer, but it benefits from a



larger paper input tray (supplemented by single-sheet hand feed), an output tray, power and paper advance buttons and two indicator lights. Like its smaller brother, though, it suffered from rather dark output when printing our A4 photo. The blue sky was thunderous and, in parts, almost black. Although not quite as red as the sample produced by the 1000, our image reference was straying away from light brown and towards that end of the spectrum.

Nineteen preset paper sizes are supplemented by a Custom setting and six media options.

Included is a copy of LivePix for photo manipulation.

Although currently top-of-the-range, the 7000 will be joined by the 7200 at the start of November, offering higher resolution for photo reproduction.

PCW Details

Price £299 (£254.46 ex VAT)
Contact Lexmark 01628 481500
www.lexmark.co.uk
Good Points Large paper tray. Good business graphics and text.
Bad Points Dark photo reproduction.
Conclusion Well worth considering.
 ★★★★★

Lexmark 2030 Color Jetprinter

The largest of the three Lexmark machines in the test, the 2030 comes with three cartridges (black, photo and CMY) and holds two of them at any one time. A storage case is supplied to hold the third when not in use. Driver installation was fiddly until we copied all of the relevant files from the CD into a temporary directory and started again.

The three common (Draft, Normal, High) quality settings are supplemented by Presentation mode which produced five pages from Word marginally faster than the High quality mode. A single page at Normal quality arrived in 39 seconds, while from Excel it took 1'11". Quality was never particularly sharp, and slight pixellation was visible at all settings, especially on smaller text. Draft mode gave a nice black print but the pixels were slightly misaligned.

The on-screen display of our ink resources was inaccurate, indicating that we still had a full cartridge when the magenta had already run dry, but the graduated tones produced by CorelDraw were



smooth and there was no evidence of stepping. The inverse hairline was clearly visible in both Normal and High quality modes using either normal or coated paper, but the composite black lettering had distinctly ragged edges.

Even in Presentation mode, using the photo cartridge and photographic paper, the A4 image from Photoshop looked grainy and showed slight banding. That said, the range of colours printed was impressive and the whole image had a lighter, more realistic feel to it than the other Lexmarks in the group.

The 2030 has no buttons or lights at all, but is supplied with a copy of LivePix, a photo collage package for distorting and arranging images.

PCW Details

Price £169 (£143.83 ex VAT)
Contact Lexmark 01628 481500
www.lexmark.co.uk
Good Points Holds two cartridges.
Bad Points Ink monitor.
Conclusion Nice all-round performer.
 ★★★

Personal Computer World

Editors Choice

Editor's Choice

A number of factors must be considered when selecting which printer from such a wide variety of machines should have the honour of being Editor's Choice. Speed and quality, of course, play major roles, but so does paper handling, running costs and the range of functions a printer can fulfil. Those with photo cartridges or those that can print on a wide range of media are particularly useful, but the majority of home or small office printing will often be simple monochrome output from text-based applications. Separate black and colour cartridges, and especially a capacity to hold both at the same time, is therefore a particularly desirable feature.

We highly commend the Alps MD-1000, whose sister, the MD-2300, was also Highly Commended in September 1997's PCW colour printer group test. For business graphics it

is unquestionably our first choice, being the fastest and offering the highest quality of any printer in the test. The ability to use metallic colours and white, which makes it possible to print photos and graphics on dark media, make it unique in this group test.

We also highly commend Canon's BJC-4300. It was not the quickest, producing middling results in all of our tests, but the quality of its textual output was good in all but draft mode. The bundled software is both useful and fun to use, although the unit was ultimately let down by the disappointing quality of its graphical output.

A Highly Commended goes to Hewlett-Packard for the DeskJet 890C. The range of improvements on earlier models, including 70 percent smaller dots and extensive software enhancement, combined with its 24MHz RISC processor and built-in 512Kb RAM, make it an excellent buy for heavy-duty users who will also benefit from its outstanding paper-handling capabilities. Its draft printing is also of sufficient quality to save users ever needing to use normal or high quality for their everyday text-based printing.

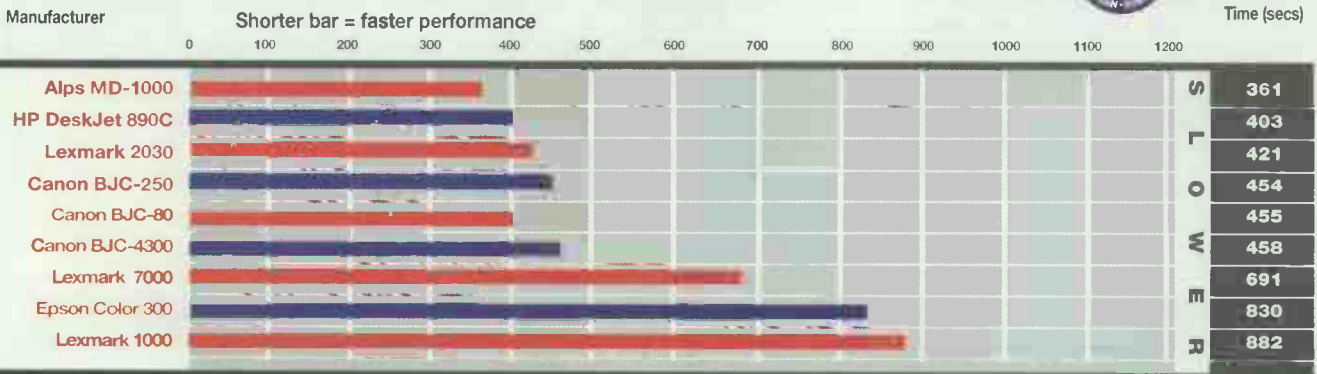
Editor's Choice is awarded to the Canon BJC-80 (pictured, left). The smallest of the group, it demonstrated excellent text and graphics handling. The optional scanner cartridge makes it a cost-effective and space-conscious alternative to buying two separate units, and although the sheet-fed scanning process is somewhat slow, it should be all most home users will ever need.

The optional 200-page battery pack and infra-red communications port make the BJC-80 the ideal machine for notebook users who want to make hard copies away from their desks. One can't help wondering how Canon has managed to squeeze so many features into such a small space.

Nik Rawlinson



Performance Results — CorelDraw



Performance Results — Word



Learn to speak colour

With over 6.5 million individual receptors, the human eye can distinguish around 300,000 individual colours. And colour is more than a visual stimulus - it can accentuate meaning, evoke emotion and re-enforce communication ...

Despite this, most printed output from computers is still in black and white ...

While a significant and growing number of people have invested in colour printers, only a small proportion take advantage of the creative opportunities that the printer brings to their home and work life. Yet anyone who has actually been impressed by the use of colour in greetings cards, banners, documents or slides will know implicitly the effect it can and does have. Colour can increase an audience's willingness to read by up to 80 per cent, and that it can increase motivation and participation by an equal amount.

So why don't more people use colour?

main menu
Click on a topic to explore

fun & easy

print samples

interact with colour

software collection

HP Printing Supplies
Always Clear,
Always Sharp

intro tech support quit

HP's BIG CD, packaged with selected ink cartridges, lets users be more creative with their colour printers.

RESearch has indicated that many printer users are afraid of using colour because of the time and worry of getting anything to look good in colour. There is an additional cost barrier which involves getting the specialised graphics software to create fun images. HP's BIG CD aims to overcome these two of these barriers with stacks of software including graphics and word processing software, a calendar maker, T-shirt software and some fantastic images as well as some notes on how to use colour effectively - either at home or in the office.

One of the simple mistakes is to use as much colour as possible. But the most effective use is to set the mood and to highlight the key points. The human eye is more receptive to yellows and reds, so they stand out and create visual 'noise'. Greens and blues, on the other hand tend, to recede from the eye. To see the effect look at a red box on a blue background, and then a blue box on a red background.

Complementary colours - the BIG CD shows a colour wheel of complementary

colours - can be used to emphasise without clashing with each other. They are good for related bars on a chart or backgrounds for pictures to make them stand out. Images can be the most spectacular use of colour, but are some of the most demanding tasks for a computer printer. But some of today's printers can create photographic quality images that were unimaginable just a few years ago. However, getting the colour balance right is difficult, so the best printers have systems that can do this for you - such as HP's ColorSmart. The best tip is - let the computer do the hard work for you!

Use colour effectively..

The BIG CD contains more hints and tips on how to go about choosing and using colours to make projects and documents more impressive. Colour printing is an affordable option for homes and businesses, but getting the best results, as with any practice, requires some work up front. The BIG CD takes much of the hard work out of the process and should provide HP Deskjet users with the help they need to produce stunning results.

For further information, please contact Hewlett-Packard on 0990 474747.

 **HEWLETT
PACKARD**

Table of Features				
Personal Computer World Highly Commended		Personal Computer World Editors Choice		Computer World Highly Commended
Manufacturer	Alps	Canon	Canon	Canon
Model	MD-1000	BJC-80	BJC-250	BJC-4300
Telephone	0800 973405	0121 680 8062	0121 680 8062	0121 680 8062
URL	www.alps.ie	www.canon.co.uk	www.canon.co.uk	www.canon.co.uk
RRP (inc VAT)	£299 (£254.47 ex VAT)	£233.85 (£199 ex VAT)	£163.33 (£139 ex VAT)	£233.85 £259 ex VAT
Max resolution (dpi)	1,200 x 600	720 x 360	720 x 360	720 x 360
Min resolution (dpi)	300 x 300	720 x 360	360 x 360	720 x 360
No. of colours	9	4	4	4
No. of cartridges	4	1	1	1
Photo specific cartridge	●	○	●	●
RAM req by driver	8Mb	Win 3.1 compatible	Win 3.1 compatible	Win 3.1 compatible
Size (h x w x d) mm	190 x 449 x 280	57 x 300 x 158	171 x 361 x 215	203 x 383 x 232
Costs				
Mono cartridge	£4.11	£28	£19	£26
Mono refill	N/A	£4	N/A	N/A
Colour cartridge	£4.70	£34	£24.99	£40
Colour refill	N/A Metallic £6.46	£5.00	N/A Photo £24.99	Black £5.40 CMY £15.00
Special cartridges	White £7.64 Finish £4.68	Scanner £104.57 inc	Flourescent £24.99	Scanner £104.57 inc Photo £27.99 Flourescent £33.99
Paper tray capacity	100	30	100	100
Max print area (mm)	203 x 270	203 x 287	203 x 284	203 x 287
Drivers				
Windows 3.1	●	●	●	●
Windows 95	●	●	●	●
Windows NT	Early 1998	○	○	○
OS/2 / other	○	○	○	○
Ink saving mode	○	○	○	○
Warranty	1 year	1 year Int'l RTB, parts/labour	1 yr RTB	1 yr RTB
Bundled software	T-Shirt maker (PC) Print Artist (PC) PhotoDelux (Mac)	None	Catz, PrintMaster Thomas Cook Voucher	Catz, PrintMaster Thomas Cook Voucher

Table of Features					
Personal Computer World Highly Commended					
Manufacturer	Epson	Hewlett-Packard	Lexmark	Lexmark	Lexmark
Model	Stylus Color 300	DeskJet 890C	1000	2030 PE	7000
Telephone	01442 261144	0990 474747	01628 481500	01628 481500	01628 481500
URL	www.epson.co.uk	www.hp.com	www.lexmark.com	www.lexmark.com	www.lexmark.com
RRP (inc VAT)	£186.83 (£159 ex VAT)	£399.50 (£340 ex VAT)	£129 (£109.79 ex VAT)	£169 (£143.83 ex VAT)	£299 (254.46 ex VAT)
Max resolution (dpi)	720 x 360	600 / PhotoRET	600 x 600	600 x 300	1,200 x 1,200
Min resolution (dpi)	360	N/A	N/A	N/A	N/A
No. of colours	4	3	3	6	4 + Photo
No. of cartridges	1	2	1	2	2
Photo specific cartridge	○	○ - built in	○	● included	●
RAM req by driver	16Mb	N/A	N/A	N/A	N/A
Size (h x w x d) mm	347 x 206 x 162	376 x 444 x 226	170 x 360 x 175	188 x 462 x 238	305 x 432 x 267
Costs					
Mono cartridge	See colour (CMYK)	£21.20	£20.20	£20.20	£18.73
Mono refill	N/A	N/A	N/A	N/A	N/A
Colour cartridge	£18 (CMYK)	£25.80	£21.89	£21.89	£22.59
Colour refill	N/A	N/A	N/A	N/A	N/A
Special cartridges	None	N/A	N/A	Photo - £25.26	N/A
Paper tray capacity	100	150	30	100	150
Max print area (mm)	216 x 356	266 x 356	203 x 280	203 x 282	203 x 282
Drivers					
Windows 3.1	●	●	●	●	●
Windows 95	●	●	●	●	●
Windows NT	○	●	●	●	From Jan 98
OS/2 / other	○	MSDOS	○	○	○
Ink saving mode	○	●	●	●	●
Warranty	1 year RTB	1 year	1 year on-site	1 year on-site	1 year on-site
Bundled software	None	FontSmart	None	None	None

Key: ● Yes ○ No

New Desktop printer range from Oki



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- 4ppm
- Windows 3.1x/95/NT Compatible



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- 6ppm
- PCL5e
- 1Mb Memory
- Windows 3.1x/95/NT Compatible



OKIPAGE 6ex
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- PCL5e
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OKI

People to People Technology

Agenda

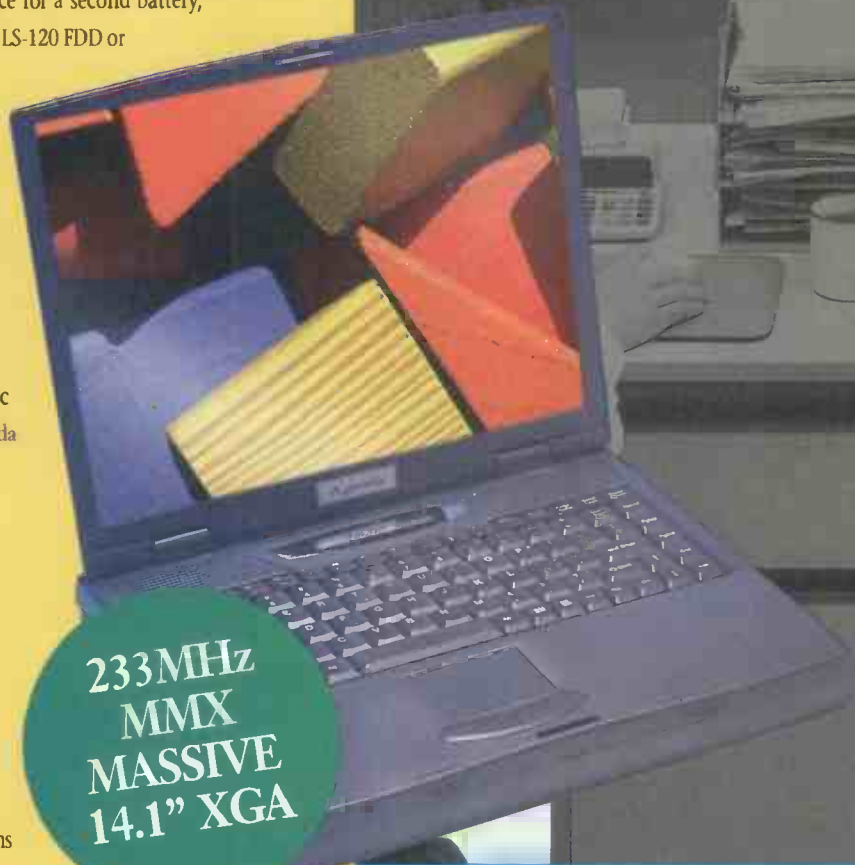
Top of the Agenda's exciting attributes is the massive 14.1" XGA TFT screen, the largest you will find on any notebook PC.

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- Video Capture & MPEG Playback
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Agenda 730

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- 3.2Gb HDD
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- Li-ION battery

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Agenda 820

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- 64Mb SDRAM
- 14.1" XGA TFT
- 3.2Gb HDD
- 20xCD-ROM
- Li-ION battery

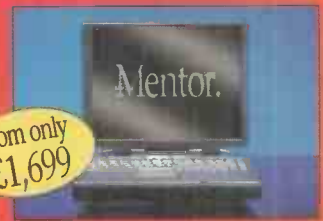
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Agenda 830

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Mentor. 520 Mentor. 620

- | | |
|--|---|
| <ul style="list-style-type: none"> • 200MHz MMX • 48Mb EDO RAM • 256k Cache • 12.1" SVGA TFT • 2.1Gb HDD • 20xCD ROM • NiMH battery | <ul style="list-style-type: none"> • 200MHz MMX • 48Mb EDO RAM • 512k Cache • 13.3" XGA TFT • 2.1Gb HDD • 20xCD ROM • Li-ION battery |
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5 INTO 1 WILL GO

5 CD's will now fit happily in the same space as one, out of harms way to be called up when ever they are required. Makes a lot of sense and costs around the same price as a single drive.



The Nakamichi high performance CD ROM Mini Changer is a world first. It has 16x Max speed, fits in a single half height bay and works horizontally or vertically. There are no caddies, magazines or trays just a simple quiet disc loading mechanism. It's a bit of a wizz really.

The Nakamichi IDE Mini Changer costs £99 plus VAT and is available from the following stockists:

Where you can buy the mini-changer:

- ACTION COMPUTER SUPPLIES 0800 333 333
- DABS DIRECT 01942 794000
- POWERMARK PLC 0181 956 7777
- SIMPLY COMPUTERS 0181 523 4020
- SOFTWARE WAREHOUSE 01675 466467
- TECHNOMATIC 0990 246222
- WATFORD ELECTRONICS 01582 745555

Where you can buy a system with the mini-changer:

- BLUE CHIP DATA SYSTEMS 01202 660660
- COMPUTER CHOICE 01932 781010
- ROLDEC SYSTEMS 01902 456464
- SCAN COMP 0161 724 4910





Fun and **games**

There's lots of fun stuff on sale at Christmas, and if Santa were less of an honest man, he would be tempted to run off with some of these PC goodies.

Christmas is a time for giving and, of course, receiving. But it's also one of the best times for learning and playing, so this month we take an extra-special look at what you might like to give, or receive.

No Christmas computer season would be complete without a bit of gameplay, so this year we've reviewed a wide variety of games to help you decide which ones will be top of your Christmas list and which will not. We give you the lowdown on the forthcoming

Tomb Raider II and the controversial Postal, as well Riven — the thinking-person's game.

And what's a game without a joystick? Check out our peripherals round-up on page 164 and find out what's shaking with the new force feedback joysticks and the PC Dash gamepad.

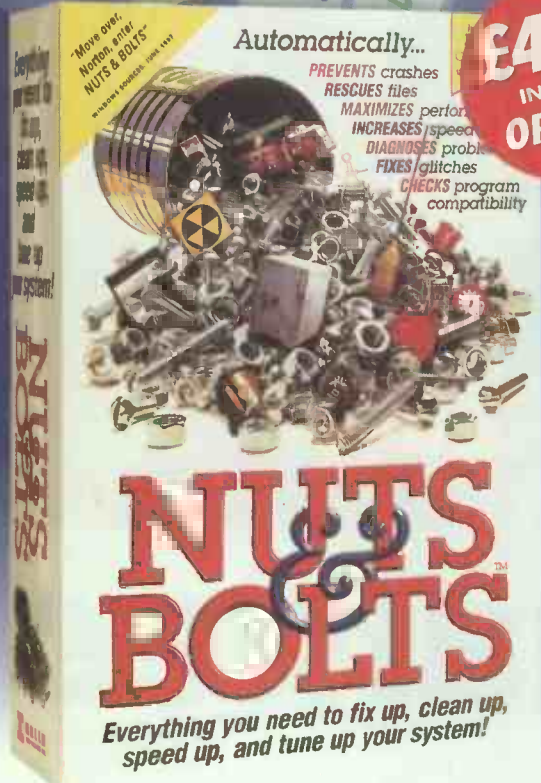
For those more into learning curves than high-speed bends, you'll certainly want to read our round-up of this year's best educational and reference CD-ROMs on page 166.

p159 >

IF YOU ONLY BUY ONE UTILITY

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"To come close to the features that Nuts & Bolts offers, you'd need to buy 3 Symantec packages at over £150"

PC ADVISOR, November 1997

NUTS & BOLTS is a package of brilliant, virtually automatic utilities that **PREVENT** crashes, **OPTIMISE** your hard drive, **ELIMINATE** conflicts, **REPAIR** damage, **SECURE** files, **SHRED** sensitive stuff, **ALERT** you to problems, **RESCUE** lost files, **DIAGNOSE** your system, **INCREASE** speed, **FIX** glitches and **CHECK** program compatibility. ...There's just no comparison

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Defragment your hard drive and organise it so that the programs you use most are at the front of your hard drives for quick access. Launch your favourite programs with one click. Anytime! Optimise and defragment your registry for a faster boot-up.

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FEATURE	NUTS & BOLTS	Symantec Norton Utilities	Cybermedia First Aid	QDEK Essential Utilities
Easy to use Central Interface with Integrated look & feel	YES	-	YES	-
Repairs & Recovers Damaged Files and Hard Drives	YES	YES	-	-
Automated Clean & Repair Windows Registry	YES	Minimal	YES	-
Rebuild & Optimise Registry for maximum performance	YES	-	-	-
Optimise Hard Drive (N&B Disk Tune is up to 5x faster)	YES	YES	-	-
Clean up Hard Drive	YES	YES	-	YES
Provides Detailed System Info	YES	YES	-	-
Protects against accidental file delete	YES	YES	-	-
Emergency Rescue & Recovery	YES	YES	Minimal	Minimal
Hardware Diagnostics	YES	DOS only	-	-
Live System Monitor	YES	YES	-	-
Crash Recovery	YES	-	-	YES
Crash Protection	YES	-	-	-
Easy System Configuration	YES	YES	-	-
Zip/Unzip Files	YES	-	-	YES
Drag & Drop Zipping	YES	-	-	YES
Zip Integrated with file and Hard Drive Cleanup	YES	-	-	-
Encrypt/Decrypt Files	YES	-	-	YES
High Security Encryption	YES	-	-	-
Security Integrated with File Compression	YES	-	-	-
Secure Erase Feature	YES	-	-	-
Secure Erase works with compressed drives	YES	-	-	-
Self Decrypting Files for easy e-mailing	YES	-	-	-



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ALL TRADEMARKS ACKNOWLEDGED. E&OE INFORMATION CORRECT AT TIME OF GOING TO PRESS.

Tomb Raider 2 starring Lara Croft (Preview Edition)

The title alone should provide some indication of what will be the major draw for a certain proportion of the male population. Core Designs has gone the way of Hollywood and is giving a buxom bundle of pixels, one of its greatest assets, equal billing to the name of the game. And who can blame them? The

Lara Croft Appreciation Society web site boasts over 47,000 hits and rumours are rife that Demi Moore is in negotiations to play the character in a forthcoming film.

Whether that is true or not is up for debate, but sometimes the hype can be justified and this looks like one such occasion. With dynamic lighting, Lara can now use flares

to light up dark corners. New-found skills mean she can scale walls, and weapons like underwater harpoons give her a more dangerous edge, too.

The gameplay is admirable and there is the promise of an intricate

It's enough to drive you up the wall!

storyline to match.

Set across two continents, Lara searches for the Dagger of Xian, a legendary artefact said to bring the power of the dragon to whosoever plunges it into their heart. *Don't try this at home, kids!*

We were playing a preview but the full version will see her travel through China, Tibet and Venice. There's even one whole level set in the scene of a sunken ship, where she is pursued by adversaries, racing to get to the dagger before her.

Eighteen new levels, many refinements, realistic sounds and super-smooth movement makes this game a must for all Tomb Raider fans, and for those who have never met Lara before, it looks like you're in for a treat. Watch out for a full PCW review upon release.

Nik Rawlinson



PCW Details

Price £39.99

Contact To be sold through retail outlets (tba) from the end of November.
www.tombraider.com

System Requirements Windows 95, 16Mb RAM, quad-speed CD, P90 minimum (133 recommended).

★★★★

International Rally Championships

Several months ago, I lost a considerable amount of quality time (normally spent with my bed) thanks to Network Q RAC Rally Championship. Under the innocent surface beats the heart of a superbly addictive and exciting racing game. The graphics are excellent, gameplay is just right, and the hookability factor is distressingly high.

I'd just about weaned myself off it when the sequel arrived, this time lacking the official Network Q RAC sponsorship and TV's Tony Mason as co-driver with words of wisdom, but making up for it with improvements all round in gameplay.

Unlike its predecessor, which could speed along in DOS mode, International Rally Championships (IRC) is for Windows 95 only.

Using DirectX 5 and supporting MMX, IRC requires at least a 16Mb P100. This is just about sufficient, but to have all the visual options switched on, you'd be better off with at least a P166. IRC really comes into its own with a 3D graphics card.

International tracks take you across the deserts of Egypt, over Swiss mountain passes, through Indonesian jungles and

skidding around Finland (the green hills of England also get a look-in).

There's the choice of nine cars from the current rally season and each are beautifully modelled, with independent suspension and realistic handling. A variety of racing modes includes the new Championship mode which swaps time limits for fuel stops. You can play with eight people across a network, or two via a serial link or split-screen mode.

IRC includes a track editor for creating custom circuits — a neat idea, but I just wanted to get on with the game. It's superb. The programmers at Magnetic Fields must once again be congratulated. At least I suited the bags under my eyes!

Gordon Laing

Personal Computer World Recommended



Say goodbye to Tony Mason as well as to several nights' sleep

PCW Details

Price £44.99

Contact Europress 01625 859333
www.europress.co.uk/

System Requirements Pentium 100, 16Mb RAM, Win95, CD-ROM drive, 16-bit sound card.

★★★★★

Riven

Riven is billed as the sequel to Myst, but requires no previous knowledge of the game. Arriving on Temple Island you find yourself imprisoned in a cage. Fortunately, someone releases you before disappearing, leaving you wondering what that strange, cone-shaped, device can be. Why does it have an eyepiece? Why don't the levers do anything? At this stage you'll probably wander off to ponder the puzzle of the room with five entrances but only two exits... Or is it the other way around? And



what are all these mysterious daggers? You can't seem to pick them up (there's no combat or other violence in this game) but they seem to indicate something useful.

Sooner or later you're going to find a mode of transport between the islands. What can these pairs of cables be, which snake across the sea? What are those creatures basking on that rock? Move carefully or you'll frighten them away. Who left these strange, wooden eyes around, and what do they signify?

Observation is everything in this game: almost every event has significance and every lever and handle needs to be pushed or pulled. The puzzles are fiendishly subtle and the atmosphere

**Virtually real:
The
compelling
world of
Riven**

and attention to detail is riveting.

Vintage machinery abounds, with bronze and steel bearing the patina of age and satisfyingly scraping and hissing as it lumbers into action. Rock and wood textures are meticulously rendered with breathtaking lighting effects. The animation is stunning: the rides on the cable cars dip and sway, accelerate and slow down as the car travels the catenaries of the cables. Water shimmers and flows, insects and birds buzz around the scenes in near-video quality.

Riven is huge, with five CD-ROMs, and it's fiendishly compelling. Don't buy this if you value early nights.

Tim Nott



PCW Details

Price £44.99

Contact Broderbund 01784 431000
www.riven.com

System Requirements PC: Windows 95, P100, 16Mb RAM, 75Mb hard disk space, DirectX compatible video and sound cards. Mac: System 7.5, 90MHz PowerPC, 9Mb free RAM, 65Mb disk space. 4x CD-ROM, 640 x 480 display

★★★★★

Postal

Stop for a moment and cock an ear in a westerly direction. You might just be able to make out the commotion that this game has caused in the United States.

The term "postal" refers to a number of postmen who went berserk, venting their frustrations by shooting their co-workers. It's a worrying social phenomenon and now it's also a game for your PC. You play the role of a guy who's gone postal, whose only wish is

to kill and maim as many people as possible. That's the plot — it doesn't get any more complicated.

At the beginning of each level you are given the number of "hostiles" that you need to polish off in order to get to the next level. Your victims will writhe in agony for a while before dying, shouting "Aargh, my leg!" or "Aargh, kill me now!" (similar to the way I felt after playing Postal for a couple of hours).

The gameplay betrays an appalling lack of imagination: the game environment looks pretty enough but there's no interaction. You can't even knock the head off the snowman

**You play one
bad dude in
a really bad
(and we
mean bad)
game**

on your lawn, and the movement of the characters is

about as convincing as my Gary Glitter toupe.

The violence in Postal means the makers recommend that only people over the age of 17 should play this game, but I think that is unnecessarily harsh on us adults: why should we have to play it when children can get off scott free?

The controversy surrounding Postal in the United States is understandable and, as is always the way, provides excellent publicity. A far better way of suppressing it is just to tell the truth: it's a terrible game. Don't waste your money.

Adam Evans



PCW Details

Price £34.99

Contact Take 2 Interactive Software Europe
www.runningwithscissors.com

System Requirements Windows 95 or NT, 90MHz processor (166MHz recommended), 16Mb RAM (32Mb recommended), 2X CD-ROM drive (4X recommended), SVGA display, SoundBlaster-compatible sound card.

No rating



Perfect Assassin

Fans of the comic series *2000AD* will want to get their hands on *Perfect Assassin*, the brainchild of Kev Walker, concept artist for the movie, *Judge Dredd*.

Set in the rotating city of Kar-Es-Taal, you direct Charon, the last surviving human in the galaxy, on his mission to protect the power source of the universe.

Richly illustrated, the superb graphics, smooth-scrolling and simple-to-use interface help you get straight into this mostly graphical, part-textual strategic adventure. Believable sounds add to the reality, and we were glad to discover that it is largely free of irritating background music.

Sometimes you just have to get nasty



Where is the Jukebox SLIMEBALL!!!

You cruise the city, interacting with characters, asking them for help or for objects and directions that you need to complete your mission. If they prove to be uncooperative, you could use your gun, but beware: the militia maintains the peace, so killing another character could result in suffering a similar fate yourself.

All control is through the mouse: move, shoot, use objects in your inventory, and chat to people using simple cursor movements and

single clicks. What is disappointing is that some characters are too busy to talk, which forces you to search for someone who *has* got the time to chat. When you eventually do get to have a conversation, you must read the subtitles to understand what is being said. And no matter what the content of a sentence, what you hear as a gameplayer often seems to be the same.

This is a spectacular game, with all the elements of what ought to be an entertaining science-fantasy romp. But there is something lacking, and the need to carry out "research" as you progress, although innovative, did not help to fire up my imagination. It just left me feeling uninspired.

Nik Rawlinson

PCW Details

Price £39.99

Contact Grolier Interactive 01865 264800
<http://gi.grolier.com>

System Requirements 486 DX2 66, 8Mb RAM (Windows 95), 16Mb (DOS), 20Mb HDD, CD-ROM, 16-bit sound.

★★★

Fin Fin on Teo, the Magic Planet

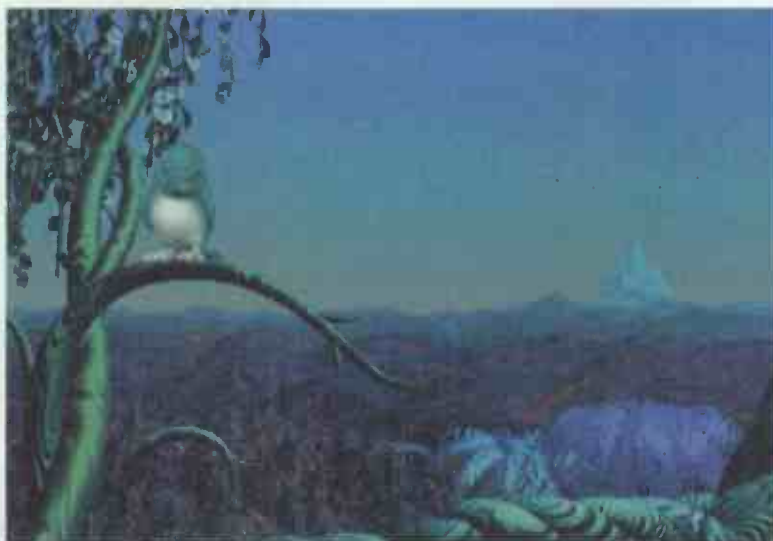
Virtual pets are appearing in truck-loads these days.

We've all heard of the Japanese Tamagotchis, some may have seen Hewlett-Packard's MoPy fish. Now, the hottest thing to hit the market is Fujitsu's Fin Fin.

Fin Fin is reputed to be the most advanced form of artificial life available in entertainment technology today. Not only do you have to feed and play with him, you also have to sing and talk to him. A special microphone and Fin Fin whistle are supplied.

Fin Fin seems to be a cross between a dolphin and a bird and lives on the planet Teo. It consists of three special places: the happy Amile Forest, which is Fin Fin's favourite place and the ideal setting to get to know your new friend; the enchanting Tsubu Woods, where Fin Fin eats; and the water hole of the Secret Inlet where Fin Fin will go to catch fish or be alone.

Over time, you will build up a lasting



He flies, he smiles, and he will sing to you. He is very friendly, too — your kids will love him

friendship with this little animal. In return for food and attention he will sing for you, dance for you and do the odd trick. If you're lucky, you might even get to meet Mrs Fin Fin! A bioscan will let you know how happy Fin Fin is and whether he is in need of anything.



Fujitsu's proprietary artificial life technology replaces the traditional keyboard and mouse interface. You communicate with Fin Fin through sound and motion by using the SmartSensor.

This game is magic and will teach kids the skills of patience, communication and friendship building. Fin Fin could be a friend for life! Ideal for kids aged five and upwards.

Etelka Clark

PCW Details

Price £29.99

Contact Fujitsu 01344 475000
www.fujitsu-interactive.com/finfin.html

System Requirements Windows 95, CD-ROM drive, 16-bit sound card.

★★★★

Chasm — The Rift

The ominously titled Chasm — The Rift is the latest game from Digital Integration and an experience for which the term "bloodthirsty mass homicide" seems hopelessly redundant.

You play a marine whose task it is to infiltrate the bases where time-meddling mutants have taken over, defeating the zombies by completing a number of missions, all seemingly codenamed Certain Death.

There is a full complement of weapons to collect, all of which come in handy when being attacked by the murderous locals.

There are ordinary "grunts", jet-powered baddies and

"'Ere... You lookin' at me?!"



unstoppable chainsaw-happy types to defeat. The chunky 3D rendering (in 640 x 480 pixels) displays in an array of rich colour and together with the object-linked stereo soundtrack, unsettles and deafens in equal measure.

One of the more interesting features of this game is the game editor included in the software, which allows you to design rooms, aliens, and even your own lighting. There is also the option of bringing a text box up on-

screen while playing, through which a range of commands can be entered. If you become frustrated by being hideously dismembered every ten minutes, just enter the invincibility or the invisibility commands. Even though immortality has its appeal, it does take willpower not to blast your way through the levels and finish the game without even having worked up a sweat.

An important point to note is that Chasm can run in either DOS or Windows, so it's even possible to enjoy large-scale decapitation on a 486. This is a game that deserves to be played on as many PCs as possible because it's a scream-laden, trap-ridden, blood-spattered terror for which the designers deserve no little praise.

Paul Trueman



PCW Details

Price £29.99

Contact 01276 684959 www.digint.co.uk

System Requirements 486DX/4-100 (Pentium recommended), VGA/SVGA display, 16Mb RAM, 75Mb free hard drive space, MSDOS 5.0 or Windows 95, double-speed CD-ROM.

★★★★

Virtua Fighter 2

Having established itself as the undisputed heavyweight champion of the arcades, Sega is now playing for a large slice of the PC games market. Following its success with Sega Rally and Virtua Cop, Sega's latest move is a conversion of the smash-hit beat-em-up, Virtua Fighter 2.

With ten fighters from which to choose, each with over 60 moves, there is a lot to get

your teeth into. Characters on offer range from Kung Fu masters through to Canadian wrestlers and fancy Frenchmen, each with their own fighting styles. The idea behind the game is simply to select your favourite and then take on the other nine fighters in a bout of hand-to-hand combat.

Unfortunately, the character selection screen is about the only thing that runs at the original arcade speed. As with other Sega

titles you can change graphic detail to suit your PC, but anyone expecting arcade quality will be severely disappointed. Even on a 300MHz Pentium II we couldn't achieve a decent

performance with all the options turned on. What's more, there's no support for 3D graphics cards, which are designed specifically for this type of game. However, once you've reduced everything to the bare essentials, the game plays just as it did in the arcade. It's easier (we managed to finish it in just under ten minutes) and all the tricks and tactics that worked on the original seem to work here. The excellent soundtrack is included, as are the sample voices.

Compared with its console counterpart, Virtua Fighter 2 for the PC is a big disappointment when played on today's machines. But it will be interesting to see how it performs on next year's new PCs.

Chris Cain



"No, please, Missus... I can't take any more"

PCW Details

Price £39.99

Contact Sega 0181 995 3399

www.sega-europe.com

System Requirements Windows 95, Pentium 90 or better, 16Mb memory, 16-bit SoundBlaster compatible sound card, 2X CD-ROM.

★★



Linear Computers Diamond Unit

We were stunned when the Unit arrived in five boxes — a huge amount of packaging — but impressed by the feeling of quality once the PC had been assembled.

Internally the machine was tidy and the cables were neatly tied. A large, purple power button and two coloured lights on the front make for a pleasing design. At the rear, ports are unlabelled and there are no USB connectors. There are six SIMM slots, four of which are free, allowing for memory expansion up to 256Mb.

The keyboard detracted from the quality of the machine mainly because it was mapped incorrectly as a US keyboard. Certain

symbols weren't where they should have been and the setup needed to be corrected: a quick and simple adjustment, but nevertheless something which the manufacturer should not have overlooked.

The keyboard also featured a somewhat bizarrely named "Turbo" key. This key (and similarly the Turbo button on the front of the PC) appeared to do nothing when pressed and its function remains a mystery.

The mouse was standard Microsoft issue and worked faultlessly. The 120W speakers produced a great sound, and the sound-card software was easy to configure and use.

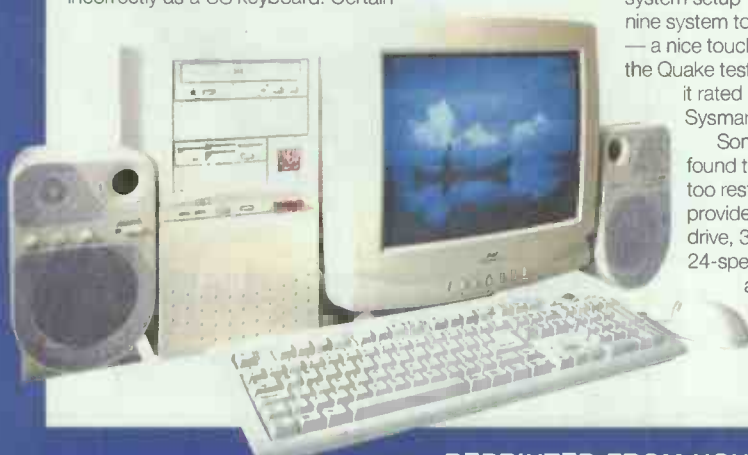
There was no bundled software but the system setup was fine and all nine system tools were installed — a nice touch. Performance in the Quake test was excellent and it rated at fifth place in the Sysmark ratings.

Some manufacturers found the £699 budget too restricting, but Linear provided the largest hard drive, 32Mb RAM, a 24-speed CD-ROM drive, a 4Mb graphics card and a 15in monitor, showing that a budget PC

needn't be lacking in decent components or performance.

Monitor Shinho's AV2 15in CRT display showed no flickering, no streaking and little shadowing. It is MPR II compliant and put in a strong performance.

Aesthetic appeal is high due to the flat screen and nice controls. The dot pitch is 0.28mm and supports a vertical refresh rate of 50-120Hz at 800 x 600.



PCW Details

Price £821.33 (£699 ex VAT)
 Contact Linear Computers 0800 622094
www.lin-pic.demon.co.uk
Good Points Large hard disk. Fast CD-ROM. 4Mb graphics card. 15in monitor.
Bad Points No DIMM slots. No bundled software. Keyboard.
Conclusion A worthy choice. Well specified, with average performance and a quality monitor.
Build quality ★★★★★
Performance ★★★
Value for money ★★★★★
Overall rating ★★★★★

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The Diamond unit as reviewed above, specified a Gigabyte HX chipset Motherboard. Attention was drawn to the lack of SDRAM DIMM Sockets. We have therefore upgraded to a TX chipset Motherboard, incorporating two SDRAM DIMM Sockets and the Intel TX Chipset. These two improvements represent further future proofing to THE EDITORS CHOICE THE LINEAR DIAMOND UNIT

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 Kimpton Trade & Business Centre,
 Minden Road, Sutton, Surrey SM3 9PF



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Sidewinder Force Feedback Pro



There are two force feedback joysticks currently on the market, with more on the way. But naturally, Microsoft is one of the first to market. And why not? Force feedback is a component of Microsoft's DirectX 5.0 API (application programming interface) and it makes sense that it would have the jump on the rest of the competition. The

Sidewinder Force Feedback Pro is truly a joy to use. The stick fits comfortably in the hand (right hand, that is) and all the buttons are within easy reach of one another. There are five buttons on the stick: a trigger, one eight-way button and three thumb buttons. On the base — which is, admittedly, a bit large — are a further five buttons and one adjustable knob which can be used as a throttle. All the buttons are programmable via the Sidewinder Pro profiler, which allows you to select and record a variety of button sequences that can be used in the various games you play. This can be handy in a game like Quake, where one push of a button can launch you into a death-defying jump, sidestep and shoot action. The joystick is digital, so no clumsy calibration is required. You'll also find

the action very precise. The forces, like the CH stick, vary from soft to hard vibration, push and pull, jolt, and stiff. If you're into flight sims or serious shoot-em-ups, this is the stick for you. It makes for very addictive game-playing.

Dylan Armbrust

PCW Details

Price £130

Contact Microsoft 0345 002000
www.microsoft.com

★★★★★

Force FX



This has to be the biggest joystick we've ever seen, with a massive footprint of 9in x 9in. There is a separate power adapter and two 7ft connection cables: the feedback effects require simultaneous connection to your games port and a spare serial port. There are six built-in force feedback effects: Jolt (running into a wall), Vector Force (the pressure you feel in pulling Gs in your jet fighter), X & Y Vibration (driving over bumpy roads), Spring (stiff airplane throttle), Button Reflex (recoil from firing guns) and Buffeting explosions and air turbulence). The grip and buttons setup is modelled on CH Products' F-16 joystick range and incorporates two four-way switches, five fire buttons, a trigger and trim controls. The push buttons are rated to ten million presses and the four-way switches are rated to one million presses in each direction. Supported games include Need for Speed SE and Flying Nightmares 2, and the pick of the upcoming titles must be Outlaws, the wonderful western adventure from LucasArts.

Adam Evans

PCW Details

Price £149.99

Contact Dimensional Services
01844 345406
www.chproducts.com

★★★★★

Virtual Pilot Pro



Here's a handy multi-function device. The Virtual Pilot Pro wheel, from CH Products, can help you fly in those complicated flight sims or drive along in auto racing games. It has six fire buttons, two four-way switches, a realistic flight yoke, a throttle and a pair of sturdy desk clamps to keep you in the air, not on the floor. For the real highfliers, you'll even find elevator and aileron trim controls, giving you all the simulation options you could want. It works, it's cheap, and it's fun.

Dylan Armbrust

PCW Details

Price £104.95

Contact Dimensional Services
01844 345406

★★★

PC Dash

There's a whole new kind of peripheral on the market that's unlike any joystick or gamepad we've ever seen. It's the PC Dash, from Saitek. This peripheral is a hybrid: part keyboard and part gamepad. It's a bit like a writing tablet in shape and size, except you don't need to write. It's designed to take the arduous task of remembering which keyboard keys you need to push to operate a game's various functions.

To operate PC Dash all you do is plug it into the keyboard socket, load the software and insert a game sheet into the unit. Each game sheet has a specific bar code on the back which is read by a scanner on the Dash. Once enabled, it's ready for action. It comes with ten pre-programmed game sheets, such as Tomb Raider, Quake, Interstate 76, Command and Conquer: Red Alert, and MDK. It even has a Microsoft Word 6.0 sheet to make word processing easier.

There are three buttons and a gamepad on the left that handle the main functions, like look, draw, and escape, while the gamepad handles movement. On the bottom is a large, long button, like a space bar, that usually handles the fire control.

PC Dash is a good idea but it takes a bit of getting used to, and we found the gamepad to be a bit unresponsive. Also, because the Dash is flat, there is an anti-intuitive feel when pushing a function button, unlike that of a keyboard. But for those who are patient and hate using a keyboard when playing games, you might want to check it out.

Dylan Armbrust



PCW Details

Price £49.99

Contact Saitek 01454 855050
www.saitek.plc.uk

★★★

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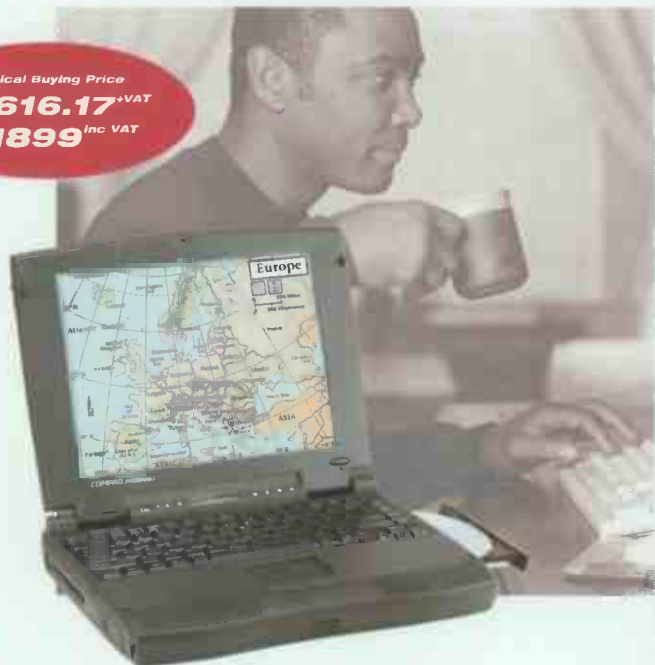
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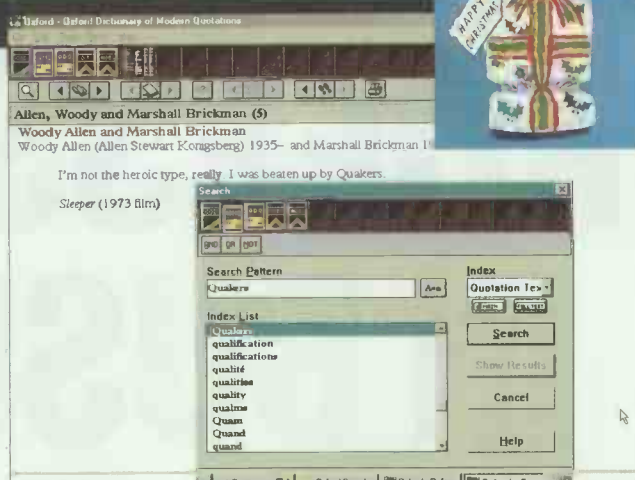
The primary reference source is an encyclopedia and the best encyclopedia you can buy — on or off the computer — is Encarta. Firstly, to all intents and purposes, it's British, so you don't get loads of largely irrelevant American entries, and it is updated every year. If you are on the internet you can download monthly entries that keep it slap bang up to date. Millions of words, thousands of photographs and hundreds of maps, along with charts, tables, photos, illustrations, 360-degree views, videos and animations, sound clips, guidance to good related web sites... you can just go on and on. There are two versions for 1998: Encarta 98 Encyclopedia (£49.99) and Encarta 98 Encyclopedia Deluxe (£79.99). The difference is that the latter has more multimedia content and comes with the Research Assistant, a useful application designed to help you organise your research notes, keep proper source citations, and organise the information in an outline from which you can construct a report.

A superb alternative is the two-CD-ROM World Book Multimedia Encyclopedia from IBM (£49.99). It has been localised in Britain, relates to the school curriculum, is packed with solid information, illustrations — many of extremely impressive quality, graphics, animations, maps and videos. Downloadable monthly updates, indications to related web sites (not as good as Encarta's), a free month's trial of the Electric Library, and a truly superb resource of full-text newspapers and magazines are available. But be warned — you have to sign up for the trial and give your credit-card details.

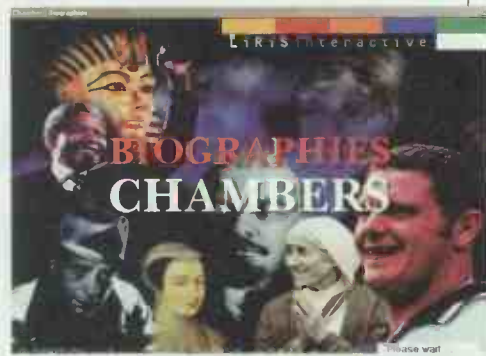
If Microsoft's slogan "Where do you want to go today?" relates to anything, it's to the Encarta World Atlas, an absolute must-have at £49.99. Text, video, audio, photographs and maps take you anywhere you want to go and tell you everything you're ever likely to want to know.

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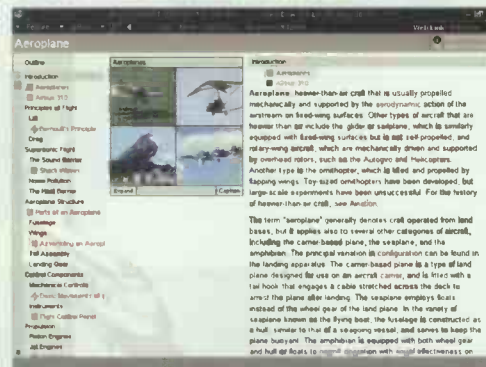
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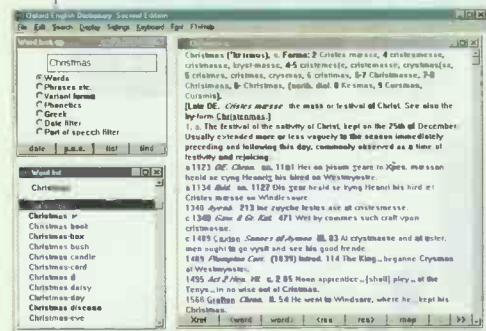


Right, above Chambers Biographies: A great CD-ROM, but it can be up to a decade out of date, so look upon it as a historical resource



Right, below Encarta: The best encyclopedia on or off CD-ROM

Above The OED: Expensive, but the most authoritative reference to words and their origins that money can buy



Below World Book Encyclopedia: Giving Encarta a run for its money

on CD-ROM (£29.99) is also a good choice.

The Oxford Compendium (£49.99) has reached version 3.0. It is a complete literary reference shelf on a single CD-ROM combining the Concise Oxford Dictionary (Ninth Edition), the Oxford Thesaurus, and the Oxford Dictionary of Quotations and Oxford Dictionary of Modern Quotations. A quick mention, too, of The Penguin Hutchinson Reference Library (£39.99). On a single CD-ROM you get Roget's Thesaurus, Longman Dictionary of the English Language, Penguin

Dictionary of Quotations, and Usage and Abusage, among many others. It's difficult to get away from Oxford University Press when it comes to the best reference CDs. The Dictionary of National Biography, or DNB (£411.25) is one of the major historical and literary achievements of the last hundred years and documents the lives of nearly 40,000 people. The Who's Who 1897-1996: One Hundred Years of Biography (£293.75) provides a wealth of biographical information about people of influence in all walks of life. An alternative is Chambers Biographies (£49.99) containing 24,000 pocket biographies derived from no fewer than eight Chambers reference books. Sadly, some of the biographies can be up to a decade out of date.

A great many reference titles are devoted to specific topics such as music, space exploration, wildlife and conservation, even cooking and wine. Several newspapers are available on CD-ROM, others have an electronic edition. The answers to many questions are just a few mouse-clicks away.

Paul Begg

PCW Details

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www.liris.com/version/uk.htm
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The Best Children's CD-ROMs of 1997

Family encyclopedias like Encarta serve general-interest purposes, but fall short for those studying a subject in any depth. Nor are they written with children in mind. To fill the gap, Dorling Kindersley has launched a new reference program, *Eyewitness Children's Encyclopaedia* (£39.99). Written for 7- to 11-year-olds, it uses pictures and animation as well as text to explain information.

For those wanting more depth on topics, there is now a better choice across the school curriculum. Geography is well served by *Globetrotter: The Complete Guide to all 265 Countries of the World* (£19.99), published by Eaglemoss and distributed by Koch Media. This is typical of the latest reference programs aimed at 8- to 14-year-olds. Information goes hand in hand with Key Stage 2 and 3 of the National Curriculum. When children look up a homework topic, they are highly likely to find what they need; not often the case with family encyclopedias. History students can turn to the new *Chronicle Encyclopaedia of History* (£29.99), published by Dorling Kindersley, which covers Key Stage 3 upwards.

The three sciences have received mixed treatment. The juiciest of the three, biology, has received the lion's share of new titles. *Bodyworks 6.0* (£29.99) is an updated version of The Learning Company's established title. With a better search engine and lots of rotating 3D anatomical pictures, this remains an excellent journey through the human body. *A.D.A.M. The Inside Story* (£29.99) from Mindscape covers similar ground. For younger children interested in the animal kingdom, *Amazing Animals* (£29.99) from Dorling Kindersley is great fun. As well as having new games, the CD-ROM comes with stickers, a mobile and a fact book. New general-science programs which cover chemistry and physics as well as biology, include *Hutchinson Science Library* (£39.99), published in association with the Science Museum by New Media, and Dorling Kindersley's updated *Eyewitness Encyclopaedia of Science 2.0* (£39.99).

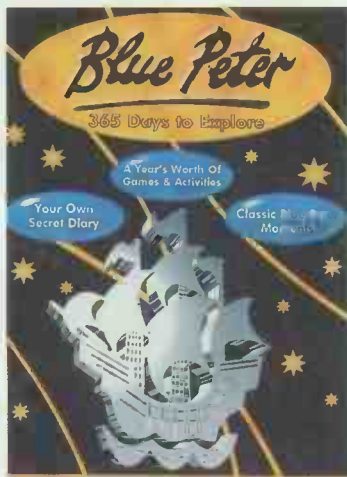
Primary school numeracy and literacy, the subject of so many titles, has seen some useful new additions. *Treasure Mathstorm* (£29.99) from the Learning Company is an excellent program for practising mental arithmetic and building basic numeracy. The Learning Company has also localised its *Reader Rabbit* range (£24.99 each), which is unusual in that it begins at 18 months. *Teletubbies* fans will recognise the sound principle of repetition in the toddler program. There are also titles for pre-school and kindergarten age.

The arts have seen some excellent additions this year. *IBM Brings You Crayola* (£19.99 each), a series of four titles published by Iona, will keep children amused for hours and includes a fashion program aimed at girls. *Broderbund's Orly's Draw A Story* (£29.99) is innovative. It animates and incorporates your pictures into the narrative of four charming Jamaican tales retold by Orly and her friend, Lancelot the frog. Children find this fascinating.

Printpaks from Anglia Multimedia has introduced new titles including *Printpaks Super Jewellery Kit* (£29.99) and *Printpaks The Lost World: Jurassic Park Iron-on Gear* (£29.99). Last but not least, Disney's *Magic Artist* (£39.99) is a knockout with children of all ages.

The other main development in the market reduces the likelihood of serious learning from all those new educational titles. Fun learning may win out instead. Disney has already shown how well films translate to CD-ROM with *Toy Story*. Dreamworks Interactive has followed with *Chaos Island* (£29.99), an adventure based on the film *Jurassic Park* and its sequel, *The Lost World*.

BBC Multimedia is using its TV formats with programmes like *Live & Kicking* and *Blue Peter*, both



The nation's favourite TV programme goes interactive



Above DK's *Eyewitness Children's Encyclopedia* is the best reference product for 7- to 11-year-olds. Right Go digital with *Lego Island*



now on CD-ROM. According to children, *Blue Peter* CD-ROM (£24.99) is "just like *Blue Peter*". *Live & Kicking* CD-ROM (£29.99) allows kids to make their own version of the popular Saturday morning show.

For younger children, *Pingu* CD-ROM (£24.99) from BBC Multimedia is enormously popular. The games are played for hours and teach mouse control to three-year-olds and upwards.

As well as films and TV, the big guns in the toy market have decided to harness the new processing power of computers. Mattel Media continues to add titles using its best-selling doll, Barbie, distributed by JM Interactive. The best of this year's programs is *Barbie Magic Hairstyler* (£39.99) in which you prepare her hair, make up and jewellery for outings like dream dates and fancy dress parties. What a life.

Lego, in association with Mindscape, has published *Lego Island* (£29.99), a great fun and addictive program which is quite different from building models with the real thing.

And Hasbro's Interactive division has launched a whole range of multimedia games including *Monopoly Star Wars Edition* (£39.99), *Boggle* (£19.99) and *Trivial Pursuit* (£19.99).

Debbie Davies

PCW Details

- Anglia Multimedia 0171 579 4400 www.anglia.co.uk
- BBC Multimedia 01483 204450 www.beeb.com
- Broderbund 01784 486918 www.broderbund.com
- Disney Interactive 0181 222 1571 www.disney.com/DisneyInteractive
- Dorling Kindersley 0171 753 3488 www.dk.com
- Dreamworks Interactive 0345 710120 www.dreamworksgames.com
- Eaglemoss 0171 581 1371
- Fox Interactive 01753 549442 www.foxinteractive.com
- Hasbro Interactive 0181 569 1234 www.hasbro.com
- Iona 0181 296 9454 indigo.ie/~ionasoft
- JM Interactive 01703 650759
- Koch Media 01420 541 880 www.kochmedia.co.uk
- The Learning Company 0181 246 4013 www.learningco.com
- Microsoft 0345 710 120 www.microsoft.com
- Mindscape 01444 246 333 www.mindscape.com
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Futura 1792UA



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1785XE,
MacFormat, Jan 97



1785S,
PC Guide, Sept 96



1785XA,
PC Magazine, Dec 96



1765D,
The Mac, Jan 97



1569MS,
PC World, July 96

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Christmas Wishes: Gordon Laing

I love Christmas, and this year, instead of subjecting Hands On readers to my homemade Christmas card, I'll be raving about what's caught my eye in 1997.

None of your extraordinarily pricey stuff either: I'm going to pick out the affordable and keep the aspirational for another day. All the prices shown are approximate "off-the-ad-page" street quotes, including VAT.

■ Ever thought that files conspire to be larger than a floppy disk just to be awkward? Don't be beaten — buy an Iomega ZIP drive! At £105 for the drive and a tenner for each 100Mb removable disk, it's captured the heart of PC suppliers and users alike: nine million units shipped worldwide can't be wrong! I would really like a ZIP so that I wouldn't have to keep carting my own drive back and forth from work to home.

■ This year has seen the PC really score as a games platform. Pop in a 3D graphics card and you're gonna get a system which pans the dedicated consoles. Last month, ATI's Xpert@play was the Editor's Choice in our annual 3D graphics card group test, and it's a cracker. I guarantee it will put a smile on the face of any games player this Christmas. A bargain at £163, and you can even plug it into your telly when the Queen's speech comes on!

■ You'll need something to play, and 3D card or not, my favourite this year is International Rally Championships from Europress (see the review on p159). Those who value their sleep will not thank for me for persuading them to part with its £45 asking price.

■ A good joystick, mouse or steering wheel is always a great gift, so check out page 164 for ideas.

■ If your PC is silent, you'll want to change that with a SoundBlaster from Creative Labs. I could recommend several other manufacturers, but Creative's cards are the easiest to install — the last thing you'll want to make at Christmas is a technical support call.

■ If you're into making your own music or just want the best sound for games, I'd go for the top-of-the-range AWE64 Gold at £125. Some decent magnetically-shielded speakers are always

welcome too, so try something from Yamaha's range.

■ A great stocking filler for the music lover is a MIDI keyboard, which plugs into almost any sound card and provides great "sing-along-a..."

Sea here: NEC's 14.1in MultiSync LCD400 monitor is a real cracker



Driving the deserts of Egypt with International Rally Championship

opportunities when the Christmas dinner has been devoured. Evolution offers several models starting from £35.

■ Those who want to make dance music should check out the Sound Engine Plus bundle from Time+Space. Consisting of Circle Elements, Steinberg Cubasis Audio Lite and SoundLab FunTools, this £39.95 package will get even Granny grooving.

■ There's nothing like having a laugh at the relatives, and if you can't do it at Christmas, when can you? Kai's Power Goo will have everyone in stitches for only £46, while those wanting to more sensibly remove red-eye or turn their photos into cards and calendars should go for the excellent Adobe PhotoDeluxe II at £58.

■ What do you mean, you haven't got any family photos in your PC? Budget flatbed fans need look no further than the £200 Agfa SnapScan 310 to do the job.

■ Digital cameras are undeniably sexy gadgets, if not a little pricey. But I must admit to falling for Sony's gorgeous DSC-F1 and Kodak's impressive DC210, at £465 and £750 respectively.

■ If Santa's pit were bottomless, I would just love a thin, flat-screen monitor. In our October issue roundup, NEC's 14.1in LCD400 stood out from the rest; a snip at around £2,000.

■ I would pursue my film career with a Sony digital camcorder, connected to my PC with a 1394 FireWire interface. Oh, and a Sony widescreen rear-projection TV, complete DTS surround-sound system, fast car...

[Okay, Gordon, that's enough.

Your mum says that giving is better than receiving. Ed.]

Gordon



PCW Contacts

Adobe Direct 0131 458 6842 www.adobe.co.uk
 Agfa 0181 231 4200 www.agfa.co.uk
 ATI 01628 533115 www.atitech.com
 Creative Labs 01245 265265 www.creat.com
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Christmas Wishes: Dylan Armbrust

Like some of my colleagues, I'd start my Christmas list with the most essential ingredient: a new PC. I have an old Pentium 75 at home which I have converted into a respectable Pentium 125 with the help of a handy and dandy Intel Overdrive chip. But the times they are a-changin' and it's about time to move up the ladder. I have been a good boy this year, so I would like to count on Father Christmas's generosity and technical nous and find the current PC of my dreams under the tree on Christmas morning.

■ What I would really like is an AMD K6 233-based PC with all the trimmings. Naturally I want the best, but I wouldn't push Father Christmas too hard knowing that even he probably has a budget to worry about. I would settle for a respectably-sized hard drive, mid-speed CD-ROM drive and a solid 15in monitor.

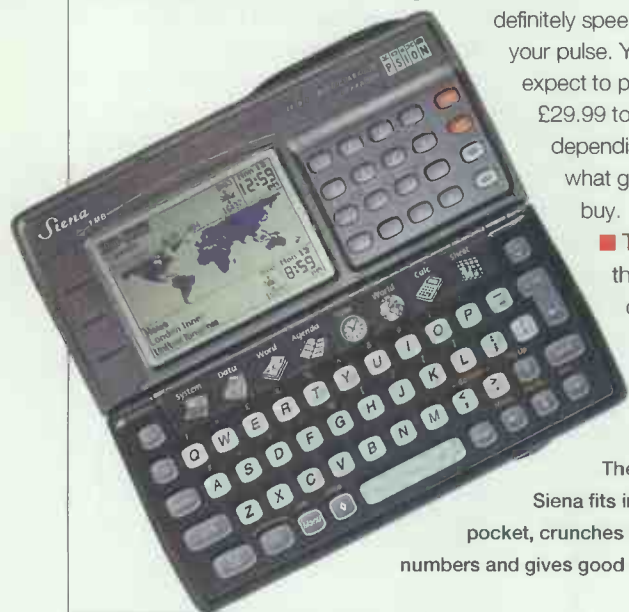
■ But being an avid games-lover who likes fast graphics and game speed I would try to get him to throw in a top 3D graphics card. The all-purpose ATI Xpert@play with 4Mb of SGRAM would do the trick nicely. It handles all manner of graphics, from fast 2D applications to complex 3D game graphics. But if its asking price of £163 were not possible, I'd settle for an affordable 2D graphics card such as Hercules' Stingray 64 video (only £46) and later buy the Orchid Righteous 3D add-in card. The Righteous 3D is now selling for about £116 on the street and it gives top performance and graphics.

■ To make the most of my new kit I'd want to play my favourite games of the year on it. Games are perfect stocking fillers and I'd trade oranges, chocolate and nuts for these any day. Top of my list is Red Alert: Command and Conquer. This game is not only fun, but it makes you think too. And the great part is that you don't need to be younger than 15 to enjoy it. There's also Microsoft's Flight Simulator 98, which has more flying fun than any of the previous versions and it will even let you try your hand at flying a helicopter. On the shoot-em-up side I'd have to go with the old standby, Quake, and MDK which is a new addition to my top ten favourites. The graphics are outstanding, the gameplay is intense and the background music will most

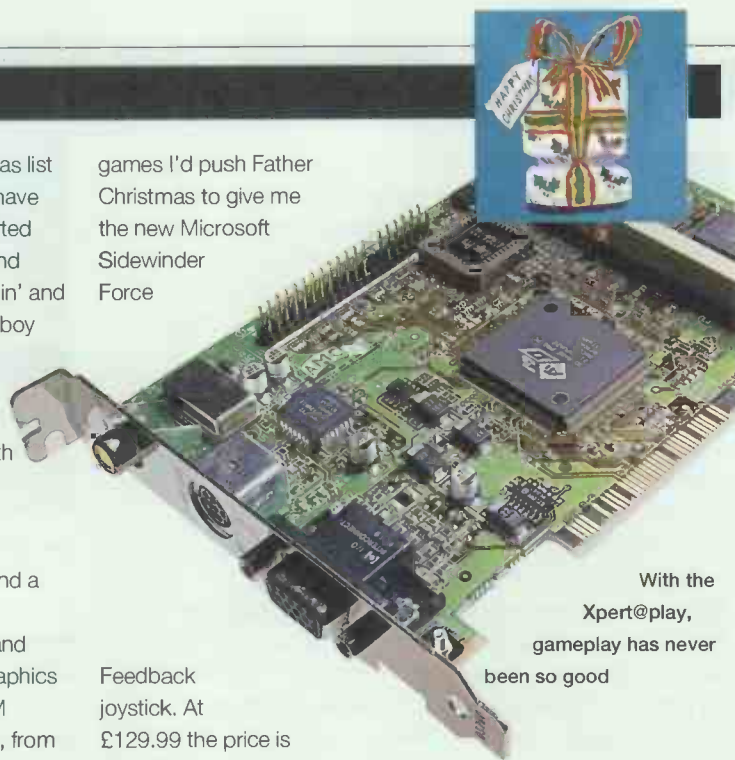
definitely speed up your pulse. You can expect to pay from £29.99 to £49.99 depending on what game you buy.

■ To make the most of these new

The trusty Siena fits in your pocket, crunches those numbers and gives good Solitaire



games I'd push Father Christmas to give me the new Microsoft Sidewinder Force



With the Xpert@play, gameplay has never been so good

Feedback joystick. At £129.99 the price is a bit steep, but if you want engrossing gameplay where you feel the recoil of a plasma gun or the nosedive of your helicopter, then this peripheral is a must.

■ But life isn't all fun and games, so there are a few software applications I think I'd like to unwrap this year. The first would be Microsoft's Money 98 (Standard Edition). If you're like me, then you'll want to have the ability to track just how much money you've spent on those hazy Friday nights out. Or if you happen to be saving up for that new house, you'll find the savings and investment tools invaluable. And if you're with the right bank, it will even let you perform online banking to transfer funds, pay bills and check your statements. At £29.99 it's a great bargain.

■ There's also Microsoft's NetMeeting 2.0 internet communications software. If you and your long-distance friends and family are online, this can help to keep you in touch and all for the cost of a local phone call. The best part of NetMeeting is that it's free. It comes bundled with Windows 95 or, if you don't have that, you can download it from Microsoft's web site. And, with my monthly phone bill, this present from Father Christmas couldn't come too soon.

■ Finally, I'd like to unwrap a Psion Siena with 512Kb of memory. I know there's a new Psion 5 with a fancy new keyboard and lots of memory, but I really don't need all that computing power when I'm on the move.

As long as I can record phone numbers, track my expenses and play Solitaire on the train, I'm happy. And, at £129, it doesn't seem unreasonable.

Dylan

PCW Contacts

ATI Technologies 01628 533 115 www.atitech.com
 Command and Conquer: Red Alert from Virgin 0171 368 2255 www.virgin.com
 Hercules from Imago Micro 01635 294300 www.imagomicro.co.uk
 MDK from Interplay Productions 01628 423666 www.interplay.com
 Microsoft 0345 002000 www.microsoft.com
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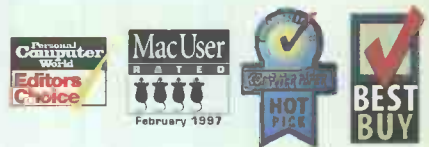
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Christmas Wishes: Adele Dyer

Maybe I'm just greedy, but thinking about what I want for Christmas has made me realise that it's not so much a stocking I need to hang up for Santa, than a duvet cover.

■ First on my wishlist is a faster PC. I currently have a P150 at home and a K6 200MMX in the office; not a bad setup, I know, but to run one of the packages on my Christmas wishlist I need at least a P150MMX at home. Ideally I would go for a PII with a huge hard disk and loads of RAM, but as greed is one of the seven deadly sins and not likely to endear me to FC, I suppose I had better just ask for an Intel Overdrive chip instead. All I need to do is change the jumper settings on my motherboard to make it run at 66MHz and I could fit a 200MMX for just £187, which is a lot less than the cost of a new machine.

■ But what is the power-hungry package? IBM's ViaVoice, a continuous speech recognition system which works extremely well and costs a bargain £99. It is perfect for anyone who spends hours slaving away over a hot keyboard, even if they are a good typist. It takes the strain out of writing long reports, and as you can dictate directly into Word and record macros and add words to the vocabulary, it's easy to use and remarkably versatile.

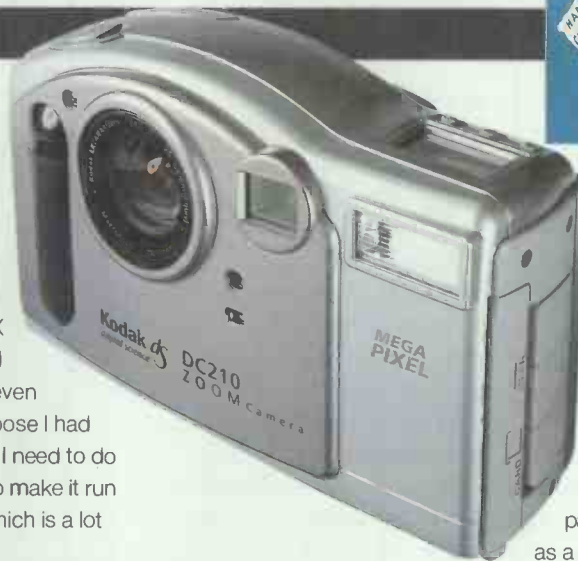
■ Staying with the more expensive wishes for a moment, I need a good printer at home. Ideally, I would like an Alps MD-2300 Masterpiece, simply because it is the most versatile printer we have seen at PCW. It uses Micro-Dry technology, which is rather like dye-sublimation in the way it puts the ink onto the paper. As a result, it is very good at printing photos on glossy sheets of A4 paper in a way that is closer to continuous tone than any other printer we've seen, with the exception of those that cost silly money. It can also be used to print text and colour graphics, as well as printing on the usual range of mad media like iron-on

transfers and greeting



cards. As the MD-2300 costs £700, maybe this is pushing things a little bit too far? So instead I would like a QMS DeskLaser 600 for my letters (a bargain at just £235) and the ColourGraph PixPrint, a tiny dye-sub, for my photos.

■ Which leads me on to all my other imaging needs. I would kill for a Kodak DC210, a digital camera with a resolution of 1,160 x 864 pixels and better quality than we have ever seen from a digital camera. It is still a bit expensive at £750, but if you want to avoid the added expense of the scanner, it is probably a good price. To go with this I would like Adobe PhotoDeluxe 2, which is



The Kodak DC210: Probably the best digital camera for less than £1,000

a significant improvement on the already excellent first version. And at £58 I've found a package that qualifies as a stocking filler!

■ Of course, if you are seriously into image manipulation and drawing, you will probably want a graphics tablet. If this sounds like a trip from the sublime to the ridiculous in terms of expense, then consider the Wacom PenPartner. It is a little A5 graphics tablet that is bundled with a pressure-sensitive pen so you can draw as you would with ordinary drawing tools, and it comes bundled with versions of Dabbler and Kai's Soap — both are excellent



programs in their own right. And this splendid little package comes priced at just under £85, which is a real bargain and makes the PenPartner a sure-fire hit for anyone.

Above Doodler's delight: the Wacom PenPartner

Left The tiny PixPrint dye-sub printer is perfect for printing your photos

■ I'd ask for a

new modem, as the 28.8Kbps I use at home does seem very slow at times, but the last thing I need right now is a 56K modem. Not only are the powers that be (the ITU) still trying to separate the warring factions (3Com and US Robotics vs the rest of the Lucent/Rockwell-using world) but the modems themselves are not all they are cracked up to be, being only slightly faster than 33.6Kbps models. So please, should my Fairy Godmother be listening, can she hurry up and make ADSL a reality, soon?

Adele

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 Colourgraph 01734 819435 www.colourgraph.co.uk
 IBM 01705 492249 www.software.ibm.com
 Intel 01793 403000 www.intel.com
 Kodak 0800 281 487 www.kodak.com
 QMS 01784 442255 www.qms.com
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www.wacom.de

Christmas Wishes: Clive Akass

A portable digital camera nearly made it to my Christmas wishlist, but this does not seem to be a good time to buy one unless you have a pressing need for instant electronic images. For the price of a halfway decent one you could buy a far more versatile single-lens reflex, plus a colour scanner to digitise the images.

■ I have a film camera already, so I'd be happy to get a Visioneer PaperPort Strobe document scanner (£175). This copes well with text and colour pictures, and fits between your keyboard and system box. The accompanying document management software functions equally well as a photo album. Also bundled is image manipulation and OCR (text-recognition) software, plus easy integration with other relevant programs you have installed.

■ I'd like a desktop camera too, linked permanently to my PC, partly because I have a devious plan to grab myself a picture of any thief who dares come near it. You can pick one up for less than £100 (a camera, that is, not a thief) that would make a good present for, say, parents wanting to keep in visual touch with their children. Intel's Create and Share package [see review, page 83] bundles a camera, with video-phone and image-manipulation software, for £176. For video-phoning you'd also need a web connection, itself a good present for an isolated friend or relative who has not discovered email.

■ Santa will doubtless bring many people a pocket organiser. I confess to a prejudice in favour of Psion here, simply because it is British. Why buy Windows CE machines when they are no better, and in many respects worse, unless you want to give Bill Gates even more money? (A new crop of CE 2.0 machines will have been launched by the time you read this but are unlikely to be available here before Christmas.)

A Psion Series 5.0 (from £390) or even a 3c (around £100 less) would make a fine present. My wife, somewhat to my surprise, has taken to the smaller Psion Siena (around £213) to the extent that her life is now ruled by it. It has the same organiser features as the 3c, including PC connectivity via PsiWin (which costs extra), although its keyboard is nowhere near as good. But for light personal use I would actually prefer it, as it is both literally and figuratively easier on the pocket.

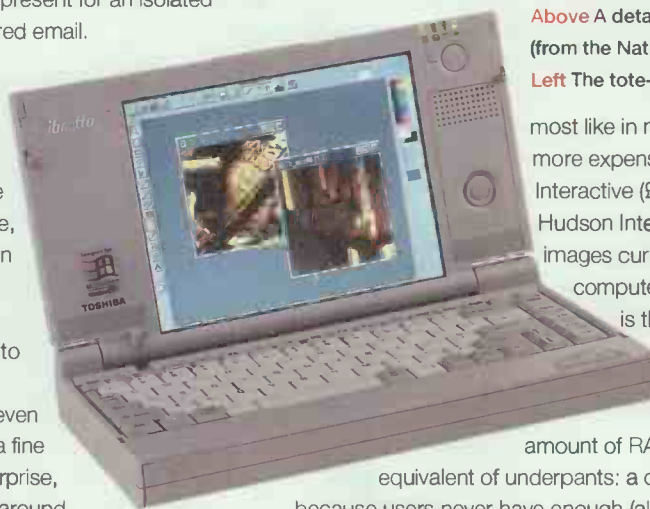
■ If you must buy American, look at the Palm Pilot (from £183 with PC interface), the first organiser to have a usable handwriting interface. Much cheaper and much more limited is IDT's PC Pal, which sells in high-street stores for a recommended £29.99. It has only 7Kb of memory, but it will download appointments and numbers from your PC by reading bar codes flashed on the screen.

■ Around this price are CD-ROMs. The problem with buying these is that so many do not pass the book test (would this CD be better bought in printed form at half the price?) and you can't tell until you try them out. But art CDs rarely fail the test because no book allows you to zoom in on pictures. Sadly, the ones I'd



Above A detail of Van Gogh's Chair (from the National Gallery catalogue)

Left The tote-able Toshiba Libretto



most like in my stocking are among the more expensive. One is Escher Interactive (£58.75 from Thames and Hudson Interactive) with its surreal images curiously anticipating many computer-graphics effects. Another is the newly updated National Gallery catalogue (£64).

■ For that kind of price you can pick up a tidy amount of RAM, which is the computing equivalent of underpants: a can't-go-wrong present, because users never have enough (although be sure to buy the kind and capacity to suit the recipient!).

■ As a luxury, I'd like a Toshiba Libretto (£1,475), which is about the closest a notebook has got to being truly portable.

■ And for sheer indulgence, I still have a hankering for a Roland GI-10 MIDI interface (£441, or £577 with compatible pickup), which allows a guitar or a voice to control a MIDI sound module; imagine singing like a thousand violins! At least, I believe this is what it does. The only time I got close to trying one out, it got stolen before it reached my desk. I wonder if Santa has video-surveillance on his sleigh?

Clive

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IDT 0162 8826688
 National Gallery Publications 0171 839 8544
 Palm Pilot from 3Com 01734 228020
www.3com.com/palm
 Psion 0171 258 7368 www.pSION.co.uk
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Christmas Wishes: Adam Evans

The scene: A busy department store on the last Saturday before Christmas. Having queued for hours, a pretty young child approaches the plump red-suited figure slumped in his chair...

Santa: Ho, ho. Well little girl, what do you want for Christmas?

Mary: Yeah, wotcha Santa. Oh, you know, the usual stuff: dolls, toys, world peace, nothing very exciting... But there is one thing I'd like more than anything — I'm desperate for some advice.

Santa: I'm afraid Santa doesn't know much about personal problems, young lady — except for Red Nose Complex, of course. Whoever heard of an Agony Santa?

Mary: I'll do the jokes, fatso. The thing is, every single member of my family is really into computers and I've got no idea what to get them. I've got a few quid 'cos I won the "precocious under-fours" sweepstake at my nursery school... But I don't suppose you know much about computers, either?

Santa: Well, normally you'd be right, but if you could see

beneath this beard, you might just recognise the Technical Editor of a well-known computer magazine. The hours are bad on PCW and the pay is lousy, so these little weekend jobs help me keep the wolf from the door. Ask away, but please promise not to tell anyone about my moonlighting.

Mary: No worries, mate. First up are my ma and pa: they're really keen on keeping a scrapbook of my life on PC. My mum wants to load-in old photos, and dictates so much narrative to my dad every day that his wrists are beginning to creak.

Santa: Your father could do with a rest — a wrist rest, to be exact. They're available from virtually any supplier of computer equipment and cost around a fiver. I swear by mine. As for your mother, get her a Colour Visioneer PaperPort scanner. It's compact, quick and simple to use, and good value at £175.

Mary: Sounds good so far. Now what about my brother, Joe? He's always complaining that Windows 95 doesn't run properly on his 133MHz Pentium with 16Mb of RAM.

Santa: That's easy. Buy him an extra 16Mb RAM (around £40) — look at the advertisements in the back of PCW and watch that system fly. He'll thank you forever — or at least until Windows 98 comes out, which could be about the same timescale.

Mary: Okay, ta. My old granny's really into music and bought a CD recorder to preserve her ambient hip-hop techno creations. She'd also like to transfer her old gramophone records to CD but it's all too complicated for her.

Santa: Adaptec Easy CD Creator Deluxe (£81) is the first software to take the mystery out of recording CDs. It's simple to

use and does everything you could want.

Mary: My grandad runs several small companies from his garden shed but their stock prices are suffering because he's so disorganised. What he needs is somewhere he can put all his contacts, thoughts and little fiddly bits of information.

Santa: The answer to his problems is my most favourite utility: 3M Post-It Software Notes (£24). You can enter

all kinds of information into the on-screen Post-It Notes, set alarms on them and do lightning-quick searches. It's almost perfect, but do remind him to back up the data now and again.

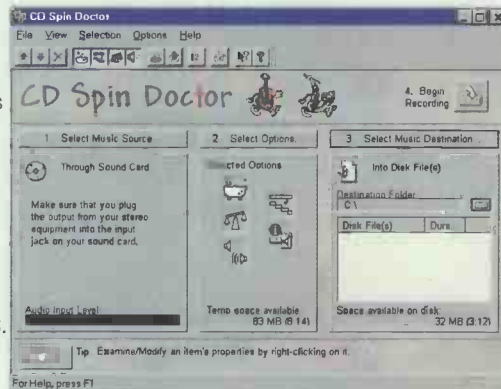
Mary: Finally, I thought I'd buy some games for my cousins. Any ideas?

Santa: There are a few that stand out from the crowd, which cost between £25 and £35. Doom-style adventure freaks will go crazy over Outlaws, with the best soundtrack I've heard. Strategy nuts will love Red Alert and Dark Colony, but for sheer fun and hilarious graphics you'd have to go a long way to beat Neverhood.

Mary: Thanks for your help, Santa, you've given me lots of ideas. And don't worry, you can trust me to keep *schtum* about your moonlighting, although a Pentium II system at the bottom of my bed on Christmas morning wouldn't be a bad idea... *know what I mean???*

Santa: Huh! And a merry Christmas to you, too.

Adam



Top, right Visioneer PaperPort Strobe scanner
Middle Adaptec Easy CD Creator: CD recording software we can all understand
Above Neverhood: Brain-bending puzzle situations with "plasticine" people

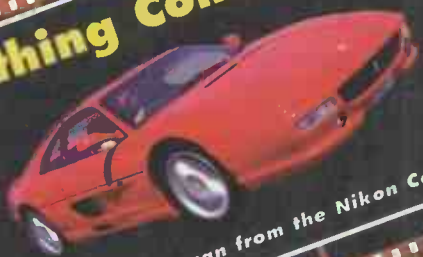
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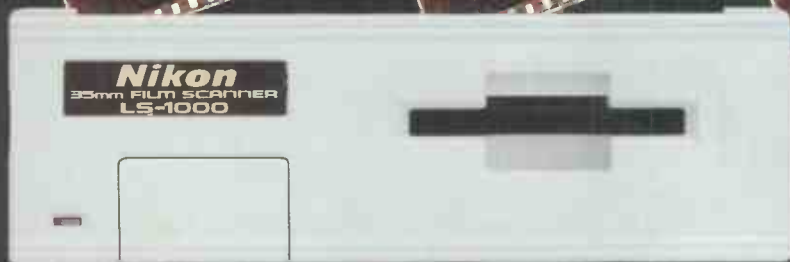
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Thinking **big**

Mobile computing is about big ideas with small results, and Psion's palmtops are a strong barrier to the Windows CE bid for the market. Designer Martin Riddiford talked to Clive Akass about computing on-the-move and future developments.

Of all forms of computer, mobiles are perhaps the most open to innovation. They have not yet locked-in to particular technologies as did PCs with Intel processors and Microsoft software. Moreover, now that the web and Java have raised the flag of platform independence, there is no need for them to do so. Nevertheless, Microsoft is trying to corner the mobile market with its miniature Windows CE operating system, but for once, some of its most potent opposition is

British: palmtop specialist Psion, with its new Epoc 32 operating system, and Acorn with its RISC OS.

Fascinating as this technological competition is, some of the most interesting problems are ergonomic. The question is: how small can you make a practical computer for personal use? As size is dictated partly by the means of input, this raises another question: how best can a human communicate with a computer?

Martin Riddiford has been grappling with such

Main picture: NICK DAWE

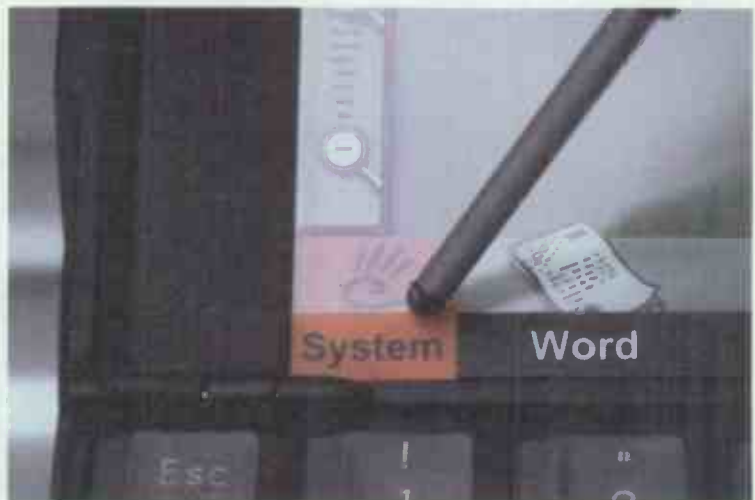


problems for more than a decade, since the design shop where he was working got the commission for Psion's early Organiser: the rectangular one with a two-line display and calculator-like non-qwerty keyboard. He designed the classic Psion Series 3, which had the best palmtop keyboard in the world, and he designed the new Series 5, which has an even better keyboard.

Some people regard the Series 5 as adequate for heavy-duty typing, which cannot be said of any other palmtop at the time of writing (new CE models, some certainly influenced by the Series 5, will have been launched at the Comdex exhibition by the time you read this). My own preference would be for a larger keyboard, even at the expense of having a machine that has to be carried in a bag rather than a pocket.

Riddiford agrees, somewhat to my surprise, but points out that his brief was for a smaller design with advantages of its own. "It's great to have a portable machine that fits in your pocket — that's really what defines the size..." he holds out a Series 5 prototype "...and I can hold this in one hand and use it. As soon as you put in a full-size keyboard, you can't do that."

Riddiford started his own company, called Therefore, four years ago after discussions with Psion founder, David Potter. "We thought it would be a good idea to set up a design practice which was part-owned by Psion and have a key competence in miniature electronics. We started off with four people and Psion was 100 percent of our business. Now we have 22 people and Psion represents about 30 percent." Models of an Action Man hang-glider and helicopter at his studio off London's



Baker Street are evidence of diversification.

Riddiford hit on the Series 5's characteristic fold-out keyboard as a way of combining the largest possible size with a firmly anchored touch-screen that would not wobble when used. Riddiford drew up and patented a novel design for the keys, which press down on the switching matrix. First prototypes used a conventional matrix consisting of two membranes, one each for the rows and columns. Finally, Riddiford plumped for a single membrane with printed columns and rows separated by a layer of insulation. "Obviously we had to test that this was going to last for tens of thousands of flexes."

The same meticulous attention went into the Series 5's stylus, which is designed to be held back from the tip to keep the hand from obscuring the screen and nudging

The Series 5 has the best palmtop keyboard in the world (top), with a stylus made from a single piece of plastic, injection-moulded into a metal sleeve and held away from the tip so as not to obscure the screen (below).

Main pic
Martin Riddiford

p180 >

The process of design

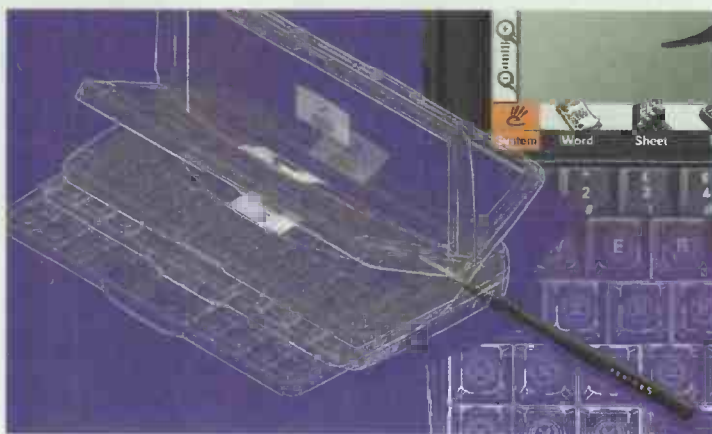
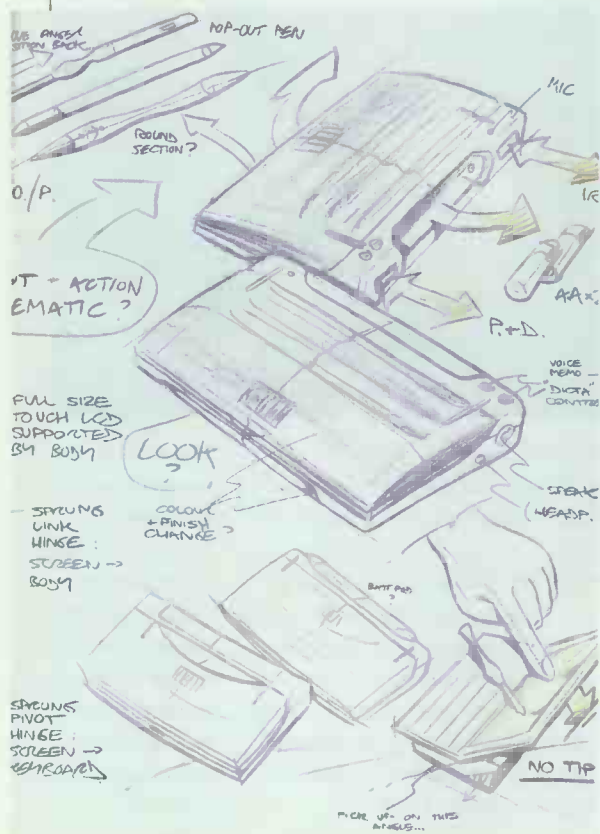
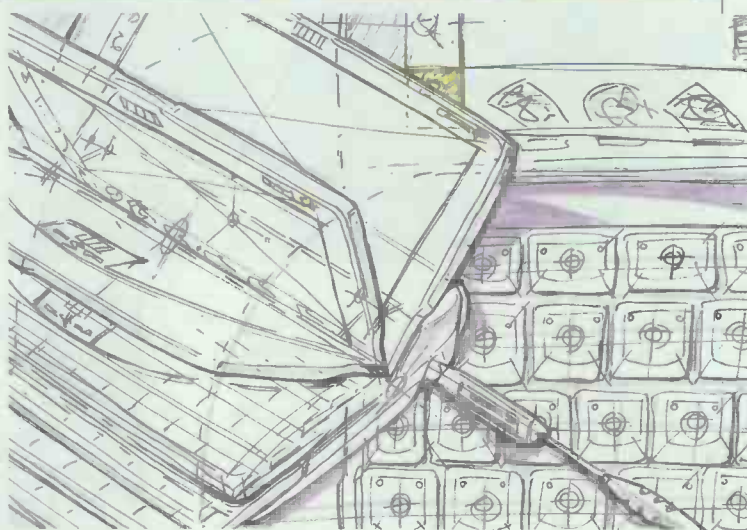
Computers have yet to beat the proverbial back of the fag packet and Riddiford still does preliminary sketching by hand (see below). Ideas are drawn up formally, using Pro/Engineer on Silicon Graphics Indigo machines, although Therefore is trying out the NT version. When photorealism is required, drawings are worked up on Macs using Adobe Illustrator and Photoshop.

Some prototypes can be made up in-house, but some are sent to specialists such as Gloucester-based Formation to be made up by a wonderful process called Stereo Lithography.

Programs like Pro/Engineer can output drawings as an STL (StereoLithography) file, which represents a 3D object as a series of 2D slices. The data is fed to a StereoLithography Apparatus (pictured, top right) at the heart of which is a laser-scanned resin bath. A platen, for holding the object under construction, lies just under the resin surface.

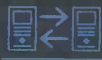
The laser solidifies any part of the surface that it scans, so the object can be built up layer by layer as the platen repeatedly sinks the depth of a slice. In practice, some kind of support structure for the object has also to be created, and each layer is carefully re-coated to ensure an even thickness.

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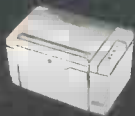
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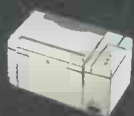
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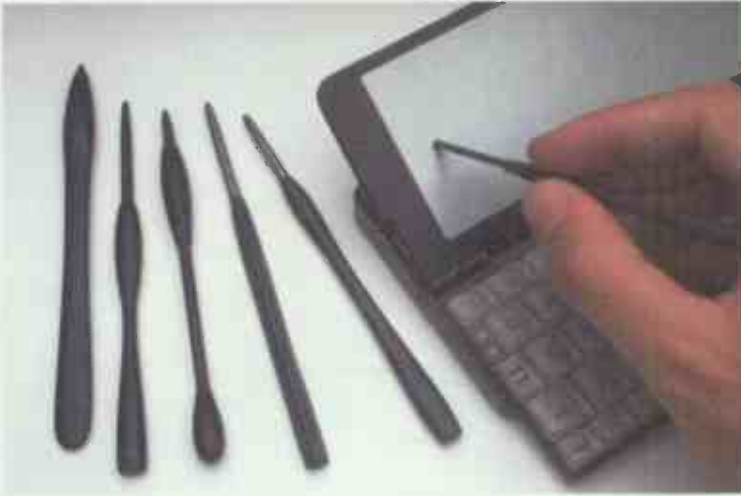
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“The big question is whether Psion can keep its nerve and run with its own software, rather than taking the Gates shilling and producing a CE machine”



Top The Series 5 stylus compared with other designs

Middle The spring assembly for the lid

Bottom Case closed

the keyboard. The Series 5 screen looks normal enough but is as unconventional a design as the keyboard. Most touch-screens have a digitiser membrane glued to a liquid-crystal display, the whole expensive assembly of which needs replacing if damaged. And palmtop screens are vulnerable to damage. Riddiford sourced the screen and the membrane from separate suppliers and found a way of clamping them together so that a layer could be replaced if necessary.

What does he think of going the way of the PalmPilot, which is driven by recognition of simplified handwriting, and doing away with the keyboard altogether? "It's easy to get excited about other forms of interface, but at the end of the day they'd have to be virtually 99.9 percent reliable," he says. "If you are used to a keyboard, you know that if you hit the right key the [letter you require] is going to be on-screen."

It seems clear that although some machines will certainly be speech-driven, speech is not about to supersede manual input any more than telephones superseded letters. My own hunch, I tell Riddiford, is that sooner or later we will invent a new gesture language, only remotely related to handwriting, to talk to machines.

He has clearly thought long and hard about the issue and comes up with an idea that has been knocked about before, here at PCW. "No-one has based handwriting recognition on shorthand," he says. "You can take down whole phrases that way...it's not just letters. The goalposts are moving all the time... My kids are learning keyboards but by the time they leave school, perhaps they won't have keyboards.

"The way these things tend to work, you end up with a proliferation of different ways of doing things and one of them may start taking over. But the others are not going to disappear overnight. Look at the ways of controlling interfaces on computers...controlling the menus and things like that. There are at least half a dozen ways of doing it. The mouse is predominant on larger machines but it is not suitable for notebooks. And then there is the touch-screen: it's good for some things but you are always obscuring what you are doing."

Psion's Epoc 32 offers an astonishing array of features you would expect only in an inflated operating system like Windows 95. They include OLE-style embedded objects: a working spreadsheet or a freehand drawing within a word-processor document, for instance.

Riddiford became involved in the design of the software interface, with its symbols and icons, and was interested in the way that a toolbox could transform the pen into anything from an eraser to a tool for changing capitals into lower case. On the face of it, such features put Epoc 32 way ahead of Windows CE, which does not (as many believe) run Windows applications. CE's sole advantages are the Windows 95 look-and-feel and Microsoft's clout, but better technology has never been a guarantee of better sales.

The big question is whether Psion can keep its nerve and run with its own software, rather than taking the Gates shilling and producing a CE machine. And whether it will bring out a larger version of the Series 5, and/or a smaller palmtop driven by speech or pen.

If Riddiford knows the answers, he isn't saying. "Wait and see," he says, tapping his nose. ■



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King of England

Claimed to be the British equivalent of Stephen King, Peter James is a talented novelist, scriptwriter and businessman. Michael Hewitt enters his haunted home to catch up with the avid reader who believes the written word is dead.

Bestselling author, Peter James, lives in a haunted 18th century Georgian manor house in Sussex. He's not sure whether he's got three ghosts, or four. They tend to come in and out as they please, rather like ethereal B&Bs, so keeping track of them can be difficult. When I first turned up, I thought I might be in line for an introduction. There were mysterious blue flashes coming from one of the downstairs rooms, and the house lights kept flickering on and off. Very Hammer Horror. It turned out, however, to be nothing more supernatural than the PCW photographer: his flash-gun was fusing the household electrics.

Peter James, 1948 vintage, is often referred to as the UK's Stephen King. He looks more like an older, wiser Ben Elton. Educated at Charterhouse, and then Ravensbourne Film School, he moved to Canada in 1970 to work as a television writer. This soon led to work in films and the establishment of a film production company, Quadrant Films, responsible for such *œuvres* as *Dead of Night*, *Malachi's Cove*, *Spanish Fly*, and *I Dismembered Mama*. In 1980 he wanted a change.

"I found that film production was invariably creation by committee, restricted by budgetary constraints. For example, the script might dictate that a character died in a plane crash. But the money men would say: 'No, we haven't got the finances for that — he'll have to fall off a bike instead'. So, inevitably, I got frustrated. Hence my move to novel-writing. Here, I can work out my own ideas, on my own. I'm in total control."

Since 1980, except for a 1985-87 hiatus, Peter James has averaged about one novel a year, covering themes like medicine, science, computing and the paranormal. Many, including *Possession*, *Prophecy*, *Host*, and *The Alchemist*, have become bestsellers. And, as is the way with bestsellers, many have been, or are being, adapted for film and television. In between times he helped found Pavilion Internet in 1994, is currently developing a half-hour sitcom series, called *Getting a Life*, for Yorkshire Television, is working on a one-hour drama programme, .ORG, about policing the internet, and is launching a new film and television development company, Ministry of Vision. He regularly courts controversy among the literary establishment by suggesting that the paper-based book as we know it is dead, and that the future of reading

belongs to the written word migrating to an electronic display medium. He's just released his new book, *The Truth*, published by Orion, about a man who owns a multimedia company and his wife entering a surrogate baby contract to bail themselves out of bankruptcy. Only after the event do they realise the horrific consequences [reviewed this month, page 336]. Curiously, Peter James finds time to eat and sleep. How?

"As they say, if you want something done, give the job to someone who's busy. In the good old days, when I just wrote one book a year, I didn't seem to have the time to do anything else. But this year, I've written two books and two pilot scripts for television, yet I'm not consciously working any harder." Perhaps the secret lies in the way he organises himself. He has a strict routine. The alarm goes at 6.30am. He then jogs, feeds the ducks, and comes back for breakfast and the morning papers. These he speed reads ("I learnt this technique years ago. It teaches you to read 2,000 words a minute. It's no good for novels, but it allows you pick the bones out of newspaper articles and reference material.") Having inwardly digested, he gets to his desk for 8.45am, turns on his Mac and begins writing. This takes him through to 1.30pm, when he breaks for a light lunch. This is followed either by a walk with the dog, Bertie, or a game of tennis (presumably not with Bertie). From 4pm to 9pm he's back writing. He breaks for supper and watches "something mindless" on television. At 11pm, he returns to his Mac for a final hour. Bedtime is at or around midnight. Betwixt waking and sleeping, he aims to write a minimum of 1,000 publishable words, which means producing 1,400 to 1,600 of the semi-publishable variety and pruning down until it's right.

Why, I asked him, with such a workload, does he insist on including his email address at the front of all his books? Isn't this simply asking to be inundated with fan and/or hate mail? "Often I am, although not as badly as someone like Terry Pratchett who, apparently, produces the equivalent of one whole novel a year just in replying to his fans. But I like the immediacy of email communication and the fact that it gives me instant response from my readers. Yes, it can get a little crazy at times, of course, especially when people ask me to go into detail and explain, say, characters or plot development. But I do try to respond to everyone. Sometimes, they can be very



PHOTOGRAPH by Nick Dawe

helpful in return. They'll mail me to say: 'If you're ever researching in such and such an area, and you ever want any help, please drop me a line.' So I'm able to do a lot of my research thanks to these initial contacts."

Indeed, the internet as a whole has largely taken over as his primary research tool. He calls it "A writer's greatest secret resource," which is "...as important to us as Gutenberg was to his time." As far as Peter James is concerned, it has rendered conventional reference books redundant. The only one he still uses is a dictionary. But doesn't the high percentage of garbage on the net make research something of a needle hunt in a large haystack?

"I agree, the crap ratio is very high. However, you go into any bookstore or library and you'll probably find that 80 percent of it is of no interest to you. The same with the net. But the internet does have advantages over printed reference sources. If I go into a library to do research, I find that the material is at least six months to a year old.

On the Internet, it's updated daily. So, yes, while there is dross on there, you've also got this tremendous immediacy. Coupled with that is the interactivity aspect, which you'd never get from any other form of reference material. When I was writing *The Alchemist*, a book about a sinister drugs company, I went into newsgroups asking if anyone had any horror stories about the pharmaceutical industry. I hit a very rich seam. I got one man who said, I can't tell you my name, but I'll meet you for lunch at such and such a restaurant. The guy was a nervous wreck. It turned out that he used to work for one of the world's largest pharmaceutical giants and had been hounded out when he'd blown the whistle on some of their unsavoury business practices. He proved to be an excellent source of material."

It was this enthusiasm for the internet that led Peter James to co-found Pavilion Internet, one of the UK's first service providers, in 1994. Surprisingly, he received a

Horror story:
Peter James has been the cause of much anguish in literary circles because of his belief in the end of the book as we know it. He has been accused of destroying the nation's reading habits

p186 >

"I envisage a sort of smart book. It will be a piece of plastic or flexible silicon that's as nice to read as a sheet of paper, that can be read in the bathtub or in direct sunlight"

hostile response from certain quarters; mostly university students and academics who didn't seem to like the idea of the general riff-raff joining them.

"Back then, the internet was still largely the province of techies who thought it shouldn't be used for commercial purposes. They seemed to believe it was their private playground. I received quite a lot of hate email from people saying 'How dare you exploit the internet' and so forth. And there were some amazingly hostile comments in the newsgroups."

He provoked similar hostility when he decided "on a whim", to publish a floppy-disk edition of his bestselling thriller, *Host* — a book about cryogenics and artificial intelligence — concurrently with the paperback version. The disk contained the book's text, with hyperlinks to underlying notes ("Having the extra annotation meant I didn't have to junk all the interesting research that wasn't used in the novel."). The literati reacted as though he'd brought out a scratch-n-sniff edition of the OED.

"I was amazed at the amount of vitriol I was getting. 'You're causing the death of the British novel, old boy,' said one. The Society of Authors accused me of destroying the nation's reading habits. But this is nonsense. As far as I'm concerned, unless reading moves with technology, it will die out. Look what's happening with schoolchildren. There was a recent survey of 12- to 16-year-old boys which established that they're not reading any more. Why? Because they say it's a hassle. That books are boring. So something has got to be done to make them regard books as "cool".

"For me, reading is one of the most wonderful things anyone can do in their life. Reading books was the way I discovered that other people had the same thoughts about life as me, the same hangups, the same hassles with their parents and the same sexual anxieties. I got my entry into the world through reading. It's a private, personal thing which cannot be allowed to be completely supplanted by other media like films, TV, and video games."

In order that it isn't, he feels it's imperative that the book should adapt. "What is so sacrosanct about reading from a page of printed paper, a technology that hasn't changed in hundreds of years? Why can't we change over to read from a computer screen? I'm not suggesting a VDU monitor. I envisage a sort of smart book. It will be a piece of plastic, or flexible silicon, that's as nice to read as a sheet of paper, that can be read in the bathtub or in direct sunlight. And, like paper, you'll be able to fold it up and put it in your pocket. It will cost next to nothing and will probably run off your body's energy, like a kinetic watch. But unlike, say, a 600-word paper-based book, you won't stick it on a shelf once you've finished it. You'll simply point it at a telephone jack and download a new book on to its screen. And you'll be able to choose whatever font you want to read it in, whether you have pictures, and so forth. You won't be dictated to

by the publisher on this. If, for example, you want pages of 14-point, double-spaced text with colour illustrations every other page, you can have them."

But the conventional bound codex as we know it today has been going strong since about the fourth century AD, when it took over from the scroll. Isn't changing from this to an electronic medium going to require an equally massive culture change? "There's already been a massive one. When Penguin produced its first paperback in the thirties, everyone said it was the death of the novel. 'This isn't a book,' they said. 'Where's the hand-tooled vellum? Where's the gold-embossed cover?' Yes, it will need a substantial culture change. But in the next 100 years we're going to have to have some very substantial culture changes anyway.

"Copernicus was the last person who was able to read everything that had been printed in his own language in his lifetime. Today, I don't think there's anyone around who has time to read books published in one year in a single lifetime. That's without being exposed to 100 TV channels, PCW, and all the interactive stuff that's out there. We've reached a point where it's impossible to take in even a small percentage of what's thrown at us every day. We therefore have to find a new, improved way of receiving and assimilating information."

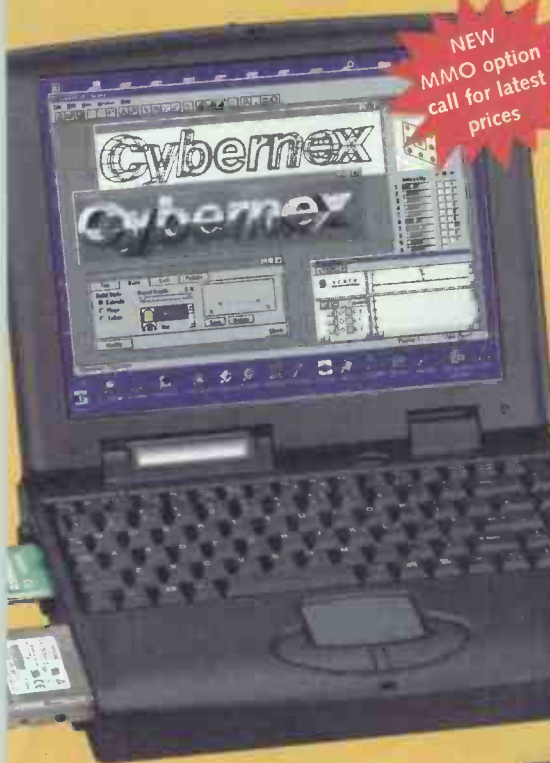
One possibility he moots is downloading memories of books into your head from a computer. So you won't actually have read, say, the complete works of Barbara Cartland, you'll just think you have. Or if that proves too horrendous a prospect, another idea — one that's dealt with in *Host* — is to divest yourself of your mortal, physical body and upload its consciousness into a computer. Then, rendered immortal, you'll have forever to pick and choose what you want to read, so information overload will become less of a problem. What may be a problem, however, is building a computer capable of hosting human consciousness in the first place.

"When I was researching *Host*, I talked to huge numbers of AI experts. Many of them were very despondent. Back in the seventies they'd envisaged that, by the year 2000, we'd be able to replicate human consciousness in a machine. But so far, they've only got as far as replicating the consciousness of a cockroach. If that." Does he believe in some sort of cosmic intelligence behind everything, into which we're all tuning, like radio receivers? "Why not? In 1920, 44 percent of scientists believed that there was some intelligence behind the forming of the cosmos. This year it was still 44 percent. The only shift was that fewer biologists believed it but more mathematicians did. I personally don't have a problem with there being something out there. If it turned out that my consciousness and being were in part made up of data received from some other dimension in the cosmos, that would excite me tremendously. I would love to know that this isn't the end of the journey." ■

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<H1><CENTER></CENTER>

Umpire.gif

Out!

Homepage

Netscape: The Exiles Cricket Club

Home Search Guide Image Security Stop

EXC THE EXILES (no relation)

Wide

http://www.bogo.co.uk/p.shorrocks/Exiles.html

Exiles.html

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<HTML>
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</HEAD>
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<H2><CENTER>Homepage</CENTER>
</H2>
<IMG SRC="..." NATURALSIZEFLAG="0" ALIGN="bottom">Strange tales of ball that m... the wicket&quot;, players who disappe... elays... aircraft, near-death experiences on the A23... the... rban Cricket! And who are these &quot;... membership then never play any Cricket? A soap... h ball... soded, welcome to the Exiles exper... y not all be tr... <BR>
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Exiles Cricket

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Work in progress



Tim Anderson reviews ten DIY web page design tools which make it easier than ever for a novice to join the net.

Have you always wanted your own web site but thought it would be too complicated? Well, it needn't be, so here's your chance to design your very own, with an easy-to-use web page design tool. We've tested ten leading packages and covered some of the tricky issues such as making files available for others to download. With the novice in mind, we've explained the key components like HTML, JavaScript and so on.

Anyone, from individuals to business organisations, can benefit from an online presence. Most ISPs give free web space to users so if you have an account all you have to do is to upload some content. You can set up a site on a network or on a PC, but it will not be accessible to others unless you have an expensive permanent connection.

The ideal web authoring tool should be no harder to use than a word processor and create pages compatible with every web browser, running on the Mac and Unix as well as Windows. It should accommodate frames, scripts, tables, databases, multimedia, animation and more.

The best tools produce standard, clean HTML documents and let you edit the HTML source when you need to. Advanced features include validation, which checks an HTML document for errors, and tools which manage a whole web site.

Most web authors keep a copy of the entire site on hard disk for editing, uploading work to the live site when ready. Many authoring tools come with personal web servers and upload wizards to make this process easier. Read on to discover which package is right for you.

Web design software Contents

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Ratings

- ★★★★★ Buy while stocks last
- ★★★★ Great buy
- ★★★ Good buy
- ★★ Shop around
- ★ Not recommended

ILLUSTRATION: Paul Shorrocks

Claris Home Page 2.0

Claris has a reputation for creating software that is genuinely intuitive to use, thanks no doubt to the company's background in Mac products. Home Page is available for both Windows and Mac, and provides a common-sense web-authoring package for non-experts. It works with Windows 95 or NT, comes on CD and includes a slim Getting Started manual that tells you most of what you need to know to build your own web site.

When you start Home Page for the first time, it opens to a blank page rather than offering any quick-start wizards or templates. There are two modestly-endowed toolbars across the top of the page, and the longest menu is the one marked Help. All these factors contribute to the plain-and-simple feel of the package, which is a strength, particularly for newcomers to web design.

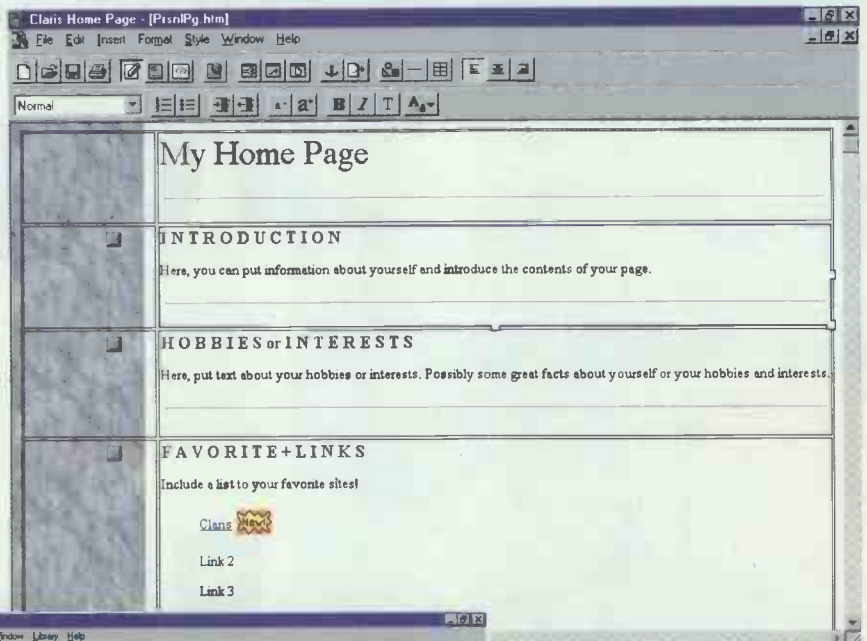
As with other Claris products there is more functionality beneath the surface than you realise at first, although some features are genuinely lacking. One good point is that the editor supports three view modes: WYSIWYG, HTML and Preview. This makes it easy to ignore the HTML, or to spend time tweaking it if you like to work under the bonnet. It is also an excellent way to learn HTML essentials, by providing a change to the WYSIWYG view and enabling you to see how the code changes.

Although the interface encourages you to just start typing, Home Page does provide some help in the form of templates and libraries. The templates are really just example pages categorised by style and purpose, and covering both personal and small business themes. The designs are unfussy, and there are no special features other than tables and frames.

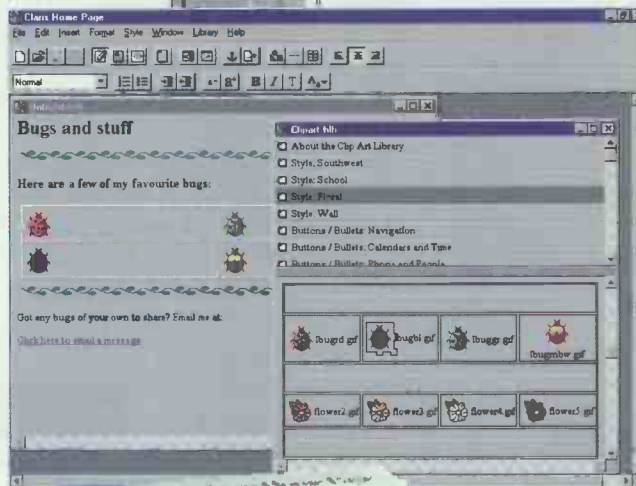
Home Page has a library system which lets you store any kind of HTML element including images, buttons, text and tables in a mini database that you can open in a window. When a library is open you can preview its contents and drag-and-drop to an open document. Simple but effective.

The Insert menu in the Home Page editor has options for Java applets, QuickTime movies and Netscape Plug-ins, alongside the usual elements like images and tables. Home Page is not especially smart about these features, but does offer convenient dialogs where you can set parameters. There is no integrated support for scripting.

Tables are handled nicely, and columns and rows can easily be resized with the mouse. Right-clicking an image object lets



Above Home Page has a clean interface which is not intimidating for novices



Left The Home Page library modules let you drag-and-drop images into a document



you edit both client-side and server-side image maps to create hot spots that behave as hyperlinks or which run scripts on the server. There is also great support for frames. All you need to do is create a new page asking for a Frame

layout, add the files you want displayed as frames to a dialog, and the frameset is created for you. Although lacking in real site management tools, Home Page lets you define a site by adding a site file to a directory. This includes key information like the name of the target server and directory, along with log-in information for when you need to upload the site to an ISP. There is an option only to upload changed files, which saves time with larger sites. Another feature is consolidation, which checks all image references and

changes them to point to a single images directory on the server. Once you have created a site definition file, you can upload your web pages by opening the site file and clicking the Upload Site button.

Although Home Page looks barren alongside heavyweights like HotMetal and FrontPage, it has several advantages. First, you are far less likely to include a feature that causes compatibility problems with browsers or servers. Home Page is also good at including alternative text for display, for example when a frame layout is visited by a browser that does not support frames. Second, its interface is less cluttered than that of most of its rivals. And third, the application itself is lightweight, easy to set up and quick to load. For many people, one or more of those factors will make Home Page a good, practical choice.

POW Details

Price £105.74 (£89.99 ex VAT)

Contact Claris 0345 413060 www.claris.com

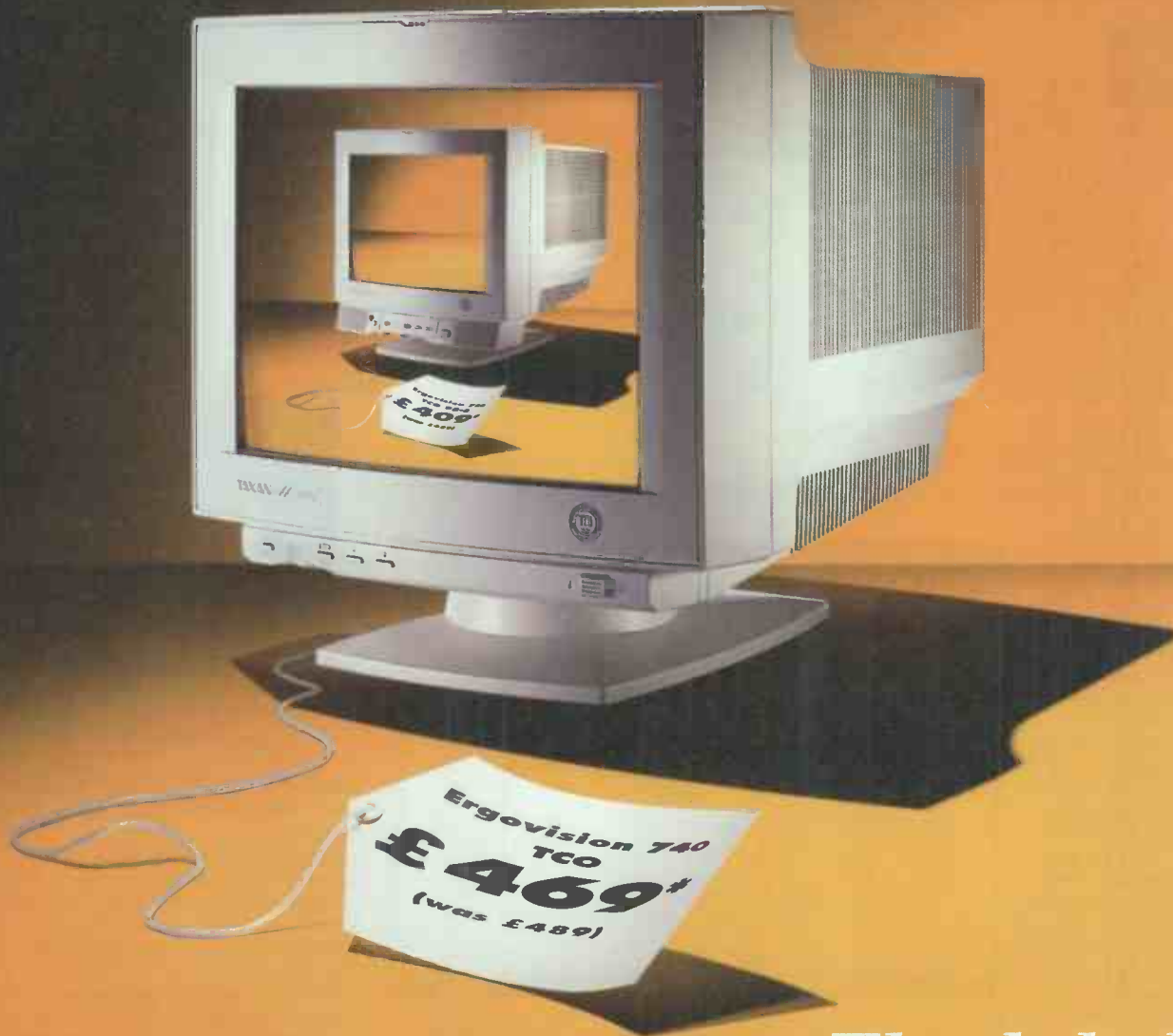
Good Points Easily switch between HTML and WYSIWYG. Good with frames, tables and image maps. Modest system requirements.

Bad Points Needs more templates and examples. Limited feature set. Few extra tools.

Conclusion A great beginner's package, but underpowered for serious users.

★★★

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Specialist Computer Centres
Tplc

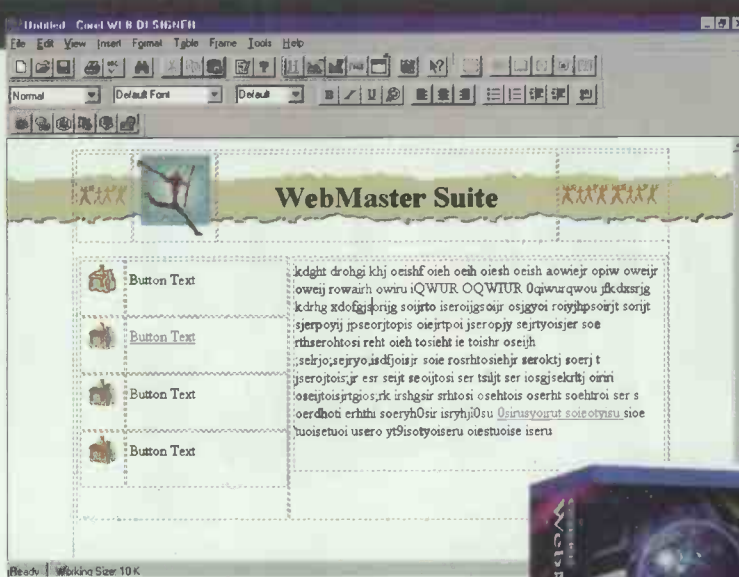
01675 466467
0181 286 2222
01582 745555
01344 300344
01925 830404

Corel WebMaster Suite

Orel's web authoring suite is intended as a complete solution for web site creation and management. As you would expect from the creators of CorelDraw, it is weighted towards graphics and graphics tools. In fact, parts of this suite are based on other Corel applications including Draw and Photopaint. It takes up two CDs, needs Windows 95 or NT, and a typical installation is over 200Mb in size. Fortunately, now that hard disks of 3Gb and more are common on new systems, this may not be much of an issue. There is also a fat, disorganised, printed manual along with a handy colour guide to over 8,000 bundled images.

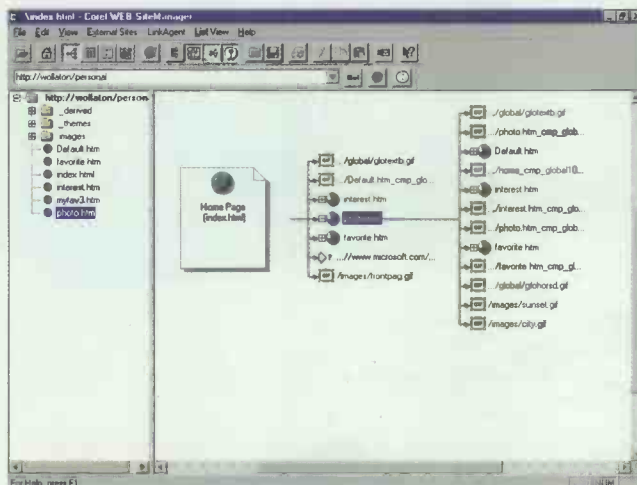
At the centre of the suite is WEB.Designer, a WYSIWYG page editor which turns out to be based on MacroMedia Backstage, another product entirely. It is customised by Corel though and includes a toolbar giving access to the other bundled applications. It is an adequate HTML tool but nothing special. You can start with a blank document, or open a template from a range of over 200.

There is a good frames wizard which takes you painlessly through the business of selecting and laying out a set of frames. Only one document can be open at a time but, once opened, you can edit the document in much the same way as you would in a word processor. If you insert an image, you can right-click to open a handy image-mapping dialog which can create both client-side and server-side maps. You can also open the image in PhotoPaint for editing. There



Left
WEB.Designer's editor is adequate but nothing special

Below, left
WEB.SiteManager is a handy utility for site management



is an icon for Inserting a table but for some reason, typing text into a table cell is slow. The Insert menu offers ActiveX Controls and Java applets as options but there are no tools to help with scripting. Although you can open the HTML source for editing, the implementation is not elegant. And, there is no syntax



highlighting. A nice touch is the Document Tree, which shows the hierarchy of tags in the current page.

Corel's WEB.SiteManager is a useful additional tool. It can open a site either from a local directory, over the web or on an intranet. Once open, you can view it in many different ways, including file lists and graphical display of links. You can set it to show the HTML source of a selected file, or a browser preview. The List View menu has options to filter the site, showing only those pages that meet certain criteria. The conditions include pages with broken links, pages that use Java and pages using JavaScript. This is particularly useful if you want to avoid certain features for compatibility reasons, or to check that you have provided alternative HTML for non-compatible browsers.

WebMaster Suite is great value if you need its graphical tools or clip-art. Purely as a web authoring suite though, it is disappointing, mainly because of the limitations of the central piece, the page editor. Its other problem is inconsistency and lack of integration because of the diverse origins of the component parts.

What's in WebMaster Suite?

- **WEB.SiteManager** — a graphical site management tool which handles link management. It includes a SiteBuilder Wizard for creating sites from templates.
- **WEB.Designer** — the most critical component. This is a WYSIWYG editor for creating and maintaining web pages.
- **WEB.PhotoPaint** — a bitmap editor which includes filters, masks, animation, and object transformation, along with standard painting tools. You can also create and edit image maps.
- **WEB.Draw** — a cut-down version of CorelDraw, a comprehensive drawing package.
- **WEB.Move** — an animation creator which saves its files as animated .GIFs, .AVI or .MPG movie, or a Java applet using Corel's Barista technology.
- **WEB.World** — for creating virtual reality files. These need a VRML plug-in to be displayed in a browser.
- **WEB.Data** — for database publishing. You can extract data from different formats into an HTML file, or view them in a Java applet. It does not handle dynamic database publishing.
- **WEB.Gallery** — an image browser.
- **O'Reilly WebSite 1.1** — a popular web server.

PCW Details

Price £186.83 (£159 ex VAT)

Contact Corel 0800 973189 www.corel.com

Good Points Fantastic value. Excellent graphical tools. Useful site management tool.

Bad Points Poor integration. Indifferent page editor. Hogs disk space.

Conclusion Excellent graphical tools but patchy as an overall web authoring package.

★★★

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Personal Computer World
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Microsoft FrontPage 98

BETA

FrontPage 98 is an ambitious product which aims to combine the ease of use of a typical Office application without compromising on features. This is the third Microsoft version and is in beta at the time of writing. It is a distinctive product and, unlike most other packages, is designed to interact with a real web server as opposed to loading files directly from disk.

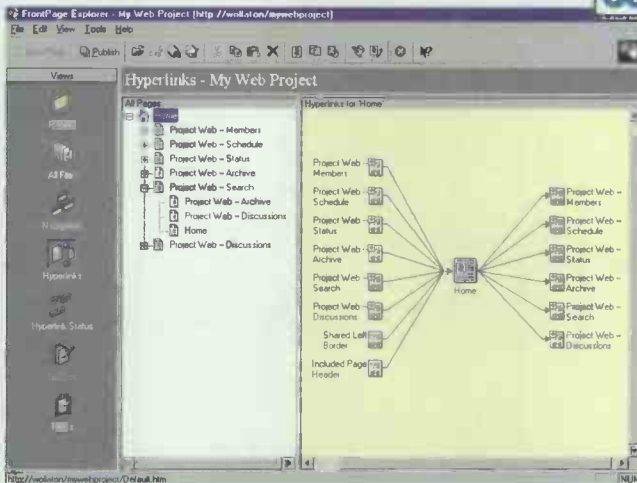
The advantage of the dynamic approach is that FrontPage can use the ability of web servers to run programs, rather than merely serve-up files. It relies on a suite of add-on scripts (FrontPage extensions) which are installed on the server. Some of these are used only at design time, while others are needed when the web site is deployed.

When you create a web page in FrontPage, you have two options. You can create it as a set of files in a directory, or on a web server which may be on the same computer or elsewhere. If you choose the files option, performance is better but some features will not work until the web is uploaded to a server. It is best to use a local web server for testing and upload to an ISP when you are happy with your work. It makes sense, but setting it up is initially confusing.

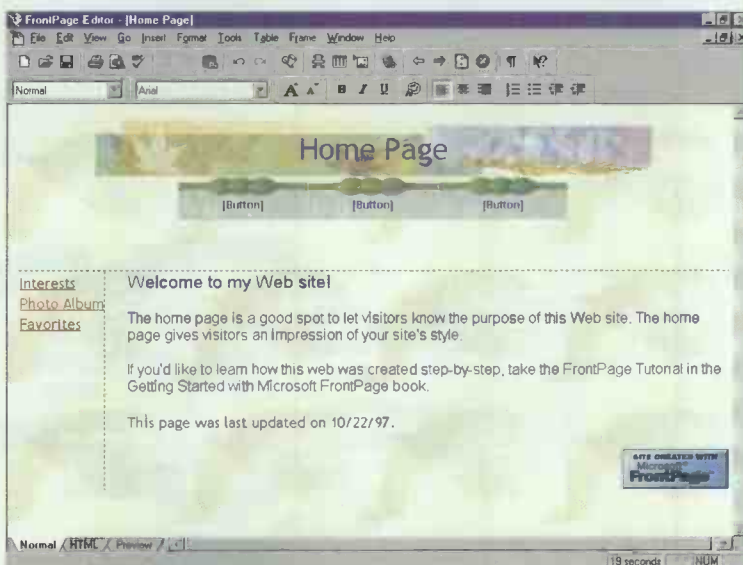
The need for extensions is a sore point with many ISPs which do not like third-party scripts installed on their servers, even when they come from Microsoft. It raises security issues as well as potentially reducing server performance. The fact is that using FrontPage Extensions raises the features available on a site to a new level, particularly if you are after some sort of interaction such as dynamic database searches, or for the surfer to leave a comment in a discussion group.

For the web author, the FrontPage approach has two implications. Firstly, you need to be wary about using the extensions, as the chances are that your ISP does not support them (FrontPage is still useful without them). Secondly, the use of FrontPage requires you to run a web server and, although Microsoft helpfully bundles the software, it adds to its complexity and system requirements.

Installing FrontPage is a nervous business since it involves installing a web server and/or server extensions as well as the main application. All going well, you will then be able to start the FrontPage Explorer, a site management tool that forms the main FrontPage interface. Your first action will probably be to run the Web Wizard, which



Left The FrontPage Explorer shows the whole site in a variety of different views

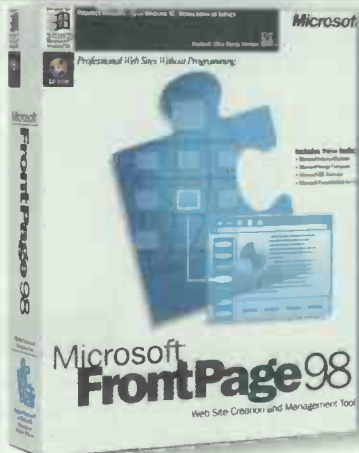


Below, left The outstanding FrontPage Editor has handy tabs for switching between WYSIWYG, preview, and HTML code view

functionality offered by the Insert menu. You can include animated text which flies across the page,

database regions which give full read-and-write data access, Java applets, Netscape plug-in components, ActiveX controls, discussion areas, hit counters, videos, and form elements like buttons or check-boxes. Adding scripts is easy: you can insert a button, right-click to open the script wizard, build a script in the visual editor (it can be JavaScript or VBScript) and it's done.

The hassle with these features is working out what they need to function correctly, either on the server or in the browser. For example, the animated text requires dynamic HTML as implemented in Internet Explorer 4.0 but it



will work from any server. The discussion area needs the FrontPage extensions, available for a variety of servers, while full data access requires Internet Information Server running on NT 4.0.

What FrontPage needs is a compatibility setting, so you are not tempted to add features that may cause problems. Even so, FrontPage has the best WYSIWYG editor around. And you get Image Composer, too, a fine tool for editing graphics.

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improved from earlier versions. The main editing area has three tabs which display the page in WYSIWYG, HTML or Preview mode. The toolbars have an Office 97 look-and-feel, so if you can use Word you will have no problems editing a FrontPage document. There is a superb Frame menu which provides easy creation and manipulation of frame-based pages. Most interesting is the rich

PCW Details

Price £116.30 (£99 ex VAT); upgrade £76.38 (£65 ex VAT)

Contact Microsoft 0345 002000
www.microsoft.com

Good Points Office 97 integration. User-friendly editor. Superb range of features.

Bad Points Complex setup. No validation. Hard to work out what will work where.

Conclusion Slick interface. Rich functionality, but beware compatibility problems.

★★★★

SoftQuad HotMetal Pro 4.0

HotMetal Pro is a popular product which deserves its "Pro" tag. Unlike most others in this group test, a substantial manual is included along with a slim Getting Started guide. It comes with a generous bundle of extras and should almost be called a suite rather than an application.

At the heart of HotMetal Pro is a page editor with three viewing modes. In WYSIWYG mode you can treat it like a word processor with the usual toolbar for setting styles, colours, paragraph alignment and so on. HTML mode shows the source code with colour coding. The third mode is called Tags and shows each tag as a small symbol. When you click on a tag, the section of the document covered by the tag is highlighted. This view is more natural than pure HTML code but still exposes the tagged structure.

HotMetal Pro has hundreds of templates for creating instant pages, with categories for personal, business and intranet use. When the page is open in the editor, there is an array of further tools for editing and enhancing the page. The Insert menu offers ActiveX controls and Java applets as well as other options. One is Design-time controls, ActiveX controls that are not required when the page is viewed but will automate certain authoring tasks. The other options include a slideshow, a control for creating an outline view of your site, and a button that opens a new browser window. Some of these features require Dynamic HTML as used in Internet Explorer 4.0. There is also a database import wizard which lets you query a standard database or spreadsheet and put the results into an HTML table. This type of data access is static: the user cannot query or refresh the data when browsing the web.

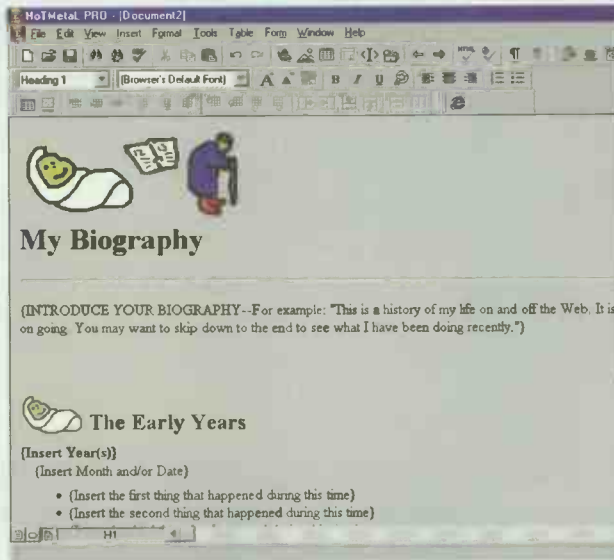
The Tools menu reveals some excellent additional goodies. Image Editor and Image Explorer open applications from ULead's Photolmpact package. This is a cut-down version but still more powerful than the average bundled image editor. FX Chooser is a browser application that accesses a library of graphics, animations, Java applets and JavaScript code snippets. You can drag-and-drop from the browser to your web page.

Infuse Acadia ScriptBuilder is another bundled tool, a visual editor for creating JavaScript code. Best of all is an option to check HTML code, which runs the HotMetal Pro validator that runs through the HTML and identifies any errors or tags which are likely to cause compatibility problems. You can

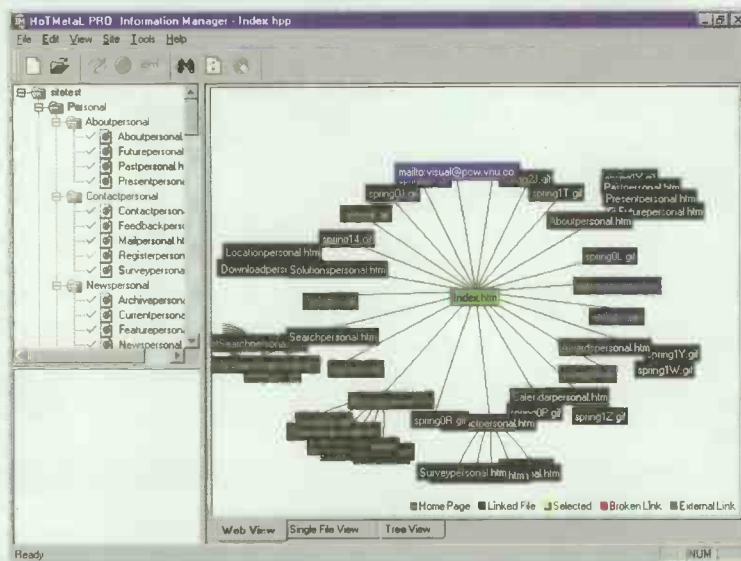
instruct the validator to list any HTML extensions used which are specific to Navigator or Internet Explorer. It also shows extensions not supported by HTML 2.0 so you can easily design for maximum compatibility if you wish. This is a great tool that can save much grief at later stages.

Like Microsoft's Front Page (p195) HotMetal Pro lets you view a site as a whole, as well as edit individual pages. Information Manager is a separate application which integrates with the editor. You can view a web site in three different ways: as files, in a tree view, or as a web diagram.

You can open a file for editing directly from Information Manager. Links are shown and you can create new links by drag-and-drop. It is intelligent about links and if, say, you rename a file, the links to it in the site are automatically updated. There are tools for showing and fixing problems like broken links, and a Publish option for copying the site to a server. This can be set to upload only new or changed files and is useful if you have a large site to maintain. You can run the Site Maker wizard through Information Manager, which



Left HotMetal Pro has a clean interface that looks reassuringly like a word processor



Left Information Manager gives you an overview of your site, together with management tools

creates a complete web site based on your choice of theme and décor. There are suitable pages for personal, business and intranet sites and you can mix and match from all three.

Included on the HotMetal Pro CD are several other third-party tools. There is a personal web server, ZBSoft's ZBServer, DTL's

Dataspot for publishing databases with dynamic search, the Starbase version control manager, VReam's virtual reality creator and Aimtech's Jamba tool for Java applets. In general, these are cut-down but working versions of the full products.

PCW Details

Price £123.38 (£105 ex VAT)

Contact SoftQuad 0181 387 4110
www.softquad.co.uk

Good Points WYSIWYG and HTML editors. Integrated validation tool. Excellent features and extra tools.

Bad Points No side-by-side view for code and preview. Use of third-party tools limits integration. Slow screen update in WYSIWYG mode.

Conclusion An excellent all-rounder, with a good bundle of extras.

★★★★

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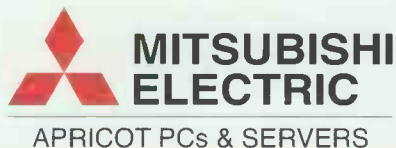
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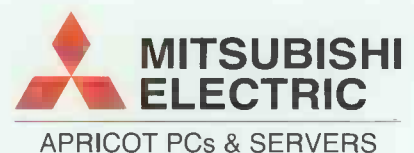
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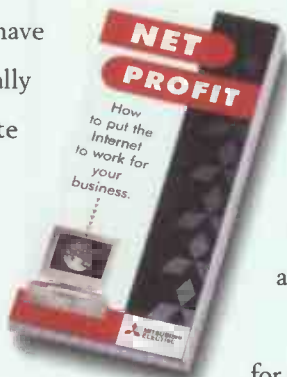
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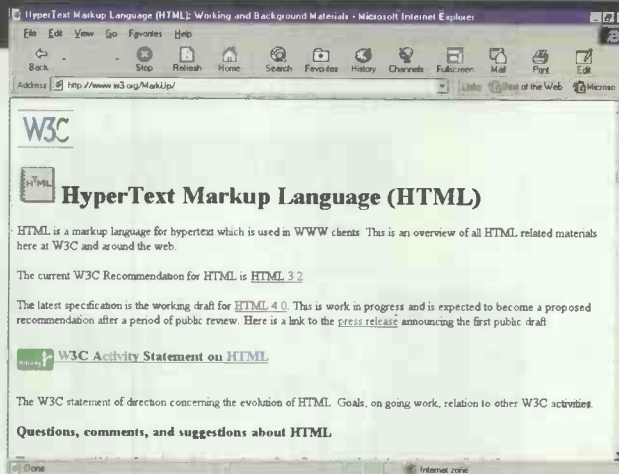
All about HTML

Before the web took off, use of the internet (email apart) was reserved for techies who typed-in arcane command-strings. Visiting a site meant logging in, getting a directory listing, downloading the file you wanted and logging off. But HTML changed all that.

HyperText Mark-up Language was designed to accomplish two things: to present formatted text with images that looked good across different computer platforms; and to provide one-click access to internet sites through hyperlinks, "hot" areas of text which open other HTML documents, irrespective of their location on the net. This made navigating the web no more difficult than reading a Windows help file (but much slower).

The dramatic growth of the net meant that the original capabilities of HTML soon proved inadequate. Many new tags have been devised, in particular by Netscape and Microsoft which provide the fullest-featured web browsers. The result is that HTML is changing from being a document type, into a way of running programs, accessing databases, playing multimedia and ordering goods. Because it was not designed for this, some of the consequences are ugly. For instance, an HTML page full of program scripts is hard to debug and maintain.

Another aspect of HTML's evolution is that page designers want as much control over what you see on a web site as they would



The home of HTML is this modest site run by the World Wide Web Consortium

is version 3.2, although HTML 4.0 is already published in draft form.

Longer-term, the web will change radically as XML (Extensible Markup Language) is developed. It will let you devise your own customised markup language, to reduce

dependence on the over-burdened HTML. XML is a cut-down version of SGML (Standard Generalised Markup Language), an international standard for defining document types <www.w3.org>.

Web authors should be wary. Every browser supports a different subset of HTML, perhaps adding its own unique tags, too. There is a trade-off between sophistication and universal readability. If you want everyone to be able to read your page, use HTML 2.0. If you are happy with the latest Netscape Navigator, use that as your standard. Most sites aim to support the current versions of both Navigator and Internet Explorer.

have with a printed page. However, HTML was not intended to provide precise control over appearance, but rather, to be reformatted by the browser to retain the *structure* of the document on different systems. Although many editors *claim* to be WYSIWYG, with HTML you cannot guarantee what the page will look like on another system.

The HTML standard is formally controlled by the W3C (World Wide Web Consortium). Inevitably, both Netscape and Microsoft race ahead with new features without giving the W3C time to ratify or reject them, although both companies claim they will eventually conform to the official standard. Currently this

dependence on the over-burdened HTML. XML is a cut-down version of SGML (Standard Generalised Markup Language), an international standard for defining document types <www.w3.org>.

Web authors should be wary. Every browser supports a different subset of HTML, perhaps adding its own unique tags, too. There is a trade-off between sophistication and universal readability. If you want everyone to be able to read your page, use HTML 2.0. If you are happy with the latest Netscape Navigator, use that as your standard. Most sites aim to support the current versions of both Navigator and Internet Explorer.

Choosing an ISP

For those of us not blessed with a permanent internet connection, getting onto the web means opening an account with an Internet Service Provider (ISP) and using space on one of its servers. The good news is that all the leading ISPs, like AOL, CompuServe, Demon and MSN, provide web space to all their customers.

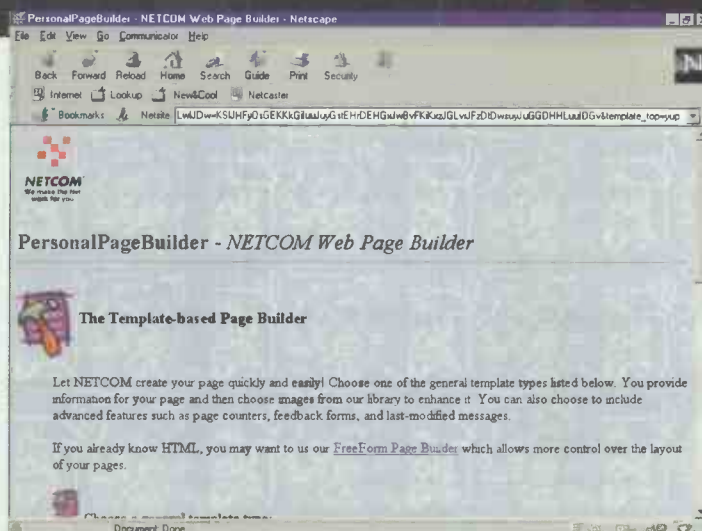
There are variations in terms of what each ISP provides:

- **How much space?** AOL offers a generous 10Mb, while Netcom gives a basic 1Mb. There will be extra costs if the initial allowance is exceeded.

- **What about bandwidth charges?** A nasty piece of small print in some agreements states that extra charges will be made if there are more than a certain number of hits to your site, or more than a certain amount of bandwidth (in other words, data transferred).

To be fair, this protects the Information Service Provider from one or two very popular sites spoiling the party for other users by slowing down the system.

The catch is that you have no control over who may visit your site. It is best to choose an ISP that does not impose bandwidth charges.



Netcom has a pagebuilder wizard which lets you create a web site in minutes. Other ISPs, like AOL and CompuServe, have a similar service

- **Authoring help.** The most popular ISPs have online wizards to quickly get you up and running. AOL offers a simple web authoring package, called AOLPress, free to members. For those with

- **What facilities do you want?** Some web features require programs to run on the server. If you want to use these, ask your ISP what CGI scripts (Common Gateway Interface is a standard way of programming a web server) are available and whether you can add your own.

Generally the answer will be no, unless you have a more expensive business-orientated service. This includes the FrontPage Extensions, Microsoft's add-on scripts that empower extra functionality in FrontPage-authored webs.

deeper pockets, some ISPs offer custom authoring services at a cost.

- **Domain name registration.** Would you like to be www.yourdomain.com instead of www.aol.com/~nobodysuch? You can be, but only by paying an annual fee. Most ISPs provide this service, but some do not (AOL, for instance).

- **Information.** Chances are you would like to know how many people visit each page on your site. Some ISPs can offer detailed data about where those hits originated. Most web activity is logged somewhere along the line.



Adobe PageMill

Available for both Mac and Windows 95 or NT, PageMill aims to provide an easy-to-use WYSIWYG layout tool. It is bundled with an excellent graphics tool (a cut-down version of PhotoShop) but there is no integration between the two. Nor are there any site-management tools. Like Claris Home Page, PageMill is dedicated solely to page layout. There are no wizards or templates, other than a few sample web sites on the PageMill CD, but there is a smart, printed manual.

PageMill has several attractions. It has a traditional word-processor style interface but clicking a large button switches to a fast preview mode. Its preview is better than most, with working hyperlinks and even support for Netscape plug-ins, but not for Scripts or Java applets. There is also a two-colour HTML source view which lets you edit the code. A toolbar enables access to standard formats and objects like buttons and check-boxes.

The table editor is simple but effective and editing frame-based pages is exceptionally easy. Simply choose Split Frame from the Edit menu and the current page is divided into two. Select a frame, and you can split it again



PageMill's WYSIWYG editor, with the Inspector and tabbed pasteboard showing

formatting of a document. PageMill also handles image maps neatly. Double-click an image, and drawing tools appear on the toolbar. You can then draw shapes on the image, and set links for them just as you would for other hyperlinks. It is nothing special in terms of features, but as a solid, fast, common-sense page-editing tool, PageMill is outstanding.

as you wish. You can insert an existing page or new content into a frame and you can also resize it with the mouse.

Another nice feature is the pasteboard, a tabbed window into which you can put any HTML items that you may need again. You can then move them back into a web page using drag-and-drop. This works with hyperlinks, so it is a handy way to add the same link several times in a document.

Extra functions include a Place Object option that lets you insert an image, sound, Java applet or Acrobat .PDF file. Acrobat is Adobe's cross-platform viewer which, unlike HTML, lets you preserve the exact layout and

PCW Details

Price £92.83 (£79 ex VAT)

Contact Adobe 0181 606 4000

www.adobe.co.uk

Good Points Excellent user interface. Easy frame handling with fast internal preview.

Bad Points No wizards or templates. No site management. Limited features.

Conclusion The best of the products which major on ease of use, rather than features.

★★★★

Allaire HomeSite

The creators of HomeSite are champions of the cause of straight HTML editing. They point out that WYSIWYG editors do not support every available tag, often create inefficient code and give less control over layout than raw HTML. All true, but for sheer productivity WYSIWYG is hard to beat. There is room for both, though, and if code editing is your

preference, HomeSite is an excellent choice.

The interface is a delight. The edit area supports multiple documents and has two tabs along the top, one for code and another for page preview. If Internet Explorer is installed, HomeSite will embed the IE browser into its preview pane.

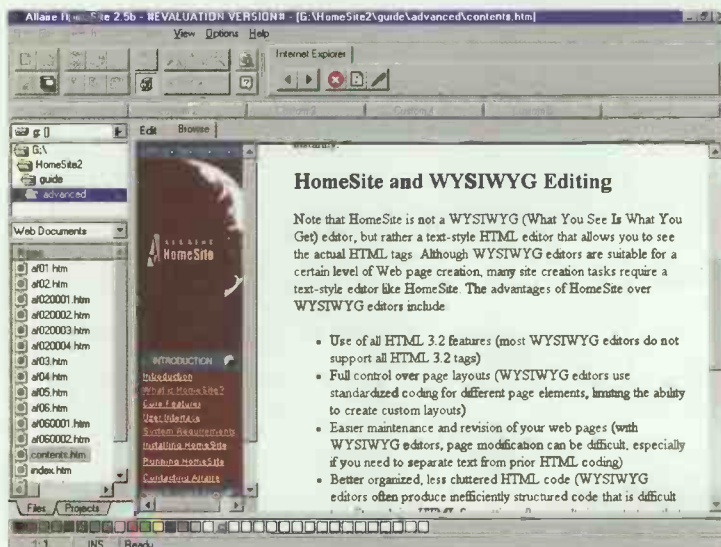
The editor is colour-coded and there is a full-screen option. There is also a project

manager, which can show either a file directory or the contents of a HomeSite project. Where there are image files, these can be dragged into the editor. You can also display an HTML reference pane, with tags listed

and explained, and a tag list where you can double-click an item to pop it into the page.

HomeSite has wizards for inserting tables and frames and another for visual list editing. You can customise HomeSite by creating custom menus, each of which can hold 16 entries consisting of any HTML code you like. These end up on a toolbar, where you can drop-down the list and immediately add the contents of an item to the editor.

A validator is not built in but can easily be installed. There is also a neat but drastic option to strip all tags, ideal for rescuing the text from a badly messed-up page. HomeSite is a great programmer's tool, but although you can get started easily it is only suitable if you are determined to learn low-level HTML. Expect to see the new version, HomeSite 3.0, out soon.



HomeSite is an HTML code editor with many time-saving features

PCW Details

Price £76.38 (£65 ex VAT)

Contact Allaire/Unipalm 01638 569600

www.allaire.com

Good Points Good for accessing and programming low-level HTML.

Bad Points No built-in validator.

Conclusion The best HTML editor around. Ideal for programmers.

★★★★

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Asymetrix Web Publisher

Many applications have wizards, but

Web Publisher is a wizard without an application — or that's how it feels. Web pages are created by proceeding, step-by-step, through dialogs.

First, pick a theme. Next, add pages based on one of four layout styles, each of which combines a title, text and a single graphic. A miniature of your page appears. You double-click on a text box in the miniature to open a text editor where you can add text and basic formatting like alignment, heading level, and bold or italic. You can also define hyperlinks.

The last step is to click a Generate button that builds web pages from the information you have supplied. Web Publisher will open the pages in a specified browser for testing, and there is also a deployment wizard for uploading pages via FTP (File Transfer Protocol) or copying them across a network.



The best thing you can say for Web Publisher is that the web pages it produces look swish provided that one of the supplied templates is to your taste. They are highly colourful, and there is an option to include Java buttons — more interesting than the standard HTML button or hyperlink.

It is easy to use, although you have to hold your breath lest anything goes wrong. On one

Highly automated and rather inflexible, Web Publisher nevertheless lets you create bright, colourful web pages

occasion during testing, Web Publisher refused to generate a page, with a mystifying "Could not load resource" error message and no clue as to how to fix it. Even more serious, the generated pages did not display correctly in Navigator 4.0 although they looked fine in Internet Explorer. In Navigator a large, blank column appeared, pushing the content too far to the right. All this underlines the danger of working with a highly automated tool: when it goes wrong, there is no way of recovering without learning all the nasty HTML stuff from which the tool is meant to protect you.

PCW Details

Price £70.50 (£60 ex VAT)

Contact Asymetrix / PSC 01923 208433; www.asymetrix.com

Good Points Easy to use and it creates bright, arresting pages.

Bad Points Problems with Navigator 4.0. Inflexible. Hard to troubleshoot.

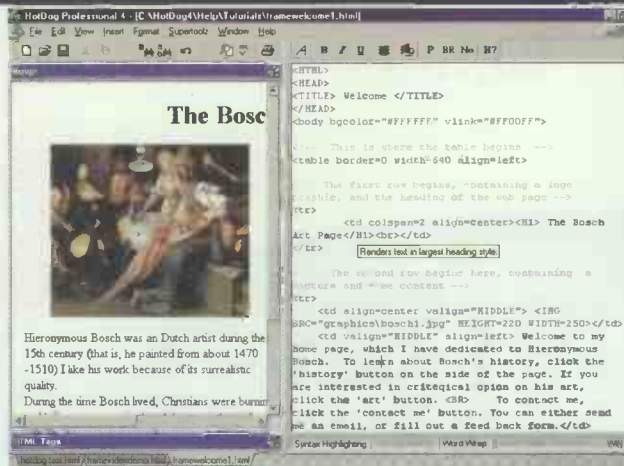
Conclusion Very easy dialog-based authoring, but most will find it too limiting.

★★

Sausage Software HotDog Pro 4.0

HotDog from Sausage Software is a well-established shareware web authoring tool. Now at version 4.0, it is a feature-rich package which includes downloadable extras, called Supertoolz, to supplement the standard application. HotDog is not WYSIWYG but is based on a colour-coded HTML editor. It is therefore suited to those willing to learn at least the basics of how an HTML page works. An internal browser, called Rover, can be displayed alongside the editor to provide a near-instant preview of your page, although it cannot execute Java or JavaScript and had problems with frames in some of our tests. It is an ideal layout if you like working directly in HTML.

When you start a new document in HotDog, you get a bare outline HTML page. Then it is a matter of typing away, or using one of HotDog's many helper tools to insert page elements. The editor handles syntax highlighting which colour-codes the HTML tags to help you distinguish them from your text, and tag highlighting which marks a tag in red if it has invalid parameters. There is excellent use of ToolTips in the editor itself, so that when the mouse is over a particular tag



or parameter, a tip message pops up explaining what it does. Another handy tool lets you show a list of tags in a window, from which you can drag-and-drop to the editor. If you right-click a tag and choose properties, you get a brief description.

There are wizards to handle elements like forms, lists, frames and tables. The Supertoolz add-ons work seamlessly with HotDog and provide extras like a visual table editor, JavaScript editor, text effects wizard and image mapper. Some of these cost extra, while others are free to download.

HogDog Pro is impressive, laden with

HotDog's Rover gives a handy preview, while HTML tooltips help you find your way through the forest of tags

features and eminently usable, but there are a few rough edges. For some reason, the open and save dialogs took over a minute to appear on the test system, running Windows NT 4.0. The interface is not always consistent, particularly when it comes to Supertoolz. But if you can tolerate the ugly Sausage logos, HotDog is a good choice.

PCW Details

Price £81.08 (£69 ex VAT)

Contact FourthNet 01252 345441 www.sausage.com or www.hotdog.co.uk

Good Points Crammed with features. Helpful code editor. Side-by-side code and review windows.

Bad Points Some rough edges. Interface slow in places. Needs knowledge of HTML.

Conclusion All the features are there, but there are better packages for integration and ease.

★★★

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PCW1

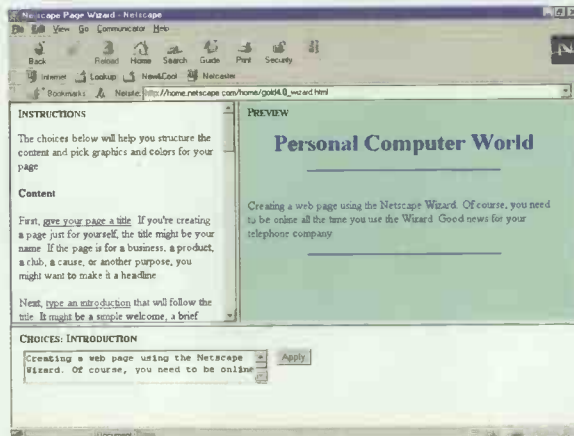
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Netscape Composer

Composer has two strong attractions. One is that it is part of the Netscape Communicator suite, which also includes Navigator, the popular web browser. The other is that its uncomplicated interface, similar to a word processor, makes it easy to get started.

The editor is fully WYSIWYG and there is a spelling checker. You can view the HTML source but it is not editable from within Composer. Instead, you need to specify an external editor which can be anything from Notepad upwards. In the same way, there is no supplied image editor. If you stay within Composer, you can easily edit text, with fonts and basic styles, and insert links, tables, images and lines. Tags not directly supported can be inserted into the page, where they appear as symbols. There is no support for frames, scripting, or Java applets. Instead, Netscape has a separate tool, Visual JavaScript, which is aimed at developers.

Netscape seems to take the view that most people have a permanent connection to the internet, or are happy to constantly use a dial-up connection. For example, an innocent



option like "New Page from Wizard" connects you to Netscape's site in order to run an online, HTML-based Wizard. When you finally get there, the Wizard is a disappointment. You can also create new pages based on templates, which are available from Netscape's site.

A nice feature is the Document Info option which generates a report showing the document structure with all its links, although there is no tool to show the structure of an entire web site.

Integration with Navigator could be better. When you preview a page, Navigator opens in

Netscape Composer has an online page wizard but sadly it is not worth the connection time

an entirely separate window. Finally, there is a useful Publish option which uploads a completed document to your web site.

If all you want to do is throw up some basic pages, and if you use Navigator, then Composer is a good, convenient option. However, it is hard to imagine serious users staying with it for long, because of its limited range of features.

PCW Details

Price £52.88 (£45 ex VAT) as part of Communicator suite

Contact Grey Matter 01364 654100
www.netscape.com

Good Points Clean, clear interface. Good implementation of basic HTML features.

Bad Points No frames or scripting support. Relies on external editing tools. Some features do not work offline.

Conclusion Composer is fine for getting started but you will soon want to move on.

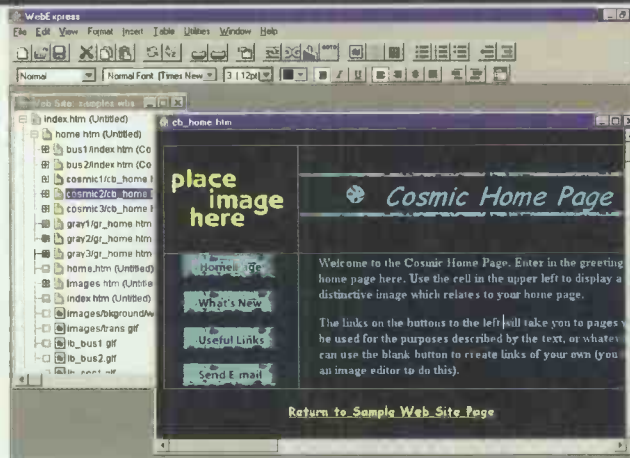
★★

MicroVision WebExpress 2.0

WebExpress is a cheerful Shareware application that includes simple site management as well as a WYSIWYG page editor. It comes on just two floppy disks or it can be downloaded. Registered users receive a short, printed manual. The best way to use it is to create or open a WebExpress site, specifying a base directory along with the eventual target URL. This opens a web site manager window which lists all the pages in the site in a tree view, with the tree based on the links between the pages. Any broken links are also shown in the manager window. Double-clicking a document then opens it in the main editor.

Like Home Page and PageMill, WebExpress has full coverage of basic HTML features but stops short of the more advanced or recent developments supported by tools like FrontPage or HotMetal Pro. To get you started, a range of sample pages and small web sites is installed with the package.

WebExpress comfortably handles tables and frames. Image maps are supported, but via a difficult dialogue in which hotspot coordinates are entered manually. A nice feature is that you can maintain a permanent list of



URLs so that frequently-used items such as your home page or email address can be easily inserted as links. There is no integrated HTML source editor but there is a link to Notepad.

WebExpress is an MDI application, which means it handles multiple documents in the same way as Word. Each document window can be resized or maximised and the open windows can be tiled or cascaded. This does not work well in WebExpress, the reason being that the Web Site Manager is treated as just another document. If you maximise the document on which you are working, the Site Manager disappears behind it. This is a mess,

WebExpress is easy to use and capable, despite its rough edges

and HomeSite's technique, of having a docked project window with open documents alongside it, separated by tabs, is far better.

Another problem is that WebExpress occasionally generates invalid HTML tags, although in our tests this was easy to fix.

Overall, WebExpress is a straightforward and capable product.

PCW Details

Price £57.59 (£49 ex VAT)

Contact The Thompson Partnership
01889 564601 www.mvd.com

Good Points Full-featured shareware. Easy frames support. Windows 3.1 version available.

Bad Points Sometimes generates invalid HTML. No code editor. Untidy interface.

Conclusion A strong shareware product but the interface needs a bit more work.

★★★

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Editor's Choice

Creating a web site is easy. The quickest way is to sign up with an ISP that has an online site-building wizard. You can create a site in a few minutes and because it is done online, there is nothing to upload. Creating a good web site is not easy though, as any web surfer will tell you. Problems include broken links, large graphic files, scripts that do not run, or sites that are simply ugly and hard to navigate. This is where having the right authoring tool pays dividends, so here are our recommendations.

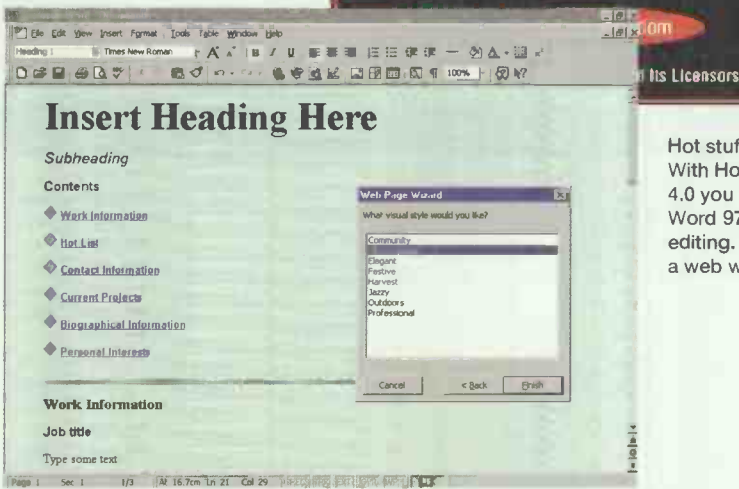
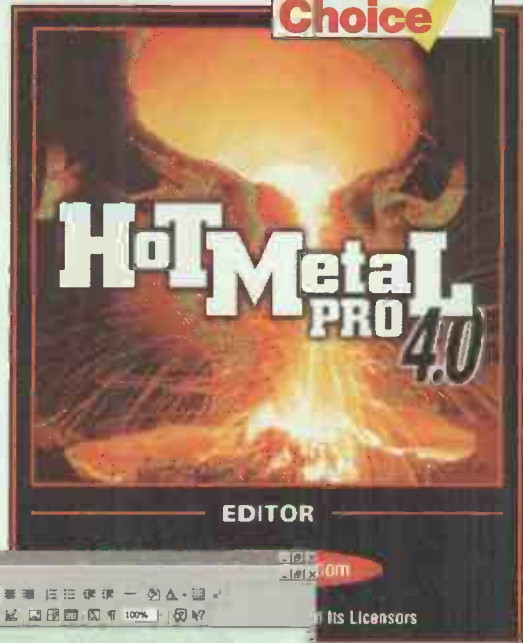
For a small web site, such as the personal or family pages often uploaded to AOL or CompuServe, the priority is an easy-to-use page editor which generates standard, universally-compatible HTML. Many of the tools mentioned here will do this, but both Adobe PageMill and Claris Home Page are outstanding as safe, lightweight authoring tools. PageMill offers a slightly better interface and feature set. It is also worth taking a look at what your usual word processor or desktop publishing package will do. Word, WordPerfect and WordPro all have good HTML export options. Microsoft Publisher is fine for creating a simple site.

Once your site gets beyond a few pages, site management becomes an issue — it is easy to end up with broken links or unreachable pages. FrontPage 98, HotMetal Pro and WebMaster Suite have particularly good management tools integrated with their related page editors. Of these, FrontPage has the best page editor, but HotMetal Pro offers HTML validation which tips the balance in its favour.

For the most ambitious web sites installed on an intranet or on a site where custom scripts are available, the priorities are different again. Essential elements include scripting tools, strong Java support and the ability to

build dynamic links to databases. If it is an NT-based intranet where most or all of the browsers are on Windows, FrontPage 98 is the best choice. The editor is slick, and features such as discussion groups and database access regions are genuinely easier with FrontPage.

For more general use, the first choice is HotMetal Pro which, in its latest version, comes with stunning graphical tools, a fine editor for both WYSIWYG and raw HTML code, good site management and that all-important validation option. HotMetal Pro 4.0 is therefore our Editor's Choice, while FrontPage 98 and Adobe PageMill are Highly Commended.



Hot stuff: With HotMetal Pro 4.0 you can use Word 97 for web editing. It even has a web wizard

Spicing up your web site

The days when web users were content with formatted text are long gone. Today's sites are bursting with colour and dynamic, interactive elements. Here's how it's done.

■ Graphics

Carefully deployed, graphics are a web author's best friend. The secret is to keep them small to reduce download time, and to take care over their content. That is why image-editing tools are vital. You should certainly install a good bitmap editor such as the shareware PaintShop Pro, or acquire one of the authoring packages which includes strong image tools. Another possibility is to get hold of a dedicated product like Asymetrix Web 3D, capable of spectacular graphic effects and orientated towards web design.

■ Plug-ins

Plug-ins are extensions to Netscape Navigator, also supported by Microsoft Internet Explorer. Once you have installed a plug-in, you can browse web pages which

include data understood by the extension you have installed. This might include video, sound, special effects, virtual reality spaces or extra graphical features. Plug-ins are usually free but software to author material for a particular plug-in may cost extra. Not all plug-ins are available on every platform, so watch for compatibility problems.

■ ActiveX

Microsoft's ActiveX technology is conceptually not that different from a plug-in, except that ActiveX extensions are installed into the operating system and are not just available to browsers. Some ActiveX controls take a while to download but once installed they can execute speedily since they are native Windows code. The main snag with ActiveX is that most controls work only under Windows (not surprising since it comes from Microsoft). Another concern is security, but code-signing, a way of proving the origin of a particular control, is a reasonably effective preventative measure as long as the user understands the issues.

■ Java

Java is a programming language which compiles code that runs in a VM (virtual machine). A VM is a layer of software between the application and the underlying operating system. The advantage is that a Java application runs anywhere, as long as a Java VM is available.

VMs exist for Windows, the Mac and many varieties of Unix, so Java is a true cross-platform language. Web authors can insert Java applets (mini applications) into web pages so that they run inside your browser.

Java applets run only in a browser and are prevented from accessing your computer (a technique called sandboxing) and this prevents Java viruses. The latest browsers support signed Java applets which can access your resources but must declare their origins in the same way as a signed ActiveX control. To create Java applets, visit the Sun or Javasoft web sites for freely downloadable tools. The main snag with Java is that applets can be slow to download, and sometimes slow to execute, as well.



Table of Features

Supplier	Adobe	Allaire/Unipalm	Asymetrix/PSC	Claris	Corel
Name	PageMill 2.0	HomeSite 2.5	Web Publisher	Home Page 2.0	WebMaster Suite
Tel	0181 606 4000	01638 569600	01923 208433	0345 413060	0800 973189
Web site	www.adobe.co.uk	www.allaire.com	www.asymetrix.com	www.claris.com	www.corel.com
Price (ex VAT)	£79	£65	£60	£89.99	£159
Price (inc VAT)	£93	£76	£71	£106	£187
Validation	No	Add-on	○	○	○
Image editor	●	○	○	○	●
Image mapper	●	○	○	●	●
Insert Java applet	●	○	○	●	●
Scripting	○	○	○	○	○
Animation tools	○	○	○	○	●
Database tools	○	○	○	○	Partial
Site management	○	○	○	○	●
Clip-art library	●	○	●	●	●
Web server bundled	●	○	○	○	●
Spell-checker	●	●	●	●	●
Insert ActiveX	○	●	○	○	●
WYSIWYG	●	○	○	●	●



Table of Features

Supplier	Microsoft	Netscape	Sausage Software/FourthNet	SoftQuad	The Thompson Partnership
Name	FrontPage 98	Netscape Composer	HotDog Pro	HotMetal Pro 4.0	MicroVision WebExpress
Tel	0345 002000	01364 654100 (Gey Matter)	01252 345441	0181 387 4110	01889 564601
Web site	www.microsoft.com	www.netscape.com	www.sausage.com or www.hotdog.co.uk	www.softquad.co.uk	www.rmd.com
Price (ex VAT)	£99 (£65 upgrade)	£45 (part of Communicator suite)	£69	£105	£49
Price (inc VAT)	£116.33 (£76.38 upgrade)	£53	£81	£123	£58
Validation	○	○	○	●	○
Image editor	●	○	○	●	○
Image mapper	●	○	●	●	●
Insert Java applet	●	○	Add-on	●	○
Scripting	●	○	Add-on	●	●
Animation tools	●	○	Add-on	●	○
Database tools	●	○	○	●	○
Site management	●	○	●	●	●
Clip-art library	●	○	○	●	○
Web server bundled	●	○	○	●	○
Spell-checker	●	●	●	●	●
Insert ActiveX	●	○	○	●	○
WYSIWYG	●	●	○	●	●

Key: ● Yes ○ No

This table does not include every feature, since all the tools support basic HTML elements. Note also that most things can be accomplished through direct HTML editing, even where a feature is not specifically supported.

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The Axis is a good starting point for the PC
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price. The Axis system makes top quality
multimedia pc performance affordable.
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Atlantic Axis PC perfect for all home and
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- Lifetime technical support.
Buy now pay later

PRO 98



200MHz £949

The Atlantic Pro 98 system delivers high
performance multimedia with MMX
technology as standard. The Pro 98 utilises a
K56Flex modem with Internet technology and
voice fax facilities, perfect for high-end home
and business use. Ultra ATA DMA-33 hard disk
transfer, super fast system SDRAM and 3D
graphics deliver an excellent all round
performance system.

- Intel Pentium® processor with MMX™
technology
- or Intel Pentium II processor
- Intel® 430TX or AL-440LX ATX motherboard
with 512k pipeline burst cache
- 32Mb SDRAM, expandable to 128MB
- 3.2Gb Ultra ATA DMA-33 hard drive
- ATI® 3D Rage II + 4Mb graphics card
with full screen MPEG1 playback
- 15" ADI® 0.28 LR NI monitor
- Sixteen speed Max CD-ROM drive
- 16 bit plug'n'play GM wavetable sound
- 80 Watt (PMPO) stereo speakers
- K56 Flex internal fax & data modem
- 3.5" 1.44Mb floppy disk drive
- 105 key windows® 95 keyboard & mouse
- ATX mini tower or desktop case
- 4 PCI & 3 ISA slots 1 shared
- 2 USB ports
- Headset and Microphone
- SOFTWARE
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WordPro 97,
Organiser 97,
1-2-3 97,
Approach 97,
Freelance Graphics 97.

Corel Draw Suite 4 Including:
Draw,
Photopaint,
Chart,
Show.

IBM Worldbook Encyclopedia 97,
(Software supplied on CD-ROM with on-
line documentation where appropriate).

Pipex dial 4 - one month free internet
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IBM Simply speaking voice dictation software

Kindware Desktop Lawyer - essential letters
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- 5 year warranty - 1st year on-site
- Lifetime technical support.
Buy now pay later

INTEL PENTIUM PROCESSORS

	Ex VAT	Inc VAT	Per month*
200MHz	£699	£838.95	£29.38
233MHz	£749	£897.70	£31.44

INTEL PENTIUM II PROCESSORS

	Ex VAT	Inc VAT	Per Month
233MHz	£949	£1132.70	£39.67
266MHz	£1049	£1250.20	£43.78

*All monthly payments over 36 months 17.9% APR

INTEL PENTIUM PROCESSORS

	Ex VAT	Inc VAT	Per Month*
200MHz	£949	£1132.70	£39.67
233MHz	£999	£1191.45	£41.72

INTEL PENTIUM II PROCESSORS

	Ex VAT	Inc VAT	Per Month
233MHz	£1149	£1367.70	£47.90
266MHz	£1249	£1485.20	£52.01

*All monthly payments over 36 months 17.9% APR

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PANACOM



133MHz £59 Per Month

Atlantic Panacom notebook computers are cutting edge multimedia PC's in a portable, and ergonomic format. Sharp screens and exceptional build quality combined with two years interest free credit make these multimedia PC's hard to resist. All Atlantic notebooks contain specially designed mobile Pentium processors from Intel, ensuring enhanced battery performance and MMX technology as standard.

- 12.1" SVGA colour display
- 133MHz or 166MHz Intel® mobile pentium® processor with MMX technology
- Intel® 82430MX chipset
- 1.44Gb hard disk drive
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- 256k level 2 cache
- Neomagic 128bit graphics accelerator
- Removable 12 speed CD-ROM
- 1.44 floppy drive
- 16bit stereo sound with stereo speakers & microphone
- 2 x smart NiMH batteries
- 85 key keyboard with MS Windows 95 keys
- 2 PCMCIA type II or type III slots
- Synaptics® touchpad™
- Parallel (EPP/ECP), serial & infra red, VGA, docking connector & PS2 port
- Built in microphone
- Weight 2.9Kg • Dimensions: 299 x 226 x 51
- Carry case, A/C adapter, manuals
- Microsoft® Windows 95
- SOFTWARE
IBM Simply speaking voice dictation software, Lotus Smartsuite 97

- 1Yr parts & labour warranty, two years RTB
- Lifetime technical support

	Ex VAT	Inc VAT	Per Month
133MHz	£1549	£1820.08	£59
166MHz	£1699	£1996.32	£79

*Payments over 24 months. Deposit payable 0% interest free

200MHz £129 Per month

- 13.3" XGA TFT colour display
- 200MHz Intel® mobile pentium® processor with MMX technology-Intel MM0 module
- Intel® 82430MX chipset
- 2.1Gb hard disk drive
- 32Mb EDO RAM exp to 80Mb
- 256k level 2 cache
- Neomagic 128bit 3D graphics accelerator
- 20 speed CD-ROM & 1.44 floppy drive
- Stereo wavetable sound with stereo speakers, wavetable with MIDI
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- 85 key keyboard with MS Windows 95 keys
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- Zoomed video port
- Cardbus ready • Synaptics® touchpad™
- Parallel (EPP/ECP), serial(16650) & Infra red (IRDA 1), VGA, docking connector & PS2 Port
- Built in microphone
- Weight 2.9Kg • Dimensions: 299 x 226 x 51
- Carry case, A/C adapter, manuals
- Microsoft® Windows 95
- SOFTWARE
IBM Simply speaking voice dictation software, Lotus Smartsuite 97

- 1Yr parts & labour warranty, two years RTB
- Lifetime technical support

	Ex VAT	Inc VAT	Per Month
200MHz	£2999	£3523.82	£129

*Payments over 24 months. Deposit payable 0% interest free

NEXUS



200MHz £70 Per Month

Atlantic Nexus systems come fully equipped with TV Tuner so now you can view off-air TV broadcasts either full screen or in a window with full audio and capture facilities. All Atlantic Nexus PC's, come with an extensive software bundle for home and business use. Stunning wavetable synthesis and MIDI features from Creative's AWE-64 Digital audio card also makes the Nexus the intelligent choice for PC musicians and serious game players. Nexus systems feature super fast K56 Flex voice, fax & data modems & include trial access to the Internet via PIPEX.

- Intel Pentium® processor with MMX™ technology or Intel Pentium II processor
- Intel® 430TX or AL-440LX ATX motherboard with 512k pipeline burst cache
- 32Mb SDRAM, expandable to 128MB
- 3.2Gb ultra ATA DMA-33 hard drive
- ATI® 3D Xpert@work 4Mb graphics card with full screen MPEG2 - DVD
- TV Tuner & teletext decoder
- 15" ADI® 0.2B LR NI monitor
- Sixteen speed max CD-ROM drive
- Creative AWE-64 wavetable soundcard
- 80 watt (PMPO) stereo speakers
- K56 Flex Internal fax & data modem
- 3.5" 1.44Mb floppy disk drive
- 105 key windows® 95 keyboard
- MS compatible mouse
- Mini tower or desktop case
- 4 PCI & 3 ISA slots 1 shared
- 2 USB ports
- Headset & microphone
- SOFTWARE
Microsoft® Windows 95
Lotus Smartsuite 97 including:
WordPro 97, Organiser 97, 1-2-3 97, Approach 97, Freelance Graphics 97
Corel Draw suite 4 including:
Draw, Photopaint, Chart, Show, IBM Worldbook Encyclopedia 97
Dorling Kindersley's Encyclopedia collection: Science, Nature, World Atlas, Dorling Kindersley's Chronicle of the 20th Century
Microsoft® Family pack including:
Encarta97, Works, Money, Golf,
Explore the solar system
IBM Simply speaking voice dictation software
Kindware Desktop Lawyer - essential letters & Desktop Lawyer - Business & home LE. (Software supplied on CD-ROM with on-line documentation where appropriate).
PipeX Dial 4 - one month free internet access account. No credit card required.

- 5 year warranty, 1st year on site
- Lifetime technical support

INTEL PENTIUM PROCESSORS			
	Ex VAT	Inc VAT	*Per Month
200MHz	£1429	£1679.08	£70
233MHz	£1529	£1796.57	£75

INTEL PENTIUM II PROCESSORS			
	Ex VAT	Inc VAT	Per Month
266MHz	£1819	£2137.33	£89

*Payments over 24 months No deposit. 0% interest free

PROTEUS



Buy Now, Pay Later

The Proteus range represents the next generation of computer system design. The ATX based Proteus systems feature MMX technology, 15" screens, large 6.4Gb Ultra ATA DMA-33 Hard Disk Drives and Microsoft Office97 on all models for outstanding 'Future Proofing'. Atlantic PC's are even easier to own right now, with 10% deposit and nothing more to pay for six months, when you have the option to pay the rest interest free, or you can take advantage of our economical 36 monthly repayments scheme.

- Intel® Pentium® processor with MMX™ technology or Intel Pentium® II processor
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- 32Mb SDRAM, expandable to 256MB
- 6.4Gb Ultra ATA DMA-33 hard drive
- ATI® 3D Xpert@work 4Mb graphics card with full screen MPEG2 - DVD
- AGP X2 graphics on Pentium II processor based systems
- 15" ADI® 0.2B LR NI Monitor
- Twenty four speed max CD-ROM drive
- Creative AWE-64 Gold wavetable soundcard
- 80 Watt (PMPO) stereo speakers
- K56 Flex internal fax & data modem
- 3.5" 1.44Mb floppy disk drive
- 105 Key Windows® 95 keyboard & mouse
- ATX Mini tower or desktop case
- 4 PCI & 3 ISA slots 1 shared
- 2 USB ports
- Headset & microphone
- SOFTWARE:
Microsoft® Windows 95
Microsoft® Office 97 SBE includes:
Word 97, Excel 97, Publisher 97, Small Business Financial Manager 97, Autoroute express GB, Outlook 97.
Corel Draw Suite 4 Includes:
Draw, Photopaint, Chart, Show, IBM Worldbook Encyclopedia 97
IBM Simply speaking voice dictation software
Kindware Desktop Lawyer - essential letters & Desktop Lawyer - business & home LE. (Software supplied on CD-ROM with on-line documentation where appropriate).
PipeX Dial 4 - one month free internet access account. No credit card required.
- 5 year warranty - 1st year on-site
- Lifetime technical support
- Buy now pay later

INTEL PENTIUM PROCESSORS			
	Ex VAT	Inc VAT	*Per Month
200MHz	£1349	£1585.08	£49.96

	Ex VAT	Inc VAT	Per Month
233MHz	£1399	£1643.83	£51.81

INTEL PENTIUM II PROCESSORS			
	Ex VAT	Inc VAT	*Per Month
233MHz	£1549	£1820.08	£57.37

	Ex VAT	Inc VAT	Per Month
266MHz	£1649	£1937.58	£61.07

	Ex VAT	Inc VAT	Per Month
300MHz	£1829	£2149.08	£67.73

*All monthly payments over 36 months 17.9% APR

WARRANTY

Atlantic PC systems come with a five year warranty as standard, with the first year on-site at no extra cost. Business hours telephone technical support is also provided during the lifetime of the PC. Now home users can upgrade to special 7 day out-of-hours telephone helpline for the first year for only £29 + VAT

ISO 9002
QUALITY ASSURANCE

What the papers say

Personal Computer World
Good Points: Software bundle, large hard disk, excellent graphics card.
Bad Points: None
Conclusion: Great specifications and good selection of software make this an attractive choice.
(ATX Proteus PCW Feb '97)

Computer Shopper
"The presentation of this system is good and it boasts high quality components."
(ATX Pro 97 Best Budget Buy Computer Shopper May '97)

Personal Computer World
"This PC has proved to be one tough cookie. It handled everything without hassle."
(Pro 96 long term test PCW June '97)

PC Advisor
"...this Atlantic machine performed confidently throughout our rigorous testing procedures. The Atlantic gives good performance for an excellent price."
(Pro 97 Recommended PC Advisor Sept '97)

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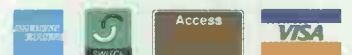
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Atlantic
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Caught on camera

Our snap-happy scribblers, Adele Dyer and Paul Trueman, rounded up 14 digital cameras for a visual assault on an unsuspecting still life.

In the last year, digital cameras have gone from being experimental toys to serious alternatives to compact silver-halide film cameras. Just about every company that makes film, cameras and even lenses has been getting in on the act, aware that if they do not go digital, they may well go out of business within the next few years. So the number of cameras has risen; the prices have gone down, and the features they offer have improved. But of prime importance to everyone is the quality of the digital images they produce.

Last year we looked at ten digital cameras. This year we could have played with twice as many, but we restricted ourselves to fourteen, half of which are brand new. And keep your eyes peeled for yet more digital cameras hitting the shops just in time for Christmas, which we have rounded up on page 224.

The only way to assess digital cameras is to compare output. Using a still-life setup of flowers and fruit, with plenty of colours and textures, we'll show you what to look for in terms of quality, both good and bad. Many of the cameras offer much more than just the capacity to point and shoot. Some have zoom lenses, some let you record sound and output the whole lot to a TV or video player, and one even lets you write notes on the touch-sensitive screen.

But for those who are confused as to how a camera can capture an image without film, we also explain how digital cameras work. So if you want to find out everything there is to know about flash memory, charged coupled device and JPEG compression, check out page 222 to find out more.

We have taken account of all the factors and come up with a few ideas for Christmas presents, should Santa be feeling generous.

Digital cameras Contents

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Ratings

★★★★★	Buy while stocks last
★★★★	Great buy
★★★	Good buy
★★	Shop around
★	Not recommended

Canon PowerShot 350



The most frustrating feature of the PowerShot is the way it turns itself off in almost no time at all. Leave it for 60 seconds and it shuts down. An optional power setting would have been good. The designers have been as careful with the camera's appearance as they have with its power management: it was one of the best-looking cameras we saw, with a metallic silver finish, a 1.8in Liquid Crystal Display (LCD) and a well-placed "shutter" button.

The camera has just a single resolution, 640 x 480, but there are three levels of JPEG compression so you can save on memory. The option buttons on the back are less well thought out. With the best cameras you can work out the extra functions without pouring over the instructions, but here that is impossible. The symbols are confusing and the fussy rubber buttons are a poorly executed annoyance. We found the clear photos that the camera takes a welcome surprise.

Canon's software for opening up the pictures contains a little too much detail. One on-screen button too many had to be pushed, and although it only took 25 seconds to download, the software made it seem longer.

In spite of the poor-quality LCD, the PowerShot 350 does deliver great-quality photos.

PCW Details

Price £586.32 (£499 ex VAT)

Contact Canon UK
0121 680 8062 www.canon.co.uk

Good Points Lovely finish. Good manuals. Great photo quality.

Bad Points Poorly thought-out function buttons. Fiddly software.

Conclusion With a little more care, it could have been a contender.

★★★

Casio QV-200



The QV-200 is the first of four budget cameras Casio is launching before Christmas, and at £399.99 the QV-200 offers a couple of extras you usually associate with expensive cameras.

It has the same swivel head lens and LCD screen that all the Casio cameras have, so you can take your own picture. The lens can swivel through 270 degrees, but the LCD is poor. The picture is not very sharp and as on most digital cameras, the display cannot provide fluid coverage of quick motion, giving not so much a jerky effect as a giddy slow-motion feel. Once the photo has been taken, the camera can perform a number of impressive features such as photo rotation, colour change (say, to sepia or b/w), TV-out, and a selection of twenty background colours.

There are two varieties in the picture quality, Fine and Standard.

The maximum resolution is 640 x 480 pixels and you can store 64 images at this resolution on the 4Mb of internal memory. At this resolution, although picture quality was not needle-sharp, the camera was good at picking out varying colours. Standard quality is 320 x 240, half of the resolution, and an impressive 130 pictures can be held in the memory. Transfer time for Fine images was slow, taking up to a minute to download, half that for a Standard quality image.

PCW Details

Price £399.99 (£340 ex VAT)

Contact 0181 450 9131
www.casio-usa.com

Good Points Good colours. A very impressive range of features.

Bad Points Lacklustre picture quality. Poor LCD.

Conclusion Spend a bit extra if you want images of a better quality.

★★★

Fuji DX-5



The new DX-5 Fujifilm could easily be mistaken for a conventional camera, being light, slim and defiantly Luddite in appearance. There is a viewfinder rather than an LCD so you can't look at photos until you transmit them to your PC, and just four option buttons on the back for when you want to change the flash settings, erase photos and set the compression ratio from fine to standard.

Transmitting the images from camera to PC is a relatively simple job. It takes about 20 seconds to download the photos from the camera, but this process is a massive drain on the batteries. I couldn't seem to load up more than a dozen images before it had seemingly sucked the life out of brand-new batteries. If this happens, don't do what I did and rush off for new duracells; simply switch your camera off for a few minutes and try again, and you can probably eke out another ten photos. This is a frustrating process that needs to be repeated a few times to get those last photos, and obviously the ideal is to hook the camera up to the mains.

An adapter is not sold with the DX-5 but it is worth investing in one, if only for preserving your sanity when you try and actually look at the photos you have taken.

PCW Details

Price £269.99 (£229 ex VAT)

Contact Fujifilm 0171 586 1477
www.fujifilm.com

Good Points Light. Simple. Good-quality images.

Bad Points A keen photographer will be frustrated at lack of features.

Conclusion Ideal starting point for novice photographer.

★★★

Fuji DX-7



A year ago Fuji hit the digital camera market with the DS-7. This has now been superseded by the DX-7, which has a lot of the same features. The resolution is still 640 x 480 pixels, and the images are still displayed on an LCD screen and stored on SmartMedia cards: a 2Mb card comes as standard. The same main controls work from the same dial on the top of the camera, and there are the same settings for the lens — macro or normal — and the same two aperture settings.

So is it the same camera in a more upmarket case? Well, no. The most noticeable differences are the viewfinder and the LCD. When the lens is set to normal mode, you use the viewfinder to line up the shot while the screen shows only the preferences you have set, not what you are looking at, which saves the battery. But when you press the shutter, the camera shows you the shot on the screen and lets you choose to save it to memory or to dump it. In macro mode you see what you have pointed the lens at.

When you get down to the finer details, there is a sharpness setting for either normal, hard or soft, and four white balance modes. Images are stored in Exif format, a Fuji standard that is based on JPEG.

PCW Details

Price £399.99 (£340 ex VAT)

Contact Fujifilm 0171 586 1477
www.fujifilm.com

Good Points An improvement on the already excellent DS-7.

Bad Points Menu system can be tricky to operate.

Conclusion A good camera for the price.

★★★★

Here's the Answer...



...now what's the Question?

CompactFlash removable memory card



Flash



Time / Continuous shooting



Panoramic shooting



Time / Date stamp



2.5" screen



Timer



Interval shooting



Built-in titling



Collage effects



Image colour modification



Quicker image capture



Image database folders



Panoramic Software†



AOL Software††



Casio invented the compact digital camera. We launched the first one in the UK in July 1995 and are now established market leaders!**

So, when we launch a new digital camera it's got to be pretty good, right? Wrong. It's got to be absolutely brilliant!

The new Casio QV 700 answers all your questions and more. For starters it stores images in three resolutions, (fine, standard and economy) has three flashmodes, a 2.5" built-in screen, a 270° rotatable lens and a CompactFlash memory card slot for 2MB to 15MB cards.

Then, how about five shooting modes (normal, continuous, self-timer, interval and panoramic), six image database folders, allowing you to sort images by subject, and time stamp modes, showing minute, hour, date, month

and year. There's even on-screen image manipulation with built-in collage effects and image colour modification. Of course the QV 700 has full connectivity to a computer, printer, another QV camera or directly to the Casio DP8000. The DP8000 lets you produce high quality prints, with 416 built-in formats you can choose from a variety of templates.

For business or pleasure, documents to the Internet, there are few questions the new Casio QV 700 can't answer. And the cost of all this technology from Casio, around just £499* inc. VAT. Unbeatable.

Your only question now is where can you get one? Simple, ask your nearest QV stockist or ring the QV Hotline on **0181 893 2592.**

Any more questions?



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*retail price guide. †Create Panoramic Images with a PC, software provided. ††One month connection and 50 free hours of on line service with

** GfK Digital Camera Audit July 1997.



Kodak DC-50

It is an indication of how revolutionary the Kodak DC-50 was that, despite being released nearly two years ago, it is still one of the only digital cameras in the mid-priced market to include a zoom lens, equivalent to 37 to 111mm lens on a 35mm camera.

In some ways it is startling to see what's changed in those two years. There is no LCD display, which means you cannot edit out unsatisfactory photos on the hoof, which is surely one of the most attractive features of a digital camera. Similarly, it has a built-in memory of only 1Mb but it will take Type I or Type II PC Cards. The internal memory will only store seven photos at the lowest compression setting with a resolution of 756 x 504.

Like the zoom lens, the flat design of the Kodak DC series doesn't seem to have caught on. Despite the fact that the design enables a steady shot to be taken, the DC-50 seems a very bulky camera when compared to newer models. But the DC-50 is still ludicrously simple to use, and very stable to take photos with because of the chunky body.



PCW Details

Price £349.99 (£298 ex VAT)

Contact Kodak 0800 281487
www.kodak.com

Good Points Stable grip. Zoom options. Straightforward controls.

Bad Points Starting to show its age in terms of weight, size and function limitations.

Conclusion A former champ no longer punching its weight.

★★

Kodak DC-120

The DC-120 still offers a resolution that is unmatched by any other camera in Kodak's range. Given the moniker "Mega Pixel", it lives up to the name, offering a resolution of 1,280 x 960.

The Economy resolution is the equivalent of most cameras' Fine standard, at 640 x 480. There is a drawback, of course, to this level of pixelation, namely the effect on the memory card. While there is internal memory of 2Mb, this is quickly eaten up by taking just two photos: you would need a massive memory card to take a dozen 1,280 x 960 photos. However, you can use Type I or Type II PC Cards.

Other manufacturers have been either reluctant or unable to produce cameras with some of the same features that make the DC-120 such a good buy. It has both a viewfinder and an LCD that can be turned off, thus saving battery power when necessary without effectively disabling the camera. And it is still one of the few models to be fitted with a zoom, the equivalent of a 38-114mm lens on a 35mm camera.

We are not particularly fond of this design — it looks like a prop from Star Trek. However, it does provide you with a steady grip for taking shots.



PCW Details

Price £599 (£510 ex VAT)

Contact Kodak 0800 281487
www.kodak.com

Good Points The zoom option and the high resolution.

Bad Points Being mistaken for a Trekkie.

Conclusion A classic.

★★★★

Minolta Dimâge V

The Dimâge V from Minolta is the first of the company's low-end digital cameras. The most surprising feature of this camera is the lens: swivel it through 180 degrees, detach it and connect it to a meter-long cable, and you can take pictures in crowds or around corners. Holding the lens in one hand and the camera in the other is tricky, but you can still see the image displayed on the 1.8in LCD screen.

The 2.7x zoom lens is the equivalent of a 34-92mm lens on a 35mm camera and there is also a macro mode. There are two levels of image compression and the resolution is 640 x 480 pixels. It stores images on flash memory cards. A 2Mb card is supplied as standard and you can store up to 40 images. The date and time are stored with the images and it has a built-in flash.

The Dimâge V comes with Adobe PhotoDeluxe 1.0 and downloading software. You can download pictures into any TWAIN-compliant application, but the downloading process is slow and cumbersome.



PCW Details

Price £599.99 (£510 ex VAT)

Contact Minolta 0171 586 1477
www.minolta.de/europe.html

Good Points Detachable lens.

Bad Points The downloading application is terrible.

Conclusion A good, middle-of-the-road camera, but you'll need patience.

★★★★

Nikon Coolpix 300

The Coolpix 300 aims to break away from the norm and do something completely different. It is subtitled a PIA (personal imaging assistant) and its most obvious feature is the 2.5in touch-sensitive screen. You can use this to annotate images by jotting down handwritten notes or adding doodles using the stylus provided. In other words, it is like a cross between a camera and a US Robotics PalmPilot. There is an audio facility, so you can record up to 17 minutes of sounds, and a video-out port, so you can show presentations on a TV or record to video from the camera.

The Coolpix 300 isn't bad for a camera with a resolution of 640 x 480 pixels. The colours were captured accurately and the image was quite crisp. Setting up the camera was tricky at first, as the menu system used is complex.

You can download images using a serial cable, or you can opt to use a SCSI interface. Setting the camera to the right options, while seemingly simple, was fraught with difficulty. In fact, the menu puts you right off what is otherwise a very good camera.



PCW Details

Price RRP £749.65 (£638 ex VAT). Estimated street price £645.08 (£549 ex VAT)

Contact Nikon View 0800 230222
www.kit.co.jp/nikon

Good Points Good image quality. Audio facilities.

Bad Points The menu is hard to get used to.

Conclusion A very versatile and good-quality camera.

★★★★

Light weight **Heavy duty**



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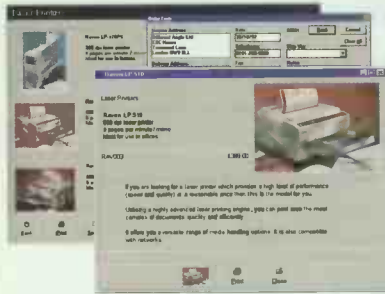
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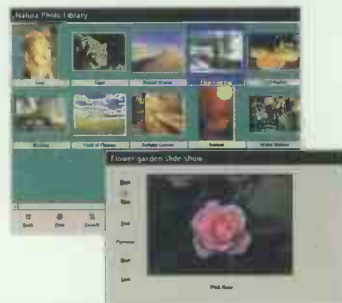
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MiniCat 2.1 can import pictures in any of the popular bitmap formats (BMP, PCX, TIF, JPG, GIF, etc.), text in TXT format, and multimedia clips in AVI, MPG, FLI, WAV, and EXE formats.

(CD-ROMs now cost a lot less to produce than many people realise - approx. 40p each.)



Once you've finished "working" with MiniCat, it's time to have fun with it. Just think of the possibilities... you could easily put two entire rolls, of 36 photos each, onto a single 1.44Mb floppy disk!

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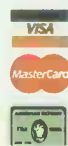
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Epson PhotoPC 600

The PhotoPC 600 has been designed to fit in with Epson's range of digital-imaging products, including scanners and photo printers. In fact, the camera can download directly to Epson's PhotoStylus inkjet.

The spec is higher than its predecessor. It has a maximum resolution of 1,024 x 768 pixels, with normal or low compression, and a lower resolution of 640 x 480 if you want rough shots that don't take up much memory. There are numerous modes for the lens, including macro, panoramic and digital zoom up to 3x, and a function which lets you take nine shots in rapid succession for capturing action, which can be played back as an AVI file, all making it a very versatile camera. You can even take pictures in either black-and-white or colour.

The PhotoPC 600 has a large internal memory which can be expanded using the 4Mb or 15Mb CompactFlash cards. These aren't cheap, but the 4Mb of internal memory can store 48 images at 640 x 480 pixels, or 16 at the maximum resolution of 1,024 x 768 pixels. There is a video-out socket so you can play back your images on a TV or record them on videotape. As you can download information to the camera, you can even use it to play back a presentation.



Personal Computer World
Highly Commended

PCW Details

Price RRP £781.38 (£665 ex VAT).
Expected street £700 (£595 ex VAT)
Contact Epson 0800 289622
www.epson.co.uk

Good Points Feature-packed.
Bad Points Zoom only works with a resolution of 640 x 480 pixels.
Conclusion A versatile camera with excellent picture quality.

★★★★

Sanyo Digicam

This camera is immensely photographer friendly: the control pad and on-screen menus are a joy to use. The four alkaline batteries are eaten up by the gorgeous polysilicon Thin Film Transfer (TFT) display. However as the Sanyo also scores over most of its contemporaries by having both a viewfinder and a display, you can save the batteries by just using the viewfinder. You can even add soundbites to individual photos — although one six-second clip takes up the equivalent memory of a standard-resolution photo. Try not to say anything too embarrassing, because you won't be able to wipe the sound off without erasing the photo as well. If you can't think of anything to say at the time, don't worry — you can always add the sound at a later date.

Most impressive is the "multi-shot" facility, sidestepping the problem that most digital cameras face when trying to take photos quickly one after the other. Most need a few seconds of grace while they write the image, and so miss out on whatever action might be going on in the meantime. The Digicam can take an impressive 16 photos in 1.6 or 3.2 seconds. These can then be replayed as AVI files, making them ideal for capturing sporting events.



Personal Computer World
Highly Commended

PCW Details

Price £529 (£449.99 ex VAT)
Contact Sanyo 01923 477295
www.sanyo.co.uk

Good Points User-friendly functions. Attractive LCD.

Bad Points One of the heavier digital cameras, with all four batteries loaded in.

Conclusion Some inspired options make it one of the best buys.

★★★★

Sony DSC-F1

Those who think it impossible to lose one's heart to a machine obviously haven't used Sony's DSC-F1. Other PCW reviewers have fallen prey to its charms, so we've nothing to be bashful about. It has a maximum resolution of 640 x 480 pixels and comes with a 4Mb memory capacity. It looks and handles like a dream, but is it really that superior? Well, yes.

This camera can be linked up to a TV to show photos, and if your PC has IrDA infra-red you can transmit the photos direct to a notebook. The lens that rotates through 180 degrees is perfect for that vain shot of yourself, or for taking low-angled photos. There are Auto and Manual settings, the former taking care of everything, the latter letting you pick exposure, flash brightness, and a shutter speed that goes from 1/7.5 of a second for dark conditions, to 1/1000 for "action" photos. For "sporty" stuff there is an option to take nine successive photos at 1/15 second intervals. The DSC-F1 can play back photos, pick out portions of the image, and zoom in and enlarge them.

We tried to be revisionist, honest, but the DSC-F1 was just too much fun.



Personal Computer World
Editors Choice

PCW Details

Price £546 (£464.68 ex VAT)
Contact Sony 0990 424424
www.sony.com

Good Points How long have you got?

Bad Points No viewfinder. Still rather expensive.

Conclusion It doesn't get much better than this.

★★★★★

Sony Mavica

The outstanding feature of this new model from Sony is that it takes floppy disks. While this means a bulkier camera, it also means no driver software, no leads and no downloading process. A dozen disks will set you back a fraction of the cost of a 2 or 4Mb flash card and are more durable. You open the JPEG files with the Photo Express application. Heaven.

Despite incorporating technology as retro as the floppy disk, Sony's sense of aesthetics hasn't let it down with this piece of kit. The chunky design fits the hand well, and while it's a shame there isn't a viewfinder, the 2.5in LCD provides sharp live images, while the on-screen controls are simple but extensive. The camera is powered by Sony's Info-Lithium battery and there is a timer on the LCD counting down battery life.

The disks can store 20 to 40 images depending on the complexity of the image and take only a few seconds longer than flash cards to write the image, although maximum resolution is no more than 640 x 480. It is in the picture quality, unfortunately, where the Mavica falls down. The Fine images are passable, but the Standard ones look as though they have been taken off a TV.



PCW Details

Price £449.99 (£382.97 ex VAT)
Contact Sony 0990 424424
www.sony.com

Good Points The triumphant return to form with the floppy.

Bad Points Images aren't up to scratch.

Conclusion If Sony can sort the picture quality, it should clean up.

★★★

Vivitar ViviCam 2500

Vivitar, the lens manufacturer, now has a range of digital cameras, starting with the 1000 series and going up to the 3000, at an astonishingly low price of £99. The 2500 sits in the middle and is intended as an entry-level camera aimed at happy-snappers.



It has a true resolution of just 320 x 240 which can be interpolated up to 640 x 480. Although the price is low, just £260, this is still quite a lot here for such a low-resolution camera. There is 2Mb of internal memory which cannot be expanded with memory cards. It has a self-timer, automatic flash and macro mode, and the most useful feature is an LCD to help you set up shots. In its favour is its ease of use: anyone can pick it up and start using it straight away — there is no way you'd be confused by the controls.

The bundled software is a utility called IMS camera. It is very basic but easy to use, and downloading images was painless. As the images produced by the camera are so small, there is probably little you could do to them anyway, so the lack of an Adobe PhotoDeluxe type of package is not so important. Overall, though, this is just another corner that seems to have been cut in order to keep the price down.

PCW Details

Price £259.99 (£221.19 ex VAT)
 Contact Vivitar 01793 526211
www.vivitar.co.uk
 Good Points Easy to use.
 Bad Points Low resolution.
 Conclusion There are better budget models.
 ★★

Vivitar ViviCam 3000

The ViviCam 3000 improves on the 2500 in terms of resolution. It has a maximum resolution of 1,000 x 800 pixels, but at just £350 it's quite low-priced. Pixels aren't



everything, though, and otherwise this camera is fairly low on features. It has an automatic flash, self-timer and macro mode, but this is about the sum of its functionality. There is only 0.5Mb of internal memory and although it does take optional memory cards these add considerably to the cost of the camera (a 2Mb card costs £90 and a 4Mb card £130).

The ViviCam 3000 comes with LivePix, a cheap-and-cheerful photo manipulation package, and PhotoVista Panorama for pasting photos together. The colours it captures are good, with the green coming out green and the blue being a reasonably good approximation of the real colour of the vase. But it was not as good at picking out details like the petals on the flowers and the stringy bits of the pumpkin. Overall, the 3000 is not as good as the higher-resolution cameras we have seen from Kodak, Epson and Canon.

PCW Details

Price £349.99 (£297.86 ex VAT)
 Contact Vivitar 01793 526211
www.vivitar.co.uk
 Good Points Cheap for a high-resolution camera.
 Bad Points Have to buy additional memory. Images not crisp enough.
 Conclusion A good budget buy.
 ★★★

How digital cameras work

In a conventional camera, light-sensitive film captures images and is used to store them after chemical development. In a digital camera, the image capture is performed by a charge-coupled device (CCD) which consists of a grid of light-sensitive elements.

Digital cameras are often described as having lenses with equivalent focal lengths to popular 35mm-camera lenses. In fact, most digital cameras feature lenses with focal lengths around 8mm; these provide equivalent coverage to a standard film camera because the imaging CCDs are so much smaller than a frame of 35mm film.

Each element converts light into a voltage proportional to the brightness, which is later converted into digital information which the PC can understand: the brighter the light, the higher the voltage, resulting in a brighter computer pixel. The more elements, the higher the resolution, and the greater the detail that can be captured. This grid of elements produces a colour bitmap file of the same resolution: typically, 640 x 480 pixels.

Digital cameras use flash memory to store their images. Flash memory is non-volatile, which means it can retain the image information regardless of battery condition. The greater the memory or compression used, the more images can be stored at any time. Higher-resolution or less compressed images occupy more memory. A camera may have fixed internal memory or offer the

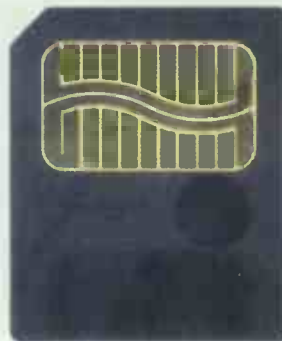
flexibility of using removable memory cards.

Some digital cameras feature small, colour LCD screens for image composition, allowing you to view your images immediately and delete those which aren't required, thereby freeing up memory. The screens are impressive and confirm the immediacy of the format, but can be difficult to use in direct sunlight and drain batteries at a rate of knots. Some cameras offer both conventional optical viewfinders and LCD screens.

Once your images are taken you'll want to use them on your PC. Almost all digital cameras offer serial-cable links, transferring images in around 30 seconds. Memory cards can be removed and slotted into a suitable PC interface for much faster transfer. Some memory cards conform to the credit-card sized PC Card (PCMCIA) format which can slot straight into most notebook PCs. Adapters are often available, allowing you to use the smaller (and more common) memory cards in conventional PC Card slots. Many recent digital cameras also feature a composite video output for display on a TV or VCR.

The images themselves may be in a

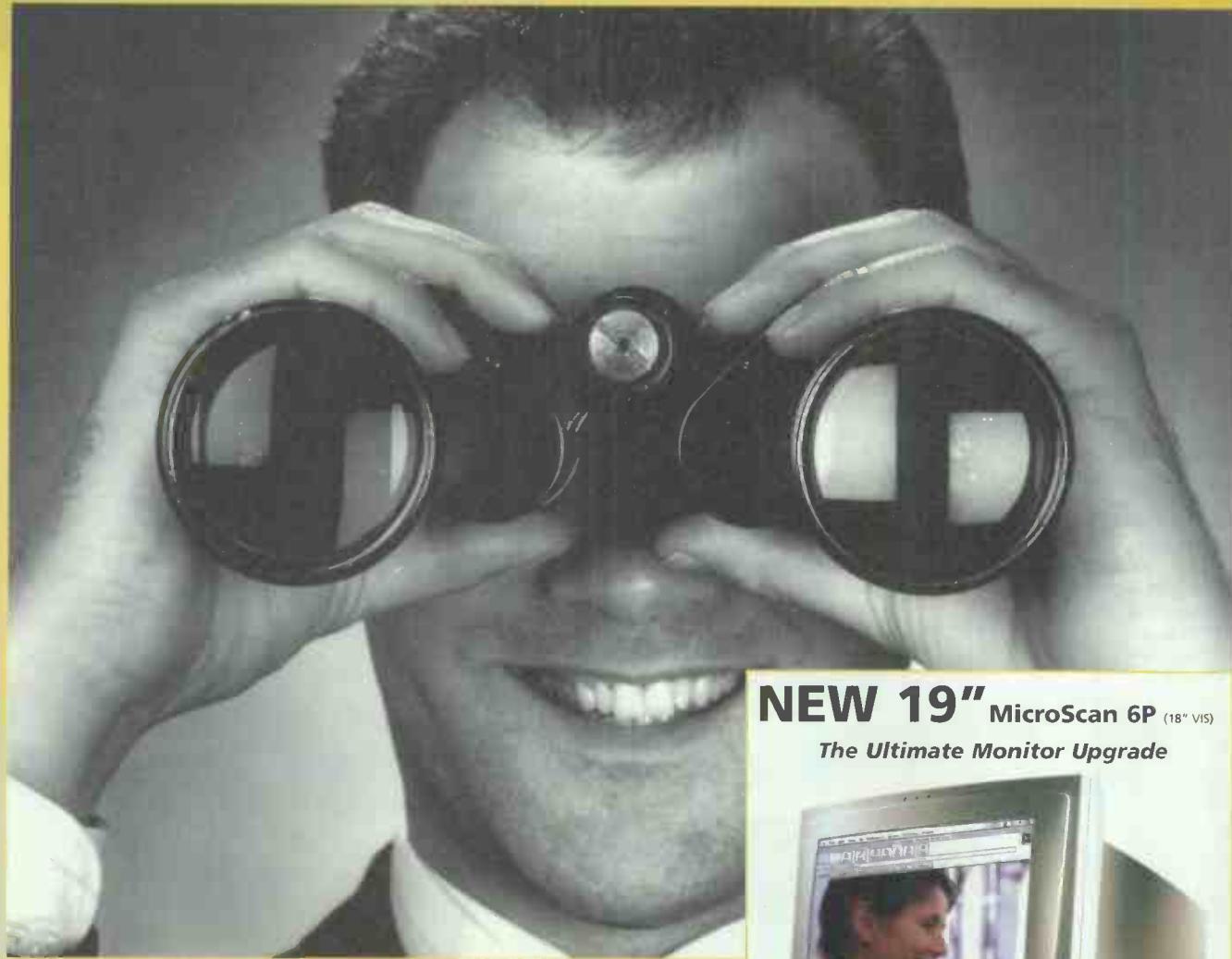
Thanks for the memory



Pictured here in actual size is a 2Mb mini flash memory card. These removable cards are proving increasingly popular in digital cameras, and put the earlier credit-card sized (and much thicker) PC Cards to shame

proprietary format, requiring the manufacturer's supplied software for access, but most digital cameras compress and save their images in the industry-standard JPEG format, readable on almost every graphics package. JPEG offers variable compression levels where the higher the compression used, the smaller the file size but the poorer the quality. Most cameras offer two or three quality settings. A 640 x 480 pixel colour image measures under 1Mb uncompressed, which JPEG will be able to squeeze down around 20 times while retaining good quality.

Gordon Laing



take a closer look

The 19" MicroScan 6P is now widely available from leading resellers in the UK at an incredible street price under £600 (RRP £709.00). Take a closer look at the praise the 6P has already received from PCW, PC Plus and PC Magazine, who were the first to thoroughly test the new monitor before its launch. It is clear! ADI monitors deliver an excellent range of high performance features whilst ensuring superb value.

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Personal Computer World "Focus sharply right into the corners of the screen. The uniformity of colour over the whole screen is excellent, as were the colours themselves, which were bright and vibrant...an excellent monitor for little more than the price of a 17in" (Oct 97)

PC MAGAZINE "With it's excellent picture quality, built in USB hub and microphone, the MicroScan 6P offers great value for money" (Oct 97)

PC Plus "The screen itself looks huge after you've been using 15-inch or even 17-inch units...with the MicroScan 6P coming in at around £700 (Inc VAT), within a few pounds of some manufacturers 17 inch displays. If you're spending this much money, this is a good buy" (Oct 97)



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ADI 17X

Best of the rest

If none of the digital cameras we have reviewed seem to suit either your pocket or your needs, there are plenty more out there to try. Starting at the budget end of the market there are quite a few cameras for under £300. The cheapest of all is the Vivitar 1000. While the two Vivitar models we have reviewed in this group test are fairly inexpensive, the 1000 comes in at a staggering £99 (inc VAT). As you might imagine, it's very basic; but with a resolution of just 480 x 320 pixels, it could be a good place to start. Slightly more expensive are the Kodak DC-20, at a street price of around £153, and the Casio QV-11, which has just replaced the QV-10a, going for around £140 on the street. The DC-20 is extremely basic, with just a viewfinder, no LCD, no macro facility and no flash, but you do have a choice of resolution: either 320 x 240 or 493 x 373 pixels. The Casio QV-11 has a colour LCD screen and a lens which rotates through 180 degrees, although the resolution is a lowly 320 x 240 pixels.

However, by the time you read this, you should be able to get your hands on another new entry-level product from Casio, the QV-70. Gone is the swivel lens, and in comes a viewfinder to complement the LCD screen, letting you save the batteries. It has an internal memory of 2Mb on which you will be able to store 96 images at its standard resolution of 480 x 240 pixels. It will also come with Adobe PhotoDeluxe for image manipulation.

At the middle of the range there is due to be another new Casio release, the QV-700.

This camera ups the ante by offering

screen, this time enlarged to 2.5in. It has clever features such as continuous shooting, which lets you take an image every second, and it lets you take four frames at 0.05-second Intervals (useful for getting the right shot of a rowdy bunch of friends).

There's also the Fuji DS-7, which is similar to the DX-7 but without as many imaging options, and the Sanyo DigiCam, which doubtless you have seen advertised on TV. The DigiCam has a maximum resolution of 640 x 480 pixels, a viewfinder and an LCD screen, and can capture sequences of nine images at 0.1sec intervals, which it then plays back as an AVI file. It can record sound, too.

You could also look at the Panasonic CoolShot, a very small camera with a

resolution of 640 x 480 pixels and an optional LCD screen which fixes on the side. It should set you back about £293 on the street. The Nikon



The Agfa ePhoto 1280 will have a maximum resolution of 1,280 x 960

pixels and will cost around £645. It will also have a 3X zoom and let you adjust the aperture and shutter speed. The Olympus C-1400L will cost more, with an RRP of £1,300. With that, however, you get a digital SLR with a 3X zoom, and a top resolution of 1,280 x 1,024 pixels. You are supplied with two 4Mb flash memory cards which can be put into a disk and so into a standard floppy drive for fast and convenient downloading.

Adele Dyer



Coolpix 100, meanwhile, has the advantage of having a PC Card built into it, so images can be downloaded directly to a notebook without having to use a slow serial connection. One more mid-range option is the Sony Mavica DC-7, which is essentially the same camera as the DC-5 but with a zoom lens.

If you want a camera with a higher than average resolution, there are several options. The Canon

PowerShot 600 has been around for a while, and with resolutions ranging from 320 x 240 to a maximum 832 x 608 pixels, three levels of compression and a PC Card slot, it still holds its own against more recent cameras. Meanwhile, Kodak has just released a new top-of-the-range budget camera with a top resolution of 1,160 x 864 pixels and a 2X-zoom lens. The most remarkable thing about this camera, however, is the excellent quality of the images it produces (see "First Impressions", PCW December 97).

Agfa and Olympus have both announced new products aimed at those who need a bit more from their digital camera.



Left The Agfa

ePhoto 307, showing its age but soon to be joined by the ePhoto 1280 with a max resolution of 1,280 x 960 pixels and a price of around £549 (ex VAT)

Above left The Canon PowerShot 600, one of the best higher-end cameras with a max resolution of 832 x 608 pixels, stores images directly on to a PC Card **Top right** The Nikon E2N is designed for the pro and has a price tag to match. It takes standard 35mm camera lenses **Above** The Kodak DC-20 is one of the cheapest digital cameras but it does a decent job



features never seen before on a budget Casio. It has a standard resolution of 640 x 480 pixels and it still has the trademark Casio 180-degree swivel lens and colour LCD

AUTO FOCUS f=5mm 1:2.8/5.6/11

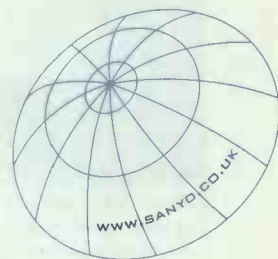
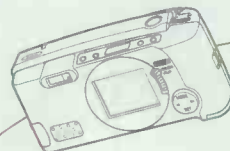


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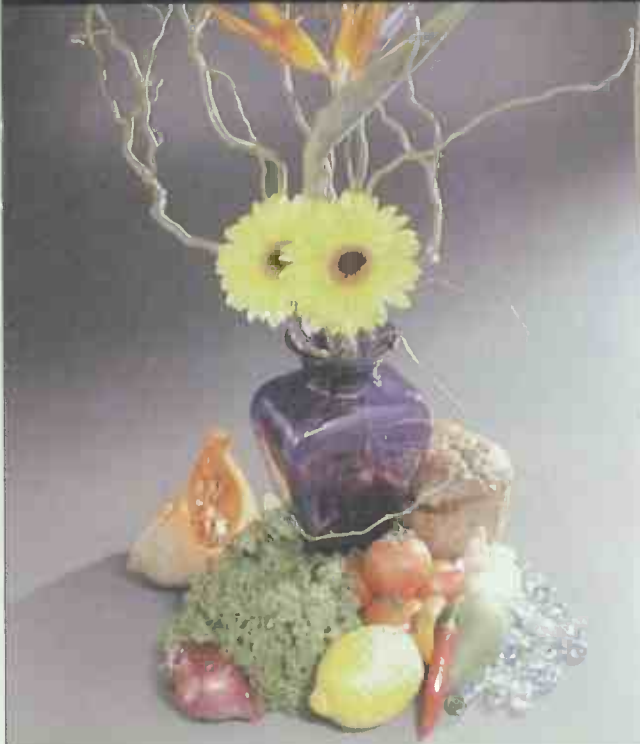
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Canon PowerShot 350



This photo is taken using the PowerShot's resolution of 640 x 480 pixels; up to 47 such images can be squeezed in the memory. At £499 it's not one of the cheapest cameras we looked at, but the picture quality ranks it among the best.

Epson PhotoPC 600



At around £780 the PhotoPC is one of the more expensive cameras in the test, but it does have one of the highest resolutions of any of the cameras we saw. With a top setting of 1,024 x 768 pixels (seen here) it can store up to 16 photos in its 4Mb internal memory.

Fuji DX-7



The DS-7 is one of the older cameras on the market, but still takes a better picture at 640 x 480 pixels than some of the newer contenders. It has both standard and economy settings, and was one of the first cameras to take mini flash memory cards.

Kodak DC-120



There are over a million pixels on offer with the DC-120, boasting a 1,280 x 960 pixel resolution unmatched by similarly-priced cameras. At £599 it's not cheap, but few other models offer the same level of definition and quality; Kodak's newer DC-210 boasts the same.

Nikon E2N



Nikon's E2N SLR digital camera can use any lens from its industry-standard 35mm range. The 1,280 x 1,000 pixel resolution, Nikon's pedigree and the E2N's price tag should result in excellent picture quality, but we were disappointed. You're paying more for flexibility.

Vivitar ViviCam 2500



A simple camera, the 2500 is aimed at entry-level or online users with its resolution of only 320 x 240 pixels. It is possible to double this number, but the image here is at 320 x 240. At only £259.99 (inc VAT), the 2500 is one of the cheapest models worth a look.

Editor's Choice

A year ago, the winner in our digital camera group test was the Kodak DC-50. Kodak's camera has since been overtaken by the competition, which is not surprising when you consider that it is now two years old. The DC-50, with its zoom lens, was favoured because it was an example of a digital camera being able to replicate the best features of a conventional camera.

The cameras that have won the prizes this year are examples of the potential of digital photography. They not only take excellent-quality photos, but allow the user a startling level of image manipulation in the cameras themselves, before the images are even downloaded into a PC. It is now possible to switch between colour or black-and-white photos, record the photos onto floppies, take multiple shots in just over a second, detach lenses from the camera to get whatever angle you like, or add notes and comments to each shot as it is taken. We haven't seen a single camera that does *all* of that yet, but the best ones we have looked at are leading the way in the photographic revolution.

Before we begin handing out the gongs, an honourable mention should go to the Nikon Coolpix 300. The Coolpix is an adventurous attempt to change the way we use digital cameras, and if it wasn't such a pain to integrate with the PC it would have scooped one of our Highly Commended

awards. Similar mention should go to Sony's Mavica, for rehabilitating the floppy disk. It too would have picked up a gong had it not fallen down on image quality. Look out for the Mavica MVC-FD7, which is basically the same camera but with a 10X optical zoom. For sheer gadgetry the Minolta Dimage V also deserves a mention, for its spy-camera detachable lens.

The first of our **Highly Commended** awards goes to the **Epson PhotoPC**, an excellent camera that bristles with ideas. With an option for black-and-white, a zoom lens and a top resolution of 1,024 x 768, it showed itself to be a solid all-rounder. It even downloads straight into an inkjet printer. The second **Highly Commended** rosette goes to the **Sanyo DigiCam**. It is an excellently-designed camera that performs well, and even though it has fewer options than the Coolpix 300, it doesn't overreach itself. It is simplicity itself to use, and the multishot and sound functions make it extremely versatile.

Which leads us onto the **Editor's Choice**. The top award goes to the **Sony DSC-F1**.








Beautiful to use and to look at, it manages the enviable task of offering a wide range of functions while remaining easy to use.

Just as importantly, the DSC-F1's appearance and gadgetry makes people who wouldn't usually look twice at a camera want to start taking photographs with it, which can only be a good thing.



Personal Computer World
Highly Recommended

Table of Features

							
Manufacturer	Canon	Casio	Epson	Fuji	Fuji	Kodak	Kodak
Model	PowerShot 350	QV-200	PhotoPC 600	DX7	DX-5	DC-50	DC-120
Price (inc VAT) RRP	£586.33	£399.99	£781.38	£399.99	£399.99	£349.99	£599
Price (ex VAT) RRP	£499	£340.42	£665	£340.42	£340.42	£297.86	£509.79
Tel no	0121 680 8062	0181 450 9131	01442 261 144	0171 586 1477	0171 586 5900	0800 281487	0800 281487
URL	www.canon.co.uk	www.casio.co.uk	www.epson.co.uk	www.fujifilm.co.uk	www.fujifilm.co.uk	www.kodak.com	www.kodak.com
Internal memory	None	4Mb	4Mb	None	2 or 4Mb	1Mb	2Mb
LCD	●	●	●	●	●	●	●
Viewfinder	○	○	●	●	○	●	●
Flash	●	○	●	●	●	●	●
Max resolution	640 x 480	640x480	1,024 x 768	640 x 480	640 x 480	756 x 504	1,280 x 960
No. of images stored	11	64	15	30	30	7	7
Other resolutions	n/a	320 x 240	1,024 x 384 640 x 480	N/A	N/A	N/A	N/A
No. of images stored	47	192	32 & 48	60	60	N/A	N/A
Removable memory	2Mb included	○	●	2Mb included	●	●	●
Native file format	JPEG	JPEG	JPEG	JPEG	JPEG	KDC	KDC
Focal length of lens	42mm	38mm	36mm	38mm	38mm	37-111mm	38-114mm
Audio recording	○	○	○	○	○	○	○
Batteries	4 x AA	4 x AA	4 x AA	4 x AA	4 x AA	4 x AA	4 x AA
Rechargeable battery	●	○	○	●	○	○	○
Power adaptor	○	●	○	○	○	○	○
Connection to PC	●	●	●	●	●	●	●
Connection interface	Serial	Serial	Serial/Mac	Serial/Mac/PC Card	Serial/Mac/PC	Serial/Mac/PC	Serial/Mac/PC
Video out	○	●	●	●	●	○	○
Bundled software	PhotoImpact 3.0SE Stitch, Time Tunnel	QV-Link	PhotoEnhancer	PhotoEnhancer	PhotoEnhancer	PhotoEnhancer	PhotoEnhancer

Personal Computer World
Editors Choice

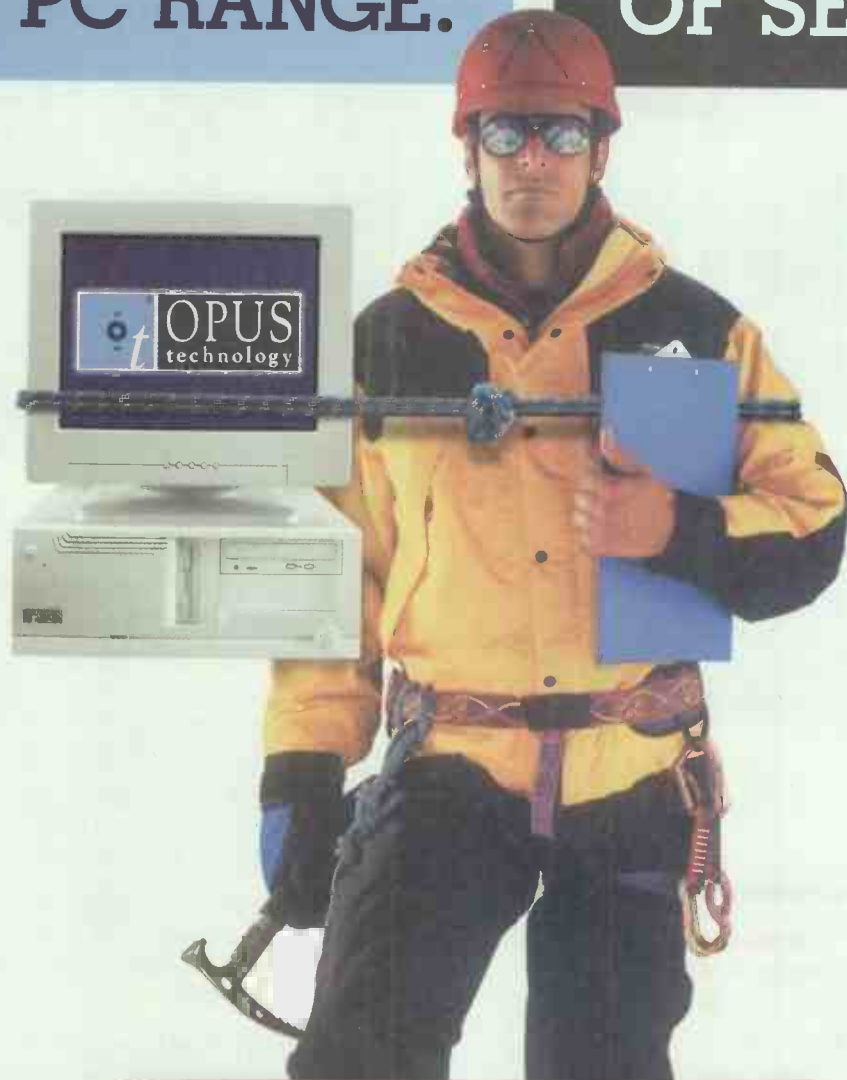
Table of Features

							
Manufacturer	Minolta	Nikon	Sanyo	Sony	Sony	Vivitar	Vivitar
Model	Dimage V	Coolpix 300	Digicam	MVC-FD5	DSC-F1	ViviCam 3000	ViviCam 2500
Price (inc VAT) RRP	£599.99	£749.65	£528.74	£449.99	£546	£349.99	£259
Price (ex VAT) RRP	£510.63	£638	£449.99	£382.97	£464.68	£297.86	£220.43
Tel no	0171 586 1477	0800 230 222	01923 477295	0990 424424	0990 424424	01793 526211	01793 526211
URL	www.minolta.co.uk	www.kit.co.jp/nikon	www.sanyo.co.uk	www.sony.com	www.sony.com	www.vivitar.co.uk	www.vivitar.co.uk
Internal memory	None	4Mb	4Mb	1.44Mb floppy	4Mb	512K	2Mb
LCD	●	●	●	●	●	○	●
Viewfinder	○	●	○	○	○	●	○
Flash	●	●	●	●	●	●	●
Max resolution	640 x 480	640 x 480	640 x 480	640 x 480	640 x 480	1,000 x 800	320 x 240
No. of images stored	16	66	60	20	108	10	64
Other resolutions	N/A	N/A	320 x 240	N/A	N/A	480 x 320	N/A
No. of images stored	40	132	120	40	30 to 108	20	n/a
Removable memory	2Mb included, ●	○	○	Floppy	○	●	○
Native file format	JPEG	JPEG	JPEG	JPEG	JPEG	Wavelet	JPEG
Focal length of lens	34-92mm	45mm	36mm	38mm	35mm	50mm	52mm
Audio recording	○	●	●	○	○	●	○
Batteries	4 x AA	4 x AA	4 x AA	Lithium	Lithium Ion	6 x AA	4 x AA
Rechargeable battery	○	○	○	●	●	○	○
Power adaptor	●	○	○	●	●	○	●
Connection to PC	●	●	●	○	●	●	●
Connection interface	Serial/Mac/PC Card	Serial/SCSI	Serial/Mac	N/A	Serial	Serial	Serial
Video out	No	●	●	No	● NTSC	No	● NTSC
Bundled software	PhotoDeluxe	Nikon View	MGI Photosuite	Photo Express	PhotoStudio	LivePix	IMS Camera

Key: ● Yes ○ No

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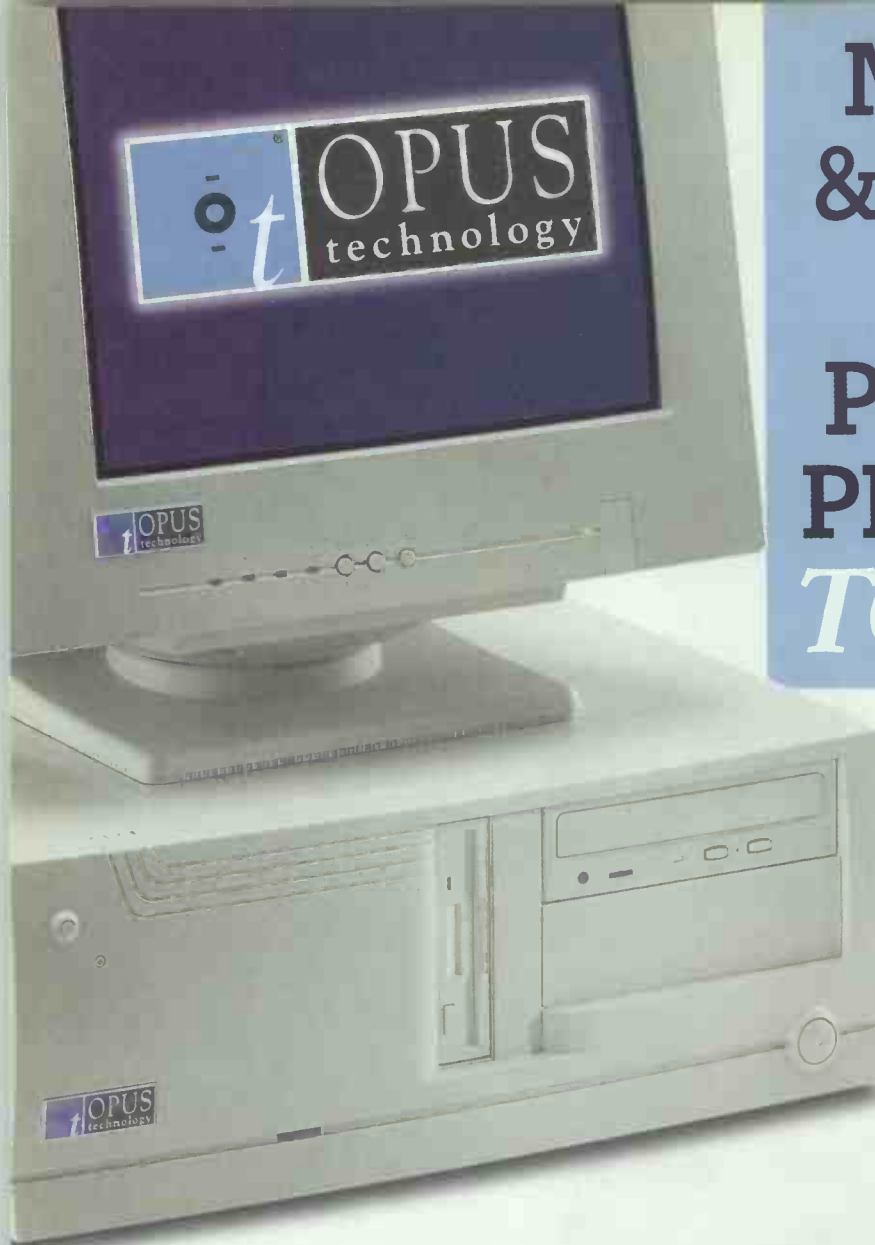
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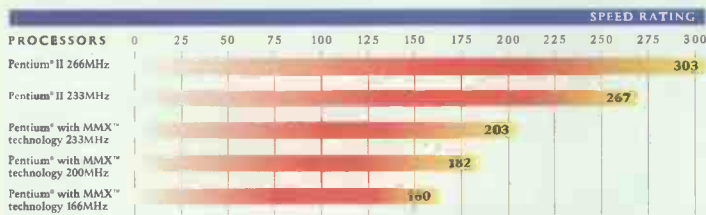
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iCOMP® Index 2.0



iCOMP® Index 2.0 reflects 32-bit applications and benchmarks. It combines 5 benchmarks: CPUmark32™, Norton SI-32™, SPECint_base95™, SPECfp_base95™ and Intel Media Benchmark. Each processor's rating is calculated on a desktop system at the time the processor is introduced. Performance on mobile systems will vary, and other differences in hardware and software configuration, including MMX™ technology enabled software, will also affect actual performance. Ratings for processors introduced before iCOMP Index 2.0, were calculated upon version 2.0's release. Ratings for Pentium® II processors were calculated with 512K L2 cache. For more information about iCOMP Index 2.0, including a description of the systems used to calculate ratings, visit <http://www.intel.com> © 1997 Intel Corporation.

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Efficiency drive

The so-called information superhighway is becoming a B-road, handling a level of demand for which it was never designed. Now, the race is on to devise a new technology to drive the internet into the next century. Toby Howard reports.

Downloading software from the web the other day, it was about the time that America was waking up and my browser was beginning to slumber. Returning to my PC after a 20-minute tea break I found the following message: "1 byte read".

So much for the information superhighway. Despite its growing reputation as the "World Wide Wait", the internet remains poised to play a central role in our futures. Soon, our workplaces, homes, domestic appliances and perhaps even our bodies will be linked into a global hypernet. It's generally accepted that internet traffic is growing by over 400 percent every year and the race is on to upgrade it to cope with the demands of the next century, before it grinds to a halt.

It's over a year since Bill Clinton announced the Next Generation Internet (NGI) programme <www.ngi.gov>, funded to the tune of \$300m by the US government over three years, with commercial backing. NGI is an ambitious project, designed to take the internet into the next century with room for expansion. The technology of the internet was designed to cope with thousands and is now straining under the burden of serving millions, with demand for bulk data transfer at levels unimagined by the original designers. Using a mix of an upgraded physical network and new software, NGI aims to connect 100 sites at speeds 100 times faster, and to link a few "prestige" sites at more than 1,000 times today's speed.

A key component of NGI is a replacement for the mechanism by which data is moved around the internet. Apart from utilising physically faster network cabling, the software used to marshal the data is in need of an overhaul. As the internet grows, the current protocols for information exchange are finding it hard to keep up.

The internet is a collection of networks, only a few of which actually have any direct physical connection with one another. If different types of computer connected to various types of network are to have any chance of communicating, there must be some agreed standards. In internet terms there are two protocols which work together to achieve this and they're collectively known as TCP/IP. TCP takes the data that one computer wishes to transmit to another and splits it up into small, manageable chunks. It arranges to send each chunk to the destination, making sure the chunks arrive in the right order for correct reassembly and that any which go missing are sent again. The IP handles the business of ensuring that an individual chunk is sent from its source to its destination.



"The internet was designed to cope with thousands, and is now straining under the burden of serving millions"

As demands on the net increase, the current version of IP is not going to be up to the job for very much longer; for one thing, it's running out of addresses. Currently, internet addresses are 32 bits (four bytes) long, and although this allows for millions of addresses, it's estimated that these will all have been exhausted by around 2005. It's becoming more likely that internet protocols will be used for controlling electronic gadgetry in the workplace and at home. Every item, from basketball-court lighting to your garage door, will need its own internet address.

This and other shortcomings in IP are being addressed by a replacement called IPv6. This offers 10³⁹ unique addresses. It provides built-in encryption at a low level, preventing snoopers from eavesdropping on sensitive data, and a range of technical improvements that will make efficient use of the existing network infrastructure. The ideas in IPv6 are now being tested in a collaborative project covering North America, Europe and Japan, known as the "6bone" network <www.6bone.net>.

With America leading the way, and a separate university "Internet 2" initiative <www.internet2.edu>, where does that leave Europe? There's an EC-funded venture called "Trans European Network interconnect at 34Mbps", or Ten-34, operated by Dante, a non-profit

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company based in Cambridge <www.dante.com>. The scale and goals of Ten-34 are more modest than its US counterparts, but include plans for data rates of up to 155Mbps — about a hundred times faster than today's internet. That's more than enough to support high-resolution video-conferencing, for instance.

What will people do with the speed and power of the streamlined internet? One of the goals of the US initiative is to figure this out and come up with "revolutionary applications". Already on the agenda is the establishment

of "virtual collaboratories": shared electronic spaces where scientists can co-operate on huge research projects which would be impossible for a single physical institution to host. As well as nationwide crisis and disaster management, digital libraries and tele-medicine, the days of numb-bummed students sitting in dusty lecture theatres may finally be over, with the advent of an internet "Televersity".

Researchers are working to modernise the net, but until the technology is in place, all we can do is get up early and hit the web before America stirs. ■

The thin **blue** line



Tim Frost looks into the future of optical storage. Increased capacity made possible by the blue laser beam could greatly expand the silver disc market.

The race is now on to perfect the blue laser, in a form which can be used inside an optical disc layer. They have a smaller wavelength, so the narrower beam can read smaller dots. But blue lasers are proving a difficult nut to crack.

They already exist for big systems and it is likely

Until recently, the optical disc was a niche product used by specialists in the print world and in video and sound recording applications. The returns were small, so manufacturers were not able to justify the cost of research to extend the boundaries of optical storage. But the impact of CD-R changed all that.

Writing files or recording audio onto a gold disc, rather than on tape or hard disk, is becoming a mass market activity. What makes all the difference is the ability of manufacturers to make discs and drives with much closer tolerances than was possible in the early eighties. Thus, the data pits can be made smaller, be put closer together and need less error correction. But the only real development has been the introduction of a new laser for the player which produces a marginally smaller wavelength of red light: 635nm instead of CD's 650nm.

The increase in capacity, though, has been relatively small. DVD's developers are working on plans to increase optical storage capacity over the next ten years. The only way to do that is to rethink the type of laser that has to be used to create and read the discs.

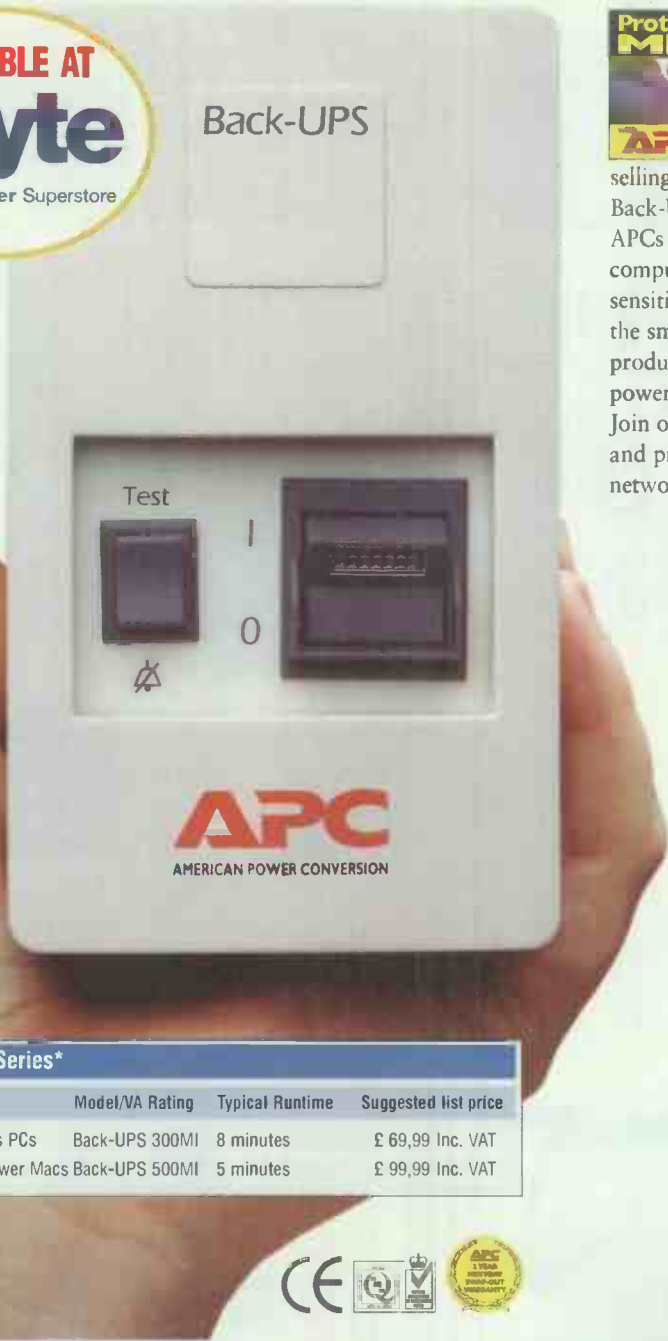
The laser is critical to development because the wavelength of the drive's laser light limits the size of the pit that can be read from the disc. Put a future-generation disc, with its pit sizes of 0.1 micrometre, in today's CD-ROM drives and the beam from its laser would seem more like a floodlight covering several tracks instead of a spotlight focusing on a single dot.

that they will be used extensively in the near future for making the masters for DVD discs. But there we are looking at special laser-beam recorders the size of a wardrobe, which cost thousands and need a super-clean, vibration-free environment in which to work properly. The challenge now is to make the blue laser in a form that can fit into a PC-ROM drive and be affordable.

Solid-state blue lasers work in the laboratory but not for long. The amount of power the laser needs to produce is a lot for a device hardly bigger than a match-head. Getting the laser to fire out of one end while not simultaneously punching a hole out of its rear end has been creating headaches for the developers. In the past year, techniques have moved forward and the big manufacturers are now predicting that "beyond-DVD" discs and drives should be a reality at the start of the next century. The current target is to use blue lasers for discs which contain 15Gb per layer. Using the current DVD type of disc design, that could automatically translate into a double-sided 30Gb disc, or a dual-layer disc that could store 25Gb on a single side.

From a pure PC datafile point of view, this is an unnecessarily large capacity when most of us are producing documents that can fit onto a single floppy. The main opportunity is the ability to store multimedia, video and audio. Even though the desktop PC-based mass storage market is big, moving optical disc into the video recorder/player market would create a massive industry for the 5in silver disc. ■

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PC TOWERCENTRE 900

Choice of 3 sizes: 900, 1050, and 1200 widths, each in 4 finishes

At last! A purpose-built workstation for your midi or full tower PC, in a choice of three sizes and four finishes.

Your tower (up to 635mm high) is safely housed and easily accessible in its own compartment which fits either side.

The keyboard/mouse shelf on smooth roller runners ensures ample knee-room and a comfortable keying posture. For easy access the printer shelf is also on roller runners, and there is a spacious stationery shelf below.

You can even add robust folding extensions, a sliding mouse board, or an overself for manuals/speakers to tailor your workstation precisely to your needs. There is thick (3mm) rounded safety edging on the full 18mm thick worksurfaces to eliminate painful sharp corners, plus braked twin-wheel castors as standard.

And the icing on the cake is that by buying direct you can cut out the reseller's mark-up and have one of these superb workstations for as little as £135 + VAT!

- Spacious workstation gives room to spread out
- Compartment for midi or full tower fits either side
- Keyboard shelf on roller runners gives ample leg room
- Printer shelf on roller runner for easy access
- Spacious stationery shelf
- Full range of accessories available
- Choice of four finishes

PC TOWERCENTRE 1050

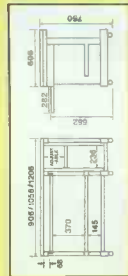
Convenient 42" width gives extra workspace, plus larger keyboard, printer and stationery shelves.

A spacious 48" wide worktop, for people who really like to spread out!

Tower Module fits either side

Choice of four finishes: Soft Grey shown.

Model	List Price (ex VAT)	Home Users (ex VAT)	Business Users (ex VAT)
PC TowerCentre 900 T90	£189	£159.63	£135
PC TowerCentre 1050 T105	£205	£166.83	£159
PC TowerCentre 1200 T120	£235	£200.33	£179
Extension XX	£27	£22.33	£19
Mouse Board MB	£19	£16.45	£14
Overself 900 S90	£45	£38.77	£33
Overself 1050 S105	£55	£42.20	£36
Overself 1200 S120	£54	£45.83	£39



How is it that you can buy a quality workstation direct from Budget Workstations for so little?

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PC MIDIMASTER RANGE NEW

Choice of 750 and 900 widths, each in 4 finishes

A compact alternative to the PC TowerCentre if space is at a premium. Choose from two widths in four finishes. Keyboard shelf glides out on smooth roller runners. Tower bay 235mm wide x 598mm high may be positioned either side, and there is a fixed printer shelf below, plus stationery shelf edging and braked twin-wheel castors.

Choice of 30" or 36" widths

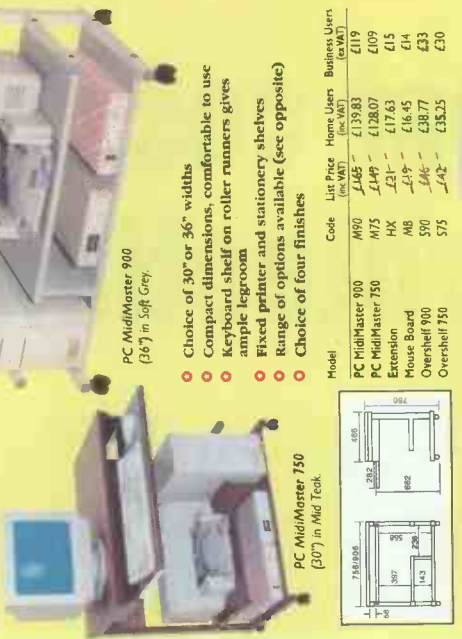
Compact dimensions, comfortable to use

Keyboard shelf on roller runners gives ample legroom

Fixed printer and stationery shelves

Range of options available (see opposite)

Choice of four finishes



PC MidMaster 900 (36") in Soft Grey.

PC MidMaster 750 (30") in Mid Teak.

Model	List Price (ex VAT)	Home Users (ex VAT)	Business Users (ex VAT)
PC MidMaster 900 M90	£145	£119.83	£119
PC MidMaster 750 M75	£149	£120.07	£109
Extension EX	£31	£17.63	£14
Mouse Board MB	£19	£16.45	£14
Overself 900 S90	£45	£38.77	£33
Overself 750 S75	£42	£35.25	£30

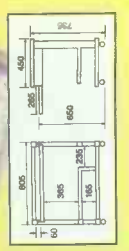
PC MIDIMATE

Economical and compact Midi-tower workstation. Choice of 4 finishes

The economy workstation that doesn't skimp on quality Robust and practical, the PC MidMate offers an unbeatable combination of quality and value. Tower bay 235mm wide x 548mm high fits either side. Available in a choice of four finishes, all with rounded safety edging and braked twin wheel castors.

Roomy 32" wide top Pull out keyboard shelf. Tower bay fits either side. Choice of four finishes.

Model	List Price (ex VAT)	Home Users (ex VAT)	Business Users (ex VAT)
PC MidMate PMM	£137	£113.18	£105



Let me pay £137 SPECIAL PRICE for SPECIAL USERS only. £113.18 ex VAT. £105 ex VAT.

CHOICE OF 4 FINISHES for all workstations

- Dark Mahogany
- Mid Teak
- Light Oak
- Soft Grey

Colour reproduction is not exact

Options

MOUSE BOARD This robust slide away mouse board can be fitted to either side of the keyboard shelf on any of our workstations.

FOLDING EXTENSION Gain extra work space with a folding extension. Extends width by 300mm (25mm when folded). Fits either side of main worktop and can be raised or lowered in seconds.

OVER SHELF Make use of the dead space above your computer to ensure manuals etc. are readily accessible. In widths to suit all workstations. 735mm high x 256mm deep, with 50mm clear below shelf.

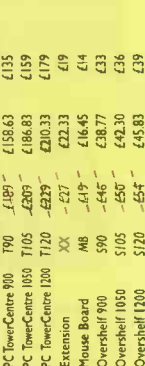
Options will match the colour of your workstation

Mouse board fits left or right (optional extra)



SAMEDAY DESPATCH ON ALL PRODUCTS (subject to order status)

PC TowerCentre 900 (36") in Dark Mahogany. Shown with optional mouse board (fits either side).



Amazing prices on Professional Workstations

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HURRY! LIMITED PERIOD

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PC HOLDALL 900
Choice of 3 sizes: 600, 750, and 900 widths, each in 4 finishes

PC MULTIMEDIA CENTRE RANGE
Choice of 3 sizes: 600, 750 and 900 widths, each in 4 finishes

10 Reasons why Budget Workstations are unbeatable for quality and value

- Full British Standards Quality Approval
- No middle man to pay, we buy direct from the manufacturers
- Full 12-month no quibble guarantee of quality
- Free parcel delivery for orders over £100
- Express trade-in facility
- Frames with scratch-resistant epoxy based finish
- Braked castors for stability and mobility
- Extra thick rounded panel edging for safety
- Choice of four colour finishes
- No hassle mail order experience
- Money back guarantee
- Available from stock for delivery to your door

Choose from three sizes in four finishes to create your ideal workstation. Plenty of knee-room and a comfortable keying posture are ensured by the separate keyboard/mouse shelf, which glides neatly away on its smooth roller runners.

The printer shelf (optionally 75mm higher than standard position shown - if requested at time of purchase) is also on roller runners for easy access, and there is a spacious stationary space saving robust folding extensions (306mm wide) and a sliding mouse board can be added either side to tailor your workstation precisely to your needs.

There is thick (3mm) rounded safety edging on the full 18mm thick worksurfaces to eliminate painful sharp corners, and braked twin-wheel castors are standard. Every detail has been designed to save you space, time and hassle.

But the best news of all is that by buying direct you can have a professional quality workstation for as little as £85*^{inc VAT}!

PC HOLDALL 600
Super compact 24" wide to fit in the tightest corner, yet with all the features of the PC Holdall 900. Mouse board recommended.

PC HOLDALL 750
Here is the answer if you haven't quite the space for the PC Holdall 900. Useful worktop and space for mouse on keyboard shelf within compact 30" width.

PC HOLDALL 900
Generous 36" width gives plenty of workspace Compact dimensions, comfortable to use Keyboard shelf on roller runners gives ample leg room Printer shelf on roller runners in a choice of heights Choice of four finishes

PC MULTIMEDIA CENTRE 900
Extra deep worktop gives you room to spread out. Choice of three widths. Sliding keyboard shelf gives ample leg room. Spacious stationary shelf. Range of options available. Choice of four finishes.

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Options

MOUSE BOARD ▶ This robust slide away mouse board can be fitted to either side of the keyboard shelf on any of our workstations.

OVER SHELF ▶ Gain extra work space above your computer to ensure manuals etc. are readily to hand when you need them. In widths to 750mm high x 256mm deep, with 520mm clear below shelf.

FOLDING ▶ Gain extra work space with a folding extension. Extends width by 306mm (25mm when folded). Fits either side of main worktop and can be raised or lowered in seconds.

CHOICE OF FINISHES
for all workstations

Dark Mahogany, Amber Teak, Light Oak, Soft Grey

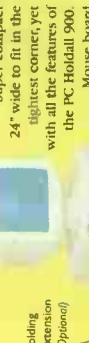
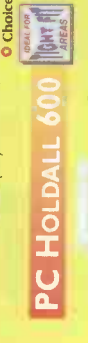
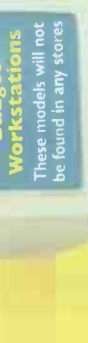
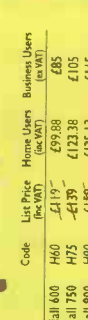
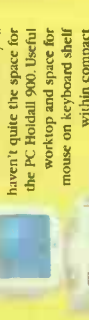
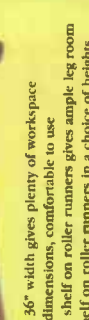
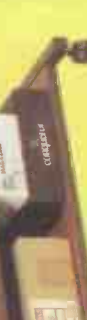
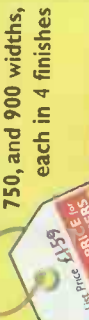
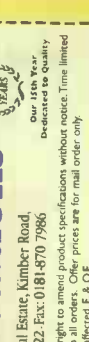
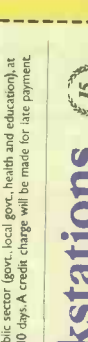
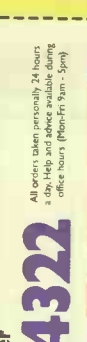
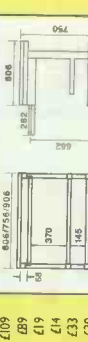
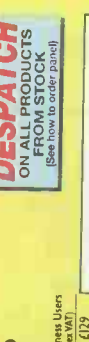
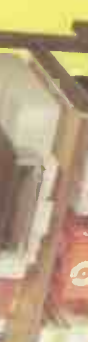
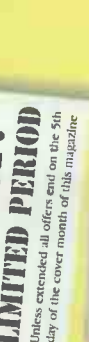
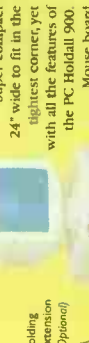
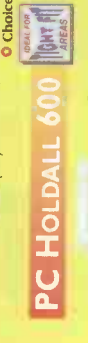
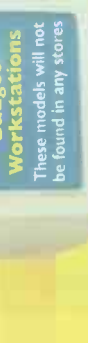
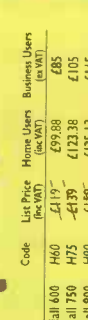
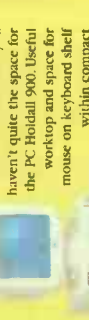
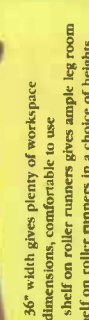
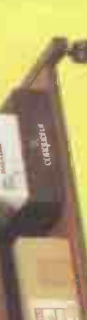
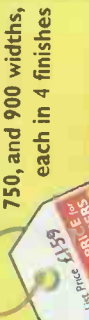
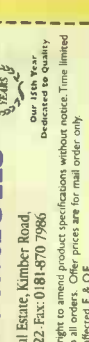
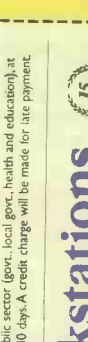
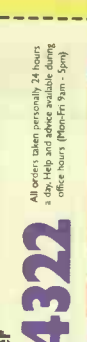
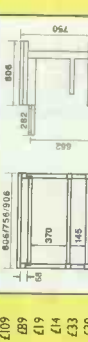
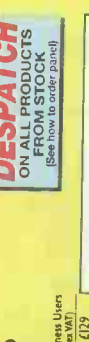
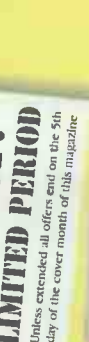
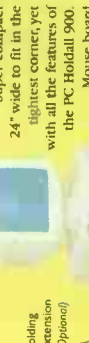
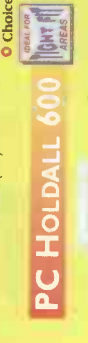
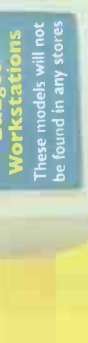
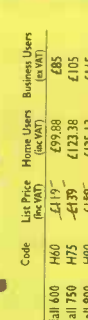
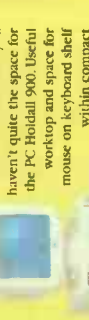
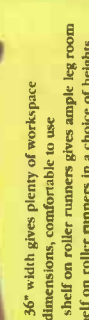
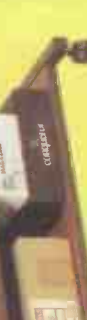
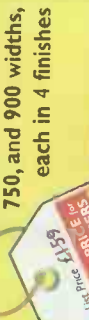
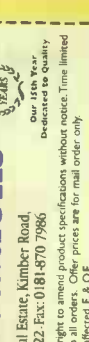
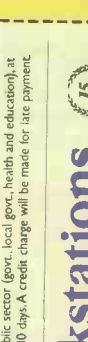
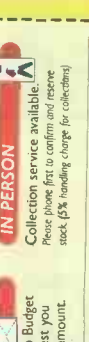
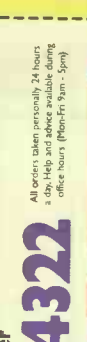
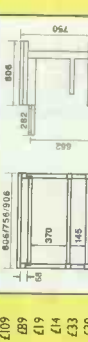
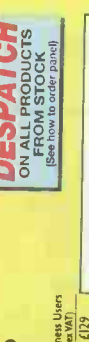
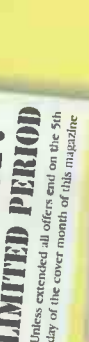
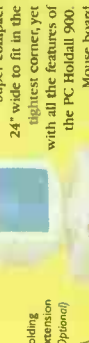
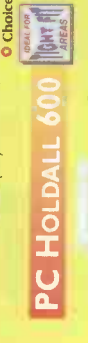
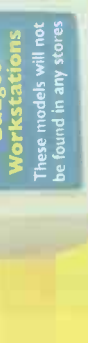
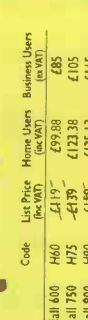
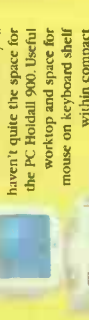
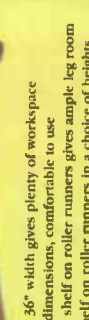
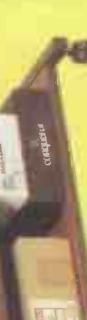
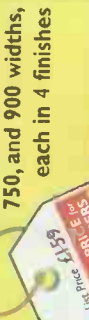
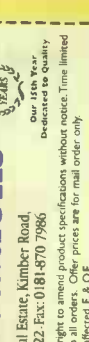
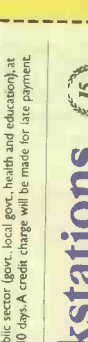
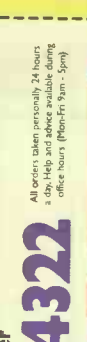
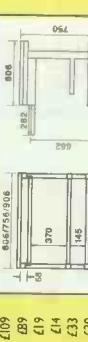
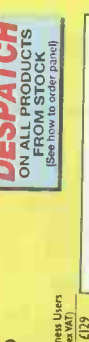
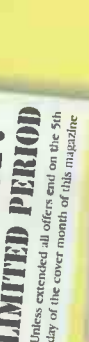
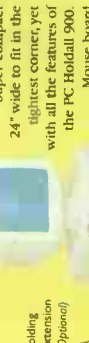
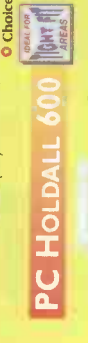
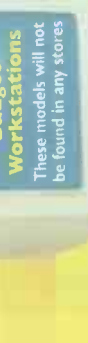
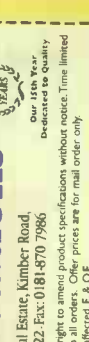
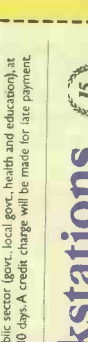
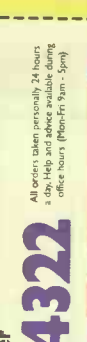
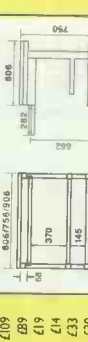
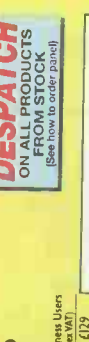
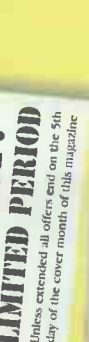
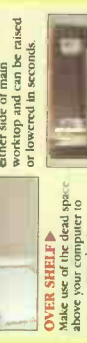
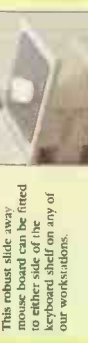
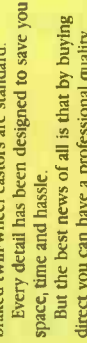
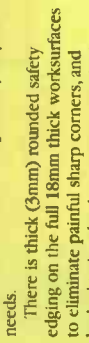
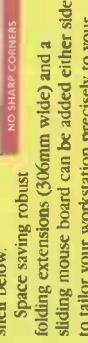
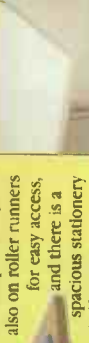
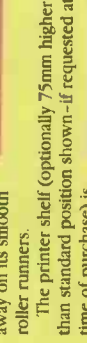
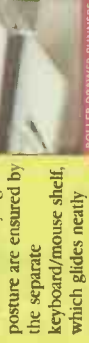
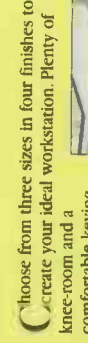
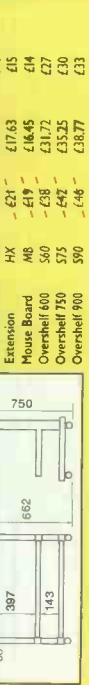
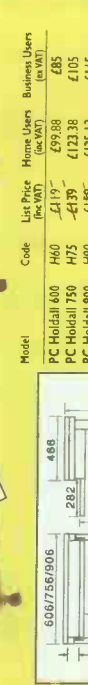
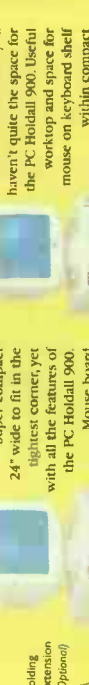
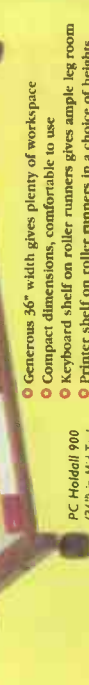
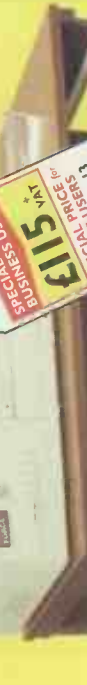
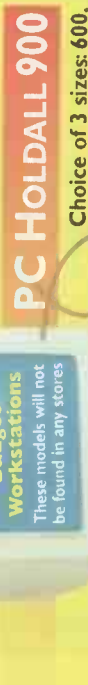
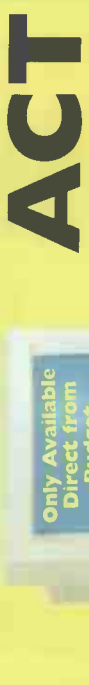
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All submissions should be emailed to the author of the appropriate column or snailmailed to Hands On, Personal Computer World Editorial, VNU House, 32-34 Broadwick Street, London W1A 2HG. Questions and short hints and tips can be faxed on 0171 316 9313.

We are constantly working to improve the contents of Hands On. If you have any suggestions, send them to the Editor at the address above, or email them to pcw@vnu.co.uk.

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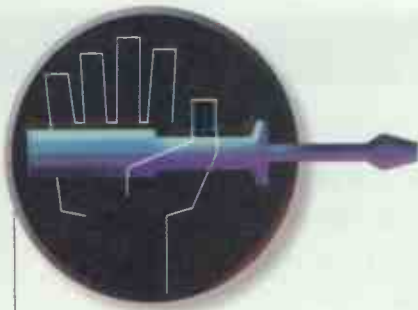
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Dealing with databases

In part II of his Delphi tutorial, Tim Anderson examines the program's abilities as a data management tool and gets you started on building your own database applications.

Delphi is a great all-purpose development tool, but it is particularly strong for database work and can handle anything from a simple address book to a large multi-user system. This workshop explains how Delphi manages data and will get you started with building your own database applications.

A quick-start Delphi database

Try the following example to see how Delphi deals with data.

1. When Delphi is installed, an example Paradox database called DBDEMOS is installed with it. If you run the BDE configuration or administration utility, you should find it listed. DBDEMOS is called an Alias. What that means is that instead of referring to the exact location of the data files in your application, you can use the

Code for the search facility

```
procedure TForm1.Button1Click(Sender: TObject);
var
  sSearchVal: string;
begin
  sSearchVal := InputBox('Search','Enter a company name','');
  Table1.SetKey;
  if sSearchVal <> '' then Table1.FindNearest([sSearchVal]);
end;
```

name DBDEMOS instead. Another advantage is that you can configure the way the BDE accesses this particular database just once. Use of an alias is not compulsory, but it does simplify data access. This example uses DBDEMOS, so it is a good idea to check that it is installed (Fig 1).

2. Start a new Delphi project. Place a

DataSource and a Table component on a form. Select the Table component and set its DatabaseName property to DBDEMOS and its TableName to CUSTOMER.DB.

Now select the DataSource and set its DataSet property to Table1.

3. Place a DBGrid on the form and set its DataSource property to DataSource1.

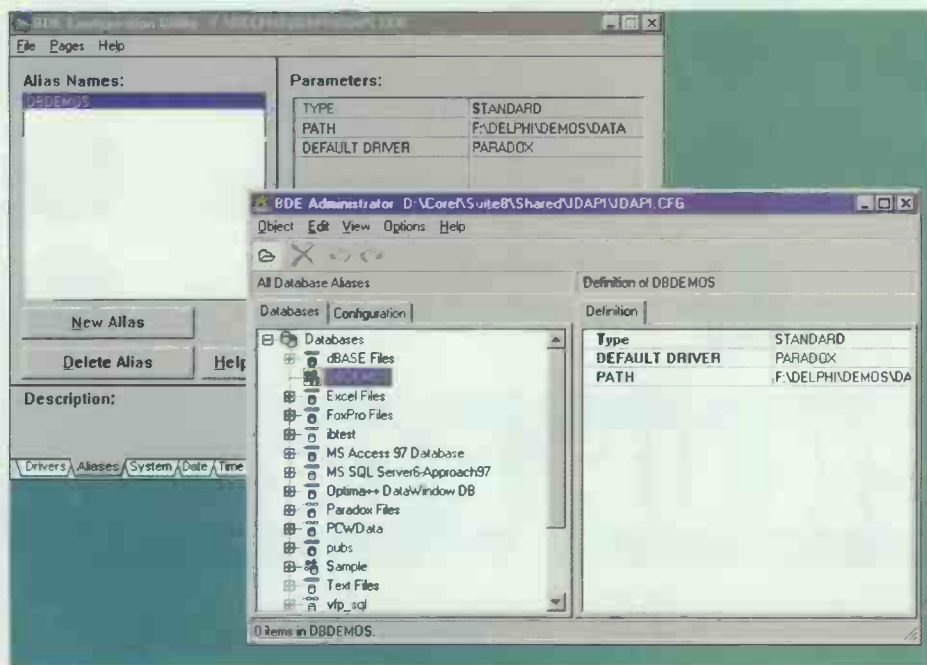
4. Select the Table component and set its Active property to True. All going well, the grid fills with data, even at design time.

5. Place a DBNavigator control on the form and set its DataSource property to DataSource1.

- *Tip: Set the Align property of the DBNavigator to Bottom. When the user resizes the form, the navigator will automatically resize itself to fit neatly along the bottom edge.*

6. Run the application. You can scroll up and down the grid to view all the records in the table. You can use the Insert Record button on the navigator control to insert a new record, and the

Fig 1 The rear window shows the BDE configuration utility for Delphi 1.0, while the front window is for Delphi 3.0. In both cases there is an alias called DBDEMOS



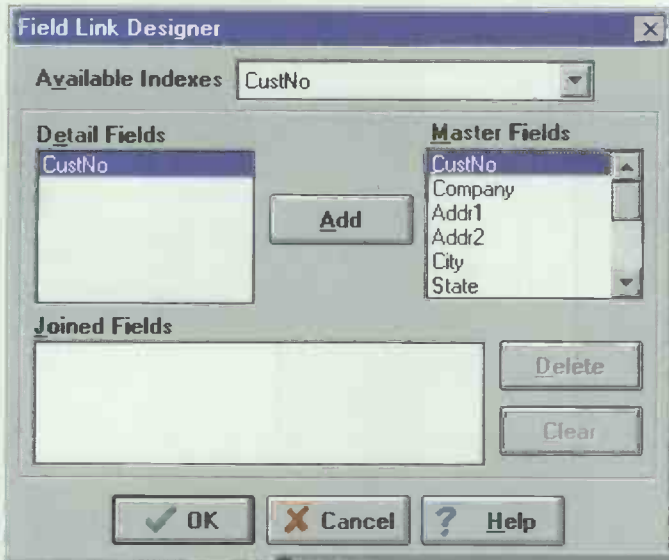


Fig 2 (left) Use the Field Link designer to set up a master-detail relationship. In this, the CustNo field links the Customer and Orders tables

1. The database includes a master-detail relationship. For each customer, the associated orders are displayed in the grid

2. Table2 is the detail table. In this next step, it is linked to the master table of customers. Set the MasterSource property to DataSource1. Select the MasterFields property, and click the three dots to open the Field Link Designer. Under Available Indexes choose CustNo. Select the CustNo field in both left and right field lists, and click Add. This operation tells Delphi to look up the orders for each customer based on the value of the CustNo field in each table.

3. Currently, the DBGrid points to the Customer table. Change its DataSource property to DataSource2 so that it points to the Orders table instead.

Post Edit button to save it. You can use the Delete Record button to remove a record — not bad for an instant database application.

• Tip: Set the ShowHint property of the form to True. When you hover the mouse over the DBNavigator buttons at runtime, a hint tells you what each button does.

7. The records are currently unsorted. To sort the records by Company, select the Table component and set its IndexName property to ByCompany. Now the records in the grid are sorted.

8. Finally, a glaring omission in the application is the lack of a search facility. Pop a button on the form, double-click to open the code editor, and enter the code for the search facility (see opposite page).

• Tip: InputBox is a handy function when you need a quick way to get a search value from the user. Select the word InputBox in your code, press F1 to open online help, and see what the parameters do.

This routine will only work if the table's IndexName property has been set. Delphi will look for a match in this index. Note the square brackets around the search variable — needed because FindNearest accepts an array parameter.

Dealing with master-detail data

You can easily enhance the example above to deal with a master-detail relationship (Fig 2). Here is how it works.

1. Add a second DataSource and Table

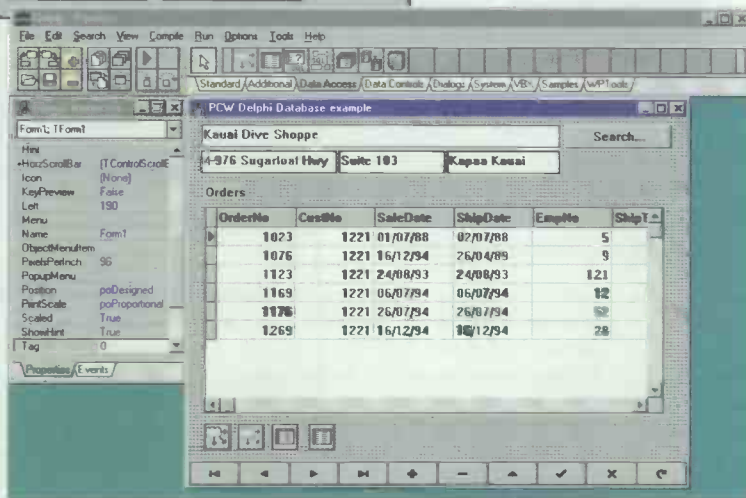


Fig 3 (below) The database includes a master-detail relationship. For each customer, the associated orders are displayed in the grid

Now add several DBEdit controls above the grid and set their DataSource property to DataSource1. Set the DataField property of each DBEdit to a suitable field, such as Company, Addr1 and City. Fig 3 shows a possible design for the form. Make sure the Active property of the Table components is set to True and run the application.

Other database components

When you are starting with Delphi, the Table component used in the above example is the quickest, easiest way to display data. Surprisingly, many Delphi

component. Set the DataSet property of DataSource2 to Table2.

2. Select the Table2 component and set its DatabaseName to DBDEMOS. Then set its

When you are starting with Delphi, the Table component used in the above example is the quickest, easiest way to display data. Surprisingly, many Delphi

Defining your own database

Demonstration databases are all very well, but you will soon want to use your own data. To define your own tables, run the Database Desktop (a separate application that gets installed with Delphi) and choose File, New Table. When asked to select a table type, choose Paradox. The Create Table dialog opens, where you enter field definitions that define how data is stored. It is essential to do a good job at this stage, otherwise your application will never work well. Here are some tips:

- Include a unique identifier for each record. This is essential when you want to link several tables together, as with books and authors. An obvious technique is to use an auto-increment field for this, but beware: in most versions of Paradox this is not safe, as the value may change if the table is rebuilt. Most developers generate their own unique ID value. Mark this as the Primary Key by putting it at the top of the field list and double-clicking the Key column so an asterisk appears.
- Index other fields that you are likely to use for searching or sorting. Because Paradox uses the Key column for the primary key, other indexes should be defined as secondary indexes. Ensure all indexes are marked as maintained.
- Take full advantage of the Paradox facilities: for required fields or other validity checks for example. It is safer and easier to let the BDE handle validity checks, than to do so in your code. For instance, someone may open the table using Paradox rather than your application. In this case, rules you have defined in the table structure dialog will still hold, but those defined in your application will not.

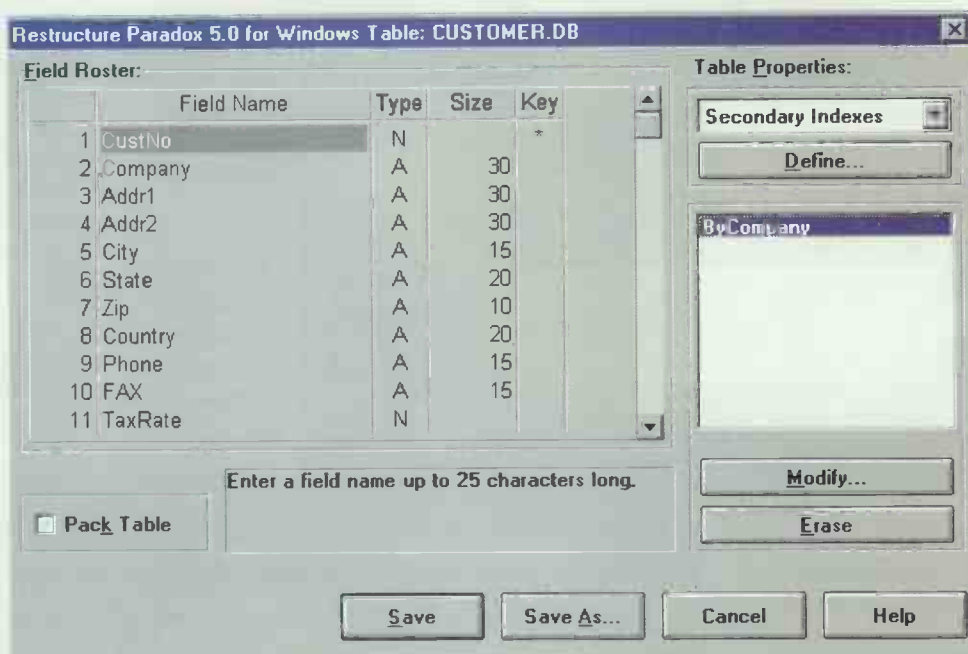
How Delphi manages data

Delphi is a Borland product and Borland is the company which developed the Paradox database manager, first for DOS and later for Windows. Paradox is now marketed by Corel but the grunt-work of data access in Paradox is still handled by Borland code.

Borland has a couple of other database products: dBase and InterBase. Like Paradox, dBase is a desktop database designed for standalone use or for small networks of no more than a dozen or so users. The format of the data files is different and you will notice that Paradox files have a .DB extension, while dBase files end with .DBF. Borland decided to combine the code for dBase and Paradox, so that one low-level component could handle data in either format. This code, actually a set of dynamic link libraries, is called the BDE (Borland Database Engine). When Delphi was created, it made sense to include the same code there, as well. That means

Delphi has native access to dBase and Paradox data using exactly the same code libraries as the full products. The Database Desktop, bundled with Delphi, is actually a cut-down version of Paradox.

Borland's InterBase is a different kind of product. It is a client-server database manager. In a dBase or Paradox system, each machine on the network runs its own data management code, accessing shared files on a central server. In a client-server system, the data management code runs on the server and the client machines run applications which despatch query requests and then receive the results. The advantage of client-server is partly that the server database can manage the data more intelligently, and partly that network traffic is reduced because only the query and its results need to be passed



The dialog for defining or restructuring a database table. It is part of the Database Desktop, a powerful interactive tool for managing data

back and forth. The result is that InterBase and other server databases, like Oracle and SQL Server, can handle many more users and manage databases beyond the capacity of Paradox or dBase. For maximum flexibility the BDE can handle these server databases via plug-in drivers. You can also access databases through Microsoft's standard for database drivers, ODBC. Overall, the BDE can handle three kinds of database:

1. Paradox or dBase natively.
2. InterBase and other server database via native drivers.
3. Any ODBC database.

To manage all these combinations you will find a utility called Database Engine Configuration in Delphi 1, or BDE Administrator in Delphi 3. The latest BDE can also handle Microsoft Access databases, but

only if they are in Access 95 format.

• *Tip: The BDE works best with dBase, Paradox, or its own native drivers. Use ODBC or Access data only as a last resort. Use Paradox rather than dBase, unless you have a reason to prefer the dBase format. Paradox data files have useful additional features.*

You do not have to use the BDE with Delphi. Although it is powerful, the database engine is large and memory hungry. For small databases, using Delphi's low-level file functions is more work to program but fast and efficient.

There are alternative third-party database libraries for handling dBase or FoxPro data, or for using ODBC or Access databases without going through the BDE. These solve compatibility problems, are smaller and often perform better than Borland's engine.

developers hardly ever use it. The reason is that you seldom want to view a whole table at once; more often, only a small subset of the database is required. Table components can perform badly on large databases.

The other factor is what happens when you need to scale your application up to a server database. In this case, you need an easy way to query and update the data using SQL (Structured Query Language), the common language of server database managers. Delphi has a Query component for exactly this purpose. You can use Query components on Paradox and dBase data as well, so there is no reason why it should not

form the basis of all your database applications. It is a little harder to use, though, since you must be familiar with SQL.

Delphi also has a Database component but this is not necessary for simple apps. Internally, Delphi uses a default Database object instead. It is useful for systems where you need to log on with a user name and password, or if you are using a server database and want to use explicit sessions and transactions to ensure data integrity.

Another important database component, in Delphi 2.0 and higher, is the Data Module. This is invaluable if your application has more than one form: instead of putting data components on every form, you can

add them to a single data module. Each form then links to the data module by referencing it in the Uses clause of its unit. This is both simpler and more secure than having data components dotted all over your application.

■ *The code for the database example is on our cover CD-ROM, in the file DELPHI2.ZIP.*

PCW Contact

Delphi queries are regularly tackled in *Hands On Visual Programming*. You can contact Tim Anderson with your queries and tips at the usual PCW address (see page 12) or at visual@pcw.vnu.co.uk

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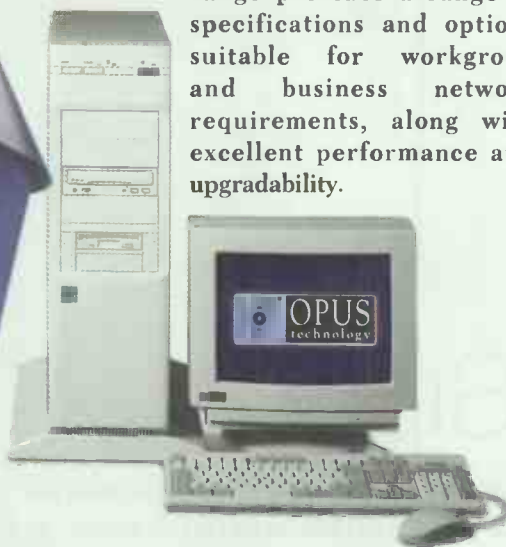
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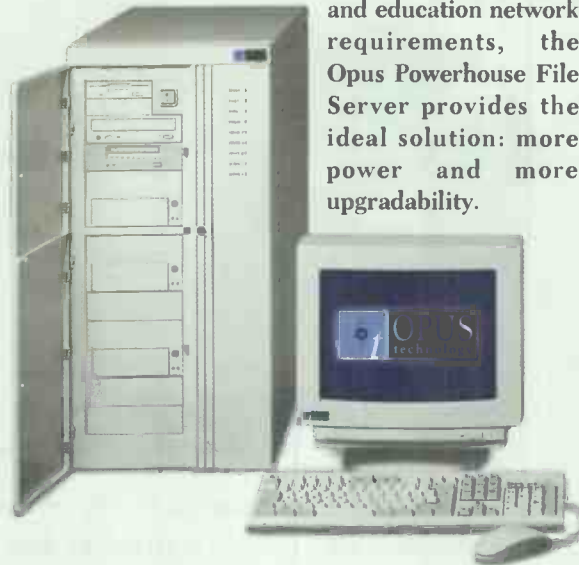
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Server Side Story

Nigel Whitfield answers a query on Server Side Includes, enabling you to replace parts of your web page with other information. But first, he comments on plans to net-connect all UK schools.

So, with the help of Bill Gates, every school in the country is to be connected to the internet. And almost unanimously, this has been hailed as a "good thing". The internet is, after all, a good thing, so giving everyone access to it from school must be as well, mustn't it?

Perhaps. But there's also a danger that, rather than giving everyone equality of access, making the net available in every school will actually increase the divide between different classes of pupil. Rubbish, you might say; and if all it's used for is a research tool, then there's some merit in that comment.

After all, those who don't have a computer, or lack net access at home, can always visit a library to look things up, or rely on the old family encyclopaedia, can't they? But what happens when the net ceases to be just a tool and is an accepted part of education, as some would like to see it? When the object of the exercise becomes not "Find me ten useful facts

about life in Uruguay" but "Find me ten web sites about Uruguay", all those whose access is restricted to their time at school will find themselves at a disadvantage compared to children from families with access at home, where they can search out new sites at their leisure.

There are some solutions, of course. After-school clubs will allow some children access to the computers at school that they didn't get to use during the day, and placing terminals in libraries will help as well.

What's really needed, however, if acceptance of the internet is to become anything more than another divide between the haves and the have-nots, is for access to be simple, for the "internet appliance" to become reality, cheaply and easily. It's no good to say that a computer is cheap, and that a net connection is only ten pounds a month when that's still far more money than many people can afford.

If the internet really is to become pervasive, in schools as well as homes, it needs to be cheaper and easier to access.

Forget Windows 95, and the combined browser and desktop of IE4. What's needed is a leap as significant as the arrival of the first Mac into the DOS-based world of the eighties, at a price that's comparable to a video recorder and just about as simple to use.

Only when people can rent a net appliance as easily and cheaply as they can a television set, will the internet really be a tool that we can wholeheartedly welcome into schools. Of course, putting every school on the internet is a start, and it will doubtless prove to be a valuable resource for many people. But it's vitally important to keep a sense of proportion and remember that it's not an unqualified advantage to both teachers and pupils, nor necessarily the best use of funds.

Rather than rushing headlong towards the utopian view of the net shared by many users, perhaps it's better that those of us who use it already think about what we're doing and the effect it will have on all parts of society, lest we create a divided dystopia.

Platform tickets with Server Side Includes

Most web pages that people create tend to be static, or to rely on multimedia and fancy add-ins to make them look more attractive to people. While that's all very useful, what about including information that will depend on who's accessing your site, or other information that changes from time to time.

As one of the questions this month shows (page 250), it's fairly easy to add to your web site the time a page was changed, but the Server Side Include (SSI) mechanism (also known as server parsed HTML) can do more than that: you can create pages that might include a reference to where someone's connected from, or the type of computer they're using, or even present a different menu completely, for some types of user. A word of warning: While SSI pages can be very useful, they can also put an extra load on your server. As a result, it's common to tell the server only to look at pages with a particular extension, usually shtml.

At its simplest, you can use the technique to add a standard button bar to every page. Then, if you want to give your site a makeover, just change

the file that contains the button bar, and every page that uses it will look different. Commands are embedded in HTML comments, so you'll either need to edit your web pages manually, or use a web editor that allows you to put in comments. For example, the code:

```
<!--#include virtual="/common/buttons.html"-->
```

would insert the code contained in /common/buttons.html where the comment appeared in your web page. If you replace "virtual" with "file" then you can specify the exact location of a file anywhere on the server, rather than within the main web directories.

You can also display any of the information passed to the web server by the browser, or maintained internally, using the echo command to display a variable. For instance:

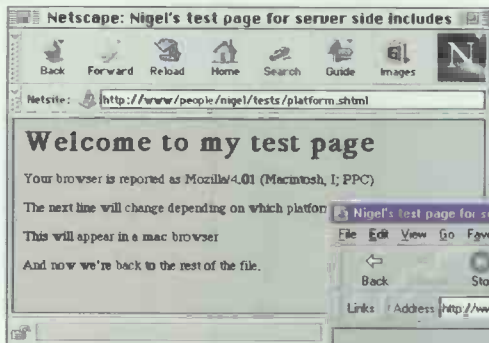
```
<!--#echo var="REMOTE_HOST"-->
```

will be replaced with the name of the computer that's accessing your web

page, so put it in the middle of a 'Hello and welcome' message for a personalised touch. There are a few other commands too; include flastmod and fsize which tell you the date last changed and size of a file, respectively. But one of the most useful is the `exec` command which our example uses to create a simple page that will display different information for Mac users.

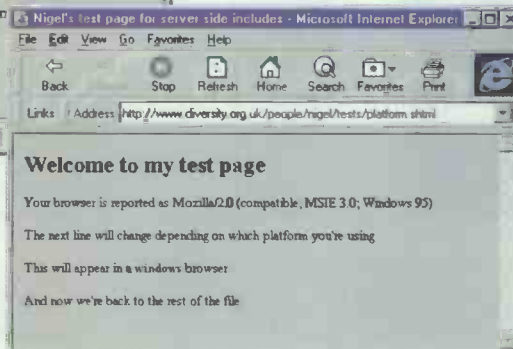
Here's the basic code for the page (missing the HEAD portion):

```
<h1>Welcome to my test page</h1>
```



The "echo" command can help you personalise your site for the Mac (left)...

...and for Windows 95 PCs with a minimum of coding (right)



```
1 Your browser is <!--#echo var="HTTP_USER_AGENT"--><P>
   The next lines will change depending on which platform you're
   using<P>
2 <!--#exec cmd="/usr/local/etc/httpd/cgi-bin/platform_ticket"--><P>
   And now we're back to the rest of the file.
```

The first marked line simply displays the information returned by the user's browser, which is sent to the web server and stored at `HTTP_USER_AGENT`; the second line calls a program called "platform_ticket" which is a Perl script. Instead of saying "cmd=" you could say "virtual=" and specify the program as a name like `/cgi-bin/platform_ticket`, but on some servers (we used Netscape FastTrack) you might not be able to access the files you need from within the script unless you give the full path to them. Don't forget you'll need to include code like this in a file ending in `.shtml` and enable Server Side Includes on your web server. That option may not be available if you simply have free space with your internet account.

The next thing to do is to create the different versions of the page that you want to display for Windows and Mac users, and save those sections in files called "win.inc" and "mac.inc" (or whatever you've referred to in your script). Finally, you'll need to write the actual script itself, which decides which file to send back to the browser:

```
#!/usr/local/bin/perl
# script to output a file based on the browser accessing a site
1 $browser = $ENV{'HTTP_USER_AGENT'} ;
2 if ( $browser =~ /mac/i ) {
3     open( INCLUDE, "mac.inc" ) ;
4 } else {
5     open( INCLUDE, "win.inc" ) ;
6 }
7 while( <INCLUDE> ) {
8     print $_ ;
9 }
10 close INCLUDE ;
```

1. First, we've saved the information into a new variable; not strictly necessary, but if you wanted to change the value, you could do so more safely. 2. This line checks to see if \$browser contains the string "mac", and the i on the end ensures that it's case insensitive. 3. If "mac" occurs in the \$browser variable, then the file mac.inc will be opened; INCLUDE is the "handle" given to the file so we can refer to it later. 4. To do more tests, change "else" to "elsif" and add more conditions here. 5. These next three lines read from the file that was opened, one line at a time, printing it out. 6. Finally, we close the file, and the job's done. So, with just a handful of lines of Perl, and a couple of comments in your web page, you can give people the feeling that they've visited a site that's a little more customised to their needs; and of course you can do more than just display pages based on their browser. For more information about Server Side Includes, visit twister.luton.ac.uk/Manual/ssi.html

p250 >

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Questions & Answers

Q We've created an intranet based on a system running Netscape's FastTrack server. So that everyone knows when a page has been updated, we'd like the server to include information automatically. I've heard of Server Side Includes, but can't find much information about them. How do we do this?

A Server Side Includes, also referred to in the Netscape documentation as parsed html, are a way of telling the server to replace certain parts of a page with other information; if you decide to use this, you'll have to tell the server which pages you want it to parse. The usual way is to save pages with the extension `.shtml` and include commands within them, embedded in HTML comments, which allow you to add features such as the date a file was modified or the name of the system requesting the page, and so forth.

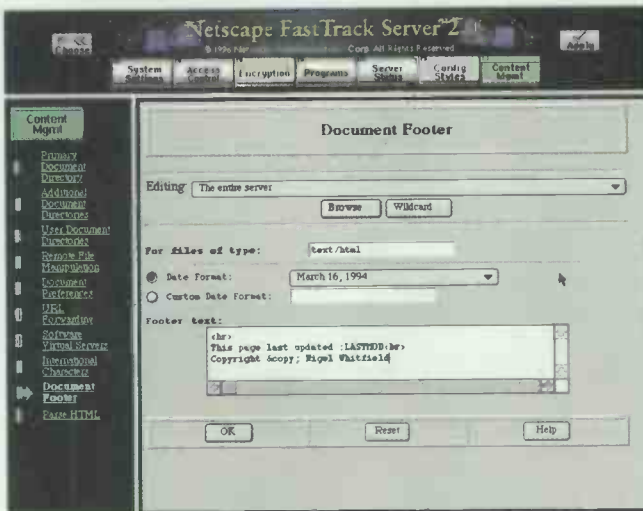
The panel on page 248 gives details of how you can use Server Side Includes to create pages that will depend on the type of computer being used to access them. However, if all you want is a simple date and time on the bottom of your pages, Netscape FastTrack server has a "page footer" feature that you can use to achieve the same result, without having to worry about server side includes.

To activate custom page footers, use the server manager, and click on the Content Management button in the top frame, then choose Document footer in the left pane, and you'll see a screen similar to the one displayed here. You can type the footer text that you want in the box, including the tag `:LASTMOD` for the last modification date of the file, and select the date format from the drop down menu.

When you've made your changes, click on OK, then choose the button marked Save and Apply, stop, then restart your web server. All your pages, unless you selected just a portion of the server, will now have a footer added automatically.

Q I am an AOL user and I want to know how I can connect to the IRC network. Do I need to configure my system specially?

A No, you don't need to do anything special if you have the latest version of the AOL software, although older versions



Netscape's FastTrack server can automatically add a timestamp to all your pages

won't work with programs that require a 32-bit winsock stack (the part of Windows that links you to the internet).

The best thing to do is to upgrade to the latest version of the AOL software (which you can do at keyword UPGRADE). If you have it already, the system will tell you when you try to download it again. When you've installed AOL, you'll find that in one of the AOL directories there's a file called `winsoc.dll`; install your IRC program into the same directory (or alternatively, make sure that it's in the path) and then all you need to do to connect to IRC is to start AOL, then start your IRC program.

One of the best IRC programs to use is called mIRC; you can download it from www.mirc.co.uk or at keyword IRC on AOL, where you'll also find additional information about configuring your system.

Q For the purposes of web-page design, what safe assumptions can I make about resident fonts? Is there a standard set installed with Windows 3.1 and 95 and, if so, where can I learn what it is?

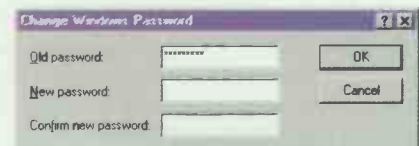
A First, don't forget Mac users! The best thing to do is to assume as little as possible about fonts, as different systems may have widely differing selections. The best bet is to stick to the core TrueType fonts, which includes Arial, Courier New and Times New Roman; Mac users who have installed Microsoft Office applications will almost certainly have these fonts available. Those who don't can download them (and others) from www.microsoft.com/truetype/fontpack/mac.htm.

If you really do want to use lots of fonts to create a specific look for your web site, the best bet may be to provide links to the Microsoft (or other) font pages from the front page of your site, so that those who want to will be able to download them and make sure that they see things as you really intend them.

Q I am using Internet Explorer 4 Final (Build 4.71.1712.6) and MS Dialup Networking 1.2 on Windows 95 4.00.950. When I want to browse the internet it won't dial automatically. I think the reason is because the Save Password checkbox is greyed out. I have tried reinstalling the connection several times following the help exactly, but to no avail. I have also tried using Netscape Communicator but, again, I still cannot check the checkbox.

A Windows doesn't think you're signed on to the system as a valid user. When you install networking, Windows 95 assumes that you need to log on before the system is secure. However, many people simply press the Escape key when they're asked for a password, and since everything else works properly, don't realise the importance of what they're doing.

When you start Windows, if you don't
Setting a blank password will stop Windows prompting for a user name



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have a user created, give yourself a name and then leave the password blank. You'll be asked to confirm it, so leave the box blank again. Now, when you start the system, you won't be asked for a user name.

If you've already created a password and want to avoid having to say who you are each time you start the system, you need to log in properly when you start up, with the correct password (or create a new user, with no password, instead), open the control panels and choose Passwords, then set the password to be blank. You should be able to tell Dialup Networking to save the password, so you'll be able to start your computer and get on the internet, without having to remember anything more than where the power switch is.

Q I'm writing CGI scripts in Perl 5. As Perl and most scripts/libraries are freely available on the net, what's the position regarding copyright?

A Your scripts are your own intellectual property, and unless you decide to give them away, then there's nothing anyone else can do with them. But if you were to distribute, for example, a Perl-based online shopping system which used freely available libraries from the internet, you may find that the conditions of use of those libraries prohibit you from using them as part of your commercial product. After all, why should you sell something someone else wrote?

It's most unlikely that someone would

be able to steal your scripts, unless the security on your web server is more or less non-existent. If the scripts are kept in a script directory, it's hard for anyone to see them. All that's passed to the web browser is the results of running the script itself.

You should clearly mark your scripts with your name, and other information, anyway, including an indication of your copyright, and a clear prohibition on use without your permission, if you wish to restrict their use, though of course it can be very hard to prove that someone has used your script, since it can easily be modified to look very different (especially with a language as flexible as Perl).

Q I'd like to set up a dial-in PPP link to the Unix server in my office, so that I can connect to the internet that way, rather than paying to subscribe to an ISP. How do I allocate IP addresses to the link? One of the manuals says something about having to have a separate subnet; what's that, and how do I create one? Is it absolutely necessary?

A A subnet is a section of addresses in a range of TCP/IP network numbers that, when written in binary, has the top section of bits all the same. For instance, if you have a network of 256 addresses, you might use four bits to create subnets, giving you sixteen subnets, each capable of having fourteen machines on it (addresses with the

bottom bits all either 1 or 0 aren't used).

By putting your PPP link on a subnet, the other computers on the network will be able to work out easily that traffic for that subnet has to go via a certain route. However, that's not always possible, and it might mean re-configuring lots of your systems just to add a single dial-in link.

An alternative solution is to use proxy-ARP. ARP is the Address Resolution Protocol, and it's the way in which computers running TCP/IP match ethernet addresses to IP numbers. With proxy ARP, you add an entry to the arp table (usually using the /etc/arp command) that effectively means your Unix server is saying to the rest of the network "If you've got anything that's destined for this address, send it to my ethernet card." When the information is received at the Unix server, it'll be passed to the PPP interface.

Since you don't say which version of Unix or PPP you're using, it's hard to be more specific, but it looks like using proxy ARP may be the best solution to your problem. Most modern versions of PPP will be able to make the arp entry automatically when they receive a connection; check your manual.

PCW Contact

Nigel Whitfield is a freelance journalist, maintainer of several internet mailing lists and consultant to a number of non-profit organisations. He can be contacted via internet@pcw.co.uk.

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Waiting for the off

Tim Nott turns his attention to a common complaint: what to do if Win95 fails to tell you when your PC is safe to turn off. Plus lots of hints and tips, with purrfectly good advice from a cat!

I've been devoting a separate section of my column recently to quick answers to readers' problems; but Andy Bedford's cannot be answered shortly. Since it's a common problem, I'll treat it in detail. He writes: "My computer advises 'Please wait while your computer shuts down'. I've been waiting three hours now and I want to go home! Only joking. But my PC never gets to the 'It is now safe...' screen."

There are a number of reasons why this can happen, and it's such a tedious business trying to eliminate them that I'm going to take it in two chunks. We'll start this month with the most likely suspects. Often it's because a program is not shutting down properly.

1. The first thing to do is check that no programs are running when you shut down. If it only happens when a certain program is running, then there's your culprit. Even if no windows are open, there may be something running in the background or on the System Tray. Press Ctrl+Alt+Del and End Task for everything running except Explorer. You may get a "This program is not responding..." message, in which case you've probably caught the troublemaker.
2. If not, but Windows then shuts down cleanly, you can eliminate suspects by End Tasking each in turn, then closing Windows.
3. If the culprit is a program you don't recognise, or haven't run, then Windows is probably loading it at startup. Check the StartUp folder, and the Load and Run lines in WIN.INI. (Hint: the best way to edit this, and other files mentioned here, is to run SYSEDIT.) Next, run REGEDIT and check

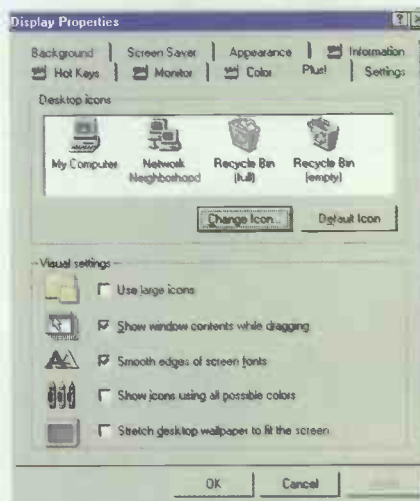


Fig 1 All this for free; but you'll have to find it

the entries in the Registry under
HKEY_LOCAL_MACHINE \SOFTWARE
\Microsoft \Windows \CurrentVersion
\Run

4. Next, check it's not sound-related. Go to Sounds in Control Panel and deselect the Exit Windows and Close Program events. If this cures it, then either one of the sound files is corrupt, or there is a hardware or sound driver problem.

5. Next, check the problem doesn't arise from a line in autoexec.bat or config.sys. Restart the computer, hit the F8 key when the Starting Windows 95 message appears, and choose "Step-by-step confirmation" from the menu. Answer Y to:

- Load Doublespace driver (if it appears).
- Process the system registry.
- DEVICE=C:\WINDOWS\HIMEM.SYS.
- DEVICE=C:\WINDOWS\IFSHLP.SYS.
- Load the Windows graphical user interface.

- Load all Windows drivers.

Answer N to everything else.

If that cures the problem, then it's being caused by a line in autoexec.bat or config.sys. So repeat the confirmation business, this time answering Y when asked to process config.sys and autoexec.bat, then by whatever tedious process of elimination you choose, isolate the culprit. When you've done this, edit config.sys or autoexec.bat accordingly, placing a REM at the beginning of the offending line — it will then be ignored on start-up. It's possible that this might be an old "real mode" driver, so if everything still works you have nothing to worry about.

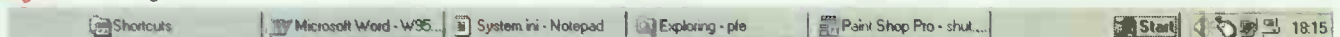
If the problem still persists, it could be an old virtual device driver. Look in the [386Enh] section of SYSTEM.INI for lines starting "Device=" and ending "386". REM each one out in turn (hint: a semicolon here works just as well), to see if that fixes the problem. If you find the culprit here, then it's going to take independent detective work on your part to find its owner: right-click Properties, Version, is a good start.

For the love of bunny

Those with long memories might remember the first edition of the *Hands On Windows 95* column (July '95). In that, I mentioned full window dragging which was an option in early beta versions: as you moved a window around the screen, the contents remained visible instead of just the outline. Later beta versions removed the option, but it could be re-enabled by putting ILOVEBUNNY32=1 in WIN.INI. No, I am not kidding.

The final release removed the feature

Fig 2 How did it get there?



Tim'll fix it

Like many PC users, I am considering adding a second hard drive to my PC. Is there an easy way for me to keep my CD's drive letter as D: to avoid the problems with software installed from CD, including Microsoft Office and Windows 95 itself? If not, is there an easy way to persuade the software to accept the fact that my CD is now at F: rather than D: for installation of additional Windows components?



Fig 3 PFE's Open defaults to All Files

Steve O'Connor

This problem is common, and the bad news is you can't keep the CD-ROM at D:. Formatting and partitioning the new hard disk will bump it down accordingly. Although this is too late to help, Steve, what you can do is to plan ahead, keeping plenty of space for new hard disks (or removable media backup drives), by setting your CD-ROM drive further down the alphabet.

Go to Control Panel, System, Device Manager. Find your CD-ROM drive and click Properties. Select the Settings tab, and in the Reserved drive letters section, set both the start and end letter to the one you want the CD drive to use. OK back out of all dialogs, and restart the PC.

The best time to do this is just after having installed Windows but before installing other software. However, this will cause a minor problem with Windows Setup. Should you want to add or remove components you'll get a "Can't find..." error message, followed by a dialog in which you can specify the new path.

If you want to avoid this minor annoyance there is a simple registry tweak. Using Regedit, go to HKEY_LOCAL_MACHINE \SOFTWARE \Microsoft \Windows \CurrentVersion \Setup and look for an entry in the right-hand pane entitled SourcePath. Double-click on this to change it from D:\WIN95 to the new value.

I often need to edit HTML files using Notepad. I have a shortcut

on the desktop to Notepad and have changed its properties to open in the required folder. However, each time I select File/Open, I need to change "Files of Type" to "All Files" so that I can see the HTML files, and select the one I need. This is tedious. Can I change the default to "All Files"? Should I be going about this in a fundamentally different way?

Chris (no surname given)

No and yes, in short. Notepad will remember "All files" for subsequent File/Opens in the same session but the only way to get this to be the default is to hack Notepad.exe with a Hex editor.

One solution is to use a better text editor. PFE (Programmers File Editor) is known and loved by many readers. It's wonderful for this sort of thing, opens multiple files and has many well thought-out features. And as Fig 3 shows, it solves Chris's problem. It's available in 3.1, 95 and NT versions, was written by Alan Phillips at the University of Lancaster and is completely free. Now there's a generous man.

The other solution is to use a different method. Instead of having a shortcut to Notepad on the Desktop, why not have a shortcut to the folder containing the HTML files? Then add a shortcut to Notepad in the Windows\SendTo folder, and you'll be able to right-click on any file and load it into Notepad with the Send To... command.

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which have not been properly removed, or which have been deleted by other means?

Steve Lawson

A The difficult way is to open the Registry in REGEDIT.EXE, then go to the branch **HKEY_LOCAL_MACHINE \SOFTWARE \Microsoft \Windows \CurrentVersion \Uninstall** and remove the offending entry from the list. The easy way is to use the Add/Remove feature of Tweak UI. If you haven't got this, it is available free as part of the Microsoft Powertoys, from a multitude of web sites.

Q Is it safe to remove the *.chk files (e.g. File0001.chk, File0002.chk and so on) which I have in my root directory? They are taking up over 15Mb of space.

Robin Kenny

A These are "lost clusters", which are basically chunks of data that have been orphaned without a file name. They have probably arisen as the result of a crash or power cut. If you have lost recognisable data, e.g. text, you might just find it lurking in one of these. Otherwise, delete them.

entirely but you could get it as part of the Plus! Pack. An extra page in Display, Properties offered desktop icon changing, font smoothing, full window dragging and other options (Fig 1). I don't know how well Plus! is selling these days, but when I came across something called the Microsoft Font Smoother, it rang a bell. The file is named W95GRAY.EXE and I found it on the Microsoft (UK) web site. It seems to be freely available elsewhere but we haven't been able to put it on our PCW CD as the licence agreement precludes this.

QBASIC.EXE, HELP.COM and HELP.HLP files from the Other\OldMS-DOS directory on the Win95 CD-ROM to your Windows\Command folder. You can then get concise help on DOS commands with decent examples given, by typing 'Help (command)' at the command prompt. It's DOS 6.22-specific but it's still helpful."

This next one's from Irfan Shabbir, in Karachi. Click on the Start button, then press Esc, which will close the menu but keep the button in focus. Hold down the Alt key and press the minus sign key. A little system menu will appear. Type M and you'll be able to use the arrow keys to move the Start button along the Taskbar (Fig 2). Hit Enter when it's where you want it.

Even more amusing is that the situation is now rather unstable: you may find the button suddenly shoots back to its old position. It may also disappear, in which case, Control + Esc will find the Start menu. As a variation, try C-for-close on the little system menu. The Start button will disappear and Control + Esc won't work either, but everything else will be normal.

I suppose I really ought to tell you how to get the button back. This can be quite a seriously useful technique if Explorer, the Windows "shell", goes belly up. What you need to do is load a new instance of the shell, as follows (see also Fig 4):

1. Ctrl+Alt+Del to get the Close Program dialog.
2. Select Explorer, then click End Task.
3. Click No in Shut Down Windows dialog.
4. Wait... a box titled Explorer will appear stating that "This program is not

responding...". Hit the End Task button.

5. Wait... a new instance of the Taskbar and Start button (i.e. the Explorer Windows shell) will load.

Satisfaction guaranteed

Reader Peter McGarvey has been suspiciously quiet for a while but, true to form, he's come up with a magnificently arcane tip this month, which he claims was discovered by his cat. Do you want the truly bizarre details? Of course you do.

Peter does things in DOS (well, someone has to). Without getting too sidetracked, there's a MODE command that you can use to change, among other things, the number of lines on the screen. There's also loads of stuff you can do with ANSI.SYS, such as assign strings of characters to a keystroke. Anyway, to cut a long story short, Peter had assigned a key using an ANSI escape sequence to return MODE CO80, which is DOS-speak for change the DOS display 80 characters per line.

Over to Peter: "One day I shut down Windows and up popped my version of the power off message. At this point one of my cats, Oz Beast, jumped up to say hello, landing on my keyboard. After the obligatory assurances that she was, without a doubt, the cutest feline in the whole universe, I went to turn off my PC and noticed something very strange. The most excellently designed and mildly amusing screen, which I created specially to indicate that my computer was ready to be turned off, was missing. In its place was a command prompt. I thought about this and realised that Oz must have done something to cause this. After much trial and error, I discovered that it was the MODE CO80 hotkey which caused this. Furthermore, I discovered that actually typing MODE CO80 did it as well."

Well, there you have it. I find it only works if you use an explicit WIN command to start Windows, either from a DOS prompt or in autoexec.bat. But since this is the first time a cat has contributed to this column, a tin of tuna fish is on its way to Oz Beast.

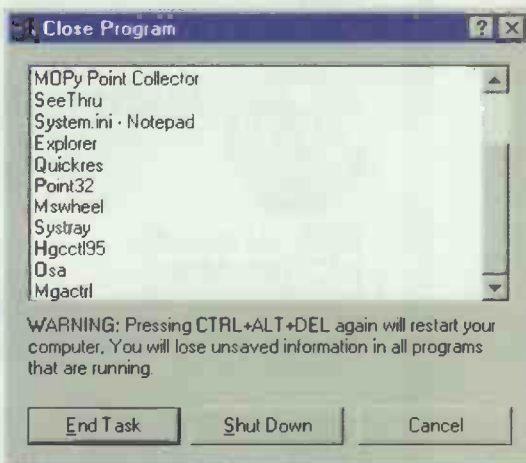


Fig 4 Good grief: who started this lot?

The file is self-installing, and you're asked if you want to add font smoothing. However, it adds not just this, but the entire Plus! page to display properties. At least, the later version, weighing in at 174,120 bytes, does.

Department of incredibly obscure tips

■ Simon Smith has a Help hint. "I find the help for DOS commands (e.g. DIR /?) a bit poor. I recommend copying the

PCW Contacts

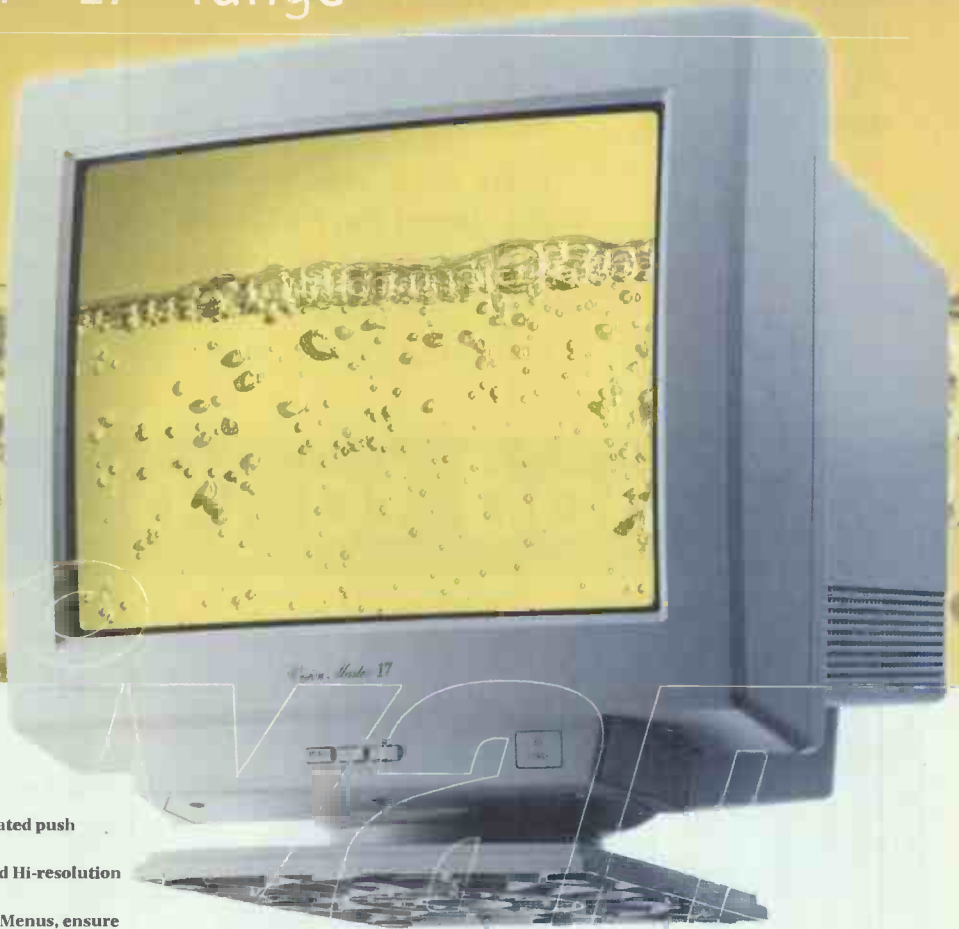
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The OLE routine

Panicos Georghiades and Gabriel Jacobs show you what to do if your Windows installation gets corrupted and your programs don't work. Chances are, it's OLE registration trouble.

It's not too uncommon for a Windows installation to become corrupted to the point where certain programs do not work at all. One of the first things to investigate is the possibility of a corrupted registration database. If you suspect this (see "Rebuilding the REG.DAT" for reasons why) you may choose to make a fresh installation of Windows and all your programs, as we have suggested in Paul Cunliffe's case (p263), or you could first try to rebuild the registration database.

Program Manager and Object Linking and Embedding (OLE) registration information is stored in .REG files that are used by the Registration Editor (REGEDIT.EXE) to add information to the registration database, REG.DAT.

REG.DAT contains information about file associations and OLE objects. The Windows 3.1 Setup program uses REGEDIT.EXE to add default associations for Paintbrush, Notepad and some other of its programs and objects (like Packager, Paintbrush, and Sound Recorder).

REG.DAT is not copied from the original disks. Instead, it is built using REGEDIT.EXE and the SETUP.REG file (in the Windows\System sub-directory) during setup.

A sign that the REG.DAT file may be corrupted is one of the following messages:

- File Manager cannot open or print the specified file. Start the application used to create this file and open or print it from there.

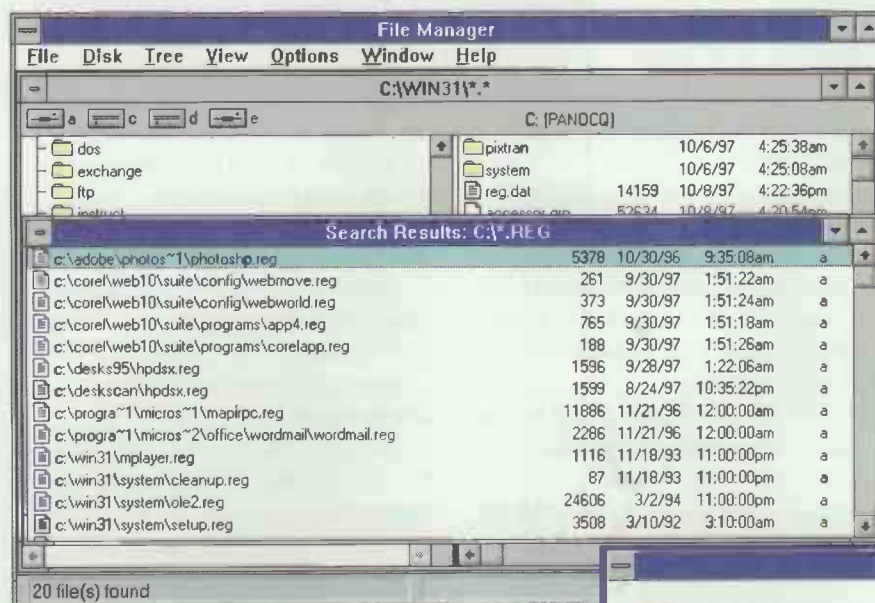
- There is no application associated with this file. Choose Associate from the File menu to create an association [only if you know for a fact that there is an association].
- There is a problem with REG.DAT. Delete REG.DAT and restart Windows.
- Setup had a problem with REG.DAT, SHELL.DLL or disk space.
- Windows registration database program is not valid.
- OLE server initialisation failed.
- Windows registration database is not valid.

Rebuilding the REG.DAT

If your REG.DAT file has been deleted or corrupted, you can rebuild using the methods shown below.

■ Building the original REG.DAT file for applications that came with Windows: To restore these defaults, first rename your existing REG.DAT file (if there is one present) before you try to rebuild it. We assume that your Windows directory is on drive C and is called WINDOWS.

1. Run Program Manager or File Manager.
2. From the File menu, choose Run.
3. In the dialog box, type the following:
regedit /u c:\windows\system\setup.reg
A message should appear, confirming that the information has been registered. The database now contains the original registration information that was installed with Windows.
4. Choose OK. At this point, you may have to exit and restart Windows in order to see



Above To find all the REG files, use the search feature in File Manager

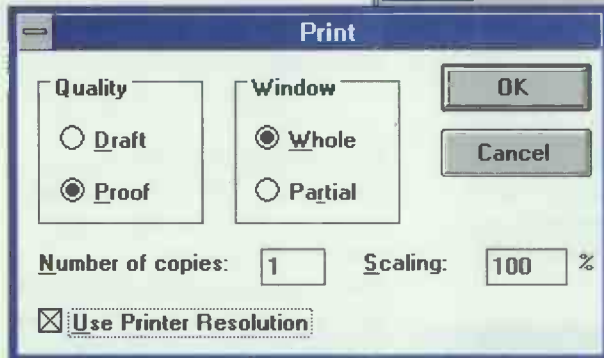
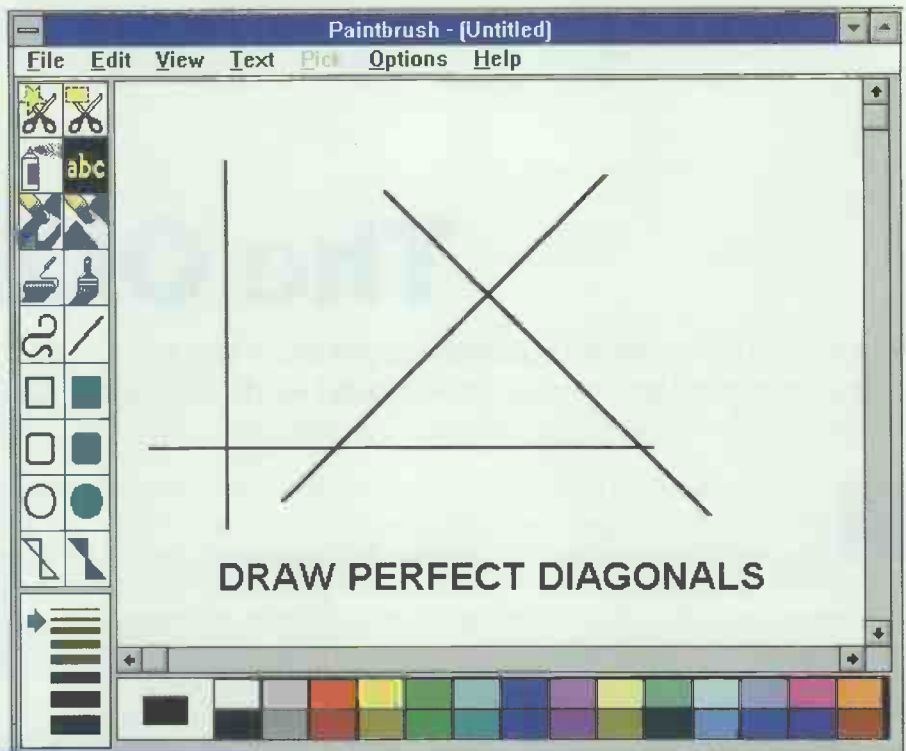
Right Once you register a REG file, you should get a message saying that the registration was successful

Paintbrush tips

Let's face it, there are more powerful Paint programs than Paintbrush, but it's there, free, and many people use it. Here are two useful tips.

1. To draw lines in Paintbrush that snap to 45-degree increments, select the line tool (not the brush), then hold down the Shift key and draw. You'll only be able to draw vertical, horizontal and diagonal lines, but it's a useful thing to know (it saves you struggling to keep the mouse still!). The technique also works with other drawing tools. To restrict yourself to vertical and horizontal lines, select the brush tool instead of the line tool.

2. If printouts from full-screen Paintbrush images turn out to be miniature versions of the actual image (just a couple of inches or so), you have the Printer Resolution checkbox selected in the File Print dialog box. This makes Paintbrush translate pixels on the screen to dpi (dots per inch) on your printer. In other words, if your image is 640 x 480 and you're using an HP DeskJet that prints at 360dpi, your image will be printed at $640/360 \times 480/360 = 1.77 \times 1.33$ in. Although this



Above To draw perfect diagonal lines in Paintbrush, use the Shift-Key with the line tool

Left Uncheck the Use Printer resolution box if you are getting minute printouts

setting will give you printouts with the highest resolution (no jagged edges), you will need to work with very large image sizes to print reasonable size images (1,800 x 1,800 pixels for a 5in x 5in print on a printer with a 360dpi resolution). Images at this size or above may be unmanageable if you don't have lots of RAM; in these cases, you need to work with the Printer Resolution checkbox turned off.

the REG.DAT file displayed in File Manager. When it is, execute the next step.

5. In File Manager, select the REG.DAT file found in the Windows program directory, then choose Associate from the File menu. Associate files with extensions DAT and REG with REGEDIT.EXE. When you removed the old REG.DAT file, you also removed your file associations list, therefore you have to choose REGEDIT.EXE using the Browse button.

6. Exit and restart Windows. After you have created a new REG.DAT file or restored the defaults, use the following steps to renew the list of applications in the Associate dialog box:

- In File Manager, choose Run from the File menu.
- In the dialog box, type the following line:

```
regedit /u c:\windows\system\setup.reg
```

■ Rebuilding the REG.DAT file for other applications:

For applications other than the Windows-based programs included with Windows 3.1, the technique varies for rebuilding REG.DAT. Some applications rebuild their entries each time the application is started. Others may register themselves only during their setup processes.

If the application includes a REG file, you can add that information to the registration database in one of three ways.

- Choose Merge Registration File from the File menu in the Registration Information Editor, then select the .REG file for the application to be added to the database and choose OK.
- Use the same steps described above, substituting the name of the .REG file. Otherwise, consult the application's

documentation, or contact the vendor of the software for more information about rebuilding the REG.DAT file.

3. Run Windows File Manager and double-click the application's .REG file.

If you need to rebuild the registration database for all your applications, use the following steps:

- From the File menu in File Manager, choose Search.
- Search for *.REG from C:\. Ensure that the Search All Sub-directories checkbox is selected before you choose OK.
- Run SETUP.REG by double-clicking the file icon, or highlight it and press ENTER.
- Run every other .REG file brought up by the File Manager search.

So, a Happy New Year to all our readers, and no (or at least, very few) General Protection Faults!

Questions & Answers

Q My Windows 3.11 system seems to be falling apart! It started a week or two ago when I found it impossible to launch applications by clicking on an associated file in File Manager. Since then, I have encountered the following:

1. CorelDraw 3: Each time I create/edit an object I get the message "Error while performing an OLE request", although when I acknowledge this message, it allows me to continue.
2. PhotoFinish: I cannot launch this. I get the error message "OLE Instance Init failed — please re-install program".
3. Picture Publisher: Will not launch and there is no error message.
4. WordStar version 2/Quattro Pro version 6: When I update spreadsheet data which has a link to a WordStar document, I get the error message "Internal WSWin Error" followed by "Fatal Error 600e".

I am beginning to see a pattern emerge — OLE problems — but have no idea how to correct them. Would it be best to re-install Windows? And if so, will it re-install over what is already there, or do I have to uninstall it first?

Paul Cunliffe

Paul@sischem.telme.com

A In terms of clearing whatever is "bad" in your installation, yes, your best bet is to make a fresh start and re-install Windows and all your applications, having first deleted what is there. This takes time, but if you are only using the applications mentioned above, it should not take you more than a couple of hours.

There may be other ways to fix the problem but you could spend a lot longer trying — and possibly failing. But remember, before you begin, make sure that you have backed up your data.

However, there is one seemingly major problem which can be fixed with a repair job as opposed to a full re-installation of Windows: in the main body of our column we have covered what you can do when you encounter corrupted registration files.

Q I have a 386/33SX with 8Mb RAM and a 1Mb SVGA Trident card running in full-resolution 256-colour without problems under DOS 6.2.

I have recently attempted to run

SVGA via the Windows Setup, only to find corrupted displays above 16-colour VGA.

I had Trident drivers T800C and T1024C installed and have recently downloaded the latest drivers from Trident for my T8900CL board, but the problem remains.

I have decompressed my drive, re-installed Windows and it is still the same. Is this a memory conflict or a missing SYSTEM.INI instruction?

Carolinel@ AOL.COM

A A problem of this kind is documented for the Windows 3.11 SVGA driver and Trident 1 MG cards, but it refers to when switching from an MSDOS full-screen mode to window mode using the Alt-Return keys. The solution is to update to newer drivers — the specific Trident driver that corrects this has a date of February 1994.

You can also try the general SVGA drivers supplied by Microsoft in the Windows Driver List (WDL) available from the Microsoft web site. The relevant file is SVGA.EXE. This supports most non-accelerated SVGA display types at 640 x 480 in 256 colours, and 800 x 600 and 1024 x 768 in 256 colours using either Small or Large fonts (five settings in total).

Your card — the Trident 8900C series — is included in the supported list. However, it is more than likely that your problem may stem from a memory conflict. Some graphics cards use additional memory to enhance performance. Windows detects most of these cards and automatically excludes the additional memory. But if it does not, you can add the line below to the [386enh] section of SYSTEM.INI:

```
emmexclude=C400-C7FF
```

This prevents Windows from scanning the addresses C800:0000 through CFFF:000F — the block that some VGA cards use to enhance performance. If you don't want to exclude the *whole* memory block, your card's manual should show what does need to be excluded.

PCW Contacts

If you have any queries or Win3.1-related topics to discuss, contact Panicos Georgiades and Gabriel Jacobs at Win3@pcw.co.uk

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Trouble comes in **threes**

The three setup disks Andrew Ward has created are causing him trouble with NT installation, but help is at hand for this as well as problems you may have with the WinNT/95 registry.

It seems that whenever I try to install Windows NT, I get problems. One of the most persistent troubles I encounter is the error message: "Setup is unable to locate the hard drive partition prepared by the MS-DOS portion of Setup". Like most of my problems, this one is of my own making. Specifically, it's the three setup disks that I've created from the CD-ROM by using the `winnt32 /o` command.

The reason I have to make the disks is because I am often given the CD-ROM for Windows NT only, rather than the complete kit including floppies. Fortunately, once you know what is the reason for the error message it's straightforward to fix.

When you run `winnt32 /o` to create the three setup disks, a file called WINNT.SIF is made that tells setup the location of the temporary files on your hard disk. Of course, if you then use these floppies on another system (which is what I do), those temporary files won't be there.

The answer is to delete the file WINNT.SIF from disk 2 of the three-disk set. Alternatively, if you create the floppies using `winnt32 /ox`, you shouldn't have the problem in the first place.

Setup is the cause of problems to many people, not just myself. Microsoft has recognised this and has provided a troubleshooting guide for setup problems on its web site at www.eu.microsoft.com/support/tshoot/ntsetup.HTM.

This troubleshooting guide is fairly tedious to work through — it's a step-by-step questionnaire. Consequently it takes up a lot of online time, but it is nevertheless very thorough and it has worked for me. For any setup problems that you encounter, I would advise you to take a look.

And while on the subject of setup, I have here a newly-assembled server happily running Windows NT 4.0. The other day I received the beta of Windows NT 5 and naturally wanted to have a go at installing it. Setup hardly gets anywhere before it reports that it cannot find the CD-ROM drive. Well, excuse me, but it's right there inside the machine and if NT 4 can find it, I don't see why NT 5 can't.

If I ever do get this sorted out, I'll let you know. For the time being, I've just copied the files to the hard drive and am trying to install from there: setup still fails halfway through, though.

Playing the game

Now for a bit of light relief. More and more people are moving to Windows NT 4, and one of the topics that readers bring up with increasing frequency is games. The most recent message was from Darren Long who has sensibly written off his trashed Windows 95 installation and moved to NT 4 instead, but now wants to know what games will run.

I am pleased to report that the answer is, plenty. An increasing number of modern games will run happily under NT 4 — those that will not are becoming the exception. For myself, I have used *Quake* for some time under NT and it runs absolutely fine.

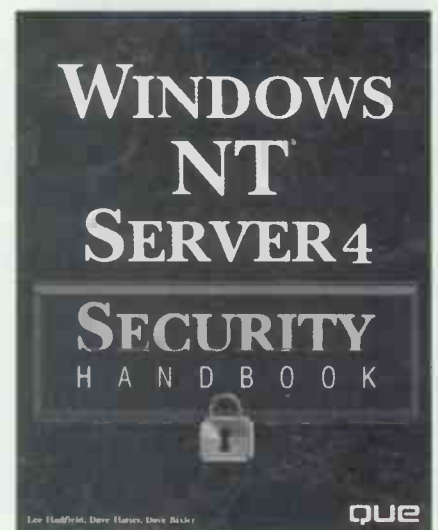
Other new games that will run without special treatment are *Doom II* for Windows 95, *Ultimate Doom* for Windows 95, and *Obsidian*. Many other games will run too, although some might need the odd tweak.

Really, the best thing I can do is to refer you to the web page, Dave's "Games under NT4", where you will find a list of which games do and do not run and links to many of the games themselves, as well as details

of any special instructions you need to follow to get them to work. Dave deserves a great deal of praise for his unstinting work on behalf of Windows NT games enthusiasts. www.cris.com/~Dstaines/nt40games/.

Security

Although it contains much useful information, I'm not sure that I'm entirely happy with the *Windows NT Server 4 Security Handbook*. There is plenty of detail on the security features of Windows NT 4



Security is a must. What does Windows NT 4 offer, and does this book cover the issues?

and how to use them, but not much about the more important issue of the security policies and procedures for which the technical knowledge is necessary.

Today, corporate data needs to be treated as importantly as any other asset — for some organisations, it is the most important asset — and you need someone

at board level to take responsibility for it. The next step is to carry out a risk assessment and then devise a security policy commensurate with that risk. There will always be security breaches, but you design your security policy to minimise the impact. It is not appropriate for the total responsibility of designing a security policy to rest with the intended audience of this book.

Having had my moan, I'll return to the book. It is comprehensive and points out a number of undocumented or frequently overlooked security holes. For someone who is implementing a security policy, or providing technical advice on what is and isn't possible, this is a useful aid.

Particularly useful are the sections which explain how things actually work, such as the challenge/response network authentication sequence. There are also clear flowcharts showing the way authentication is carried out for remote resources, and how share permissions combine with NTFS permissions to control access to directories. In fact, the diagrams are one of the nice features of this book.

Returning briefly to the (still-unsolved) problem of automatically creating individual directories with the appropriate permissions, this book does address the issue but glibly states that: "User Manager for Domains automatically... assigns the appropriate permissions". I wish.

Finally, it's worth pointing out that Service Pack 3 and subsequent patches tightened up many security areas of Windows NT 4, so some of the information in this book will now be out of date.

Resource Kit Supplement 2

The Windows NT Server Resource Kit Version 4.0 Supplement 2, to give it its full title, is a two CD-ROM kit — there are no books included. Although you can use this

supplement on its own, it is intended as an upgrade for those who already have the original Resource Kit and you will get more value from it by first buying the full kit. The Resource Kit is pretty much essential reading, as it is to all intents and purposes the full manual for Windows NT.

One CD-ROM contains an updated version of the Resource Kit standard suite of software. It includes 14 new tools, one of these being reg.exe, a command-line registry manipulation utility that actually replaces eight previous utilities. The Service Monitor monitors services on both local and remote machines, and can even send Exchange an email or paging signal when a service starts or stops.

The other CD-ROM contains a February 1997 copy of TechNet which includes quite a lot of useful material including, oddly enough, the full text of the Windows NT 4.0 Resource Kit (both Server and Workstation). Additionally, there is the Windows 95 Resource Kit text and lots of technical information on BackOffice, MS Office and desktop applications.

Dependency viewer

One of the more interesting new utilities is the dependency viewer. Any NT user will find this helpful and it will also be useful to developers and those working in support departments. Using recursive scanning, the viewer shows a complete module-dependency tree diagram of the modules needed by an application.

It also shows two other types of information. For each module, it displays a list of all functions exported by that module (whether by name, ordinal or forwarding). Conversely, it shows all functions within a module that are actually called by other modules. Hence, it can be used to identify the minimum set of files you need for an application to run, to help understand why a particular module is loaded with a particular DLL and to resolve "dynamic link library could not be found" errors.

The scanning procedure will detect files that are missing, corrupt, or non Win32 compliant. It will also check that all functions imported to one module are actually exported from the dependent modules, thereby highlighting those problems that give rise to "the procedure entry point could not be located in the dynamic link library" errors. The time saved on chasing one DLL problem alone would justify the £46.99 price of this upgrade.

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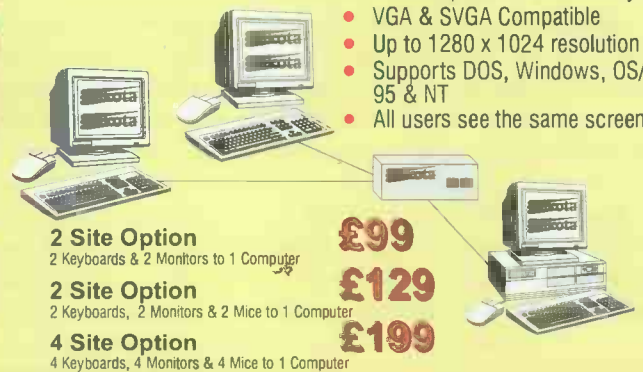
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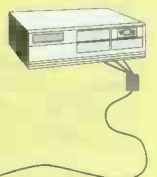
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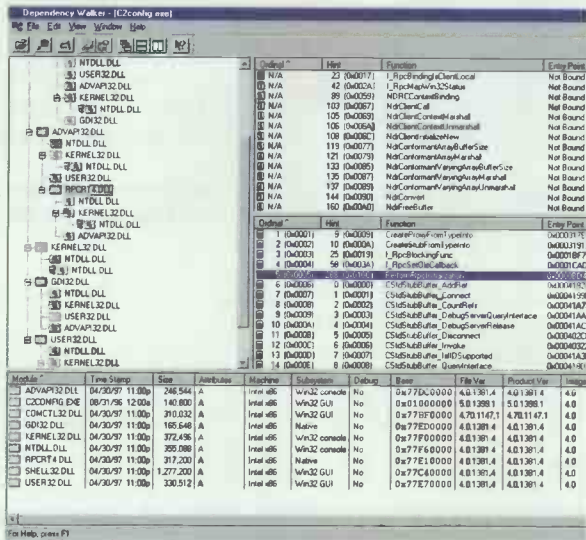
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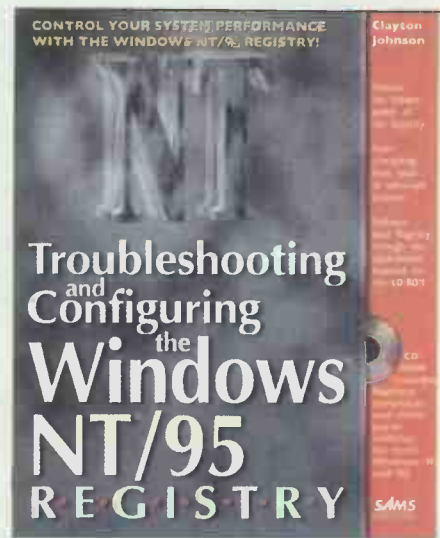
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Left If you have ever had a DLL problem, this dependency viewer in the resource update is a must

themselves, and there is a valuable section on how to protect the NT registry and recover from a registry failure. A clear chart shows the differences between the capabilities of REGEDT32.EXE and REGEDIT.EXE. Additionally, there is a comprehensive section on using the system policy editor. The book



Filewise

Filewise shows file version information, for an individual file or for all files within a folder. You can get at this information in other ways, but it's particularly convenient to be able to display it in tabular form for several files. You get pretty much the information you'd expect, like time and date, version, product version, language, operating system and hints on ISO 9660 compliance.

File Path	File Name	Ext	Size	Date	Time	File Version	Product Version	Language	OS	Type	File Flags	Chk-32
C:\WINNT\System32\... \clbcatq.dll	clbcatq	dll	105168	18/03/97	13:29	0.0.0.0	0.0.0.0	0000	0400	0400	VOS_UNKDOWN	VFI_UNKDOWN
C:\WINNT\System32\... \clbcatq.q	clbcatq	q	119448	24/02/97	13:30	4.79.0.1516	4.79.0.1516	0000	0400	0400	VOS_DOS_WIND	VFI_APP
C:\WINNT\System32\... \clbcatq.hlp	clbcatq	hlp	54883	15/08/97	12:49	0.0.0.0	0.0.0.0	0000	0000	0000	VOS_UNKDOWN	VFI_UNKDOWN
C:\WINNT\System32\... \clbcatq.mde	clbcatq	mde	254263	03/08/96	09:00	0.0.0.0	0.0.0.0	0000	0000	0000	VOS_UNKDOWN	VFI_UNKDOWN
C:\WINNT\System32\... \clbcatq.psd	clbcatq	psd	14532	03/08/96	09:00	0.0.0.0	0.0.0.0	0000	0000	0000	VOS_UNKDOWN	VFI_UNKDOWN
C:\WINNT\System32\... \clbcatq.rtf	clbcatq	rtf	786	03/08/96	09:00	0.0.0.0	0.0.0.0	0000	0000	0000	VOS_UNKDOWN	VFI_UNKDOWN
C:\WINNT\System32\... \clbcatq.tst	clbcatq	tst	52937	03/08/96	09:00	0.0.0.0	0.0.0.0	0000	0000	0000	VOS_UNKDOWN	VFI_UNKDOWN
C:\WINNT\System32\... \clbcatq.wch	clbcatq	wch	6205	03/08/96	09:00	0.0.0.0	0.0.0.0	0000	0000	0000	VOS_UNKDOWN	VFI_UNKDOWN

The Filewise viewer shows version information for files

And don't forget that one of the most useful features of any Resource Kit Supplement is the updated regentry.hlp file which gives up-to-date information on NT registry keys.

Windows NT/95 Registry troubleshooting

As we're on the subject of the registry, the new SAMS book *Troubleshooting and Configuring the Windows NT/95 Registry* is worth a brief mention. A great many problems can be solved by fiddling around in the registry, but unless you know what to look for it's difficult to know where to start.

The file regentry.hlp, referred to above, is great but it's fairly unstructured information. On the other hand, this book gives practical advice such as how to tweak the registry to get a Windows NT 3.51 modem driver working with Windows NT 4.

Registry security and auditing gets plenty of treatment, as well as the registry keys

includes a CD which contains a variety of utilities, including a registry search tool.

Zip it up

Here is a flashback to Zip drives, and some helpful comments from reader, Peter Edgley, who has found a much better way of adding a Zip drive to an NT system without having to go through all that palaver of fiddling around with drive letters and the

rebooting that's involved. In his particular case, the system has two hard drives, an EIDE

drive (C:) and a SCSI drive (which is assigned letters D:, E: and F:). The SCSI drive is connected to that old favourite, the Adaptec AH1742A. (I'm still using one of those, for various peripherals like CD-ROM drive, tape drive and scanner.)

One of the features of this and many other SCSI controllers is that there's an external connector provided (in my case, this is where I plug in the scanner). Peter says that by far the easiest way to implement a Zip drive under NT is to obtain the SCSI version and plug it into this port. Just as any other SCSI device would be, the Zip drive is assigned the next available drive letter (G:, in Peter's case). What's more, the drive then works straight from Windows NT — Peter hasn't even touched the utility disk that came with it.

OK, this solution does mean you have to pay a bit more for the SCSI version of the Zip, but it's just so much easier and I can see why Peter is keen on it. He has

discovered just two minor drawbacks. The first is a costly adapter to connect the Zip drive to the connector on the Adaptec controller, and the second is that the CD-ROM drive letter (but fortunately not the hard drive letters) can move depending on the SCSI addresses you use.

Peter recommends always fixing the CD-ROM drive letter at R: (wouldn't this make life so much easier if everyone did it?) so it will never have to move again. I would go further and suggest a scheme for fixing tape, hard drive and CD-ROM drives at specific SCSI addresses, such as 6, 0-3 and 4 respectively. That leaves 5 clear for the Zip drive if you have one and should not upset the CD-ROM.

Accent Composer

Accent Composer, the accented characters utility I mentioned last month, is on our cover-mounted CD this month. The evaluation version is valid for 30 days, after which you need to register. Contact: Dr Warren Kovach, Kovach Computing Services, 85 Nant-y-Felin, Pentraeth, Isle of Anglesey LL75 8UY.

PCW Contacts

Andrew Ward can be contacted at NT@pcw.co.uk or write to him at the usual PCW address (see page 12).

All books are available from Computer Manuals 0121 706 6000 www.compman.co.uk/
 • Microsoft Windows NT4 Server Resource Kit Supplement (two CDs) Microsoft Press, £46.99; reference 285570
 • *Troubleshooting & Configuring the Windows NT/95 Registry Book/CD Package* SAMS, £46.95; reference 274951
 • *Windows NT Server 4 Security Handbook* Que, £36.99.



ReWrite CD History with PHILIPS 2x 2x 6x ReWritable CD Recorders

The Philips CDD3600/3610 operates with all major computing systems including Windows NT, Windows 95 and MAC platforms and is available in either SCSI (CDD3600) or E-IDE (CDD3610) versions. As well as CD UDF, the Philips CDD3600/3610 supports TAO (Track At Once) DAO (Disc At Once) and MS (Multi-Session) writing modes and all CD formats including CD Audio, CD-ROM, CD-Bridge, CD-i and Video-CD. CD UDF also creates a bridge between the ISO 9660 layout of CD-ROM discs and the UDF file format selected for DVD media. With the Philips CDD3600/3610 and Adaptec Direct CD 2.0 software, files can be added and deleted to a CD-RW, behaving very much like a large floppy disc or removable hard drive with a 650MB capacity.

Philips CDD3610 Int E-IDE Re-Writable CD 2x 2x 6x, Easy CD Pra & Direct CD	£259	£304.33
Philips CDD3610 Int with software as above & 1 CD-RW, 1 CDR (as pictured above)	£271	£318.43

RICOH - The World's first 2x 2x 6x ReWritable SCSI CD Recorder



The versatile MP6200S drive handles CD-ROM, CD-R and CD-RW (CD Re-Writable) discs writing at 2x, re-writing at 2x and play back at 6x. You can use the drive with low cost, once written, then only readable CD-Rs for valuable data such as official documents archive data or research documents. Alternatively and here comes the breakthrough, you can also use the drive for use with slightly more expensive CD-RW discs that can be erased and re-written time and time again, ideal for backing up your data or in any application where you may want to re-use the CD.

Ricoh MP6200S Int SCSI Re-Writable CD 2x 2x 6x, Direct CD (Full kit pictured above is priced below)	£261	£306.68
Ricoh CDRW-PK1 MP6200S Int, EasyCD, MediaStudio, 1520 SCSI Card, Cable, 1 CD-RW, 1 CDR	£333	£391.28



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Philips DRD5200 ATAPI Internal Drive 2x DVD-ROM, 24x CD-ROM	£181	£212.68
Philips DRD5200S SCSI Internal Drive 2x DVD-ROM, 24x CD-ROM	TBA	

Budget Priced SONY & YAMAHA CD Recorders

If you just want to be able to record CD-Rs and not CD-RWs then the following budget priced Yamaha or Sony CD Recorders are going to be ideal. With a choice of up to 2x record 8x play from Sony and 4x record 6x play from Yamaha there's a CD recorder to fit most needs.

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Sony CDU-928E Int E-IDE CD Recorder 2x 8x, FS Software	£174	£204.45
YAMAHA 4X 6X SCSI CD RECORDERS		
Yamaha CDR400T Int SCSI CD Recorder 4x 6x, bare drive	£255	£299.63
Yamaha CDR400T Int SCSI CD Recorder 4x 6x, WinOnCD 3.5(OEM) & Packet CD	£275	£323.13
Yamaha CDR400T Int as above with software, SCSI Card, Cable, 1 CDR	£318	£373.65



FROM
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So if you need to produce a CD-R in a hurry Yamaha is the name.

Yamaha CRW4001T Int E-IDE 4x 2x 6x, bare drive	£352	£413.60
Yamaha CDR4001T Int as above with 1 CD-RW, 1 CD-R (pictured above)	£382	£448.85
Yamaha CRW4260T Int SCSI 4x 2x 6x, WinOnCD 3.5 & Packet CD	£377	£442.98
Yamaha CRW4260T Int as above with 1 CD-RW, 1 CD-R	£386	£453.55

HP SureStore CD-Writer Plus 2x 2x 6x ReWritable E-IDE CD Recorder



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+ VAT

CD-Writer Plus gives you a choice. You can use versatile CD-RW media. Think of it as a high capacity, durable floppy. Write, update, erase and rewrite up to 650 MB of data on a single CD up to 1000 times per sector per disc. Or make your CDs an CD-R media. Create permanent archives of all your critical data with the assurance that the data is secure for up to 100 years. Or create CDs that can play in millions of CD-ROM and Audio CD players worldwide.

HP SureStor 7100i Int E-IDE Re-Writable CD 2x 2x 6x, Easy CD Pra/Direct CD, 1 x CD-RW	£248	£291.40
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CD REVOLUTION PC BASED CD-R & CD-RW DUPLICATORS

The CD Revolution CDR Duplicator is a powerful and attractively priced Intel Pentium II based PC system which incorporates Yamaha CDR400 4x 6x CD Recorders or Ricoh MP6200S 2x 2x 6x Rewritable CD Recorders, combined with the power of Padus Discluggler software.

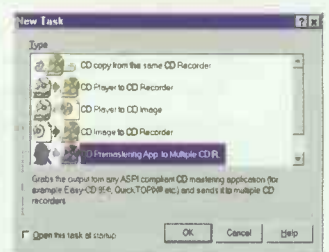
Discluggler Supported CD formats:

Audio CD, Data CD (CD-ROM, Yellow Book Mode 1), Data CD (XA format), Mixed mode CD (Data + Audio), CD Bridge/format CD (Photo CD, Video CD), Multisession CDs (Enhanced CD, Blue Book), Sony PlayStation and Sega Saturn CDs.

- Discluggler Software Features** (available separately)
- Direct digital-to-digital copying of Compact Disc over the SCSI bus, "on-the-fly" or cached to hard disk.
 - Support for the following CD Duplication tasks, Copy CD-Rom directly to CD Recorder, Copy CD-Rom to CD Image file to CD Recorder
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 - Disc At Once and Track At Once recording
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regeneration of error correction and detection fields and data scrambling

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CDR Duplicator (JMR lockable case) (4)4x CDR400, P233II MMX, 32MB, 4GB HDD, 15" mon, NT4	£3,821	£4,489.68
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CDR Duplicator (JMR lockable case) (4)4x MP6200S, P233II MMX, 32MB, 4GB HDD, 15" mon, NT4	£3,953	£4,644.78
CDR Duplicator (full tower case) (4)4x MP6200S, P233II MMX, 32MB, 4GB HDD, 15" mon, NT4	£3,477	£4,085.48



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Philips Label CD-RW, 74 mins 650MB, 10 to 50 - price each	£11.92	£14.01
Ricoh Label CD-RW, 74 mins 650MB, 10 to 50 - price each	£12.01	£14.11
Unbranded CD-R, 74 mins 650MB, 100 to 250 - price each	£0.97	£1.14
Unbranded silver/blue CD-R, 74 mins 650MB, printable, 100 to 250 price each	£1.38	£1.62
Philips Label CD-R, 74 mins 650MB, 100 to 250 price each	£1.37	£1.61
TDK Label CD-R, 74 mins 650MB, 100 to 250 price each	£1.34	£1.57

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CDR Tower - SCSI with (5) 20x MultiRead CD-ROM Drives	£832	£977.60
CDR Tower - SCSI with (7) 20x MultiRead CD-ROM Drives	£1,086	£1,276.05
CDR Tower - Ethernet (7) 20x MultiRead CD-Drives, Axis StorPoint (no software needed)	£1,667	£1,958.73
CDR Tower - Token Ring (7) 20x MultiRead CD-Drives, Axis StorPoint (no software needed)	£1,828	£2,147.90
CDR Tower - SCSI with (14) 20x MultiRead CD-Drives (requires Adaptec 3940 in PC)	£2,036	£2,392.30
CDR Tower - Ethernet (14) 20x MultiRead CD-Drives, Axis StorPoint (no software needed)	£2,721	£3,197.18



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- Sony CDU611 24x ATAPI MultiRead CD-ROM Drive
- Matrox MGA Mystique 220 2MB SGRAM
- 16-bit Sound Blaster Card and Yamaha YSTM15 Speakers
- ATX Case with 200W PSU
- 15" Iiyama MT-8617E High Resolution Colour Monitor (The monitor pictured is a 17" Iiyama)
- Professional Keyboard & MS Ergonomic Mouse + Windows 95

Rewritable CD PC with Intel 233MHz Pentium II MMX Processor	£1,308	£1,536.90
Rewritable CD PC with Intel 266MHz Pentium II Processor	£1,552	£1,823.60
Rewritable CD PC with Intel 300MHz Pentium II Processor	£1,602	£1,882.35

External CD Recorders with HDDs



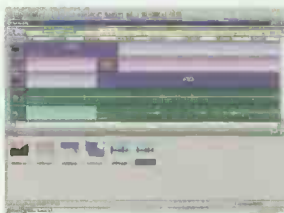
Storage Micro Tower with integral SCSI CD Recorder/Rewritable CD Recorder and SCSI Hard Drive.

The CD Revolution Storage Micro Tower is an external mains powered system which includes a choice of CD Recorder or ReWritable CD Recorder along with a choice of fast SCSI hard drive with a

storage capacity of 2, 4 or 9GB. It connects to a PC or Mac via a single SCSI cable and comes complete with CD recording & packet writing software as below for PC users or Toast CD recording software for Mac users.

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Ricoh MP6200S 2x 2x 6x & 4.3GB SCSI HDD in ext case, Gear RW/Direct CD	£674	£791.95
Ricoh MP6200S 2x 2x 6x & 9.1GB SCSI HDD in ext case, Gear RW/Direct CD	£1,119	£1,314.83
Yamaha CDR400T 4x 6x & 2.1GB SCSI HDD in ext case, WinOnCD 3(OEM)/Pk-CD	£577	£677.98
Yamaha CDR400T 4x 6x & 4.3GB SCSI HDD in ext case, WinOnCD 3(OEM)/Pk-CD	£668	£784.90
Yamaha CDR400T 4x 6x & 9.1GB SCSI HDD in ext case, WinOnCD 3(OEM)/Pk-CD	£1,113	£1,307.78

DPS SPARK DIGITAL VIDEO PROCESSING with Adaptec Firewire



DPS Spark DV-3000 is a broadcast quality DV editing system, designed for use with a digital video feed from new generation consumer and professional DV camera's. PC connection is made via Adaptec's new Firewire interface.

For users of tradition analogue output video

cameras DPS offer Edit Bay. Both systems come complete with VideoAction editing software.

DPS Spark DV-3000 (full version) - PAL DV Processing/Editing, Adaptec Firewire, VideoAction	£575	£675.63
DPS Edit Bay - PAL S-Video/Component Processing/Editing, VideoAction Pro (PC)	£625	£734.38



PIONEER DVD RECORDER & ELEKTROSON SOFTWARE



Before you get too excited we do not have this product in stock yet but as soon as it's available we will be amongst the first.

However, you can see from the software price that this product is only going to be for the serious user!

THE FUTURE COMING SOON!



/ 1.32 MB/s ● Recording Method - Disc-Once

Pioneer DVR-S101 External SCSI DVD-Recorder	TBA	
Elektroson Gear DVD 1.0 for Win95/NT 4.0	£2,017	£2,369.98

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PTT Approvals





Running hot and cold

After a disappointing initial experience with ISDN, Chris Bidmead has now found an affordable router to speed up connections. Plus, the wise giants of Linux have their say.

Round about this time last year I was boasting to you about having had an ISDN line installed, and the increase in speed it brought to my internet access... Well, mostly just about having the line installed, because if the truth be told, the speed increase over ordinary phone dialup wasn't that great.

There was *some* reduction in the time it took to connect, but I wasn't seeing anything like the theoretical two seconds connection time. My ISDN terminal adapter (TA) was connected via a serial line into one

of my workstations, on which I'd have to run a dialup app which would trigger my ppp daemon, which would then tickle the TA into action, and I'd get a connection in about 20 seconds.

During connection, all the packets would have to go through the somewhat sluggish ppp daemon on my NeXT machine, and along the serial wire, which can be a bottleneck at these kind of speeds. Yes, it was still faster than a 33Kbps modem, but frankly not much and nowhere near the theoretical rate of 64Kbps for my ISDN line.

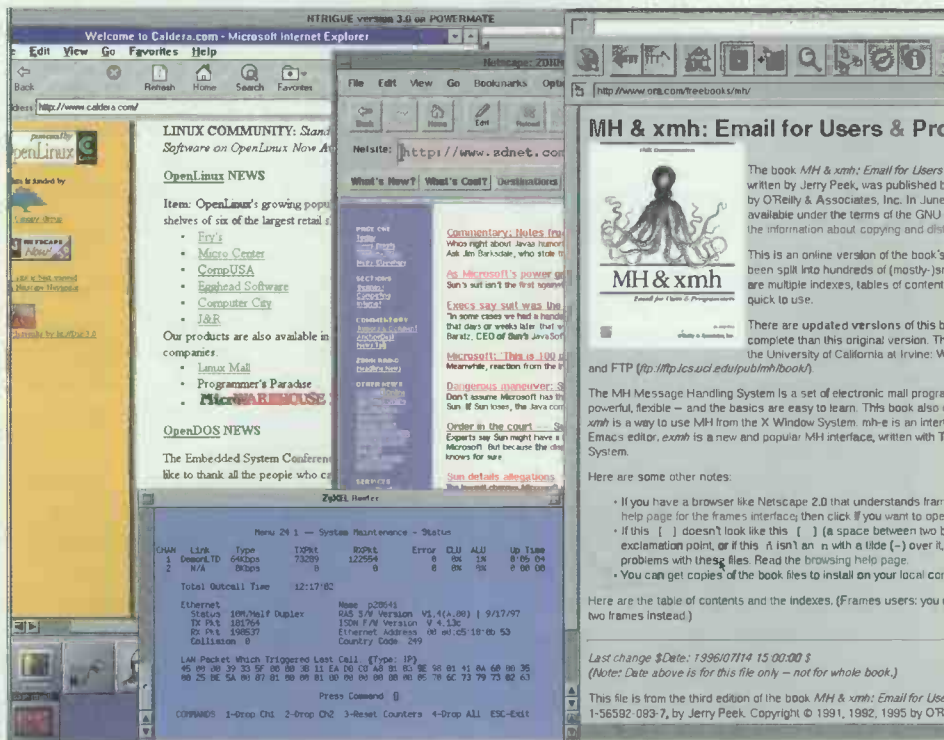
The reason I'm putting all this in the past tense is that I've just installed a new gizmo which changes everything. It makes me feel like someone who's been boasting about having a mains water supply installed and has been taking friends down to the end of the garden to see the tap sticking out of the ground. It's called an ISDN router. It's a class of product that has been around for several years, but what's new is the price, which brings it within reach of the ordinary user. This one comes from the Taiwanese company ZyXEL, and is distributed in the UK by P&L Systems.

I'll tell you more about the router next month. In the meantime I'll just round off the rather crude "mains water" analogy by saying that I now have hot and cold running water throughout the house. (See the screenshot, left, for further clues.)

Up and running

I can't say I always enjoy helping readers through their installation problems (read all the relevant HOWTOs at www.caldera.com/LDP/HOWTO/HOWTO.index), but there's a lot of satisfaction when, after a series of letters, I receive correspondence saying: "I'm up and running." To add to the fun, this can be a multi-stage process: "Great, I'm up and running... but now I need to install X." And then: "Thanks, Chris, I have a complete Unix system... Now help me set up my ppp connection to my provider."

Microsoft and Mac users who read this column to find out what's happening on the other side of the fence are welcome, and I'm keen



I couldn't resist showing off. Here are three different browsers running on three different machines (Netscape and Microsoft Explorer are X Windows, on the Apricot LS550 and the NEC PowerMate respectively, and my NeXT machine which is running its own OmniWeb browser). The browsers are all live, each with their own set of TCP/IP connections to the ZyXEL router which in turn connects them to the 64Kbps ISDN line to my service provider

Chris's question time: Finding your way

Q Chris, I'm lost. I have a working Linux system, but I've no idea what programs are available on it, or where to find important files.

A That's OK. We all start out feeling like that when coming to Unix from, say, the DOS world. It reminds me of the tribe of pygmies who had a habit of getting lost in the long grass. Here in the Unix world, the long grass is certainly very tall, but we don't just jump up and down in it; we sit on the shoulders of giants. And where do you find these giants? Where else, but right inside your Unix system. If you've been following my column, you'll have heard of the daemons in there; those

tireless slaves who take care of the grunt-work. But the wise giants are all in there, too, ready to give you a lift any time you want to wake them up.

If you find this personification of Unix rather twee, try to get used to it. As with the ancients, personification turns out to be a useful way of making sense of a complex world. Let's start with the command "man man": it evokes the manual page about the manual system. Read that, and you'll know how to find out about the whole Unix system and all the installed utilities — and the programming stuff, too. It will tell you how to use "man -k" or "apropos" (which means the same thing) to find

manual entries on everything relevant to a particular subject: booting, managing the keyboard, or whatever.

If finding files is your problem, "man find" will tell you all about the find command. This will find files, although its most important use is for delivering a qualified list of file names for you to do something else with, like feed into another command. But "man find" will also point you in the direction of the locate command, which uses a database for fast look-up of file locations. "Man locate" will tell you more about this, particularly how you maintain the file database, and will direct you to the Info chapter on Finding Files.

Bidmead's books: *UNIX Power Tools (2nd edition)*

Authors: Tim O'Reilly, Mike Loukides & Jerry Peek
Price: \$59.95
ISBN: 1-5659-2260-3
Publisher: O'Reilly

This second edition of the classic tome, first published in 1993, is a substantial revision of the original work, incorporating hundreds of readers' suggestions and corrections, and is now slanted more heavily towards the ubiquitous GNU flavours of Unix, including Linux. This toolkit of tips and tricks is a shapeless collection of short articles by a variety of authors. You'll search in vain for a narrative line or a personal philosophy.

It's big, too. Including the bundled CD-ROM of freeware source and binaries for the most common Unices, it weighs three and a half pounds and runs to over 1,000 pages! It's an unglamorous book which deals in the lowdown on the sometimes unlovely entrails of Unix, with tips on taming vi, backing up files with tar, and the messy nitty-gritty of file ownership flags. It tells you how and when to kill processes (and when not to). It contains valuable hints on improving your shell programming (avoiding the C Shell like the plague). It's also a sampler for other O'Reilly books, with extensive borrowings from O'Reilly's *Nutshell* range of handbooks.

If you don't care much about the real Unix that lurks under the veneer of X, this book is probably not for you. Neither will this be the right book if you're looking for a general overview of Unix. However, if you work regularly with the operating system and are ready for a fundamental seminar on, say, how files are connected to filenames, then this dumpy tome is the bible to turn to. As co-author Mike Loukides jokes: "The ability to mumble about inodes is the key to social success at a Unix gurus' cocktail party." This book is just such a cocktail party.



that as many readers as would like to should bring up their own live Unix systems. So if you're struggling with an intractable install, drop me an email and we'll fix it. For instance, there are some elementary installation queries which repeatedly crop up. The geometry of large hard drives is one of them (take a look at the BootPrompt HOWTO and the Large Disk mini-HOWTO).

Another old favourite is exemplified by reader Jonathan Murphy's query: "When accessing my drives, I can't get my CD-ROM to mount. Under Slackware it was

'mount /dev/hdd (dir to mount to)' but when I try this under Linux Pro it reads 'mount: /dev/hdd is not a block device /dev/hdd: No such device'.

I told Jonathan about "dmesg", a great installation diagnostic tool. It took me ages to discover it, but when you know about it life is a lot simpler. "Remember those initialisation messages that scroll up your screen too fast to read when you're booting up?" I wrote back. "Among them will be a line announcing that a probe has found (or perhaps not) your CD-ROM drive." That

message is probably the easiest way to discover the device name of your CD-ROM drive, which varies from system to system and from drive to drive.

If you're using Linux, Shift-PageUp will scroll the boot screen back to find it, as long as you do this as soon as the boot has completed. (The Caldera OpenLinux implementation offers a pause point in the install that suggests you do this.) But if you're like me, you won't notice that the CD-ROM drive is missing until you try to access it, and by then you've probably lost those initial screens out of the console buffer.

So how do you read these messages again? Simple — that's what the "dmesg" command is for. Read the dmesg manual pages. It was clear from the dmesg output that Jonathan's system wasn't finding the CD-ROM device, so I directed him to Jeff Tranter's CD-ROM HOWTO and suggested he take a look at the Modules HOWTO as well. Armed with those two documents he was able to install the CD-ROM with no further help from me.

Yes, it's all working fine, he wrote in his next email... except the most important thing: how do I connect to the internet?

I sent Jonathan back to the good old HOW-TOs, particularly the PPP-Client-HOWTO and Winfried Trumper's excellent PPP-over-minicom mini-HOWTO.

PCW Contacts

Email Chris Bidmead at unix@pcw.co.uk

ZyXEL ISDN router from P&L Systems
info@plsys.co.uk



Losing your bottle

Fed up with your server? Is it a bottleneck which slows up your system? Terence Green uncorks some options to alleviate matters. Plus, is it better to buy or build your own PC?

Having viewed Warp rumours at www.jmast.se/warpx/warpx.htm, reader Richard Avery wonders whether there is any other news of Warp 5. See the OS/2 columns in the March and April 97 issues of *PCW* for more details, but in summary, everything to do with Warp 5 seems to be going according to plan. The promised Java 1.1 update has arrived, new TCP/IP software for Warp Server is available, Netscape 4 is close to beta, and we're still waiting for SmartSuite for OS/2!

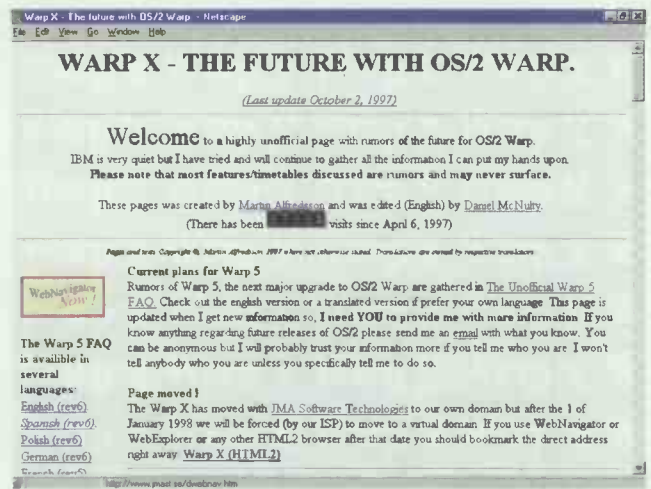
Having previously hedged my bets in consecutive columns with an each-way prediction on SMP support for the Warp client, I'd hazard a guess that Warp 5, client and server, will have a single SMP-enabled kernel. As for the rest, it will be improvements all round, much of it coming out as fixes, or Fix Packs. Recent Fix-Pack enhancements include improved drive support, a 32-bit CHKDSK, performance tuning, and a fix for a Warp 4 problem with DOS boxes hogging the system.

Rumours, news and any available information regarding Warp 5 can be found on the net

The SmartSuite for OS/2 Warp beta program is now under way. Perhaps we may see shipping product in 1998? Netscape Communicator for OS/2 will probably be in beta or shipping by the time this issue has been printed. You can check progress at <http://people.netscape.com/danda/index.html> which is home to one of the developers. Another source of information and comment on OS/2 Warp issues can be found in "Timur Tabi's Guide for New and Potential OS/2 Users" at www.os2ss.com/Information/NewUsers/

Tel's tips

- **Fix Packs for Warp 3 (31) and Warp 4 (3)** are at <ftp://ftp.software.ibm.com/ps/products/os2/fixes/warpx4/> while the Team OS/2 site at www.cincyteamos2.org/warpservice.html remains the best source of update and Fix Pack status.
- **If you're getting into Java programming** and using OS/2 you might want to have a look at InstallShield Java Edition from www.installshield.com. InstallShield Java Edition is a visual tool for developing single installation programs that run on all Java-enabled platforms.
- **Looking for a secure web server?** Get Lotus Domino Go Version 4.6 for OS/2 Warp from www.ics.raleigh.ibm.com/dominogowebserver/getos2.htm and tuning advice from www.software.ibm.com/os/warp/performance/os2gotip.html.
- **IBM has a new OS/2 Warp driver** for CD-ROMs which supports the Microsoft Joliet file system, mixed case and long filenames at http://service.software.ibm.com/os2ddpak/html/miscellb/os_2warp/updatedcd/.



In October, IBM announced TCP/IP 4.1 for Warp Server featuring enhanced Dynamic DNS support for faster, more secure intranets and OS/2 Warp, Windows 3.11, Windows 95, Mac and Windows NT clients. TCP/IP 4.1 for Warp Server includes a Java user interface. Administrators can log on to the network from any system. The Warp web page at www.software.ibm.com/os/warp will keep you up to date on these and other advances.

TCP/IP updates appear on IBM's software FTP site at <ftp://service.software.ibm.com/ps/products/tcpip/> in the */beta* sub-directory.

Message on a bottle

What to do when the server becomes the bottleneck? Intranets and web servers suck up CPU cycles and the Pentium Pro only supports four-way symmetric multi-processing. Current Pentium II systems are limited to dual processors.

Compaq solved the problem by buying Tandem's mid-range business, and then in

Vinca StandbyServer for OS/2 Warp - DataSheet - Netscape

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No manual intervention required

Document, Done

Standby your LAN. Vinca's high-availability system for Warp Server (see below)

September Intel bought Corollary and its eight-processor SMP design skills. If you're committed to server applications which only run on Windows NT, you're in a waiting game. But there are alternative options.

The new Warp Server for AS/400 can move an existing Warp Server file and print service on to an AS/400 application server. Huge overkill if you only need a faster PC, in which case the less expensive alternative would be the SMP upgrade for Warp Server Advanced and a four-way or eight-way SMP box. IBM, Intel and several others have used Corollary's eight-way systems.

Multiplatform software (Lotus Domino, Netscape servers and IBM software servers) runs on Windows NT, Warp Server and Unix platforms and reduces scalability constraints. Scalability and high-availability are often assumed to be the same thing; in fact, the former is about maintaining response times as the number of clients increases, while the latter is about ensuring continuous availability of the server for all clients.

Vinca Corporation's new StandbyServer for OS/2 is a high-availability solution for Warp Server. It adds an on-line secondary server which mirrors the primary server and takes over the load if the primary should fail.

Warp builder

Upgrading an ageing 486 system is a perennial concern. Is it better to buy from a major name, or to build your own? Several UK suppliers, such as Adams Technology and Elonex, offer OS/2 support, as do many

of the larger international PC manufacturers.

When it comes to single PCs it's really up to the individual whether to buy or build. Building your own can save money if you already have a number of basic components — but you need to feel comfortable about wielding a screwdriver inside your PC. Some prior research pays dividends, especially if it's carried out on the net since that's where you'll find the best ongoing OS/2 support.

Stick to mainstream components such as ATI, Matrox and Adaptec, and be prepared to reconfigure and re-install a few times until you get it right. If you have to mix plug-and-play and ISA components in the system it can get tricky, regardless of the operating system.

I have seen no evidence of incompatibility in current non-Intel CPUs, but I would use Intel simply because the price/performance difference doesn't favour AMD or Cyrix. Be wary of older CPUs. Mark Davies says his IBM Valuepoint with IBM Blue Lightning DX2 66 chip "does not let Warp shut down or reboot". Swapping the chip for an Intel 486/33 fixed the problem, which was then reproduced on the system into which the Blue Lightning was transferred.

PCW Contact

Terence Green can be contacted by post via the usual PCW address or by email at os2@pcw.co.uk

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Cyber-shop till you drop

Tim Nott gets on the net to download a basket of the latest add-ons and updates for Office and Word. Then it's time for some background bliss and controlling overactive scrolling.

We live in exciting times. There seems recently to have been a rash of add-ons and updates for Microsoft Office in general and Word in particular. Being in the unusual position of having an internet connection that was running at a decent speed the other day, I went shopping.

First on the list was the MS Office Service Release 1. This consists of a 7Mb self-extracting, self-installing patch, Sr1off97.exe, from www.microsoft.com/msoffice/. Do read all the information there before downloading, as different patches apply to different versions.

Although it's big, it's rather difficult to ascertain what exactly Sr1off97.exe contains. There are some improvements to Outlook and a snapshot add-on to Access, neither of which need detain us further, fortunately. The big news is the converter that saves DOC files in real Word 6/7 format, instead of RTF. But as I reported in my September column, this is already available for a mere 600Kb download. And despite having created a new Word executable for the various DLLs, it all seems much the same.

There were several things for which I had been hoping, but taking one at random (an update to the Windows QuickView utility to be able to cope with Word 97 files) resulted in the first of several disappointments.

Quick on the Draw

The next download was rather better. You may remember the MS Draw applet, a minimalist vector drawing applet that originally came with Word 2. If you don't, you haven't missed much. It only works as an OLE server, so you cannot run it on its own, and the facilities are very basic.

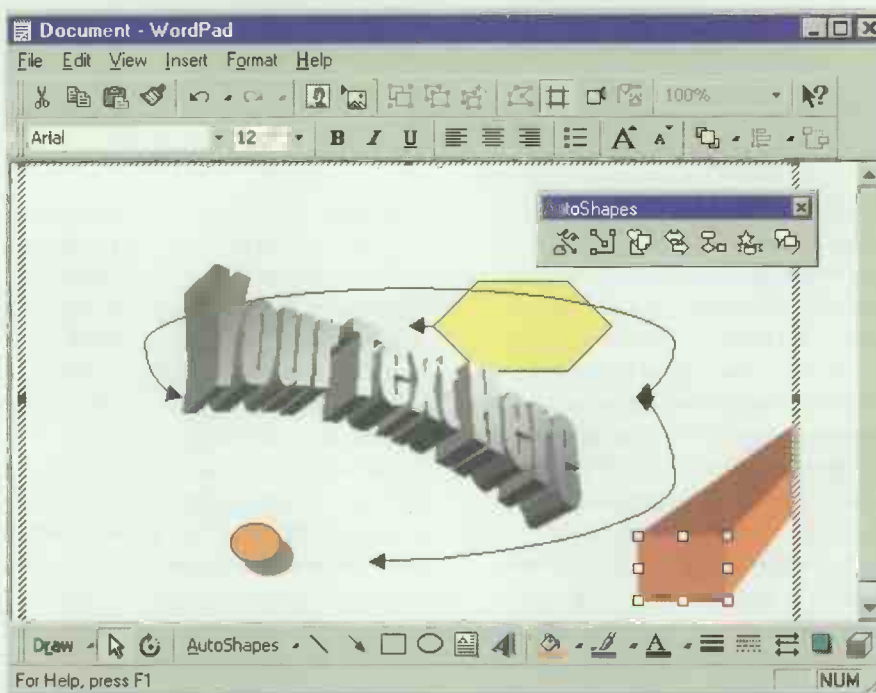


Fig 1 Drawing in Wordpad: At last it can be done, but only if you have Office

Nevertheless, it continues to ship with products such as MS Publisher 97, which I found rather a disappointment after having played with the wonderful drawing tools in Office 97.

The good news is that the Draw applet has been updated: it now provides all the Office drawing tools as well as some new ones of its own to any OLE-aware application. The new tools are connector lines — lines that stay attached to shapes as the latter are moved around, as seen in flowcharting or circuit-drawing applications — and there are a variety of rectilinear and curved ones with or without arrows.

The catch is that it's only available to Office 97 users — you have to fill in an electronic form giving your Office CD-ROM

key number before you are allowed to download Draw97.exe.

Toys and us

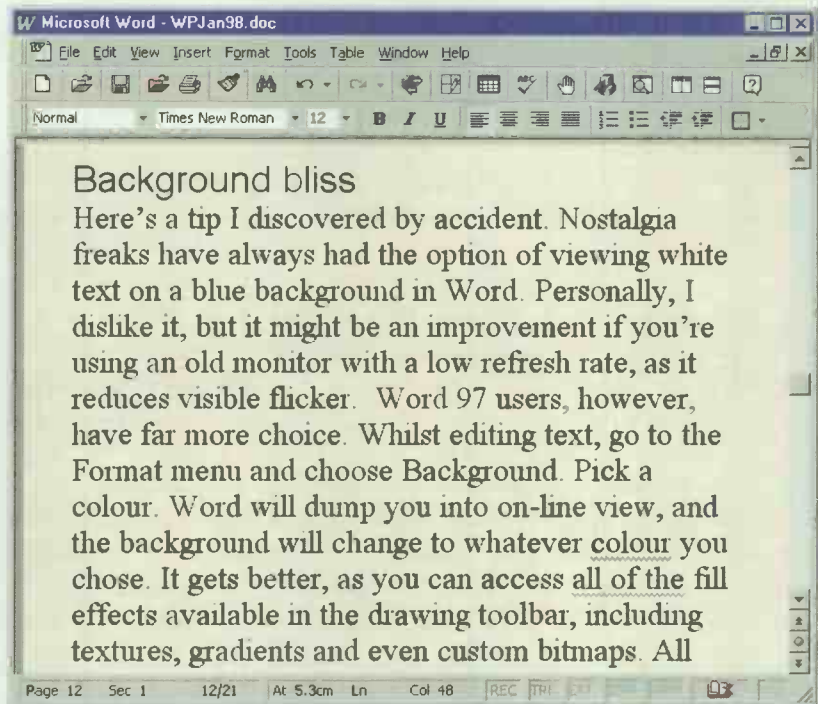
Third in the line isn't from Microsoft, or even the US, which is a refreshing change. Office Toys 97 comes from my adopted country, France, although it's all in English. You may remember a set of macros for Word 6 called Megaword. This added a raft of enhancements ranging from the supremely sensible, such as project and view managers, to the delightfully frivolous, such as a CD-player and bio-rhythm generator. Office Toys (which despite the title is all Word-related) comes from the same stable — Merlot International. This time, sad to relate, there is less frivolity, but the impact

Background bliss

■ Here is a tip I discovered by accident. Nostalgia freaks have always had the option of viewing white text on a blue background in Word. Personally, I dislike it, but it might be an improvement if you're using an old monitor with a low refresh rate, as it reduces visible flicker. But Word 97 users have far more choice.

While editing text, go to the Format menu and choose Background. Pick a colour. Word will dump you into online view and the background will change to whatever colour you chose. It gets better, because you can access all of the fill effects available in the drawing toolbar, including textures, gradients and even custom bitmaps.

All great fun, but there is a serious point to this. On one hand, I find it far more restful on the eye to have a non-white background when typing. On the other, I prefer a white background for other applications, especially graphics, so changing the global window colour from Control Panel isn't the answer. At the moment I'm using the parchment-like texture, and very restful it is too. It seems also to alleviate the scrolling problem (see below) because the overhead of displaying the bitmapped background slows down the scrolling speed.



Typing with a background — easier on the eye

on the Word environment is just as exuberant, with two new toolbars, two new menus and lots of additions to the existing menus. One thing that immediately endeared me to it was that the installation routine (Fig 2) stated exactly what files it was going to stick where.

Taking a lightning tour through the features, there are Managers for almost everything, including: viewing options, printing envelopes, setting up different users on the same Word installation, and tweaking a variety of Word options. The Navigator menu lets you group documents into projects, run Wizards and define a subset of your templates as "Favourites". It lets you create shortcuts to the current document elsewhere on your system and set a different location for backup copies. There's a new Style toolbar, which complements Word's "by example" drop-list with a cascading menu listing all the style parameters.

Then there's a tabbed palette of favourite symbols. There's Autopilot (Fig 3, p278) which can carry out 21 different commands as a batch process on a file, and there's a lot more, but you're going to have to wade through the 43-page user guide to find it, as I don't have room here.

Office Toys costs 240 francs, and there's an evaluation version you can try free for six weeks. Be warned that the registration reminder you get on startup changes to hourly after the first 15 days.

Office Toys didn't last that long for me because wonderful though it all is, there's little I actually need. But some might find just what they're looking for.

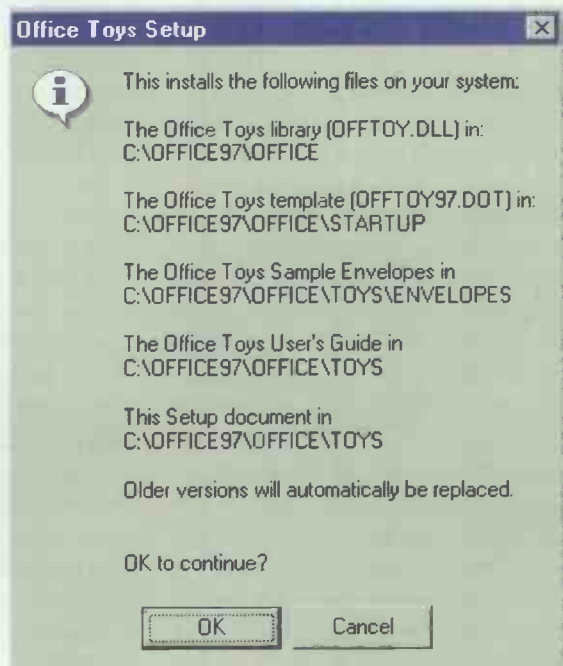
Out of control on the scroll

David Hills writes: "I find it impossible to use mouse dragging to select a large amount of text in Word because as soon as the cursor reaches the bottom of the screen, the auto-scrolling is far too quick to control. I have on many occasions watched the desired end-of-selection point rush past me first one way and then the other — reminiscent of a Buster Keaton slapstick routine. I can resort to keyboard methods to extend the selection but I would be very interested to learn of any 'rev-limiter' which could be implemented."

So would I. I've been moaning about this for some time — well, ever since I upgraded my graphics card to a Matrox Millennium. I'd hoped they'd fix it in Word 97 but they didn't. I further hoped it would be sorted in the Office 97 service release.

Fig 2 Now that's what I call well behaved

It isn't. I've had a good look around the MS Knowledgebase using various Boolean combinations of Scroll, Speed, Selection and Too Damned Fast, but all I could find was advice on the converse problem — how to increase scrolling speed. So, by a simple process of reversal, my advice would be to rip out that flashy display card and downgrade to something less ostentatious. If that doesn't do the trick, try removing some RAM or switching to a slower processor. As a temporary



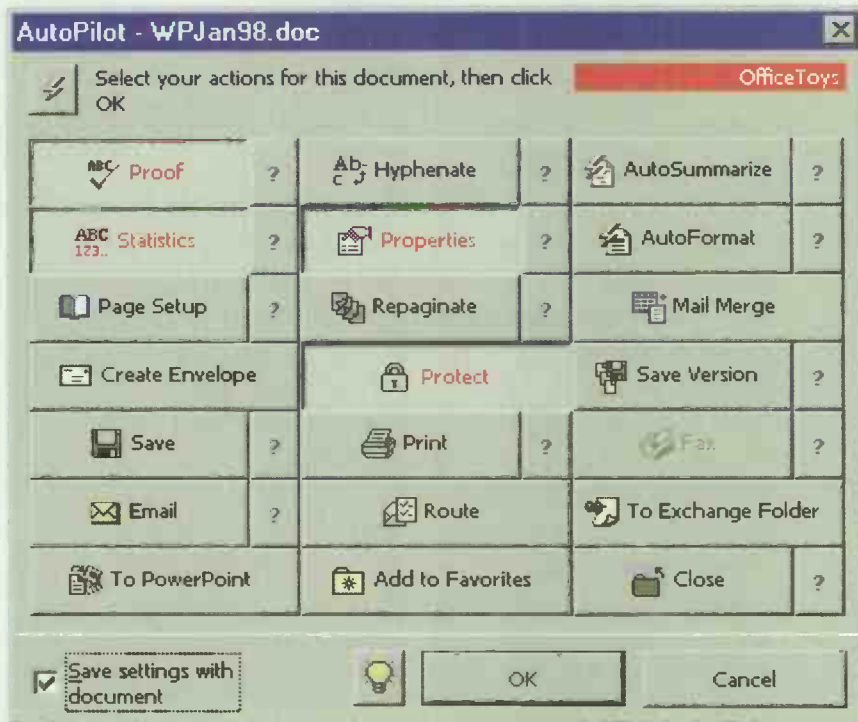


Fig 3 Office Toys AutoPilot — fasten your seat belts

workaround, try sticking a large bitmap between each paragraph.

Getting serious, the Microsoft wheel mouse does overcome this problem as you can spin the wheel to precisely control scrolling. I'm not suggesting for a moment that there is any conspiracy here between the developers of Microsoft Word (and also Excel, where it's even worse) and the marketers of the Microsoft mouse. Remember, this is the lot who couldn't conspire to get the wheel to work in the Open and Save dialogs of Office 97. Which is yet another thing that isn't fixed in the Office 97 service release.

What an imposition

One old favourite that never goes away is the problem of printing booklets — or imposition, to use the posh name.

For those who missed out on last April's exciting episode, the challenge is to take an existing document and format it so that it prints two A5 pages side by side on a sheet of A4 paper, which you then fold down the middle to make a booklet. The difficult bit is getting the page order right: with one sheet you want pages 2 and 3 on one side, and pages 4 and 1 on the other. With two sheets it is pages 2 and 7, 8 and 1, then 4 and 5, 6 and 3... I think.

After that you need a computer or something to work it out, which is about where we came in. At the time, we had a free Word macro from Microsoft that didn't

work properly and a manual method, of my own devising, that did work but needed four runs through the printer and was diabolically easy to cock up.

The June issue column brought the good news that it is all a lot easier in WordPerfect or with a Panasonic laser printer. Since then I have had various other Word macro solutions drifting in from readers, which have lain peacefully in my "Must do something with this one day" folder. But recently a query from John Higson prompted me to do that something.

There were a variety of macros: some just automated the process of getting the page-numbering right, others set up the whole business. After disqualifying all those that set the printer whirring into action without a chance to preview the document, I was left with one. This was a reworking of the original Microsoft macro, from David French in Portugal. It still won't cope with tables (as it works by using them) but it seems reasonably robust and does give you the chance to preview before you print. I hope David's ingenuity extends to figuring out how to spend a British book token in Alqueidão da Serra.

The macro is on our cover disc in the BOOKLET.DOC file, with some explanatory text. To use the macro, copy and paste it into the WordBasic macro editing window. (Sorry, 97 users, this one's for Word 6/7.)

One tried and tested solution to any problem is to throw money at it. The trick is

to throw the right amount of money in the right direction.

Enter ClickBook, a \$49.95 utility from ForeFront which claims to cope with all kinds of booklet production, with 30 predefined templates. It's available for Win3.1, Win95 and Mac, with a Windows NT version on the way. The best thing about it is that it's application independent. You install it as a printer driver where it intercepts output from any application, giving you a vast range of options before sending the job off to any physical printer you have installed and hand-holding you through the tricky business of getting the paper in the right way round.

You can't edit text at this point, so you have to get page numbers (say) sorted out in the application. There's an evaluation version available as a free download and I was impressed by the range of possibilities.

I wasn't so impressed by ForeFront's definition of "evaluation" which means it sticks a message in the centre of each page, rendering the latter unreadable. I call that wasting paper rather than evaluating, and it's a pity ForeFront couldn't find some other way of limiting the test version.

Odds and ends

■ Thanks to David Dickson, John Savard and others who pointed out my error in October's bit about the Forsyth-Edwards Notation for chess positions. I wrote that it was not case-sensitive but I had given my brain the afternoon off. Of course it is; that's how it distinguishes white pieces from black!

■ A quick question from Oliver Fuller: "Word 97 appears to open with a default view of 'Page layout'. How can I change this default to 'Normal'?"

Here's a quick answer: as far as I can make out, Word remembers the last view setting and the zoom for each document. To change the default for new, blank documents, what seems to work is to create one and change to the settings you want, then save the document, and exit.

PCW Contacts

You can contact Tim Nott by post via the usual PCW address (page 12) or at wp@pcw.co.uk

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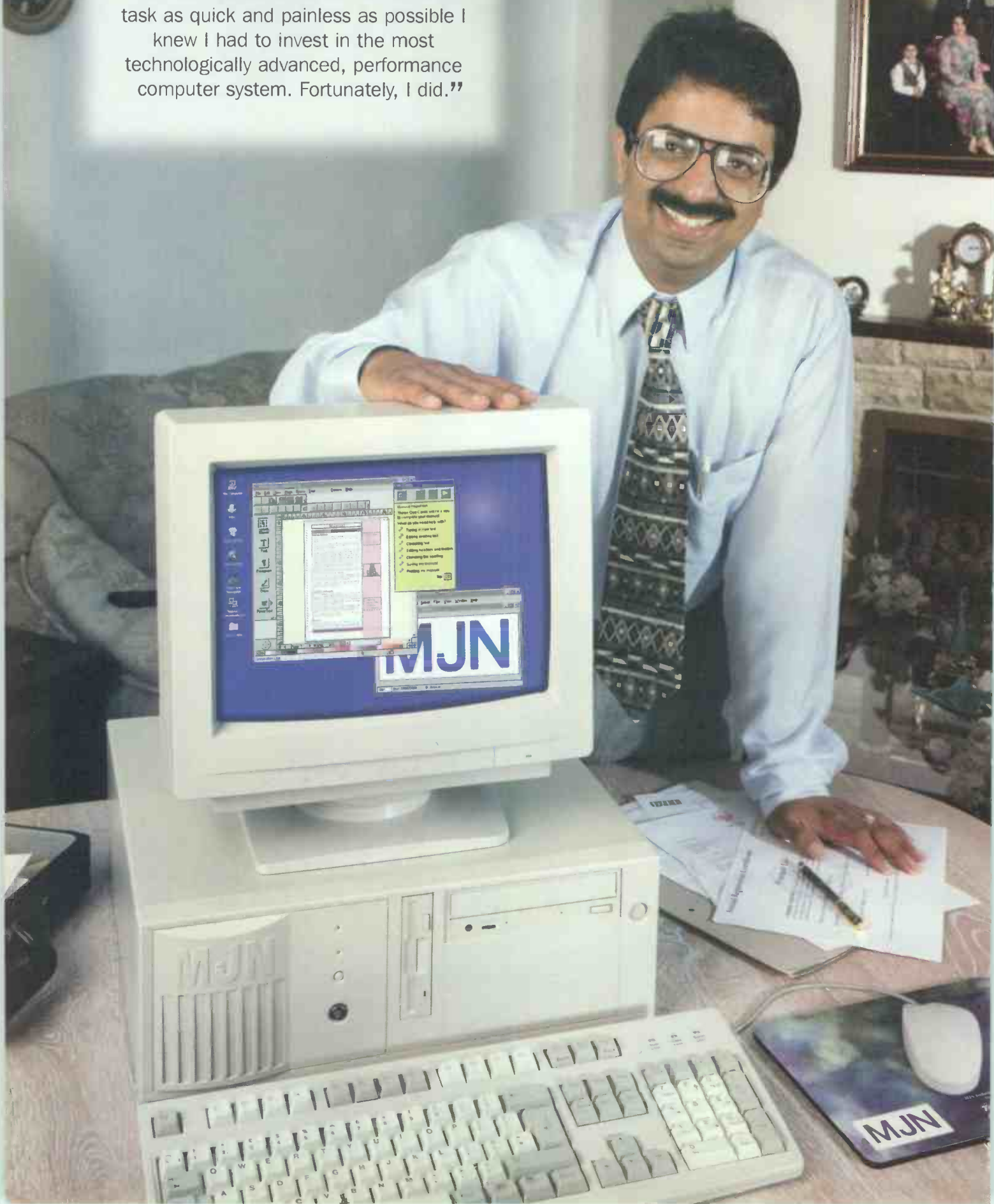
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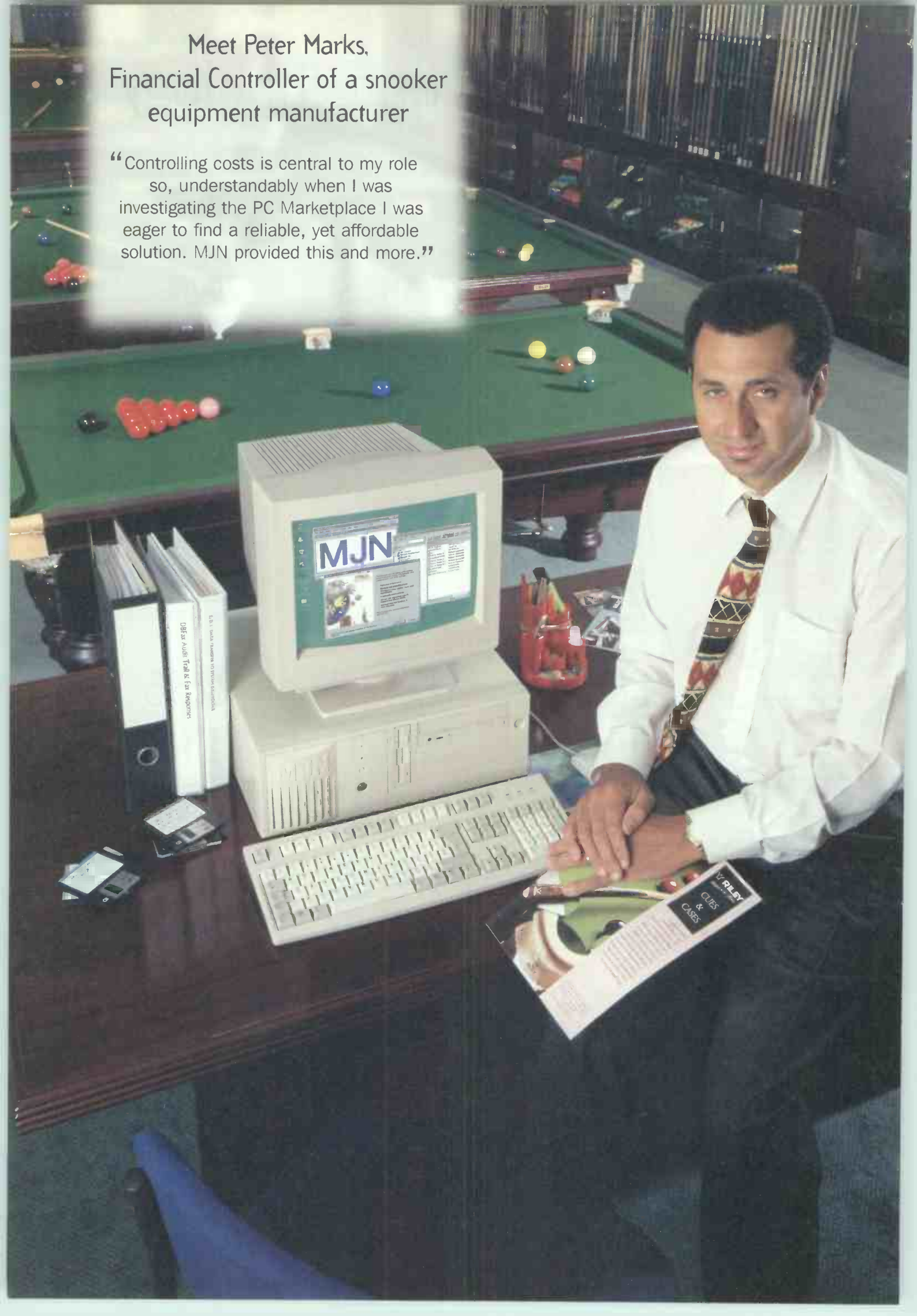
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- ATX mid-tower system unit with 250w ATX power supply and 7 drive bays
- Videophone-Receive: Capability to receive standard incoming videophone calls. Colour video camera interface included. Plug-in camera and microphones required for full receive and send facility are optional extras
- Advanced PC-TV system: multi-channel PCI TV tuner with scalable/full-screen TV window, professional Teletext with video capture facility
- Ports: serial, enhanced parallel, 2 universal serial bus (USB), games, sound, microphone, PS/2 keyboard and PS/2 mouse, four EDO SIMM sockets and two 128-pin SDRAM DIMM sockets, CPU socket 7 with switching regulator, 3 ISA and 3 PCI expansion slots
- 105 PS/2 keyboard, PS/2 mouse and 3.5" 1.44Mb floppy drive
- Microsoft Windows 95 with manual and CD
- Lotus SmartSuite 97, Pressworks, SmartPics, Designworks, Homeworks, IBM AntiVirus and Quicken pre-loaded
- IBM VoiceType, Simply Speaking Gold voice recognition software (microphone optional extra)

The right price

MJN high specification multimedia systems incorporating 56K voice modems PC-TV with Teletext, advanced videophone and voice recognition

MJN 200M-2



- IBM 6x86MX PR200 processor with MMX™ technology
- 64Mb EDO RAM
- 512K Cache
- 4.3Gb Ultra ATA hard disk
- ATI Rage II+ DVD 3D graphics with 4Mb video RAM
- 15" SVGA Colour screen (17" optional)
- 56K voice modem
- 24x Max CD-ROM drive
- Creative Labs 3D Wavetable sound
- Stereo speakers
- Videophone receive
- PC-TV system with Teletext and video capture
- ATX Intel 430TX chipset motherboard
- Massive software bundle
- All standard features as listed

£1338.33 Including VAT

£1139 Plus VAT
Model: 750

MJN 233-2

- Intel® 233MHz Pentium® II processor with MMX™ technology
- 32Mb SDRAM
- 512K Cache
- 4.3Gb Ultra ATA hard disk
- ATI Rage II+ DVD 3D graphics with 4Mb video RAM
- 15" SVGA Colour screen (17" optional)
- 56K voice modem
- 24x Max CD-ROM drive
- Creative Labs 3D Wavetable sound
- Premium stereo speakers (not shown)
- Videophone receive
- PC-TV system with Teletext and video capture
- ATX Intel 440LX chipset motherboard
- Massive software bundle
- All standard features as listed

£1467.58 Including VAT

£1249 Plus VAT
Model: 761

MJN 233M Ex



- Intel® 233MHz Pentium® processor with MMX™ technology
- 64Mb EDO RAM
- 512K Cache
- 6.4Gb Ultra ATA hard disk
- ATI Rage II+ DVD 3D graphics with 4Mb video RAM
- 15" SVGA Colour screen (17" optional)
- 56K voice modem
- 24x Max CD-ROM drive
- Creative Labs 3D Wavetable sound
- Stereo speakers
- Videophone receive
- PC-TV system with Teletext and video capture
- ATX Intel 430TX chipset motherboard
- Massive software bundle
- All standard features

£1491.08 Including VAT

£1269 Plus VAT
Model: 605

Options

- 15" to 17" screen upgrade £150 +VAT = £176.25
- Millennium models with full videophone: Include colour video conferencing camera, PC joystick, PC microphone, and over 13 CD multimedia titles. These are full videophone ready with both send and receive at just £99 +VAT = £116.33 extra

Interest Free Option

- 6 Months Interest Free Option Only On Millennium Models
- Pay just 10% deposit and the rest in 6 months. APR 0%. Finance also available over longer period of 2.5 years at APR 23.9%. Finance is subject to status, written details available on request
- See finance example on last page

0% APR



Massive preloaded software bundle included with all models

- Voice Recognition
- Video Phone
- TV And Teletext

MJN Millennium models include video camera, joystick, microphone and over 13 CD multimedia titles



MJN®

The right choice™

01282 777 555

Meet Mr Stephen Wright, Manager of a Law Costs Consultancy

“Accuracy is critical to all elements of my profession. When I decided to buy a computer I required a reliable solution that came backed with exceptional levels of services. MJN were the obvious choice.”



Standard Features

- Intel® Pentium® II or IBM MX processors with MMX™ technology (see relative performance chart on back page)
- 32Mb or 64Mb EDO RAM for superior performance and smooth multi-tasking
- 512K L2 pipeline burst cache
- ATX advanced motherboard with Intel® 440LX chipset (on Pentium® II) or SIS PC97 chipset on 233M-2, Year 2000 compliant BIOS
- 4.3Gb or 6.4Gb Ultra ATA hard disk
- ATI Rage II+ DVD 3D graphics with 4Mb or 8Mb dedicated video RAM. SIS advanced graphics using 4Mb system RAM on 233M-2. Microsoft direct 3D support and full-screen MPEG video playback
- 15" or 17" SVGA 0.28dp NI colour screen
- 56K flex voice fax/data/Internet modem using Rockwell hardware chipset with superior performance over software based windows only "win" modems. Flash upgradeable
- 24 speed MAX CD-ROM drive with MAX data transfer rate upto 3600Mb/sec
- Creative Labs or ESS 3D Wavetable sound with advanced 3D sound effects, top quality stereo sound with low noise to signal ratio and software wavetable
- Quickshot mains powered stereo speaker system (subwoofer system on 300-2)
- ATX mid-tower system unit with ATX power supply and 6 drive bays
- Videophone-Receive: Capability to receive standard incoming videophone calls. Colour video camera interface included. Plug-in camera and microphones required for full receive and send facility are optional extras
- Advanced PC-TV system: multi-channel PCI TV tuner with scalable/full-screen TV window, professional Teletext with video capture facility
- Ports: serial, enhanced parallel, 2 universal serial bus (USB), games, sound, microphone, PS/2 keyboard and PS/2 mouse, 3 ISA and 3 PCI expansion slots
- 105 PS/2 keyboard, PS/2 mouse and 3.5" 1.44Mb floppy drive
- Microsoft Windows 95 with manual and CD
- Lotus SmartSuite 97, Pressworks, SmartPics, Designworks, IBM AntiVirus, HomeWise, and Quicken pre-loaded
- IBM VoiceType Simply Speaking Gold voice recognition software (microphone optional extra)

The right service

MJN Pentium® II and 6x86MX processor based multimedia systems incorporating 56K voice modems, PC-TV with Teletext, advanced videophone and voice recognition.

MJN 233M-2



- IBM 6x86MX PR233 processor with MMX™ technology
- 64Mb EDO RAM
- 512K Cache
- 6.4Gb Ultra ATA hard disk
- SIS advanced graphics using 4Mb system RAM
- 15" SVGA Colour screen (17" optional)
- 56K voice modem
- 24x Max CD-ROM drive
- ESS 3D Wavetable sound
- Premium stereo speakers (not shown)
- Videophone receive
- PC-TV system with Teletext and video capture
- ATX SIS TX compatible PC97 chipset motherboard
- Massive software bundle
- All standard features as listed
- Please check availability

£1526.33 Including VAT

£1299 Plus VAT

Model: 684

MJN 266-2



- Intel® 266MHz Pentium® II processor with MMX™ technology
- 64Mb SDRAM
- 512K Cache
- 6.4Gb Ultra ATA hard disk
- ATI AGP Rage Pro 3D graphics with 8Mb video RAM
- 15" SVGA Colour screen (17" optional)
- 56K voice modem
- 24x Max CD-ROM drive
- Creative Labs 3D Wavetable sound
- Premier stereo speakers (not shown)
- Videophone receive
- PC-TV system with Teletext and video capture
- ATX Intel 440LX chipset motherboard
- Massive software bundle
- All standard features as listed

£1878.83 Including VAT

£1599 Plus VAT

Model: 685

MJN 300-2



- Intel® 300MHz Pentium® II processor with MMX™ technology
- 64Mb SDRAM
- 512K Cache
- 6.4Gb Ultra ATA hard disk
- ATI AGP Rage Pro 3D graphics with 8Mb video RAM
- 15" SVGA Colour screen (17" optional)
- 56K voice modem
- 24x Max CD-ROM drive
- Creative Labs 3D Wavetable sound
- Executive subwoofer system (shown below)
- Videophone receive
- PC-TV system with Teletext and video capture
- ATX Intel 440LX chipset motherboard
- Massive software bundle
- All standard features as listed

£2113.83 Including VAT

£1799 Plus VAT

Model: 608

Options

- 15" to 17" screen upgrade £150 +VAT = £176.25
- Millennium models with full videophone: Include colour video conferencing camera, PC joystick, PC microphone, and over 13 CD multimedia titles. These are full videophone ready with both send and receive and are only £99 +VAT = £116.33 extra

Interest Free Option

- 6 Months Interest Free Option Only On Millennium Models
- Pay just 10% deposit and the rest in 6 months. APR 0%. Finance also available over longer period of 2.5 years at APR 23.9%. Finance is subject to status, written details available on request
- See finance example on last page

0% APR



Massive preloaded software bundle included with all models

- Voice Recognition
- Video Phone
- TV And Teletext

MJN Millennium models include video camera, joystick, microphone and over 13 CD multimedia titles



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Data dump

Stephen Wells explains how to download from the internet in a form that enables you to easily get rid of unwanted data. And, go on... make progress with a simple Gantt chart.

Reader Mike Liversedge emailed me recently, asking: "I am attaching an Excel 5 file that contains share data copied from the internet. How can I automate my sheet so that it gets rid of unwanted data (i.e. all text except today's 'bid price') so that I can construct charts?"

I sent Mike a new version of the file, still in Excel 5 format but separated into columns and with a little added formatting. What I did was to save his file as a .txt file, then open it again in Excel. This starts the Text Import Wizard. I chose the option for

data separated by spaces (rather than commas).

To make the other changes, start the recorder, hold down the Ctrl key and click on the columns you do not want. Then press delete, stop the recorder and name your new macro. As long as they always publish the page in the same way, and you save it as a .txt file and then open again in Excel, your macro will work.

Mike replied: "Thanks for your rapid response.

Guess what — it works OK! The only limitation, however, is (as you pointed out) making sure that data is aligned as before. I did not even know about the importing wizard until now. At least doing it this way is free. Thanks."

Of course, Mike does not have to eliminate the other columns in order to make a chart. He only has to hold down Ctrl and click the heading letter of the two columns he needs, and press F11. The result is an instant chart.

Another solution to Mike's problem is that many web sites, which intend for you to download their data into Excel, provide a web query form tailored for their pages. You can always email the site to ask if they have one. These forms download the data into columns.

In the Software section of this month's CD-ROM, under Hands On Spreadsheets, there is a file named queries.exe. If you have Excel 97, you can double-click on this and it will install web query forms on your hard disk for you to use. You could

also consider Microsoft Investor 2, which includes tools for downloading stock data.

Making a Gantt chart

If you were going in for project management in a big way, you would use a package like Microsoft Project, but you can quickly make a simple Gantt chart with Excel 97. The planning and progress chart devised by the American, Henry L Gantt, can be simulated with one of Excel's built-in charts.

Start by listing in a column on a worksheet, the jobs to be done. In the example (Fig 3) I've used half-a-dozen activities that might be required to redecorate a room. In the adjacent column, list the start dates for each job. In the next column, enter the number of days the job is expected to take. This could be calculated if you enter the anticipated end dates in a column away from this three-column range.

Now select this range, including headings. Here, it is A1 to C7. Click the Chart Wizard tool. Select Custom Types, Floating Bars and choose the Built-in

CODE	NAME	CURRENT	PREVIOUS	HIGH	LOW	OPEN	BID	OFFER	VOLUME	CHG
5	ABBOTT GRP	132.5	132.5	132.5	132.5	132.5	131	134	0	
6	AEX AMINEX	70	70	70	70	70	68	72	0	
7	ARC ARCON INT	48	48	48.5	46	46	45	47	127500	
8	ARC ALLIANCE RES	32.5	32.5	33.5	32.5	32	32	32	0	
9	AVP AVYVA PET	28.5	28.5	27.5	28.5	28.5	25	28	0	
10	BBOR BR BORNED PET	485	473.5	472.5	488.5	472.5	485	472	1337183	A
11	BUL BULA RES	1.25	1.25	1.25	1.25	1.25	1.1	1.5	1715000	
12	DOO DRAGON OIL	535	547.5	541.5	534.5	541.5	533	537	82850	
13	DOO DRAGON OIL	2.78	2.75	2.75	2.75	2.75	2.5	3	7783334	
14	DOMW DRAGON OIL WTS	1	1	1	1	1	75	75	0	
15	DOMW DRAGON OIL WTS	10.5	10.5	10.5	10	10.5	10	11	0	
16	DNK DANIA PET	22.25	22.5	22.5	22.25	22.5	22	22.5	0	
17	EDN EDN OIL & GAS	29	29	28.5	29	28	28	30	0	
18	EDN EDN OIL & GAS WY	11	11	10.5	11	10	10	12	0	
19	EPO NCL	18	18	18.5	18	18	15	17	242	
20	ETP ENTERPRISE OIL	888.5	894.5	895	888.5	888.5	888	889	1828727	
21	EXPO EXPRO INTL	480	480	480	480	480	475	485	35500	
22	FTO FORTUNE OIL	186	182.5	182.5	182.5	182.5	15	187.5	2115273	
23	HOO HARDY OIL & GAS	338	330	340	331	331	338	340	131816	
24	ITC INT TOOL&SUPPLY	6	6	6	6	6	6	6	0	

Fig 1 A web page of oil stock prices as downloaded into Excel. Now it needs sorting into columns

CODE	NAME	CURRENT	PREVIOUS	HIGH	LOW	OPEN	BID	OFFER	VOLUME	CHG
5	ABBOTT GRP	132.5	132.5	132.5	132.5	132.5	131	134	0	
6	AEX AMINEX	70	70	70	70	70	68	72	0	
7	ARC ARCON INT	48	48	48.5	46	46	45	47	127500	
8	ARC ALLIANCE RES	32.5	32.5	33.5	32.5	32	32	32	0	
9	AVP AVYVA PET	28.5	28.5	27.5	28.5	28.5	25	28	0	
10	BBOR BR BORNED PET	485	473.5	472.5	488.5	472.5	485	472	1337183	A
11	BUL BULA RES	1.25	1.25	1.25	1.25	1.25	1.1	1.5	1715000	
12	DOO DRAGON OIL	535	547.5	541.5	534.5	541.5	533	537	82850	
13	DOO DRAGON OIL	2.78	2.75	2.75	2.75	2.75	2.5	3	7783334	
14	DOMW DRAGON OIL WTS	1	1	1	1	1	75	75	0	
15	DOMW DRAGON OIL WTS	10.5	10.5	10.5	10	10.5	10	11	0	
16	DNK DANIA PET	22.25	22.5	22.5	22.25	22.5	22	22.5	0	
17	EDN EDN OIL & GAS	29	29	28.5	29	28	28	30	0	
18	EDN EDN OIL & GAS WY	11	11	10.5	11	10	10	12	0	
19	EPO NCL	18	18	18.5	18	18	15	17	242	
20	ETP ENTERPRISE OIL	888.5	894.5	895	888.5	888.5	888	889	1828727	
21	EXPO EXPRO INTL	480	480	480	480	480	475	485	35500	
22	FTO FORTUNE OIL	186	182.5	182.5	182.5	182.5	15	187.5	2115273	
23	HOO HARDY OIL & GAS	338	330	340	331	331	338	340	131816	
24	ITC INT TOOL&SUPPLY	6	6	6	6	6	6	6	0	

Fig 2 If you save Fig 1 as a text file and then open that file with Excel, it starts the Text Import Wizard which does the job

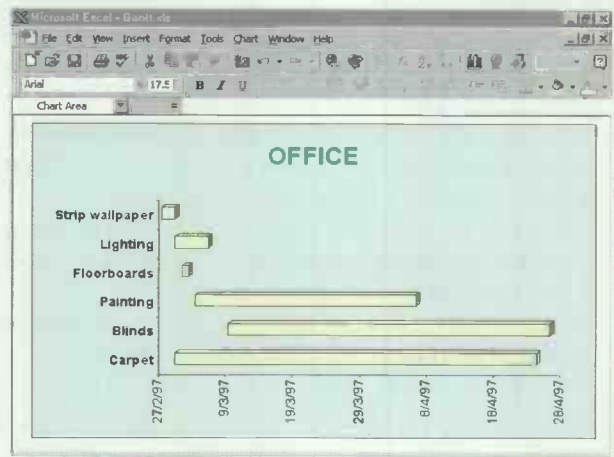


Fig 3 It is easy to make a simple Gantt chart for small project management jobs. Excel 97 has a built-in type which suits

XLS How-To

■ Neat names

How can I quickly rename a sheet tab?
Double-click the tab, type the new name. Press Enter.

What's the quickest way to create a Name?

Select the cell or range. Type the Name in the Name Box, which is on the left-hand end of the formula bar and normally displays the address of the active cell. Press Enter. (If you do not press Enter, the Name is not created.)

■ Hot dates

How can I quickly make a column of dates that show the 15th of each month?
Enter 15/1/97 in the first cell. Drag the fill handle down the column using the right mouse button. On the shortcut menu which appears, click Fill Months.

How can I show the current year in Roman numerals?

Nest three functions like this:

```
=ROMAN(YEAR(NOW()))
```

This year, it will read as MCMXCVII = 1997. (Cover date is 1998.)

What's the fastest way to add a series of dates to a worksheet?

If there is an existing column of data to the left or the right, you can enter the date (Ctrl+; gives you today), select the cell, then double-click the AutoFill handle at the bottom right of the cell. The dates will run down consecutively as far as there is data in the adjacent column. Or a label can be repeated instantly the same way.

■ Smart moves

How can I quickly move between sheets?

1. To switch to the sheet on the left, press Ctrl+PageUp. To switch to the sheet on the right, press Ctrl+PageDown.
2. To rifle through the worksheets, hold the mouse down on the arrows to the left of the tabs.
3. To see a menu of the sheets, right-click

one of the arrows.

How can I move through my workbook, going to the same cell on each workbook?

In the first sheet, select the cell you want to land on each time. Then right-click on the sheet tab and choose Select All Sheets on the Shortcut menu. Then press Ctrl+ PageDown (or PageUp to go through the sheets the other way), then Ctrl+Backspace.

How can I move to the last cell with data in a column when there are numerous blanks in the column?

Click the column letter. Press Shift+Enter. Press Ctrl+Up arrow.

■ Nice views

How can I view two worksheets, side by side?...

Choose Window, New Window. Then Window, Arrange, Vertical.

... and how can I reverse those two Windows?

Click the sheet on the left, then the one on the right, then Window, Arrange. That is, select the worksheets in the reverse order to which you want them to appear.

■ Tool tips

How can I make space on the Standard toolbar for another tool?

Because you can print either by pressing Shift when you click the Preview tool, or see a preview when you press Shift and click the Print tool, you do not need both.

To remove one of them, choose View, Toolbars, Customise. Then, on the actual Toolbar on your worksheet, drag the redundant tool off the top of the screen. Click Close in the dialog box.

How could I add another tool to a toolbar?

Choose View, Toolbars, Customise. Choose the Commands tab, then drag the tool you want out of the Commands box and onto the actual toolbar on your

worksheet. Click Close.

Is there a tool for adding Comments to cells?

Yes, and it's versatile. If the cursor is on a cell without a Comment, clicking this tool opens a box for entering a new Comment. If the cursor is on a cell containing a Comment, clicking this tool opens a box for editing it. I frequently add Comments to my own worksheets to remind myself why I made certain entries.

■ Display-away

In cell L2, I enter a number from 1 to 7. I'd like it to display as the day of the week, and in cell A2 as an abbreviation of that.

Format cell L2 by choosing Format, Cells, Number, Custom and in the Type box enter dddd. In cell A2 enter =TEXT(L2,"ddd"). If you now enter 2 in L2 that cell will display Monday, and cell A2 will display Mon.

How can I display my formulas so I can print them?

Choose Tools, Options, View and check the Formulas box. In Excel 97 the column widths will automatically expand to show the formulas. When you uncheck the box, the widths will retract to their original position.

■ Bits and pieces

How can I count the number of negative values in a range named TEST?

Use the COUNTIF function like this:
=COUNTIF(TEST,"<0")

What's the fastest way to copy data from the cell above?

Select the new cell and press Ctrl+Shift+, (comma).

How can I create a column of labels that read Product 1, Product 2, and so on?

Just type Product 1 in the first cell and drag down the fill handle. You can use any word and Excel will increment the number. The number can also be in the middle of a phrase, like: Product 1, Northern Region.

option. The Wizard will tell you that this type uses two series: the first to specify the beginning of the bars (in our case, the start date), and the second, the length of the bars (the number of days for the job). You

can add a title (here, Office) in Step 3 of the Wizard and you can choose where to display the chart in Step 4. Now it is just a matter of reformatting until you have the design which suits you. You can right-click

on the chart area and choose Format Plot Area to change the colour and pattern of the background. Right-click on each axis to reset the alignment of the labels and their font size, weight and colour. On the Scale

tab for the vertical axis you can check the Categories In Reverse Order box so that the jobs are listed from top to bottom, like your worksheet. On the Scale tab for the horizontal axis you can change the start date of the scale, although it is shown as Excel's underlying number (for example, 35488 is 27/2/97).

That's all there is to it. This simple chart and its worksheet are on this month's PCW cover disc in the file, Gantt.xls.

A picture is worth 1,000Kb

Bill Watson writes: "I have built a spreadsheet in Excel 97 which constructs tables based on input variables. In the original file format it saves as a 442Kb file. However, when I use the suggested 'Save As Excel 97 & 5.0/95 Workbook *.xls' format to transport the file to another PC running version 5.0, the file size increases to a whopping great 9,855Kb. Can you tell me whether this is only to be expected? If not, what is happening?"

I asked Bill if there were any VBA macros in the original workbook and suggested he make a spare copy of the original file in Excel 97 format, delete half of it, save that in the Excel 97 & 5.0/95 Workbook *.xls format and then tell me the size.

He replied: "No, there are no macros. I removed two of the four worksheets from the model, then, saving in the Excel 97 & 5.0/95 Workbook *.xls format, the new file size is 9,755Kb, although I noted that the Excel 97 file size had reduced to 382Kb before I saved it in the new format."

Having looked up file sizes in the Excel Knowledge Base, I suggested he delete any blank worksheets, then choose Properties, Summary, and uncheck the Save Preview Picture box and click Save. Also, to make sure the Zoom setting is 100 percent or more before saving.

Finally the penny dropped. Bill responded: "I tried the solution suggested in your last note and still saw no difference, but the solution to the problem at last dawned on me. I had embedded two scanned company logos in the sheet and when these were removed, the file size shrank back to normal. Sorry, I didn't think of this before. Thanks for the trouble you took to assist me."

Well, we both learned something. Apparently, whether an embedded bitmap is a preview picture or one's own illustration, it is saved in a compressed form in Excel 97 but not in the dual-format type of file.

Quick looks at new books

■ Step by Step —

Microsoft Excel 97 Advanced Topics by Reed Jacobson

Personally, I think that if Microsoft actually listened to its customers as carefully as it claims to, it would go back to providing proper documentation of its products' features as it did with Excel 4: for instance, imagine owning a car for a few months and then stumbling across a valuable "undocumented feature".

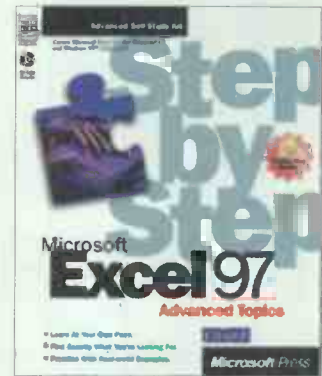
Microsoft Press obviously agrees that there are many users who like to sit down with a good manual, or else they wouldn't feel the need to publish excellent books like this one.

Excel 97 beginners will want to start with the companion *Step by Step Microsoft Excel 97*. This more detailed version is accurately sub-headed the *Advanced Self-Study Kit* and each chapter is one of a course of lessons. There are sample files with which to work on the accompanying floppy disk and virtually every page has an illustration.

If you've ever wanted to know more about using names in formulas, nesting functions, sorting and sub-totalling lists, or publishing Excel worksheets with pictures, creating complex charts and maps, sharing workbooks with remote users, or creating and editing Visual Basic macros, then this is the book to turn to.

I've certainly learnt a lot I didn't know before about Excel. For instance, when you start the PivotTable Wizard it looks for a range named Database, so if you select the range you want and enter that name in the Name Box first, you save time. And I like the organisation of this book: at the end of each chapter or lesson there is an itemised summary with a "To" column and an adjacent "Do This" column.

This fact-packed 336-page book, with the 3.5in floppy disk of sample files, is good value these days at £27.99. It is available from Computer Manuals (see "PCW Contacts").



Column conundrum

Sture Olsson asked about a formula I included in my September column for finding the address of the cell containing the highest value in a range. He says he can only make it work in a one-column range and would like to make it work in a two- or three-column range. Microsoft in Stockholm couldn't help him.

This was my fault. I got this formula from the Microsoft people and they said it would work in any range. However, I only checked it in a one-column range. I have now found that it only works within that parameter.

If any reader has a solution for Sture, please let me know and I'll pass it on.

Links and high values

Andrew Johnson writes: "I have a large Excel 7.0 workbook with many sheets. Many of these sheets have been copied from other workbooks. When I load the workbook, the message appears: 'This document contains links. Re-establish links?' The links in question point to

external files which are no longer available. There should be no external links in this workbook, anyway. There seems to be no way in Excel to find where these links appear in my workbook."

I pointed Andrew to the file, LinkMacro.txt, on our November cover-mounted CD-ROM or, if this were not to hand, suggested that he download the file himself from the Microsoft Knowledge Base. He replied: "Thank you. I was able to download the macro from the Knowledge Base and run it successfully. Although for some reason it could not delete them all, it did point me to the cells which contained the links it couldn't delete and this allowed me to delete them manually."

PCW Contacts

Stephen Wells welcomes problems, solutions or suggestions relating to spreadsheets. Write to him at the usual PCW address (see p12) or email spreadsheets@pcw.co.uk

Computer Manuals 0121 706 6000
www.compman.co.uk



Tricks and **treats**

Mark Whitehorn lets you in on some secrets for writing Visual Basic code in Access and unravels the mysteries of string manipulation. He tackles your knotty problems as well.

In my November column, reader James Talbut proposed a way of formatting dates using ordinal numbers ("Monday 2nd June 1997") but wondered if there was a faster or more elegant solution. Anyone care to speed-test these two suggestions and report back?

1. Wilf Davies sends in one possible solution, shown in Fig 1.
2. The other, shown in Fig 2, from Ray Hall is certainly more elegant but I don't know if it's quicker. There are fewer comparisons but I don't know how much overhead is carried by the Case statement. Declarations as printed, except sRetVal.

Writing code in Access

This month, by popular request, we're going to have a look at some tips and tricks for writing Visual Basic code in Access. This is going to be based on Access 97. I am aware that lots of readers are still using Access 2.0, but the coding languages of the two versions are somewhat different and I had to choose one or the other, so I went for the later version.

■ How to start programming in Access

There are many ways to get started but this is probably the easiest. Start in a database that has a few tables of data (if the data has any value to you, make sure you are working with a copy. There is a sample database on our cover-mounted CD-ROM this month which provides some samples that you can use in safety).

Create a blank form and open the toolbox. Make sure that the control Wizards are turned off and then place a button on the form (Fig 3). Right-click on the button, select Build Event, choose Code Builder and you are ready to code (Fig 4). Whatever

code you write will be carried out (executed) whenever the button is clicked.

■ String manipulation

Strings are long sets of characters. For example, the characters in this sentence make up a string. Indeed, all of the characters in this paragraph make up a larger string. Programming languages in general, and Visual Basic in particular, have functions which are designed to manipulate

strings. We'll have a look at three.

1. How to find the length of a string
Len(string) will tell you the number of characters in a string. For example:
Length = Len("Penguin
and his friend.")

will set the value in the variable Length to be equal to 23. Of course, there is nothing to stop you setting the value of, say, a text box on a form to be equal to the length of a

Fig 1: Wilf Davies' solution

```
Public Function OrdinalDate(DateIn) As String
    Dim DayNo As String, Ordinal As String
    If IsNull(DateIn) Then Exit Function
    DayNo = Right$(Str$(Day(DateIn)), 1)
    Select Case DayNo
        Case "1"
            Ordinal = "st"
        Case "2"
            Ordinal = "nd"
        Case "3"
            Ordinal = "rd"
        Case Else
            Ordinal = "th"
    End Select
    OrdinalDate = Format$(DateIn, "dddd d") & Ordinal & " " &
    Format$(DateIn, "mmm yyyy")
End Function
```

Fig 2: Ray Hall's solution

```
Dim Suffix As String
Select Case iDay
    Case 1 To 3      Suffix = vOrdinals(iDay)
    Case 21 To 23   Suffix = vOrdinals(iDay Mod 10)
    Case Else       Suffix = "th"
End Select
FormatDate = Format(dArg, "dddd, d") & Suffix & Format(dArg, "mmm, yyyy")
```

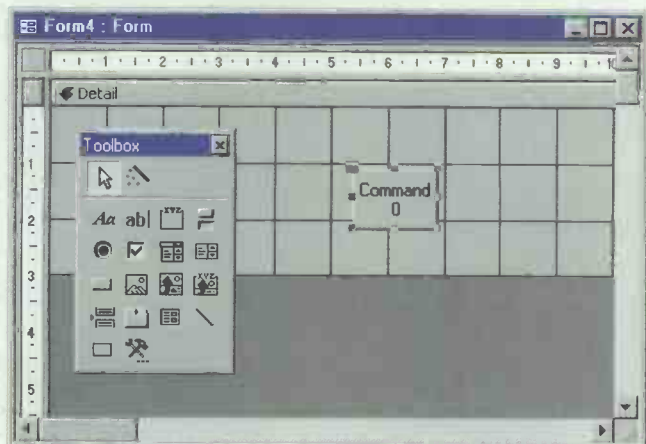


Fig 3 (left) Putting a new button on to a form

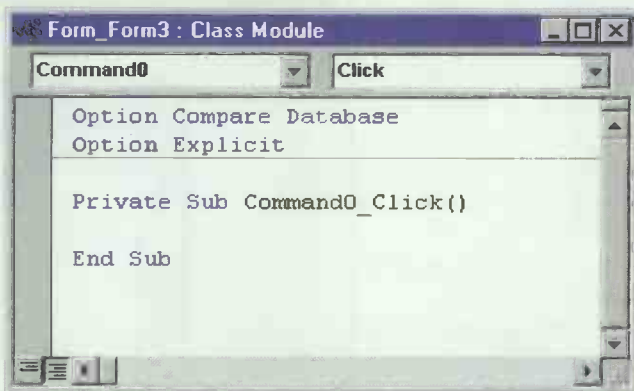


Fig 4 (below) Code written in this window will be executed whenever the button is clicked

string held in a field. Assume that we have a table in the database called Sample and that we have set up rstSample to reference that table. Sample contains a field called Information that in turn holds a string "Penguin and his friend."

In that case, the code `Text3 = Len(rstSample![Information])` will set the value of a text box called Text3 to be 23.

● There are many other tips in this area so I have included them on this month's CD-ROM: see the form called "Remove string from table and manipulate it".

■ How to find the position of a character in a string

InStr is a function that will find the location of a particular character in a string. Thus, Fig 5 will set the value of the text box called Text7 to a value of 2. The 1 tells InStr to start searching at the beginning of the string. Thus, Fig 6 will set Text9 to be 20 because it starts the search at the 3rd character into the string.

■ How to extract a copy of part of a string

Mid is the function we need here. You need to give Mid the string with which you want it

to work, the number of the character at which it should start copying, and the number of characters it should remove after that start character. So Fig 7 removes seven characters from the string, starting at the third. So it will set Text5 to be equal to "nguin a".

Even though all these functions may

Fig 7

```
Text5 = Mid(rstSample![Information], 3, 7)
```

seem a little abstract at first, the reason I have chosen them is that they all help to answer particular queries I have received from readers.

A couple of more general tips

1. Modifying your start up
Access typically starts up with the words "Microsoft Access" in the top left of the screen (in the title bar). You can configure this to read anything you want: boringly, a name of your application; more excitingly, a

short description of your boss (don't blame me if you get fired). Simply right-click the title bar of the database container (not the title bar of Access itself) and select Startup. In the dialog

p292 >

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WORTHINGTON
DATA SOLUTIONS

Questions & Answers

Q My friend has a DOS database which stores its data in three text files. I've managed to import these into Access 97 (though I did get some field truncations) and now have three tables arranged [as shown in Fig 8]. In practice, the Cross Ref field can contain many more values than are shown here and Access truncated some of the data. Advice on how I can reduce the truncation of the text field would be appreciated: Access would not import this as numeric, presumably because of the commas between items. Also, my friend wants to look up anyone listed under, say, Anteater Supplies and extract the data for Anteater Bedding Inc., Ants R Us, and Everything Anteater Inc., (i.e. items 2, 3 and 4093). Is there a way to link these tables?

Nigel Mercier

A The truncation is easy, but make sure you import the data into a memo field. Memo fields can hold a minimum of 65,656 characters, so that should be enough.

The problem with the data in the "Cross Ref" field is that it is not atomic. That is, a single field in a single record is actually holding multiple individual bits of information. We need to turn the data into the sort of table shown in Fig 9. This can be done by opening up the table called Cross Ref, dissecting the string in the Cross Ref field and building new records in a new table called NewCrossRef. This is a good example of where the ability to manipulate tables with code is really useful. I can't think of a way to do this manipulation using, say, SQL.

A solution using code is available attached to the form called "Solution to problem". Note that this code actually uses a table called CrossRef (no space). This is just like Cross Ref (with a space) but contains a long string so you can see it working on more realistic data. There are three sample text files included on our

cover-mounted CD-ROM so that you can play around with importing if you so desire.

Q What code do I need to manipulate databases?

A Access code uses variables to hold the names of the databases that you are going to manipulate with the code. You declare variables at the start of the code by using the word DIM (DIMension) which implies that you are "dimensioning" or setting up a space to hold information. (If this all sounds like Venesian, don't worry. When you are starting out you can follow the examples and do it by rote.)

So, to gain code-type access to a database you would use:

```
Dim DBCurrent As Database
Set DBCurrent = CurrentDB()
```

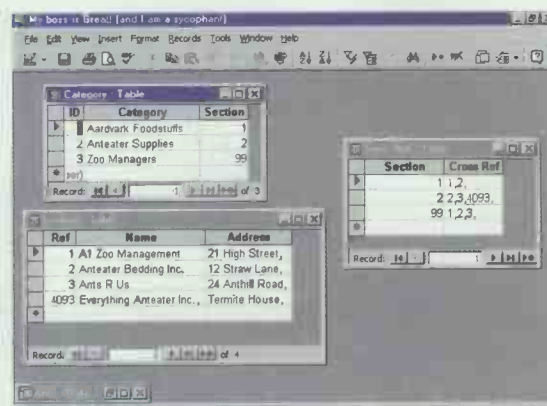
The first line says "set up a variable called DBCurrent and make that variable capable of referring to any database". The next line says "tie that variable name to a particular database, in this case the one which is currently open". Any reference in the code to DBCurrent now automatically refers to the current database.

You can substitute almost any word for DBCurrent since it is a variable name. However, the rest of the words are fixed. This code is demonstrated in the sample database on the form called "Open a database".

Q How do I reference a particular table in a database?

A First of all, you have to set up the database (as shown, above). Once that has been done, you can use a variable to refer to a table.

The variable in this case is often referred to as a record set. Thus:



Section	Cross Ref
	1
1	2
2	2
2	3
2	4093
99	1
99	2
99	3

Fig 8 (top) and Fig 9 (above) The crossRef field needs to be in atomic format

```
Dim rstCrossRef As Recordset
Set rstCrossRef = DBCurrent.OpenRecordset("CrossRef", dbOpenTable)
```

is a long-winded way of saying that from now on, in this block of code, any reference to rstCrossRef is actually a reference to a table called CrossRef in the current database.

This does, of course, assume that the current database contains a table called CrossRef. See the form called "Open a database and a table" on this month's cover-mounted CD-ROM.

that appears you can type the heading of your choice into the Application Title box.

1. Loads a free toys

For those with access to the web, there is a raft of fun free stuff available for Access at www.microsoft.com/officefreestuff/access/. This includes the long overdue Wizard that

lets you print out your relationships without using multiple screendumps and other messy workarounds.

Those with experience of www.microsoft.com will know that you are well advised to download material while America is in the land of nod (approximately 8am to 1pm, our time).

PCW Contact

Mark Whitehorn welcomes readers' correspondence and ideas for the Databases column. Write to him at the usual PCW address (see page 12) or email him at database@pcw.co.uk



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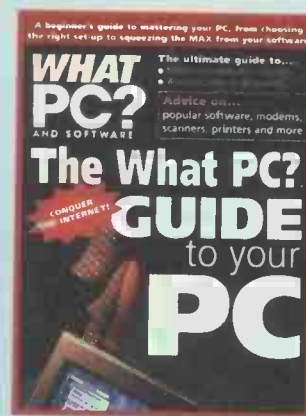
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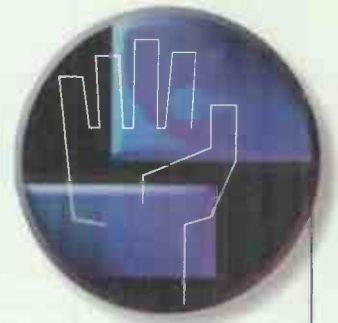
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Port of call

Roger Gann takes a look at Intel's Accelerated Graphics Port (AGP) multimedia graphics development. Plus, how overclocking could speed up your CPU — but don't go overboard!

Over the next few months I'll be looking at USB and IEEE 1394, or FireWire, peripheral interfaces. But for now, I'll give you the low-down on Intel's new graphics technology, the Accelerated Graphics Port (AGP). AGP is the third out of four multimedia graphics developments from Intel. It kicked off with MMX, then the Pentium II, and now AGP, and will culminate with Intel's own proprietary graphics accelerator chip, the i740.

Intel's purpose in developing AGP was to improve 3D graphics throughput. Those graphics require far more memory than 2D versions because of the need to store data such as display lists and texture maps, which are particularly memory intensive.

Today's PC applications seldom use a texture map, for the simple reason that's it not practically possible. However, the desire for improved realism, particularly in games, is pushing in this direction. Typical texture maps range from 2Kb to 128Kb. Today's applications average from 12 to 24 different textures of varying sizes in each scene. Thus, each scene generally requires several megabytes of texture-map storage.

To render the many scenes in a 3D application, like a game, at realistic speeds, many texture maps must be readily available in memory. This requirement is incompatible with the current model for 2D graphics on the PC, in which the graphics accelerator stores data in a dedicated frame buffer. Applications may require 5Mb to 10Mb of texture memory, beyond today's typical frame buffer size of 2Mb.

If all the necessary 3D data were kept in a frame buffer based on high-speed RAM, the cost of the additional memory would be prohibitive for mass-market PCs. Dedicating huge amounts of memory solely to the

graphics accelerator is impractical. One solution is to store some of the 3D data in system memory instead. This doesn't decrease memory requirements of 3D but allows other applications to use the memory when 3D applications are not running. The challenge is to enable the graphics accelerator to access system memory fast enough to feed the 30fps rendering that users want.

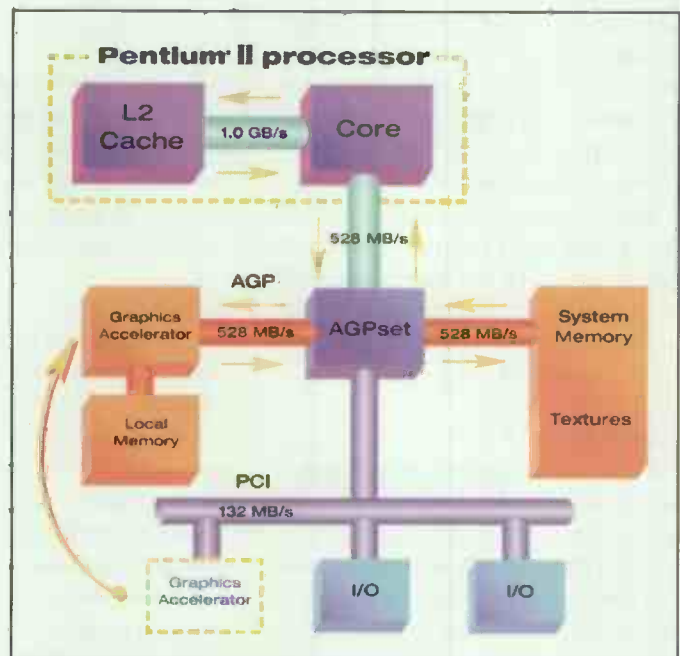
AGP in detail

The AGP specification is based on that of the 66MHz PCI 2.1 which doesn't have much support at present since all current PCI cards can only run at 33MHz. AGP adds three special extensions via so-called "sideband" signals, provided by some special lines added to the PCI connector:

- pipelined memory read/write operations;
- de-multiplexing of address and data; and
- timing for data transfer rate as if clocked at 133MHz.

All this is designed to improve throughput compared with the PCI bus which, at 33MHz, can deliver 132Mbps at peak rates over its 32-bit data bus.

This bandwidth has to be shared with



Diagrammatic representation of how AGP works

other peripherals and it relies on a slow software-based method for moving large blocks of data to the frame buffer. Because the typical texture map is stored in small, non-contiguous memory blocks in system memory, many CPU accesses are needed

Intel's 440LX AGPset

- Pentium II systems only.
- Supports AGP.
- Supports ACPI for remote management, quick boot-ups.
- Ultra DMA for better access to IDE hard drives and CD-ROMs.
- SDRAM for faster communication between CPU, graphics accelerator and PCI devices.
- Supports AGP OS and apps software. Drivers and controllers due 1998.

to retrieve the entire texture map.

The AGP bus runs twice as fast, at 66MHz, and so is capable of a peak rate of 264Mbps. This is in the so-called classic "x1" mode. However, if the "x2" mode is used, which transports data on both the rising and falling edges of the 66MHz clock, the data transfer rate can be redoubled to a theoretical peak rate of 528Mbps. As a result, the AGP peak transfer rate matches that of main memory which, in Pentium or better systems, operates with a 64-bit wide bus at a 66MHz-bus clock.

Thanks to the high data transfer rate between the graphics accelerator and main memory, AGP enables 3D graphics accelerators to use main memory instead of local memory to store texture data. These textures, previously loaded into the local graphics accelerator memory, can now be processed in main memory without a performance impact. Intel calls this technique DIME (Direct Memory Execute).

Most applications could use 2-16Mb for texture storage — by using AGP and DIME, they can get it. The main beneficiary of AGP will be high-end 3D graphics applications and games. Normal business applications will not benefit at all.

AGP hardware

AGP consists of a proprietary expansion slot and the Intel 440LX AGPset, although an "any-processor" Socket 7 solution is imminent from motherboard manufacturer, VIA. The AGP slot is very similar to the existing PCI slot but located further back from the rear of the motherboard to prevent inadvertent insertion of non-AGP cards.

The 440LX features Intel's Quad Port Acceleration (QPA) which increases overall system concurrency, bandwidth and performance. The QPA includes the direct connect AGP, dynamic distributed arbitration and multi-stream memory access. The AGPset also offers Advanced Configuration Power management Interface (ACPI) for enhanced power management and plug-and-play capability, Ultra DMA for faster storage throughput and SDRAM for increased RAM performance.

At present, AGP support is lacking in Windows 95 and Windows NT 4.0, so all you get with AGP is a faster data transfer rate and no DIME support. This support will arrive via DirectDraw in Windows 98 and Windows NT 5.0 next year. Parts like the direct pipeline from the graphics accelerator to system main memory would be

unaffected by the absence of OS support, but a major portion of AGP functionality, like the dynamic memory allocation required to allow video to peacefully co-exist with Windows in the same RAM space, would be missing without this support. So, Intel has designed a DirectX 5.0 software driver that will enable its AGP silicon to work with the current version of Windows 95, rather

Advantages of AGP

- Up to four times the bandwidth of PCI.
- Exclusive graphics bus.
- DIME; Direct Memory Execution of textures.
- CPU accesses to system RAM can proceed concurrently with the graphics chip's AGP RAM reads.

than waiting for Windows 98. Rumour has it that Intel postponed the launch of the 440LX chipset when it became apparent that the increasingly later release of Windows 98 would largely render the 440LX's launch meaningless.

Overclocking

I've had a couple of letters asking about processor overclocking and whether it is a good idea. Overclocking refers to the process of running your CPU at a clock or bus speed for which the CPU has not been specified; typically a higher speed. In most cases this is achieved by changing a few settings on your motherboard.

Sounds great; but is it safe? The surprising answer, in most cases, is yes. Provided you don't go wild with your overclocking, it will probably run just fine.

The big problem is one of heat: the faster a processor runs, the hotter it runs. Unless the CPU is cooled properly, this can cause the chip to overheat and be damaged by so-called "electro-migration", which is a kind of slow rotting of the silicon. Most chips can safely run at 80° C, which is too hot to touch, but a cooling fan can drop this to 50° or less, so the degradation needn't be a major threat.

This is true of Intel CPUs, which seem conservatively rated. CPUs from AMD and Cyrix are less conservatively rated and run much hotter as a result, so these are less suitable candidates for overclocking. There's far more scope with Intel silicon.

Another problem is that random system hangs can occur after overclocking. Windows 95 is very sensitive for some reason: I installed a faster Pentium in an old

PC and Windows 95 wouldn't load, telling me it couldn't find KRNL386.EXE. Hence, thorough testing of an overclocked system is an important precaution.

Finally, you should not forget the warranty implications: if you overclock, you will probably void your warranty.

There are two motherboard settings which need to be changed to overclock: the bus speed, and the processor multiplier. The Pentium supports three bus speeds (50, 60 and 66MHz) but some recent motherboards additionally offer 75 and 83MHz. To change the bus speed, look in your motherboard manual for something like "CPU External (BUS) Frequency Selection": these are the jumpers which need moving. Go easy here and just move the bus speed up a notch. If you do try the 75 or 83MHz settings, remember that this increases the PCI bus, from 30 or 33MHz to 37.5 or even 41.6MHz. This can lead to several problems with PCI devices like SCSI host adapters, some video cards and network cards. Each CPU uses a multiple of the bus speed — the so-called bus multiplier. A P120 uses an X2 multiplier on a 60MHz bus and a P166 uses an X2.5 multiplier on a 66MHz bus. Intel Pentium CPUs support the following multipliers:

Overclocking ingredients

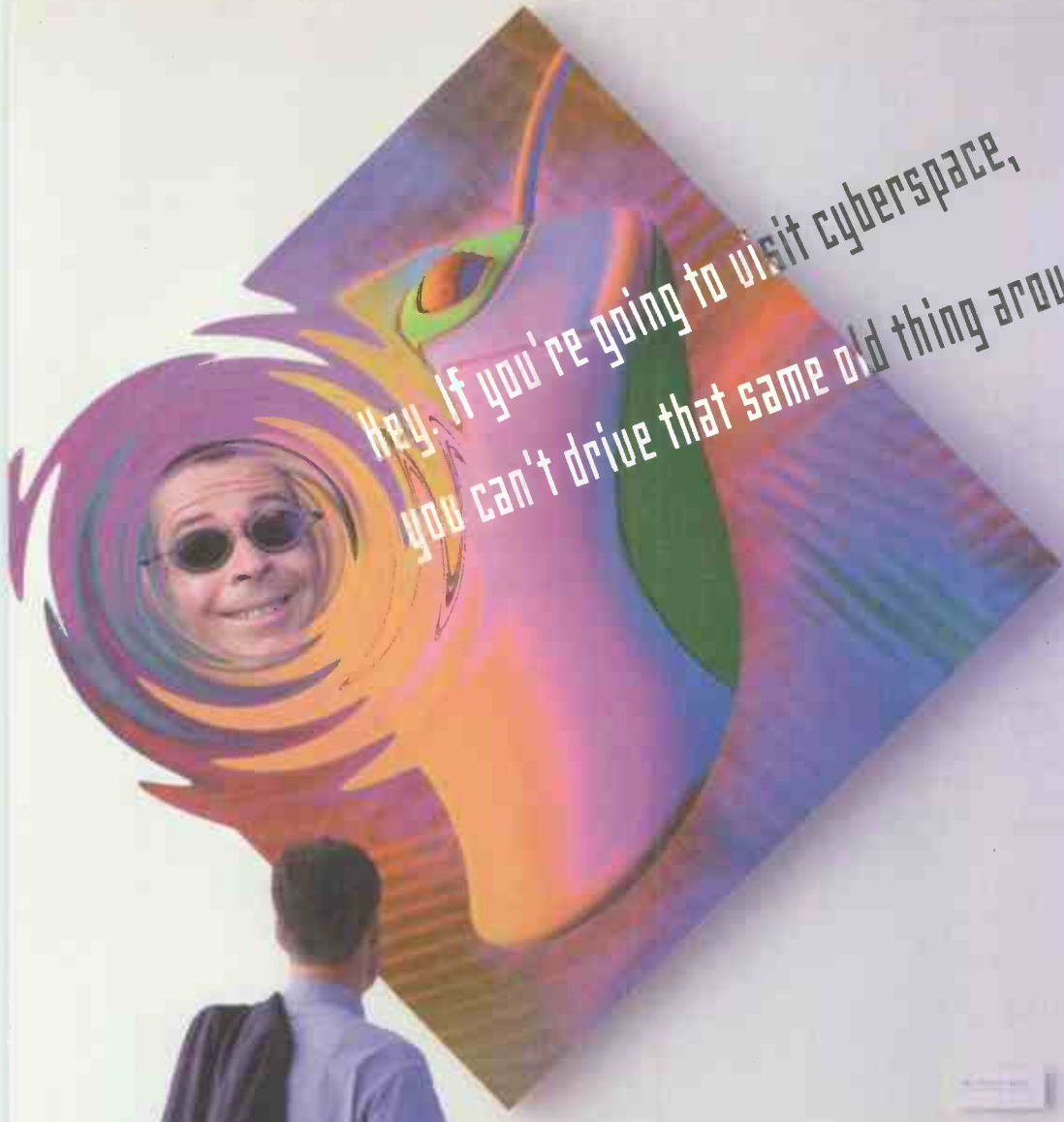
- Intel Pentium processor.
- Good-quality motherboard, capable of 75MHz or 83MHz bus speed, supporting a wide range of CPU supply voltages (overclocked CPUs need more juice).
- Good-quality RAM; fast EDO SDRAM.
- Decent CPU fan plus good heatsink.

X1.5, X2, X2.5 and X3. Intel Pentium Pro CPUs support X2.5, X3, X3.5, and X4.

To change this setting, find something like "CPU to BUS Frequency Ratio Selection" in your motherboard manual. For example, a P200MMX in the right motherboard can be made to run at 233 or even 250MHz. On the power supply front, merely switching from STD to VRE is often sufficient, but try increasing the voltage if the original settings do not work.

PCW Contacts

Roger Gann can be contacted by post c/o PCW at the usual address (p12) or via email at hardware@pcw.co.uk.



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No strings attached

Steven Helstrip and Rob Young continue their teach-in on realistic MIDI recordings by showing you how, with patience, you can create an authentic-sounding rhythm guitar part.

However hot your keyboard-playing skills, the rhythm guitar is one of those instruments that cannot merely be recorded in real time from a keyboard and considered as finished. Editing will always be needed to create an authentic sound, almost to the point of dumping the keyboard and step-recording the parts from scratch. But there's no great mystery or complication to creating realistic rhythm guitar parts: all it takes is patience, persistence and some knowledge of how the instrument is played.

With any rhythm guitar part it helps to have a few bars of drums and bass already recorded (when we start editing the timing of the notes, it's hard to tell how well it's going against a plain metronome beat).

We're concentrating on creating a simple rhythm that will sound best using an acoustic or a clean electric guitar patch (try patch 26 if you have a General MIDI sound source). All we're aiming for is a straight eight-beat rhythm (eight quavers on a chord of E major).

This is where some knowledge of string tunings comes in handy: guitar strings are tuned to E1, A1, D2, G2, B2, E3 from lowest to highest, assuming that your sequencer refers to Middle C as C3. Each of these strings can be raised in pitch by placing fingers on frets, so our E chord would consist of the notes E1, B1, E2, G#2, B2, E3.

How to do it

1. Set up your guitar patch and cue up to record a single bar. Don't worry about note velocities, feel, or trying to "sound like a guitar" as you play, but try to play all six notes on each quaver chord. You probably won't keep all these notes but it's quicker to delete the ones you don't want later on,



Start-Pos	Length	Val.1	Val.2	Val.3	Status
0002.04.364	424	A1	127	127	Note
0002.04.376	84	D3	127	127	Note
0003.01.004	372	C3	109	109	Note
0003.01.016	360	G3	109	109	Note
0003.01.064	308	E3	91	91	Note
0003.01.372	24	E3	118	118	Note
0003.01.376	24	C3	115	115	Note
0003.01.380	24	G3	123	123	Note
0003.02.164	428	A1	115	115	Note
0003.02.172	396	C3	115	44	Note
0003.02.184	288	E3	105	105	Note
0003.02.204	264	G3	109	109	Note
0003.03.088	104	G3	102	102	Note
0003.03.092	96	E3	92	92	Note
0003.03.184	24	C3	107	107	Note
0003.03.188	24	E3	92	92	Note
0003.03.192	24	G3	114	114	Note
0003.03.368	196	C3	112	112	Note
0003.03.380	280	E3	107	107	Note
0003.04.000	184	G3	109	109	Note
0003.04.184	180	C3	76	76	Note
0003.04.198	92	G3	95	95	Note
0003.04.280	84	E3	75	75	Note
0003.04.284	80	G3	82	82	Note

Above A typical single-bar rhythm guitar part in Cubase's list editor

Left Chained single-bar guitar parts on channels 1 and 3, each starting on tick 364

rather than insert the missing ones.

2. Move the single-bar part you've just created so that it starts on about tick 364 of the previous bar (assuming a sequencer timebase of 382). This is very much a rule of thumb, and you'll want to vary it according to the style and tempo of the song, but a guitar part will rarely sound good starting on the first tick of the bar.
3. Next, we need to create the alternate upward and downward strums. Accented strums are downward, which means that the first, third, fifth and seventh chords we recorded will play the notes in order from E1 up to E3, and those in between from E3 down to E1.

Another two rules of thumb: remove the three lowest notes from the upward strums and the two lowest from the downward strums that occur on the second and fourth beats of the bar. Place the notes of each chord in the right order, four ticks apart with the downward strums beginning on tick 364 and the upward strums beginning a little later, so that the final note of each strum

occurs somewhere between tick 380 and tick 4.

4. The next operation requires patience and persistence. Starting from the beginning of the bar, stretch the length of each note so that it ends a tick or so before the next note of that pitch occurs.

If two notes of the same pitch overlap, one or both of the notes will fail to sound; but if the gap between them is too great, the realism will suffer. This is a job for the list editor (Ctrl+G in Cubase) and a mathematical mind. When you come to the

Tip of the month

How many times do you begin a new MIDI arrangement with a four-on-the-floor kick pattern and then lay down a snare on beats two and four? Why not create a default template with the patterns already in place? And there's no need to stop there: label your tracks (bass, hi-hats) and set up your outputs for the most frequently-used instruments.

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The Yamaha DB50XG daughter-board took the market by storm, bringing the sounds of their professional synthesizers to PC desktops for a fraction of the cost. Its astonishing realistic sounds went light-years ahead of even today's wavelate cards. AND NOW, Yamaha release the MU-10 external sound-card! No more screw-drivers, no IRQ conflicts, no DMA problems, just connect to the serial-port (cable included) and install the software. This beats even the easiest plug-n-play cards. FOR SOFTWARE, Yamaha wouldn't settle for the stripped-down software often thrown in with lesser products. MU10 includes the CD-ROM version of Steinberg's brand-leading Cubasis, (not Cubase Lite). **£189.95** inc VAT no kidding!

BAND-IN-A-BOX 7.0
A "great-fun" package for people with little or no musical training. Type in chords (from a songbook or even at random), and select one of the built-in styles (over 100 available), and Band-in-a-Box produces a backing track. Automatic Soloing - Simply select the soloist you'd like to hear and play with (from over 100 available) and Band-in-a-Box 7.0 will create and play a solo in that style, along to any song! Notation Scrolling Ahead - If you are sight-reading the music off the screen, you'll be pleased to know that the music can now scroll ahead by one or two bars as can the lyrics display. has remained the market leader since its release in 1989, and the latest version is positively bristling with fun and easy features to spice up your musical experience. **£89.95**

Turnkey "Pro-Tech" Pentium
Two things we've noticed over the last year or so is the enormous growth of the PC hardware market, and the unfortunate proliferation of sub standard hardware. Our response to this is to launch the new Turnkey Pro Tech Pentium PC. Based on components carefully chosen for musicians, this workhorse machine will not let you down, or restrict your options in the future. Complete Cubase VSI P156 systems from £1199 inc. VAT

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Cue for a question

Q I'm sure I'm not the first to gripe about this and will probably not be the last, but it is nevertheless galling. Having put together a shiny new system based on AMD's K6-233 processor, I thought I would treat it to a half-decent sound card rather than the cheap no-name FM cards I have used in the past. So in goes an AWE-64 Value, load the attendant software... oh dear, what's this? Wavesynth/WG apparently requires a minimum of Pentium 90 and 8Mb of RAM and will not install.

Forgive me, but I thought a K6-233 and 32Mb of SDRAM were somewhat more capable than a Pentium 90 with 8Mb RAM? Apparently not. Yes, the small print on the box does state the minimum requirements as "genuine INTEL Pentium 90 or higher", but when buying the sensibly-priced way

(i.e. direct) one doesn't have the luxury of perusing the packaging beforehand.

Perhaps I have been lucky in the past, but in using a multitude of different programs over the years on a variety of Intel and non-Intel based machines, I have never come across anything that refused to run because the label on the processor didn't start with an "I". Is Creative Labs now so dominant that it can afford to risk alienating the growing number of owners of non-Intel PCs? Do you know of a workaround to this problem? Or failing that, can you suggest any cheap alternative software offering similar functionality?

brucep@lapwingcom.demon.co.uk

A You are right to state that you are not the first to come across this problem, but with any luck you may be one of the

last since Creative Labs has finally come up with a fix. The file you require, wswg95up.exe, can be obtained from Creative's home page at www.creaf.com.

There are also a number of so-called soft-synths you may want to check out to provide a further range of instruments. The best site I have come across is www.interlog.com/~willwong/softsynths/. Here you can find Yamaha's excellent S-YXG50 which provides up to 128 voices of editable XG sounds and is available on a 60-day trial basis.

Look out for Audio Compositor on our next issue's cover-mounted CD (sorry, we couldn't include it on this one because of space constraints). This is another popular soft-synth that behaves much like a sampler and supports E-MU's SoundFont file format to provide you with up to six more voices, or 32 when you register with \$40.

Micro Wave It

If you're sick and tired of the dull presets on your AWE-32/64 and want to inject some life into your mixes, you'll probably want to get your hands on this new CD crammed with ready-to-play SoundFonts. Dubbed as the essential SoundBlaster companion, Micro Wave It brings you more than 100 up-to-the-minute sound banks, providing a wide range of fresh synth pads, basses, drum kits and classical instruments.

Where appropriate, banks have been set up to provide a range of dry and effected patches, which are selectable via a simple program change. This is a nice idea, as a heavily-chorused electric piano can sound quite different to the source sample. Given the low cost of this CD, I was surprised to find that many of the patches have been multi-sampled to offer greater realism. Solo instruments, such as woodwind, come across really well because of this. There are six drum kits in the package, including banks for pop, garage, and one that is intriguingly entitled "Great". To ensure the patches will load into 512Kb, percussion samples have been set up into their own banks. Every sample has been provided in sbk, sf2 and wav format, so even if you don't own an AWE card you can still use the sounds with a soft synth, like Audio Compositor.

By the time you read this, an enhanced Wave It CD-ROM will be available which includes 25 drum kits and improved versions of all sounds, enabling greater dynamics and expression for users with 2Mb RAM or more. A new SoundFont editor featuring global editing and automatic pitch recognition will be included.

Watch this space.

■ Price Micro Wave It £19.95

(Wave It Gold £59.95)

Contact Time + Space

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Rating ★★★★★



last strum of the bar, think about the chord and voicing of the next bar: if this is going to be another chord of E you will simply copy the same bar, so stretch those final notes accordingly. If there is to be a change of chord, you would commonly silence all strings except the open ones (in this case, silence the G#) for 20-40 ticks at the end of the bar while the guitarist moves his hand.

5. Finally, set the velocities of the notes.

This is a matter of experimentation, but yet another rule of thumb dictates that upward strums will be quieter than downward strums and each successive note of a strum will be a little quieter than the last. It can be effective to increase the velocity of the highest note of a downward strum.

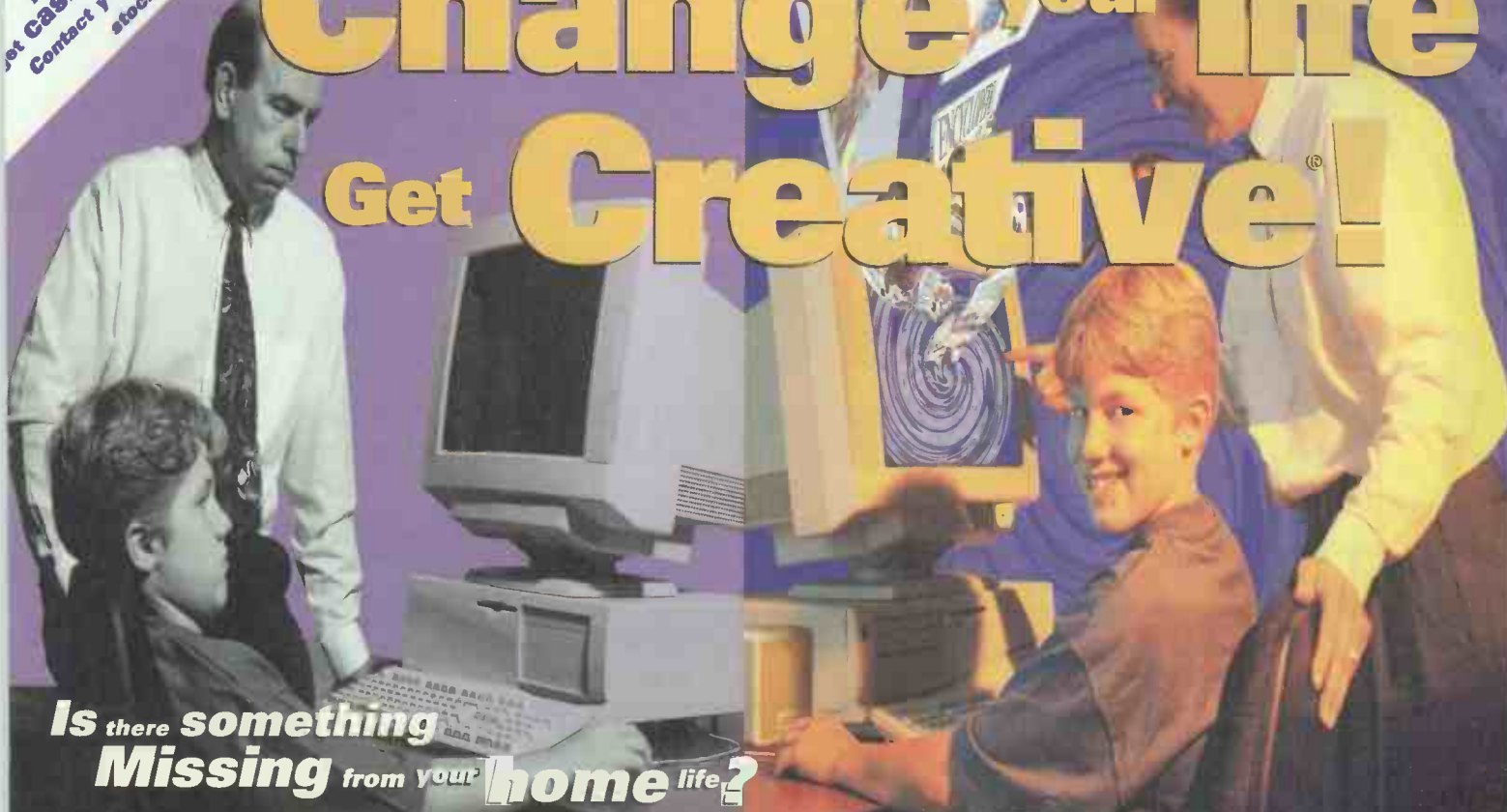
6. The final job, using this bar as a template, is to chain bars together to build a complete guitar track, editing the chords and voicings as necessary. The changes of chord will help to disguise the fact that you have chained identical parts, but always try to alter velocities here and there, and add or remove strums and single notes to create a more realistic "live" effect.

PCW Contacts

Steven Helstrip and Rob Young can be contacted at the usual PCW address (p12) or via email at sound@pcw.co.uk

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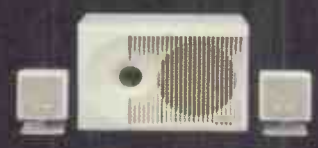
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Photo finish

A good-looking photomontage is dependent on the choice of suitable images. Ken McMahon's guide to CDs and web-site resources will help you find those perfect pictures.

Montage, as you know, is French for cut out lots of pictures and stick them together to make an exciting new composition from what, looked at individually, was a fairly mediocre bunch of snaps. If only the English language were as elegantly economical.

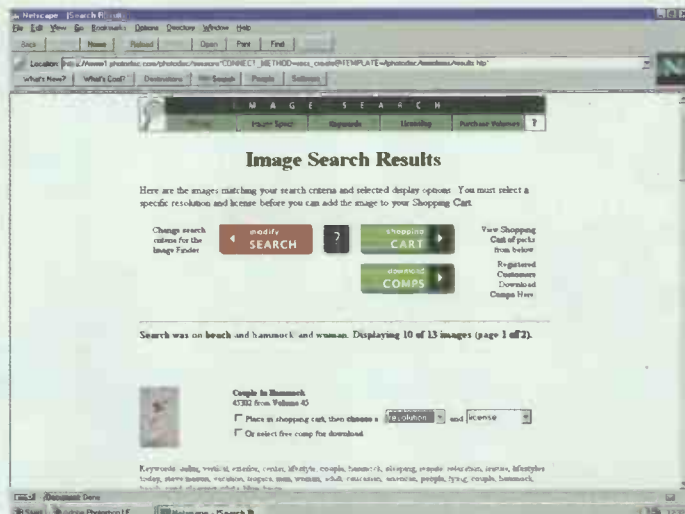
Photomontage is one of those things which benefits hugely from the digital treatment, being not only very much easier, but also offering a multitude of opportunities for creativity. Despite my earlier comment, to produce a good photomontage you need to have a smattering of interesting images to begin with. In contrast to photography which is used for illustrative purposes, clients often want a montage to convey something less concrete, like a concept or a mood, so it's often a case of finding the right kind of shot as much as the right subject matter.

My approach used to be to scour old books, magazines, cereal packets, videos, wallpaper sample books and friends' holiday snaps for appropriate material. While it can be quite good fun, this approach is often time consuming and not always successful. And thankfully, with the growth of digital royalty-free photolibraries, it is increasingly becoming less necessary.

Treated like royalty

Until recently, paying for commercial photography to add visual "oomph" to your page was an expensive business. Stock photo libraries typically charge from £100 to thousands of pounds for a single picture and you only get to use it once.

The idea behind royalty-free distribution is that you pay once and then use the picture as often as you like within the terms of the licence. Royalty-free pictures



The Photodisc site holds over 50,000 images

are usually sold as CD-ROM collections. The charges typically range from about 25p to £3 per image, making it a more attractive alternative to the arrangement previously mentioned.

Of course, you'll probably use only a few of the 100 or so images on a CD costing between £100 and £200, but this is still excellent value compared to commercial stock photo libraries, or to hiring a professional photographer to get the exact shot you need. In fact, buying a CD collection is usually even cheaper than taking the pictures yourself, once you've added up the cost of film, processing and your own time. Of course, only someone with more money than sense would pay £100 or more for a collection of pictures they hadn't seen.

How do you know that a certain CD will have something you can use? Where do you start to look for a picture of the pyramids at Giza, taken at sunset, with camels in the background and a fez-seller in the foreground? The answer is on the web.

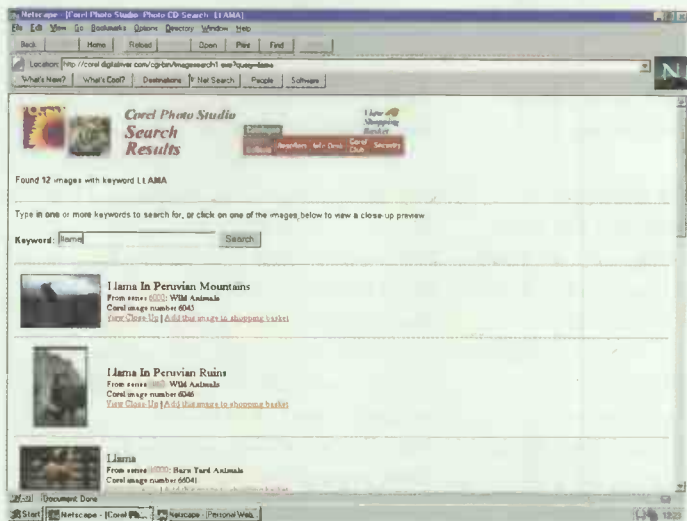
Instant images

These days, most vendors of CD-ROM collections sell their products via the web and some allow you to download individual images. This way, you really can have your cake and eat it. If you do a lot of foody design, say (cookbooks, menus and so on), you can buy entire CDs; but if you want a picture of Mount Everest, rather than spend a hundred quid on a "Mountains of the World" CD, you can pay a smaller fee for the particular picture you want.

Many of the royalty-free picture libraries on the web allow you to download low-resolution images for nothing (you'll probably have to register to do this). You can use these in your visuals and if your client likes them, just download the individual image or order the CD on which it appears.

CD collections

What follows is a small selection of CD-ROM collections and web sites that offer royalty-free images. Next month, we'll use some of it to create a montage in Photoshop.



There are llamas galore at the Corel web site

■ **Photodisc**

www.photodisc.com

Photodisc has over 50,000 high-resolution images, all available for immediate download from its US web site. It also has one of the best search engines of any of the online photolibraries. Seventeen thousand images are available on CD. Series include animation, backgrounds and fine art. On the US web site each of these 100-image CDs costs \$249.

There's a UK section at www.photodisc.com/uk with special offers like the vol.43 Business Occupations 2 which has 336 images and costs £229 (ex VAT). The drawback with the English bit is that there's no searching and no online ordering: you have to call an 0800 number.

The sheer quantity of images means you can usually find something that matches your search. I tried "Egypt And Nile" and got 25 pictures of Feluccas. "Communication AND Computer AND Network" scored four pictures of the same SCSI cable taken from different angles with different backgrounds! You can get a Starter pack for £29 which has 20 high-res pics and 10,000 low-res images: when you find what you're looking for, you download the high-res version or order the CD.

■ **Corel Professional Photos**

www.cmmi.com

www.corel.com

This web site is just a shopfront for the Corel CD photo collection, among other products distributed by Channel Market Makers.

You cannot search for images or download them individually. However, the CDs are very cheap, which makes them ideal for home or commercial use where budget is the watchword. At £19.95 each,

the CDs contain 100 images in Kodak's Photo CD format.

Photo CD stores images in five resolutions, the highest of which is adequate for quality print reproduction at 10in x 8in. There are over 700 titles which you can buy as bundled Super Ten Packs: these really are exceptional value for money at £39.95, the cost of two individual titles. The Super Ten Pack titles include Aircraft, Animals, Architecture, Business and Industry, Cars, England, Food, Gardens, Sport & Leisure, Textures, Travel and Underwater.

Corel's Photo CD images are not of the same excellent quality as the drum-scanned images used by Photodisc and Digital Vision, but for most purposes they will be good enough.

The Corel web site has a searchable database of more than 71,000 images, also in Photo CD format. These can be purchased individually, although if the picture you want is on one of the CDs it obviously makes sense to buy that. You can download at any of the Photo CD resolutions up to the maximum 3,072 x 2,048 (roughly 10in x 8in at 300dpi) which costs \$24.99 — the lower resolutions are cheaper and the thumbnails are free. To give you an idea of the scope of the Corel library, it has over 100 images of African antelopes, for instance.

■ **Adobe Image Club Graphics**

www.adobe.com

This is part of Adobe's online shop and sells a range of typefaces as well as Digital Vision's royalty-free CD collection.

Each disc contains 100 drum-scanned images at three resolutions, the highest of which produces a 30Mb file — big enough for 10in x 8in quality print reproduction.

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Ken's question corner

QI found your November column highly illuminating but one question puzzles me: is it possible to bypass the output bureau when preparing photos for printing?

I produce a monthly newsletter, for a local charity, which is printed (offset litho, 750 copies/month) from 600dpi laser copy (i.e. not from film). We would sometimes like to use photos. Is it possible to produce acceptable halftones directly by scanning monochrome and/or colour prints, incorporating them directly into the camera-ready copy?

I realise that print quality would be reduced, relative to film, but we cannot afford to have them professionally

scanned-in each month or individually screened, all ready for pasting up onto the copy.

I suppose what I'm asking is whether I can get away with the same process, resolution and so on, as when printing photos on a laser printer. Your advice would be very welcome.

Graham Lewis

A Yes, it is perfectly possible to print acceptable black-and-white halftones on a 600dpi laser printer. If your layout package allows you to set a halftone screen resolution, experiment with settings between 75 and 90 lpi, which will give you a good compromise between resolution and greyscales. (If it doesn't, don't worry — the printer's default

halftone screen will work fine). Most newspapers use a 66- or 75-line screen.

The limitation is not the resolution of your laser printer but the capability of the process used by your printer. Some printers, particularly those at the cheaper end of the market, use plastic or paper plates which can't "hold" the halftone dots so well: the ink spreads and images become heavy and blotchy. The paper you use will also affect this "spread". Coated art papers will minimise this.

Your printer will be able to give you advice about the best halftone screen resolution to use. He should be able to provide you with some paper samples and, if he's nice, may proof a spread from your next issue (for a small charge).

Titles cost \$249.99 and include Amazing Creatures, Business in Action, Children Now, Globes and Maps, and Industry and Technology. Digital Vision also has a Design Elements Library including Floral Design Elements and — one for all you fork fetishists — Culinary photo objects. There's a starter kit which costs \$12.99 and has 3,000 low-res previews. Like the Corel collection there's no online search option, and you can't purchase images individually.

Alternatively, you can visit Digital Vision's own site at www.discography.com where you can search categories. In Business and Industry, an eight-CD category containing some of the titles mentioned above, searches for "telephone" and "computer" yielded 29 and 84 hits respectively.

The CDs are all priced at £199 and Digital Vision will also give you the starter pack free of charge.

■ **Other sources of royalty-free pics are:** www.cd-enterprises.co.uk — reseller of CD collections.

www.picture-gallery.com — Flat Earth Picture Gallery.

www.handbook.co.uk — UK multimedia handbook, contains directory of London-based stock photo libraries with links.

www.icemail.com/shop/item1999.html — seven 100-image CDs for \$16.95 each or \$99 the lot (0800 order line).

www.digital-directory.com/stock.html — directory of stock agencies including royalty-free CD collections.

www.lifestyle.co.uk/ebab.htm — directory of UK photography sites.

Feedback

■ Dave Renton sent me an email about the lack of PC-based output bureaux and the problems he's encountered finding places

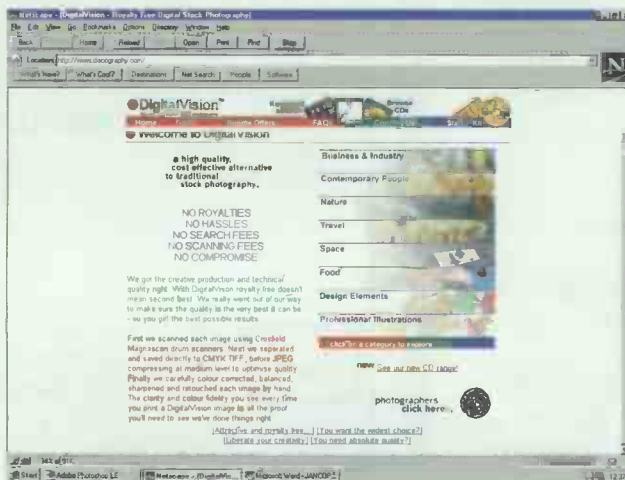
which will run files from the less well-known PC layout packages. If anybody out there offers an output service from something other than XPress and PageMaker, please let me know and I will compile a nationwide PC bureau guide. Also, Dave asks: "Are you

Digital Vision's site has an excellent search facility

going to be writing about duotones in a future article? This is a great way to add an extra dimension to a two-colour document but can be costly if you don't get it right. I have recently been working on a newsletter, supplied by a designer, that used two colours throughout, but I had to spend two hours' worth of studio time correcting all the duotone pictures."

The big mistake I once made with duotones was to forget to set the screen angle of the second colour, with the result that the coloured halftone dots printed over the black ones and I got a weak-looking mono halftone. It's true, though, that duotones are an excellent way to add a touch of class to a two-colour document, and I'll work on producing a quick guide for publication in a future issue.

■ Following on from our top ten plug-ins feature a couple of months ago, Andrew Buckle would like to spotlight some of the less well-known plug-in sources like www.netins.net/showcase/wolf359/adobe_pc.htm which contains a bucket-load of Filter Factory-produced plug-ins, including... well I never, a whole load produced by Mr Buckle himself. You'll find lots of other freeware and shareware graphics resources here, too.



PCW Contacts

Ken McMahon can be contacted at the usual PCW address (see page 12) or via email at graphics@pcw.co.uk

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- 24 speed MAX CD-ROM drive
- Creative Labs 3D wavetable sound with advanced 3D sound effects, top quality stereo sound and software wavetable
- Executive speaker system with subwoofer (shown)
- ATX midi-tower system unit with 6 drive bays
- VideoPhone-Receive: hardware and software for standard incoming videophone calls. Colour video camera interface included. Optional plug-in camera and microphones required for full receive and send facility
- Advanced PC-TV system: multi-channel PCI TV tuner with scalable/full-screen TV window; professional Teletext with video capture facility
- Ports: two USB; 2 serial; enhanced parallel; joystick; sound; microphone; PS/2 keyboard and PS/2 mouse
- Sockets/slots: three ISA and three PCI expansion slots
- 105 PS/2 keyboard; PS/2 mouse and 3.5" 1.44Mb floppy drive
- Microsoft® Windows® 95 with manual and CD
- Lotus SmartSuite 97, Pressworks, Designworks, Homewise, SmartPics and Quicken pre-loaded
- IBM Anti Virus and IBM Simply Speaking Gold voice recognition software
- 10 Multimedia CD titles



Colossus 266-2 System 97 3B

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- 6.4Gb Seagate ultra ATA hard disk
- ATI AGP Rage Pro 3D graphics card with 8Mb SGRAM, Microsoft direct 3D support and full-screen MPEG video playback
- 17" SVGA 0.28dp NI colour screen
- 56k Flex voice fax/data/Internet modem using Rockwell 56k hardware chipset. Flash upgradeable
- 24 speed MAX CD-ROM drive
- Creative Labs 3D wavetable sound with advanced 3D sound effects, top quality stereo sound and software wavetable
- Premium mains powered speaker system (not shown)
- ATX midi-tower system unit with 6 drive bays
- Video Conferencing-Receive: hardware and software for standard incoming videophone calls. Colour video camera interface included. Optional plug-in camera and microphones required for full receive and send facility
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VideoPhone allows visual video broadcast over standard telephone lines. These systems are fitted with appropriate modem, sound, video capture and video conferencing software. With the optional microphone and video camera they deliver full video conferencing with the ability to send and receive VideoPhone calls.

VideoPhone Receive only

Systems listed have been configured with appropriate hardware and software to receive standard video broadcasts. A video camera and microphone are not included as standard.

Full VideoPhone

By purchasing the optional microphone and video camera, these systems can send and receive video broadcasts.

Speech Recognition

IBM Voicetype Simply Speaking GOLD is one of the most advanced speech recognition packages available and is included preloaded as standard on most systems. With the optional microphone, these systems have the ability to recognise speech. You can instruct verbally many commands in Windows 95 and dictate virtually into any Windows 95 application.

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Systems with PC-TV tuner have all the benefits of a standard TV with ability to run in a sizeable window or full-screen. The advanced Teletext facility allows the system to cache all the teletext pages quickly allowing fast searches. Included with the PC-TV system is a video capture facility. Unlike the Internet, all this data is free as there are no telephone charges.

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- 64Mb high performance SDRAM
- 512k Pipeline burst cache
- Intel ATX motherboard with Intel 440LX chipset and Year 2000 compliant BIOS
- 6.4Gb Ultra DMA-33 EIDE hard disk
- ATI Rage II 3D 64-bit graphics card with 4Mb dedicated video RAM, Microsoft direct 3D support and full-screen MPEG video playback.
- 17" SVGA 0.28dp NI colour screen
- 56k Flex voice fax/data/Internet modem using Rockwell 56k hardware chipset. Flash upgradeable.
- 24 speed MAX CD-ROM drive
- Creative Labs 3D wavetable sound with advanced 3D sound effects, top quality stereo sound and software wavetable.
- Premium mains powered speaker system
- ATX mid-tower system unit with 6 drive bays
- VideoPhone-Receive: hardware and software for standard Incoming VideoPhone calls. Colour video camera interface included. Optional plug-in camera and microphones required for full receive and send facility.
- Advanced PC-TV system: multi-channel PCI TV tuner with scalable/full-screen TV window; professional Teletext with video capture facility
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- Sockets/slots: four for SDRAM; 3 ISA and 3 PCI expansion slots.
- 105 PS/2 keyboard; PS/2 mouse and 3.5" 1.44Mb floppy drive.
- Microsoft® Windows® 95 with manual and CD
- Lotus SmartSuite 97, Pressworks, Designworks, Homewise, SmartPics and Quicken pre-loaded
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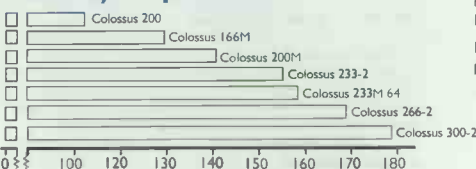
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COLSMM3A



Physical jerks

Stretch it, warp it, wobble it or bounce it. Benjamin Woolley explains how to add solid physical characteristics to objects by using HyperMatter, a simple plug-in to 3DStudio MAX.

Physicists like to boast that the laws of nature apply across the entire universe. If we could fly to the furthest galaxy, we would find gravity exercising the same pull as it does on earth.

But such laws do not extend to the virtual universe. In the realm of 3D graphics there is no gravity, no mass, no momentum and no friction. Scenes comprise nothing but geometry, the models that inhabit them being nothing more substantial than surfaces which are knitted together in such a way as to describe a recognisable shape.

That shape may be given the appearance of solidity by being clothed in a texture. It may even be a texture (a "procedural" one) that in some way mimics a physical material. For example, most 3D graphics packages now come with procedural textures for mimicking wood and marble, which reproduce the sort of grain or veins that would be seen in an object sculpted out of those materials.

Zero gravity

But even the most realistically-rendered marble column or wooden table has only the visual features of the object it is supposed to represent: it will have none of the physical qualities. If your column and table stood on a sloping surface, the column would not topple nor the table slide. The force of gravity means nothing.

Usually, if you are rendering still images, you can either simulate or ignore such forces. However, if you are animating objects, the lack of physics can create real difficulties. Even the most simple of behaviours are difficult to reproduce. Objects unexpectedly float, pass through other objects, drift off to infinity and so on.

The scene quickly transforms itself into a maelstrom of mad flying objects.

Furthermore, trying to mimic even the simplest dynamics such as an appropriate bounce for a ball textured to look like it is made of rubber, can verge on the impossible. You not only have to get the bounce right in terms of changes of velocity and trajectory, but you also have to deform the ball as it hits the ground.

Tweaking, squashing and morphing

You can tweak the velocity and the trajectory by editing the path and moving the position of key frames. You can deform the ball by creating two identical versions, squashing one up and then morphing between the two. But with each change you must re-render the animation to see if you are getting closer to the desired result, which makes the process very laborious. And unless you are prepared to create a key for every frame of the animation, the dynamics will inevitably look artificial.

Things are about to change. Physics has entered the 3D graphics world. The leading mid-market packages, Truespace and Ray Dream Studio, now come equipped with tools for adding physical properties to objects. I have also been trying out a plug-in for 3D Studio MAX called HyperMatter, which offers one of the most sophisticated so-called "physics engines" for reproducing physical phenomena.

You can get a form of physics in cheaper software. VRML 2.0, the standard modelling language of the internet, includes facilities for reproducing that most fundamental physical property of solid objects, impenetrability. By using the collision detection parameters, you can at

least prevent objects and avatars from walking through walls and dropping through floors — a common occurrence in VRML 1.0 worlds.

Truespace and Ray Dream Studio offer a lot more than collision detection. They boast the ability to simulate gravity, elasticity, density and, in Truespace's case, "torque" for any selected object in any given scene. I haven't yet managed to spend enough time with either of these packages to be able to assess how well the physics work, but I have spent some time with HyperMatter, an intriguing plug-in for 3D Studio MAX from Second Nature Industries.

Both DOS and Windows versions of 3D Studio have been disappointingly lacking on the physics front, so HyperMatter is a welcome enhancement, if rather expensive at £485 (which you have to pay over and above the cost of 3D Studio MAX). What you get is a set of tools which plug straight into MAX's rather cluttered interface. The basic principle to using HyperMatter is simple: you select an object and press a button which "solidifies" it. This creates a new object, identical in size and shape, but with physical attributes.

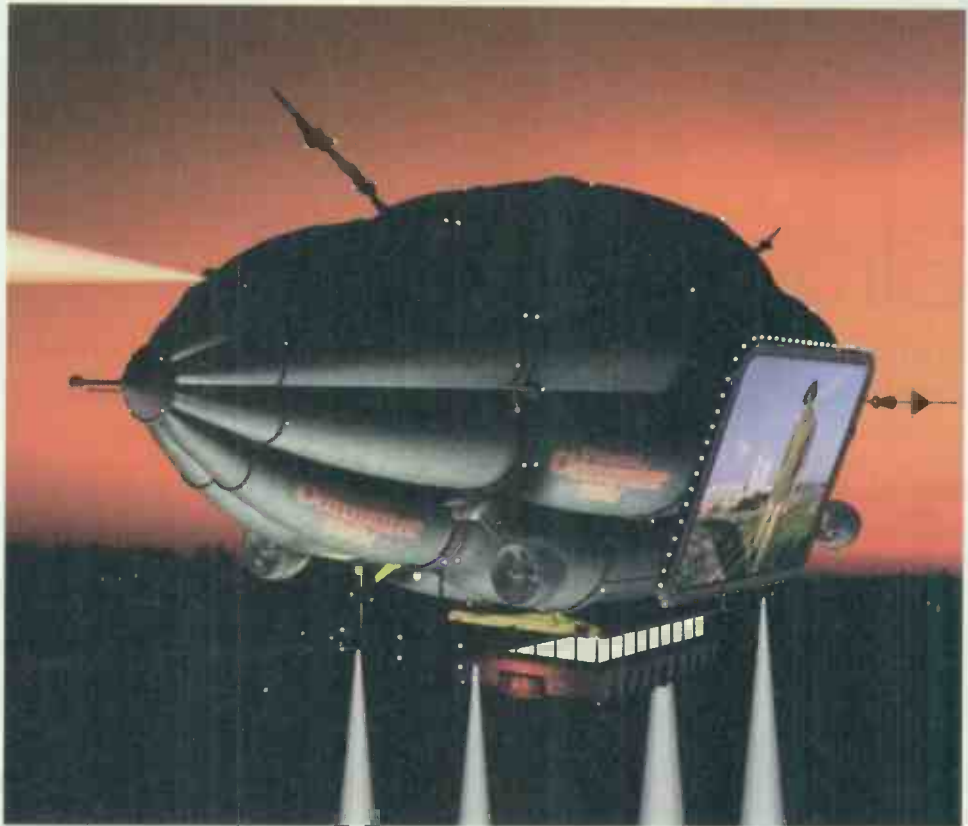
Falling over

Physics, as it turns out from using tools like HyperMatter, is not all that simple, as you soon discover when you begin to play with solidified objects. To start with, they do not do what you instruct them to do. But then, this is inevitable, because forces like gravity will have an influence over how the object moves. So when you solidify an object which you are animating, the first thing you find when you come to play the animation is that it falls — and unless you have created

Benjamin's book review — 3D Graphics & Animation

I cut my 3D teeth on a book called *Inside 3D Studio*, and I approached its UK distributor, Prentice Hall, for review copies of some of its other titles. A few phone calls later, what seemed like a skipload of breezeblocks tipped into my office: an extensive library of hefty volumes about various aspects of 2D and 3D graphics. The image alongside resulted from working through the only book not to focus on one particular graphics package: *3D Graphics & Animation* by Mark Giambruno.

It is a useful, intelligent, introduction to general principles, and includes tips (unfortunately, US-orientated but nevertheless useful) on building a portfolio and getting a job. It's expensive at £42, but that includes a CD-ROM and some detailed tutorials. It would be particularly useful to a novice with ambitions to become a pro, especially one who has managed to blag an old copy of 3D Studio.



another object to act as the ground, it keeps on falling. This is because the default "substance" from which a solidified object is made, is one with weight.

The second confusion is that physical forces are features of the object, not the environment. You do not switch gravity "on" and watch everything start to sink. Unsolidified objects remain as gravity-free as before. They also remain as penetrable, with even solidified objects passing through them as if they were not there.

The reason for allowing you to create a world in which physics is both present and absent is twofold. Firstly, you may want to break the laws of physics once in a while (that, after all, is one of the freedoms computers allow). Secondly, the "physics engine", which has the job of calculating the interactions and dynamics of each solidified object, is a guzzler: it takes up huge quantities of processor cycles. You can easily double the time it takes to create even a preview of your animation, so you need to add only the physics you need.

Mind you, once you start adding physics to a scene, it is hard to stop — this tool is enormous fun. Dead objects come to life as you start to make them wobble, warp, sag,

ripple and flop. HyperMatter includes a library of preset substances (with wonderful names like "Water Bomb") but all the parameters are editable, so you can create just about any substance you can imagine. These parameters include:

- elasticity;
- damping, the degree to which a solid object resists changes to its shape;
- compressibility, the degree to which an object loses volume as it is compressed; and
- friction and density, which determines the object's effect when it hits another: the denser the object, the greater its influence over the collision's outcome.

You can also set constraints on objects, the most important being the collision restraint (for collision detection).

Size matters

There are subtleties involved in adding physics to a scene, which you come to appreciate only when you begin to grapple with the technology. One such subtlety is the importance of size, and what it really means. In the real world, two objects of identical shape but different sizes will behave differently. For instance, while a small ball made of soft rubber will keep its shape, a

large one will tend to sag under its own weight. HyperMatter simulates such differences by allowing you to adjust the degree and speed at which certain forces are applied.

It soon becomes apparent that adding physics does not necessarily add realism to a scene; sometimes it has the opposite effect, allowing you to make teapots of rubber and mice of jelly and see what happens when, using a cannon, you shoot them at a wall. However, even if an animation becomes less realistic, it also becomes less artificial. The dynamics are no longer so rigid and uniform, the shapes so static and flat. For these reasons alone, the introduction of solidity to 3D graphics is welcome, and I hope it will not be long before physics is as ubiquitous in the virtual universe as it is in the physical.

PCW Contacts

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HyperMatter from Second Nature Industries
www.2n.com
 Prentice Hall 01442 881900



Strands of DNA

What's in store for the future of programming? Java is of course a hot development topic, and Microsoft, not to be outdone, is busy developing the intriguingly-named Windows DNA.

There is only one hot topic in the development world just now, and it begins with J. All the big questions (how to do internet development, distributed objects, which language to use, which operating system to run) are affected by Java and its future.

At the time of writing, two interesting events have occurred. One is Microsoft's PDC (Professional Developer's Conference) held in San Diego, from which I have just returned. The PDC is where Microsoft unveils its software development strategy for the coming year. The other event is that Sun Microsystems initiated legal action against Microsoft for alleged breach of contract in respect of Java's implementation in Internet Explorer 4.0.

This column is not about industry politics, though, but about practical issues facing developers, and Java is just such an issue. You have a software project: should it be implemented in Java, Visual Basic or C++? A decision in favour of Java is particularly fundamental. In effect, you are no longer creating a Windows application but a Java one. Java has become your platform. You will very likely continue to run it on Windows. But consider what difference it makes when you next replace your computer. The priority may be not how well it runs Windows, but how well it runs Java.

Sun owns Java, and Java is developed on Sun computers running Solaris. In other words, the best platform for Java may not be a Windows system at all. It is not

surprising that Microsoft and Sun don't see eye to eye on the subject.

There is an uneasy alliance of software and hardware companies, including Sun, Netscape and Oracle, which is sometimes described as "Anything but Microsoft". The theme of the PDC could equally be called "Anything but Java".

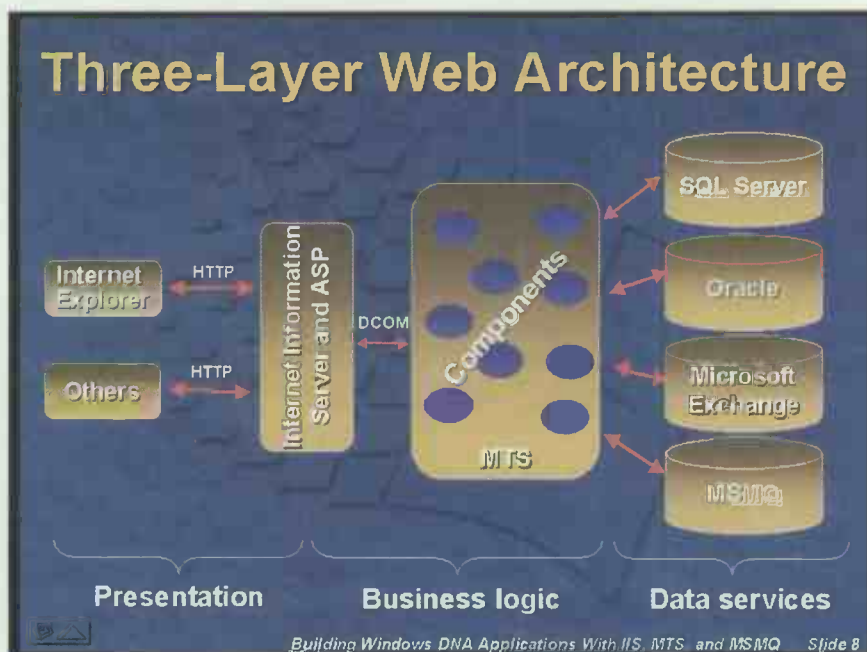
Windows DNA

Microsoft has a Java development tool and a Java virtual machine, but it is a company with nothing to gain and everything to lose from Java's success. The focus of the PDC was a new framework called Windows DNA (Distributed Internet Applications Architecture). It is hard to summarise what Microsoft means by "Windows DNA" but the gist of it is: applications using Internet Explorer, clients with Windows NT and Internet Information Server at the server end. The client application uses HTML beefed up by scripting and the new features of Dynamic HTML.

The real work of the application is handled by application components running on the server or elsewhere on the network. Communication between components, including dynamic database access, is through COM, the ActiveX component model. In this scenario Java still has a place, but as another way to write a client-side control or a server-side component.

Much of the infrastructure for writing Windows DNA applications is already in place. A key part of it is Microsoft Transaction Server, which provides intelligent management of COM objects. Another important element is the Active Directory, coming in Windows NT 5.0, which makes sense of user management.

As an aside: from what we saw at the



Three-tier web applications the Microsoft way involve Internet Explorer and COM components. No sign of the J word

How to get started with Java

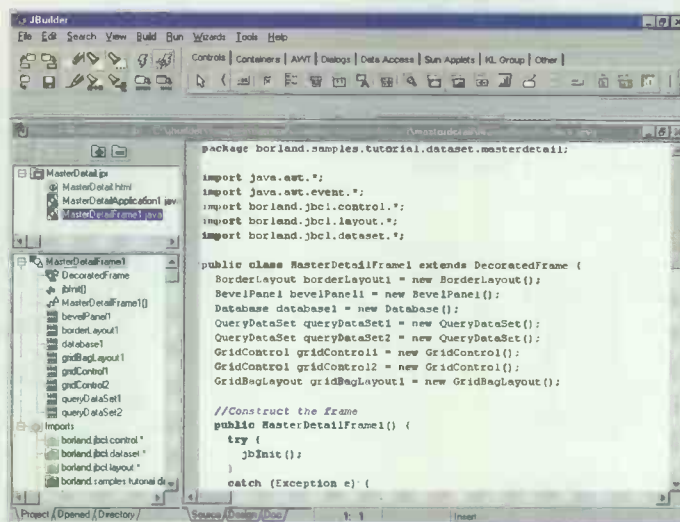
You will love coding with Java. It is clean, object-orientated, productive, powerful and many other things (as fans of Java are keen to point out). Java is not all plain sailing, though. Here are some tips for getting started.

- Visit www.java.sun.com and download the latest Java Development kit (JDK) and the online Java tutorial. Both are free. The advantages of starting with the JDK are that you have the most up-to-date implementation, you achieve a good understanding of Java basics uncluttered by the characteristics of a particular IDE, and the command-line tools are less system-hungry than other Java tools.

- Understand the two kinds of Java project. Applications run standalone (using the Java runtime library) like a Visual Basic program. Applets run in a browser, or in Sun's AppletViewer.

- Applications have unrestricted access to files and other system resources, whereas applets are limited, for security reasons, in what they can do. For instance, applets cannot use the JDBC-ODBC bridge to access databases, since ODBC drivers run in native code on the client machine.

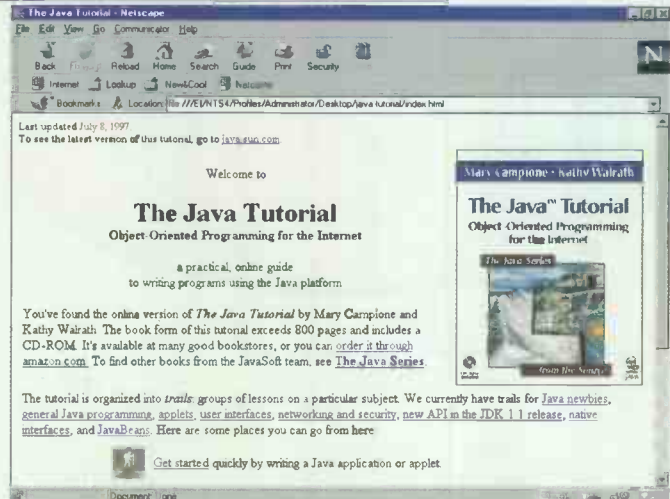
- Expect a culture shock if you are a Windows developer. For instance, Java tutorials are full of stuff about layout managers of which a Windows developer has never heard. This is the price you pay for Java's cross-platform approach. Positioning of controls needs to be relative, not absolute.
- There is a new generation of Java development tools which use JavaBean components for fast visual development. Examples are Borland JBuilder, IBM VisualAge Java, PowerSoft PowerJ and Symantec Visual Café 2.0. Despite many excellent features, all these products are system hungry and not always stable. I would recommend Windows NT with 64Mb RAM or more as a minimum.



- Be clear about why you are using Java. It is outstanding for cross-platform work, for learning object-orientated programming, for distributed applications and for riding what is probably the wave of the future. It is currently poor for those applications where performance is critical, or those which need a rich graphical interface or multimedia capabilities.
- Java deployment can be as easy as putting an applet on a web server. On the other hand,

Left A package like JBuilder is slicker than using command-line tools, but beware instability and system requirements

Below Want to learn Java? This online tutorial is both up-to-date and free to download



be warned that browsers vary in how they implement Java. If you want to distribute a Java application, use Sun's Java Runtime Environment (JRE) to set up a Java Virtual Machine along with your application.

PDC, NT 5.0 looks excellent: easier to manage, more scalable, and plugs the gap between NT and Windows 95/98 by including plug-and-play, better games and multimedia support.

Will DNA do it?

Windows DNA is packed with clever ideas, but will it work? Undoubtedly it can be made to work, and it does have advantages. One is that performance may be better than a Java-based system, because most processing is carried out by compiled components that either run on the server or are only downloaded once. Another is that migration of existing code may be smoother because all you need to do is expose its interface through COM. Tools like Visual Basic, Visual C++ and Delphi make this easy.

There are several problems, one of which is the complexity of building applications which incorporate so many diverse elements — at a minimum, HTML, scripting, and COM components. Anyone who has worked with moderately complicated web applications will know that using HTML as an application interface is a maintenance nightmare. Also, COM has messy aspects, in particular the need to register client-side components.

The Windows registry is hard to manage. COM components run natively, which is good for performance but makes integration with Mac or Unix systems hard. The solution is to use COM only on the server, putting all the client-side logic into HTML, scripting, or indeed Java. It is not ideal though.

Another factor is that Netscape Navigator and Internet Explorer have many differences. These include how Dynamic HTML is handled and Navigator's lack of support for ActiveX. If users run Navigator, it is difficult to create full-featured Windows DNA applications. Overall, my suspicion is that building good, manageable Windows DNA applications will be possible, but hard.

What about Java?

Some of these considerations, like the need to incorporate HTML and scripting into your application, also apply to Java. But Java still has performance problems.

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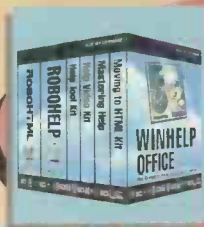
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Anderson answers...

Q I am using Delphi and have designed a database form with several DBEdit fields on it. When the user selects one of these fields I want its background to change colour. The problem arises when I try to create common event handlers for all the DBEdit components on the form. I have tried to change the background colour of the component using either Sender or ActiveControl [as the code in Listing 1 illustrates].

Unfortunately, the only thing these routines succeed in doing is to alter the colour of the form and not the DBEdit.

Kevin Parsons

A This question illustrates several of Delphi's features. Event procedures have a Sender parameter, making available the object which called the event. So why can't you change its Color

Listing 1

```
procedure TForm1.DBEdit1Enter (Sender :TObject);
begin
  with Sender do Color := clRed;
end;
```

Listing 2

```
procedure TForm1.DBEdit1Enter(Sender: TObject);
var
  thisEdit: TDBEdit;
begin
  if sender is TDBEdit then
  begin
    thisEdit := TDBEdit(Sender);
    thisEdit.Color := clRed;
  end;
end;
```

Listing 3

```
Declare Function PlaySound Lib "winmm.dll" Alias "PlaySoundA" (ByVal lpszName As >
String, ByVal hModule As Long, ByVal dwFlags As Long) As Long
```

[Key: > listing continued on next line]

Listing 4

```
Dim lRetVal As Long
lRetVal = PlaySound("C:\WINDOWS\MEDIA\CHIMES.WAV", 0, 0)
```

property? The answer is that Sender has a type of TObject, which doesn't have a Color property. Neither does ActiveControl, which is of type TWinControl. In this example, the event procedure is a method of TForm1, so Delphi correctly changes the Color property of TForm1 instead.

The solution is to use a typecast. This tells Delphi that Sender is actually a TEdit control, which does have a Color

property. The amended code is like that shown in Listing 2. The line "if sender is TDBEdit" is not essential in this case, because you can ensure that the event is only attached to DBEdit controls. It is useful if you have code which you want to attach to more than one type of object.

Q I am still learning Visual Basic and use the v5.0 learning edition. I am trying to write

a program that will make heavy use of playing WAV files, but when I use the OLE function the WAV file plays, although there is an error message in hex format.

Could you please tell me how to play a WAV or MIDI file when an event happens? I can only play one, by double-clicking on the icon.

Nathan W.

A The easiest way to play WAV files in VB is by using the Multimedia control. Set the filename to point to the WAV file, and set the command property to Play in your code. I suspect from your question that the Multimedia control is not supplied with the Learning Edition. In that case, you can use the OLE control.

First, link or embed the WAV file and then play it using the DoVerb method. Playing is the default action of a sound, so you can use

```
OLE1.DoVerb (vbOLEPrimary)
```

You may feel all this is over-the-top just to play a sound file, and I would not quibble with that. The solution yet again is an API function. This is the declare shown in Listing 3, so now you can write code like that shown in Listing 4. This also has the advantage that no applet window opens, the sound just plays. You should look up the function in an API help file to explore the parameter options available.

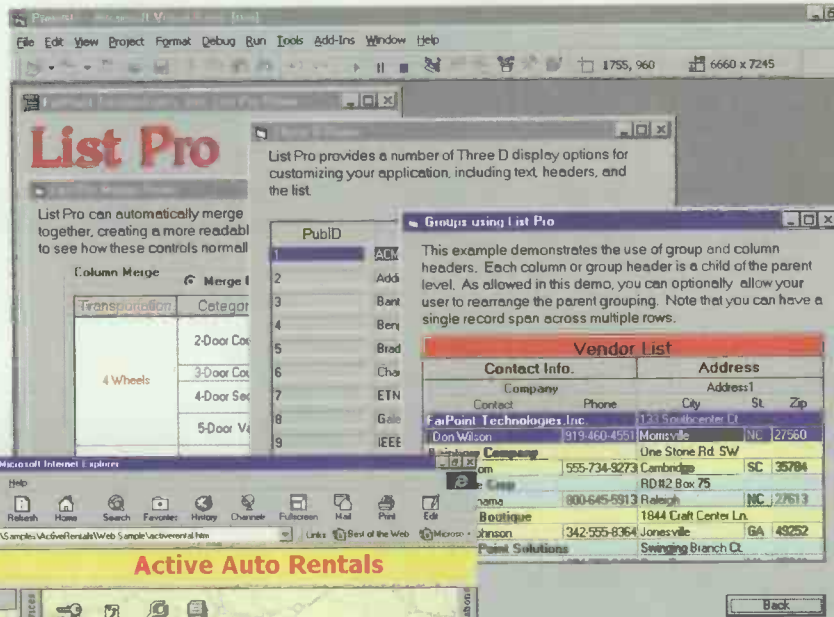
scripts, Dynamic HTML or even Visual Basic. You can use Java on the client, on the server and across diverse platforms. Remote Method Invocation (RMI) makes it possible for Java objects to communicate across the network. Microsoft's competitors love Java because they are no longer forced to support Windows. Like Windows, Java is a proprietary technology owned by a single

company (in this case, Sun) so it is possible that at some later date this ownership may, too, be resented. But at present, Sun's open approach to managing Java is winning industry-wide support, which gives developers confidence that investment in Java will not be wasted. Time to learn Java, then: see "How to get started with Java", page 313, for some tips and problems.

Get listed

Java is exciting stuff, but for many, Windows is where the real work gets done. Two recently released ActiveX components will help. FarPoint's List Pro is a model of how an add-on should be done. It is an update of an earlier product, called Aware/VBX, and comes in four forms, all in one box: 16- and 32-bit DLLs, VBX and ActiveX.

FarPoint ListPro is a comprehensive solution to listbox problems



I can recommend List Pro. There is a list control and a combo box, with many advantages over the standard Visual Basic or Delphi equivalents. Both claim to handle up to two billion list items. Another key feature is the ability to merge cells in the list, to avoid the continuance of repeating values. There are hundreds of properties, enabling you to customise the appearance of the list. You can organise items into groups. You can also set font and colour properties for individual cells and include both text and graphics. Also in the box is a detailed printed manual.



Sheridan ActiveListBar makes a fun way to navigate a web site

Sheridan's ActiveListBar is more specialist than List Pro. If you have Office 97 you will already know the Outlook Bar (a scrolling toolbar which is also divided into groups, like a tabbed dialog). ActiveListBar lets you put one of these in your own application or web site. In fact, its natural home is a web page and Sheridan supplies a 138Kb signed CAB file for easy deployment, the main snag being that users need 32-bit Windows and Internet Explorer, or an ActiveX plug-in.

You can have sound and 3D effects as the user selects icons. It makes a nice navigation tool, but I'm less happy about Sheridan's presentation. The box is smart, but there is nothing inside except a few leaflets and a CD. Apparently, Sheridan no longer produces printed documentation for its products. Another gripe is that many of the example files do not work unless you have Active 3D (another Sheridan product) installed. But it is worth considering if you like the effect of the Outlook Bar.

Books in brief

■ *Java 1.1 Unleashed* by Michael Morrison and others

Continuing the Java theme, here is a 1,300-page handbook which explains all, from the basics to remote objects and the CORBA industry standard for distributed objects. Thirty-one contributing authors are listed. This is a good way to get an up-to-date book published quickly, with chapters written by specialists, but the downside is uneven style and repetition. For instance: the chapter on Remote Method Invocation overlaps with a one by a different author, about remote objects; and layout managers are introduced twice, in chapters on Applets and AWT. By way of compensation, there is detailed explanation with examples on most Java topics. The book is a fine reference tool but too disjointed to give the overall picture of how to design and build a Java application.

■ *Delphi 3 Client/Server Developer's Guide* by Ken Henderson

I suspect there are too many books attempting to give comprehensive coverage of complex developer tools and too few which focus on a particular area. That means many shallow and repetitive titles. This one, by contrast, is focused on client/server database development with Delphi. It is a topical subject now that PCs capable of running server databases are commonplace.

The book is in four sections. The first provides an overview of both Delphi and client/server database design. Next is a detailed tutorial covering entity modelling, form design and reporting. The third section has chapters specific to popular databases, Microsoft and Sybase SQL Server, Oracle and Interbase. Finally, the fourth part tackles advanced topics including multi-tier applications, advanced SQL and ActiveX internet applications. An appendix has useful tips for migrants from Visual Basic and Delphi. This is a useful, common-sense book suitable for Delphi developers with no previous knowledge of client/server issues.

- See PCW Contacts box for prices and availability.

PCW Contacts

Tim Anderson welcomes your Visual Programming tips and queries. He can be contacted at the usual PCW address (p12) or at visual@pcw.vnu.co.uk

Computer Manuals 0121 706 6000 for books reviewed here: *Java 1.1 Unleashed* (£54.95 book and CD); *Delphi 3 Client/Server Developer's Guide* (£54.95 book and CD). Contemporary Software 01344 873434 for FarPoint ListPro (£175 ex VAT) and Sheridan ActiveListBar (£99 ex VAT). Java information or to download the JDK visit www.java.sun.com or www.javasoft.com

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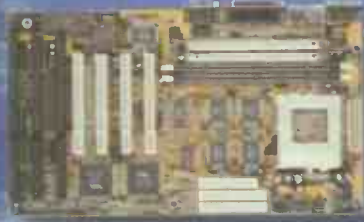
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Following protocol

Bob Walder unravels the complexities of TCP/IP to help you create your own network or get connected to the internet. He covers the basics, routing, and configuring Windows 95.

TCP/IP is the protocol which underlies the entire internet and is likely to become the standard protocol in all corporate networks (whether or not they could be classed as intranets) as well as our SME (Small to Medium Enterprise) networks.

TCP/IP has the reputation of being something of a "black art", particularly in relation to subnetting, and although it is daunting at first sight, with a little perseverance you will soon be at ease with all things IP-related.

There is a lot of material to get through here, but I have resisted the urge to cover this topic in two episodes. There is nothing more annoying than having to wait for the second half of something before you can begin a project: rather like opening your brand-new toy on Christmas morning to find that the batteries are not included!

There is plenty of background information which I would like to include here but space simply does not permit. Instead, I will concentrate on the stuff you really need to know in order to create your own TCP/IP network or connect your PC to the internet. If you want to know a bit more about the whys and wherefores behind what I am about to tell you, the best thing would be to purchase one of the many books on the subject, one of which I have reviewed here.

The basics

Starting at the beginning, then, every PC which is attached to a TCP/IP network requires a unique four-byte number which is usually written as four decimal numbers separated by dots. Thus, the smallest IP address is 0.0.0.0 while the largest is 255.255.255.255 and it can be allocated in

Bob's book review

Title TCP/IP (Running a Successful Network)
 Authors K Washburn and JT Evans
 Publisher Addison-Wesley
 Price £29.95

In keeping with the subject matter of this month's column, I have taken a quick look at a book which should help to provide a much deeper understanding of TCP/IP and all its inner mysteries than I could ever hope to do in a few pages, here. The book is divided into three parts. Part 1 is about "what and how", and provides a useful grounding in TCP/IP without going into masses of technical detail about the guts and innards. It covers TCP/IP basics, bridging and routing, managing addresses, subnetting, system configuration and performance optimisation.

Part 2 is for the "bits and bytes" brigade, delving into the murky depths of the protocol to describe the detailed technical standards behind TCP/IP systems. It allows the technically biased reader to determine the underlying limits of TCP/IP systems and take action to ensure that systems, particularly large ones, remain stable. It is concerned with tuning performance, achieving reliability, stability and cost-effectiveness through a detailed understanding of the foundations laid in Part 1.

Part 3 is a collection of reference material and tables extracted from TCP/IP and LAN standards which can simplify the configuration and management of TCP/IP systems. Parts 1 and 2 can be read in isolation, or in either order according to interest and immediate need. Part 1 can also stand alone as a planning and implementation guide, while Part 3 can be used as general reference material.

The writing style is a little dry, perhaps, but Washburn and Evans' *TCP/IP* offers something for everyone. It is an ideal introduction to the protocol and its use in today's networks, in addition to offering a more detailed reference tome for those who require it.

■ My thanks to Computer Manuals (0121 706 6000) for keeping me supplied with review copies.



one of two ways. The simplest and most common method for single-user internet access is to have your ISP allocate it dynamically each time you attach to the network. In this scenario, your machine does not have a permanent IP address associated with it but one is allocated temporarily each time you connect to the network.

If, however, you want to do something a little more ambitious — say, attach a small network of a dozen PCs to the internet — then you will require a range of permanent IP addresses: one for each PC and one for the router or gateway which routes your

network traffic to the internet. It is this scenario on which I want to concentrate, given that this is a Networking (implying multiple nodes) rather than a Windows 95 Hands On column.

The not-so-basics

Each IP address is actually made up of two parts: a network portion and a host portion. A network in this context can be anything from an entire corporate LAN down to a single piece of wire with just one or two PCs on it. The host portion identifies each of the nodes on the network individually. But when

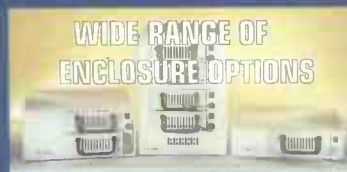
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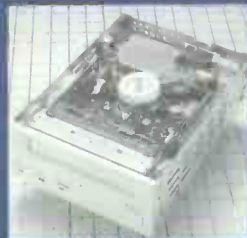
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Example 1: Logical AND operation

IP address	11000010.11000000.00101100.00010001	(194.192.44.17)
AND subnet mask	11111111.11111111.11111111.11110000	(255.255.255.240)
= network address	11000010.11000000.00101100.00010000	(194.192.44.16)

AND the subnet mask, then there will be a 1 in the corresponding position in the network address, otherwise it will be a zero.

Converting the resulting network address back to decimal gives us 194.192.44.16 which effectively means a Class C address of 194.192.44.0 and a subnet address of 16. Allowing for the rule that we cannot use all noughts or all ones in our network addresses, the above subnet mask thus provides us with 14 possible networks each with 14 nodes (see box, p324). Our example node which has a final byte of 17, therefore, is actually node 1 in network number 1 using the above mask.

you see an address like 194.192.44.17, how do you know which is the network portion and which is the host?

The trick is to examine the subnet mask, which will look something like **255.255.255.0**

If you convert these figures to binary, the subnet mask indicates which part of the IP address is the network portion.

The example I have just used is fairly straightforward, since it translates into **11111111.11111111.11111111.00000000** which indicates that the first three bytes are used to identify the network and the remaining byte is used to identify the nodes.

A quirk of the rules means we cannot use all noughts or all ones in the host or subnet address (the first indicates "the entire network" and the second is the "broadcast" address), which leaves us the numbers 1 to 254 to represent our hosts. This is known as a Class C address, where the first three bytes are fixed.

It takes a small leap of the imagination to conclude that a Class B address has the first two bytes fixed to represent the network and can have up to 65,534 hosts, while the

incredibly rare Class A address has only the first byte fixed (hence there can only be 254 Class A networks in total) with the final three bytes providing us with 16,777,214 hosts.

Even a Class C network is beyond the requirements (and the means) of most of us, so ISPs will divide each Class C network allocated to it into a number of smaller subnets by further use of the subnet mask.

For instance, if you have a network of between seven and 14 PCs, a subnet mask of 255.255.255.240 will be allocated to you. To understand how this works, we need to convert our IP address and subnet mask into binary and, reaching back into our distant past and the terrors of binary arithmetic at school, we need to perform a logical AND operation on the two to provide us with our network address (Example 1).

For those of you requiring a quick refresher course, a logical AND means that wherever there is a 1 in both the IP address

Let's look at one more example: 194.192.44.55 (Example 2). Concentrating on that final byte of the IP address again, we can see that the left half (which corresponds to the four ones in the subnet mask) is 0011, which gives us a subnet number of 3, indicating the third subnet in the range available using the mask of 240 (again, see box, p324). The right half is 0111, which means it is the seventh node in that particular subnet. Given that the

Example 2: 194.192.44.55

IP address	11000010.11000000.00101100.00110111	(194.192.44.55)
AND subnet mask	11111111.11111111.11111111.11110000	(255.255.255.240)
= network address	11000010.11000000.00101100.00110000	(194.192.44.48)

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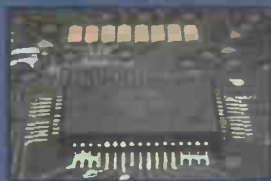


CONFIGURATION

SIZE	COST
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18GB	£1950
30GB	£2995
45GB	£3995
3 or 5 Bay Tower	
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750MB	£12000
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2.56GB	£29000
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10GB	£75000

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SERVER-LESS STORAGE



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CONFIGURATION	SIZE	COST
	27GB	£6500
	45GB	£8500
	72GB	£10950
	99GB	£14250

FT-SERVER

SOLID STATE SERVER



FT-SERVER is a high performance server designed to deliver the ultimate in reliability. The system consists of no moving parts. The system has no disk drives and relies on FT-RAID for fault tolerant storage. The system features multiple redundant power supplies to ensure continuous operation. The system has on-board both dual channel Ultra Wide SCSI and dual 10/100mbit fast ethernet controllers. In the unlikely event that a fault does ever develop, the system can instantly be swapped out for a new FT-SERVER without having to worry about configuration or internal hard drives e.t.c. Multiple FT-SERVERS can be configured into an FT-CLUSTER with the addition of management modules.

Pentium II	No	Mhz	COST
	1 x	300	£2750
	2 x	300	£3500

FT-RAID

SERVER-INDEPENDANT

Today's network servers are complicated machines with many components such as video cards, motherboards, network cards, serial interfaces and memory etc. If the data storage has also been integrated into the server, when a fault develops on the server all of the data will be off-line until the fault is fixed. FT-RAID is designed to deliver a true fault tolerant solution for mission critical data storage. It achieves this by making the data storage and RAID controller independent of the server. FT-RAID takes for granted that components will fail! It caters for this eventual failure by having redundancy of every single key component within the system. Disk drives and power supplies are mounted in hot swap canisters and even the external RAID controller can optionally be duplexed to cater for controller failure. When a failure occurs the component can be replaced without bringing the system off-line.. If a failure occurs on a connected server, another standby server or even a workstation (performing the role of a server) can boot of the FT-RAID system and bring the network back on-line with minimum disturbance while the faulty server is fixed. FT-RAID also supports an automated means of bringing standby servers on-line. FT-RAID can service multiple servers at the same time including NT, Netware, Sun, RS6000, SG, HP, Apple and DEC Clustering Hardware etc... A Direct Network Attach Module is available which allows FT-RAID to share storage on the Network without SCSI connection to the Server. FT-RAID can also be configured with both FT-SERVER and FT-CLUSTER to deliver exceptional fault tolerant server and storage in the most demanding network environments. With its vast array of features and expansion capability FT-RAID is the ideal bedrock storage system on which to base your network.



CONFIGURATION

SIZE	COST
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72GB	£9950
99GB	£13250
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207GB	£26500
252GB	£32000
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504GB	£52500
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OPTIONS

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- FAIL SAFE SERVER SUPPORT
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- DIRECT NETWORK ATTACH

FT-CLUSTER

DUAL ACTIVE REDUNDANT

FT-CLUSTER is fault tolerant scaleable network server. The system consists of two independent PC servers connected together into a network cluster. The cluster appears to attached clients as a single server. The network tasks are shared by the two servers. If one server fails the other server takes over the workload automatically. Both servers are connected to FT-RAID storage and share access to the same data. FT-CLUSTER delivers the type of scaleable and fault tolerant network computing previously only available on proprietary mini and mainframe hardware using standard PC components. The system is a totally open design and can be upgraded using standard PC memory and parts.



Pentium II	No	Mhz	COST
	2 x	300	£7000
	4 x	300	£8500

Cost does not include FT-RAID which is required for operation.

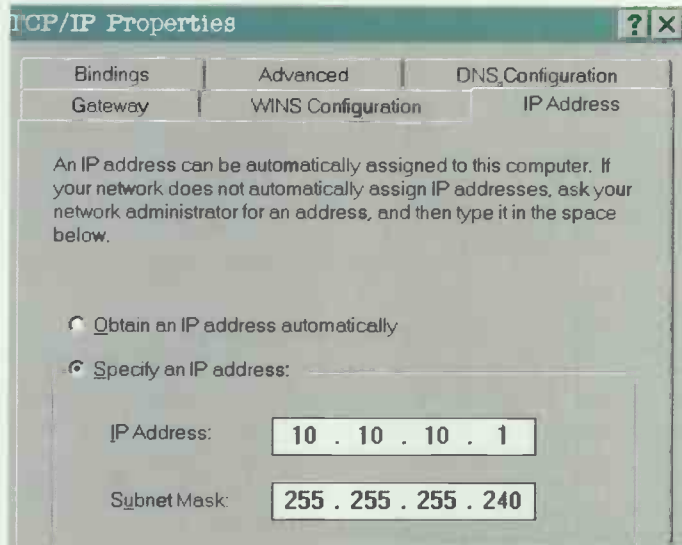


Fig 1 (left)
Specifying your IP address and subnet mask in Windows 95 Control Panel

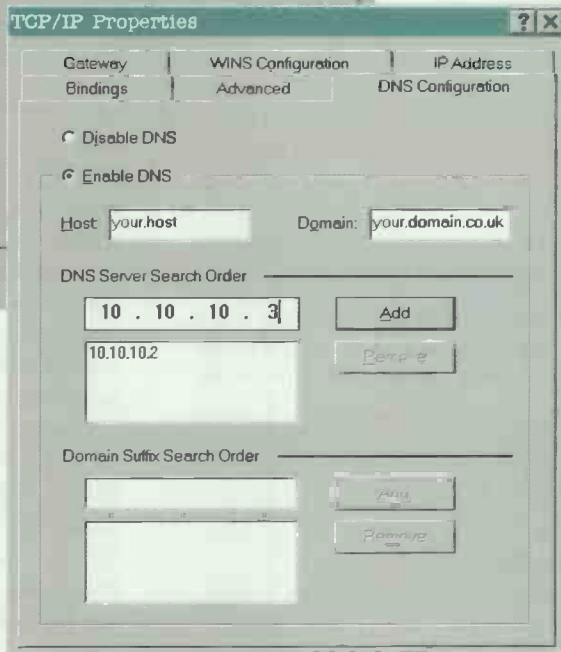


Fig 2 (below)
Configuring DNS parameters

network address ends in a 48, it falls into place that the seventh node of that particular network will be 55 (48 + 7), which is our IP address.

Routing

Phew! It may take some time to get your head around the above, but it is worth re-

reading a few times and working through a few examples of your own in order to get it down pat. But why is it so important to figure out which is the network and which is the host portion? Routing is the answer.

Routing is the means by which packets travel around the internet from one machine to another, and it is a router that we use to attach our network to the internet (this becomes the "default gateway"). The router will have at least two interfaces: the LAN interface (a network card) to attach it to the local network, and a WAN interface (a serial port or ISDN connection) to connect it to the internet. Each of these must be on a different subnet in order for the router to function correctly: the LAN interface will be on the same subnet as all your other networked PCs, while the communications interface will be on a subnet which has been allocated by your ISP.

When any IP device gets ready to send out a packet of information, it looks at the destination address. Using the subnet mask, it then determines whether or not the destination node is on the same network as itself. If it is on the same network, the machine simply uses the appropriate link-level protocol to send the packet directly to the destination machine. If it is on a different network, however, the packet is sent to the default gateway.

Since the router holds an internal table of what networks are connected to which LAN or WAN interface, all it has to do in order to speed things in the right direction is to logical-AND the destination host address or each packet with the subnet mask (giving the destination network address) and then look up the result in the routing table before passing the packet out of the right interface. Once the packet has been transferred from

p324 >

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Establishing BaseCamp

Microsoft is testing a new product designed to expand the networking services of Windows NT. The product, codenamed BaseCamp, is a client-server platform designed to allow secure network connections through un-trusted networks such as the internet.

BaseCamp uses a client Connection Manager and a server-based Internet Authentication Server. This combination allows companies to build virtual private networks (VPNs) where all data is transmitted in an encrypted form over the internet. The software, in limited beta-testing at the time of writing and hopefully available by the end of 1997, will support the Point-to-Point Tunnelling Protocol (PPTP) as well as RADIUS, and CHAP authentication mechanisms.

Possible subnets using a mask of 240

In the examples in the main body of the column I used a subnet mask of 255.255.255.240 and explained how it provided 14 networks of 14 nodes. To help you work through a few examples of your own, the appropriate address ranges are:

Network 1	17 - 30
Network 2	33 - 46
Network 3	49 - 62
Network 4	65 - 78
Network 5	81 - 94
Network 6	97 - 110
Network 7	113 - 126
Network 8	129 - 142
Network 9	145 - 158
Network 10	161 - 174
Network 11	177 - 190
Network 12	193 - 206
Network 13	209 - 222
Network 14	225 - 238

the local interface to the WAN interface, it travels to the router at your ISP and onwards across the internet.

It is important that you do not try to make up your own set of IP addresses and hope to attach your network to the internet; it won't work. Addresses are allocated in large chunks to ISPs by a central authority and the ISPs dish them out in smaller chunks, as required. This is the only way to ensure that all addresses on the internet are unique.

If, however, you want to use IP in-house and have no interest in connecting to the internet, there are several "safe" ranges of

non-routable addresses with which you can work. These are:

- Class A network
10.0.0.0 to 10.255.255.255
- 16 Class B networks
172.16.0.0 to 172.31.255.255
- Class B network
192.168.0.0 to 192.168.255.255

Configuring Windows 95

Although the general principle described above applies to all routers, configuring them to perform even the most basic routing functions can be quite daunting.

User interfaces and documentation often leave a lot to be desired, so a detailed description of router configuration is beyond the scope of this article. But configuring Windows 95 could not be simpler. Once you have your router installed and your network addresses allocated by your ISP, you should go to each client in turn and install the TCP/IP protocol (if that has not already been done).

In the Control Panel, click on Network, Add, Protocol, Microsoft, TCP/IP and you will eventually be presented with the configuration window which looks something like Fig 1.

There is actually not that much to configure, so you can start by entering the IP address of this machine and the subnet mask, both of which you will get from your ISP. The other information which your ISP should supply is the name of your domain and DNS server, and these should be entered in the DNS tab, as shown in Fig 2. The host name can be anything and most ISPs will not specify these for you.

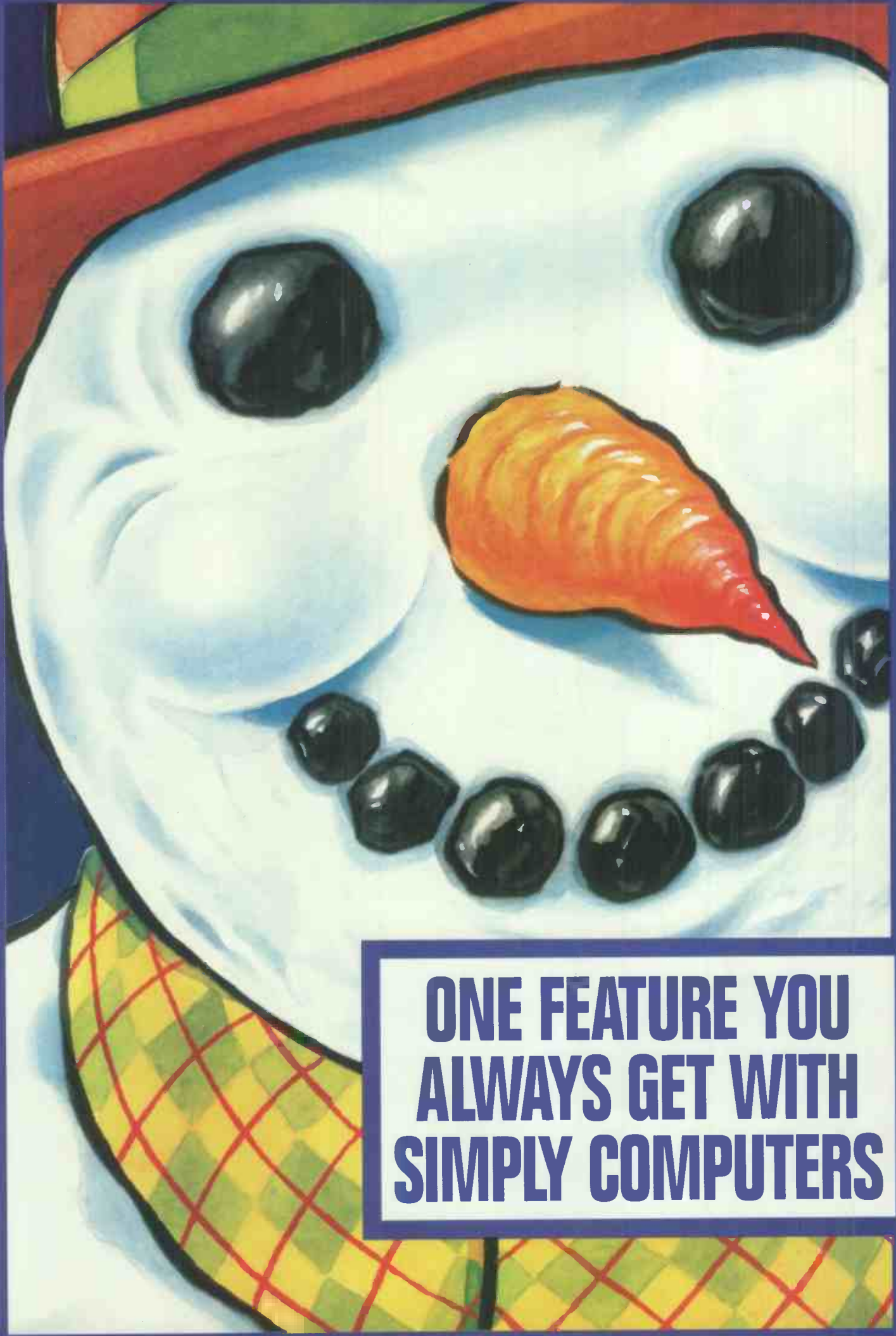
Finally, in the Gateway tab, enter the IP address of the LAN interface of your default gateway, or router. When applying these changes ignore any warning messages you may get about WINS servers, and reboot your machine for the changes to take effect.

Once this operation has been performed on all clients (ensuring that a unique IP address is used on each one) your TCP/IP network should be up and running.

■ In a future column, I will take you through setting up a DHCP or WINS server to simplify the management of IP addresses on your network.

PCW Contact

Bob Walder can be contacted via the PCW office (see page 12) or email networks@pcw.vnu.co.uk



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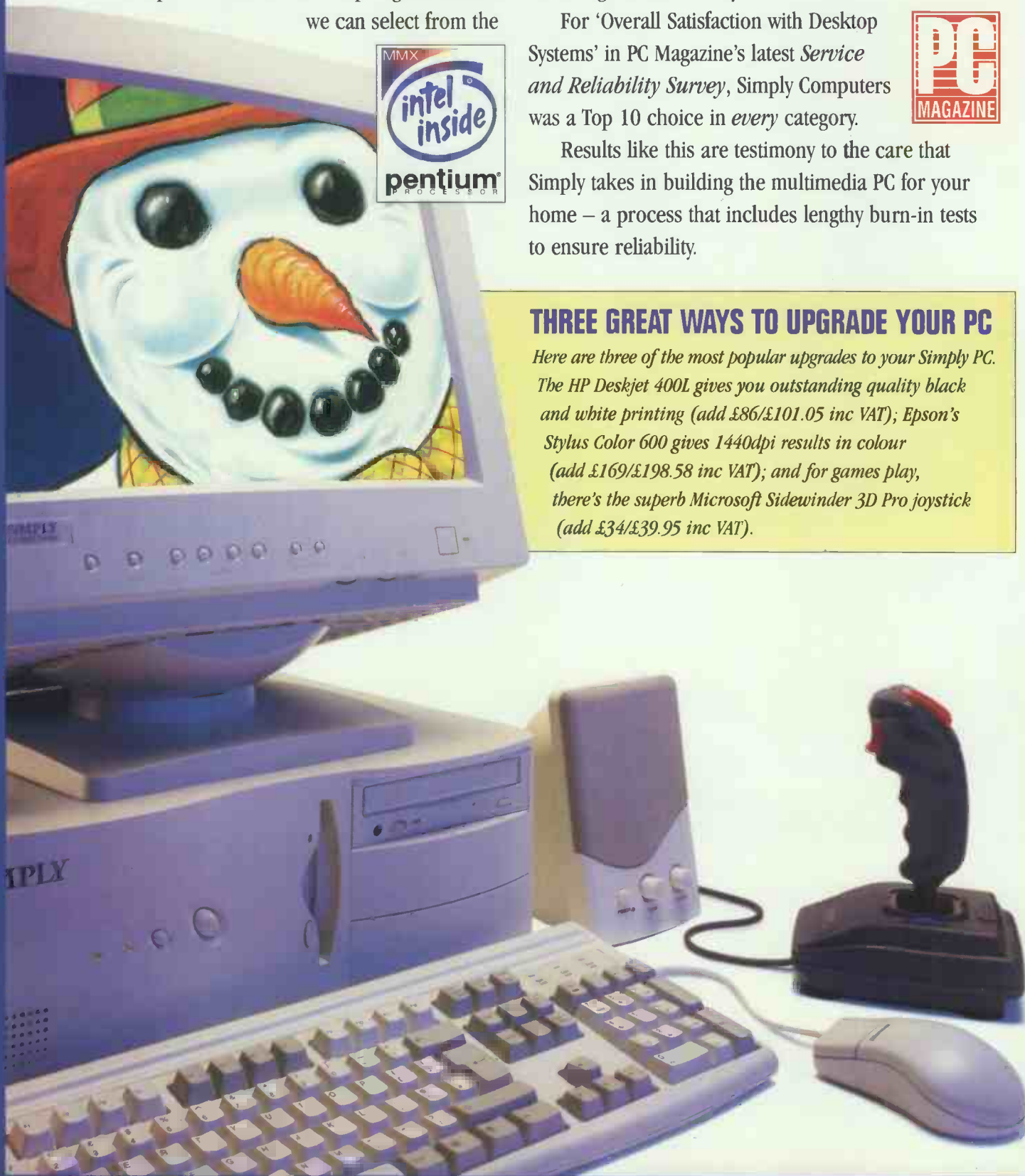


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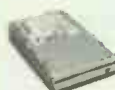
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Screen gems

When your refresh rates have been refined and your brightness levels are at their best, and your monitor is still not looking good, it might be time to buy. Lynley Oram offers some advice.

Christmas is almost upon us, and if you're not going to treat yourself to a new PC, you may want to treat your eyes to a new monitor. While quite expensive, a good monitor will long outlive your PC and give years of satisfaction.

Before you dig deep into your pockets, make sure you really need to. Last month we looked at some of the ways you can make sure you're operating a healthy monitor. But if you've adjusted your refresh rates and altered your brightness levels, and are still not happy, then it may be time to go shopping.

When you are purchasing a new system, it's worth bearing in mind that the monitor outlives the PC. If the monitor is the single most expensive component of your computer, spinning its life out over the span of two or even three PCs may save you money in the long term.

But where should you start, and what should you look for? If I could choose any type of monitor at all, I would without a doubt go for a flat-panel monitor. These use the same LCD technology you'll find in notebooks and take up only the barest amount of desk space. Unfortunately, flat-panel monitors tend to cost three or four times as much as their large, bulky CRT cousins, so remain out of reach for all but the wealthiest users.

You will need to decide what size monitor you want. A Cathode Ray Tube (CRT) monitor (Fig 1) is like a huge glass bottle with electron guns in its neck which fire at the screen.

What a difference an inch makes

CRT monitors are usually categorised according to the size of the glass tube. As a rule of thumb, the actual image size on a CRT monitor is usually about an inch smaller than the quoted size, so a 17in monitor usually has a viewable area of 16in. This can vary hugely from manufacturer to manufacturer, so do ask, or take a tape measure with you.

If your PC is used mainly for word processing and other general applications, the most suitable size will be between 15in

Fig 1 A CRT tube is like a glass bottle with electron guns in its neck which fire at the screen in the bottom. The screen is covered with a matrix of dots, each consisting of three blobs of coloured phosphor: one red, one green, one blue

and 17in. There are 14in monitors, and these are commonly shipped with PCs at the budget end of the market, but we don't recommend buying one.

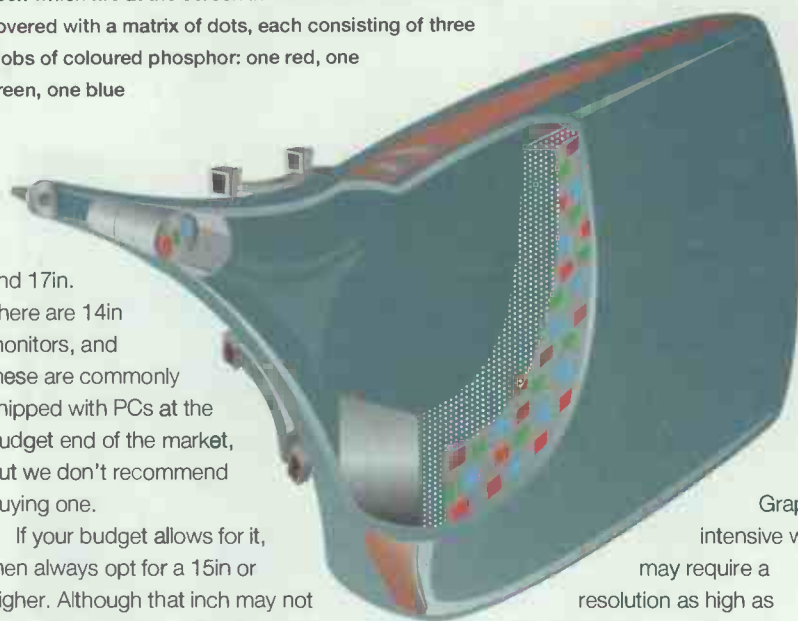
If your budget allows for it, then always opt for a 15in or higher. Although that inch may not sound like a lot, it does make a difference in terms of picture quality. Some manufacturers tend to use 14in and 15in respectively as code for poor or good-quality monitors.

Having said that, not all 14in monitors are bad, and it is possible to find models that will outperform their bigger siblings. This will require a lot of shopping around, though. For graphics-intensive work such as DTP and CAD, don't consider anything less than a 17in monitor, or go even further and invest in a 19in or 21in model.

Resolutions

Monitor resolutions vary from 640 x 480 to 1280 x 1024 and more. These figures refer to the number of pixels shown on the screen. If you can, try running the software you will be using the most often to see what it looks like. The higher the resolution, the finer the detail that can be reproduced on-screen. But as this makes the images smaller, high resolutions are best viewed on physically larger monitors.

Anyone who spends a lot of time running word processors and large spreadsheets, with lots of windows open, should go for a 17in monitor capable of handling a resolution of up to 1280 x 1024.



Graphics-intensive work may require a resolution as high as 1920 x 1200.

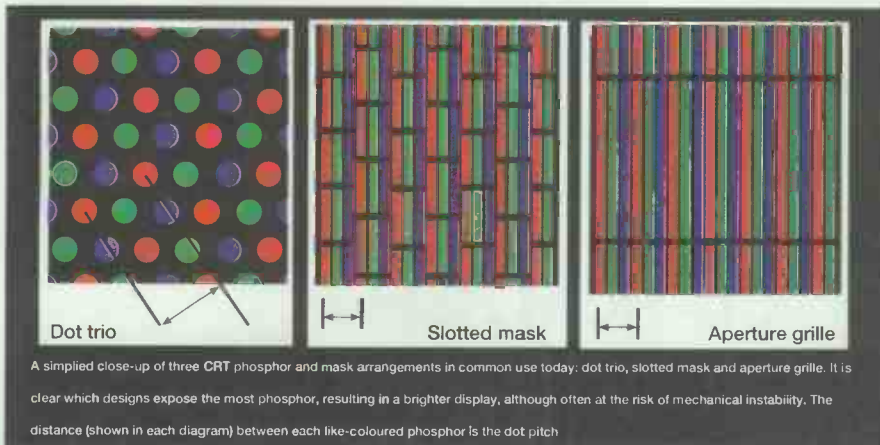
Bear in mind that you will need a graphics card in your PC that is capable of supporting high resolutions at non-interlaced refresh rates higher than 72Hz. It won't matter how high a resolution your monitor can cope with, if it doesn't get the necessary support from the graphics card. However, it's usually the graphics card that outperforms the monitor by far.

CRT technology

Decide what CRT technology will most suit you. All visible colours can be made from mixing the three primary colours of red, blue and green (RGB). Electron guns are busy firing a stream of electrons at the front of your CRT. The electrons impact with the red, green and blue coatings of phosphor which cover the screen, causing them to emit coloured light.

The image you see on your screen is made up of thousands of pixels (the word is derived from "picture element"). Each pixel is made up of blobs of red, green and blue phosphor grouped so closely together that the human eye perceives the combination as a single-coloured computer pixel.

Any overspill of the electron beam could illuminate more than one dot, which would



result in a very fuzzy and multicoloured picture. To stop this from happening, a metal mask separates each dot and, needless to say, light cannot penetrate the mask. This mask also gives the screen a certain amount of stability.

Blobs, masks and triads

There are three ways of arranging these phosphor blobs, each with a different type of mask. The vast majority of computer monitors use circular blobs of phosphor and arrange them in triangular formation. These groups are known as triads, and the arrangement is known as a dot-trio design using a shadow mask (Fig 2, above). An arrangement like this means that the mask takes up a fair portion of the screen area.

There are alternatives to the dot trio design, however. In the sixties, Sony developed a tube technology known as Trinitron, where the coloured phosphors are laid down in uninterrupted vertical stripes. The mask separates entire stripes instead of each dot, and is known as an aperture grille. Since less of the screen area is occupied by the mask, more of the phosphor can glow, resulting in a brighter, more vibrant display.

For design-intensive work, such as that undertaken by people using the Mac, this type of screen is the most suitable. Designers may want to consider investing in a monitor with more technical controls: a colour temperature control would be handy, for instance. For true colour matching, they would be able to make adjustments to the monitor's colour temperature throughout the day.

When Sony's copyright expired, Mitsubishi developed its own aperture grille technology, called Diamondtron. Although the mask used is very similar to Sony's, Mitsubishi uses three electron guns instead of Sony's one.

Monitors based on this type of technology usually cost a bit more than those based on dot-trio designs. And because there's less mask, the screen is less stable. To counter this, Trinitron-type monitors have either one or two very fine wires running horizontally across the display. These wires are only just visible to the naked eye, and you'd have to look pretty hard to find them. Even so, this still bothers some people.

There is a third option, however. NEC has taken slotted mask technology, widely used in TV manufacture, and developed it for higher-resolution computer displays. Called ChromaClear, this design falls in-between aperture grille and dot-trio shadow masks in terms of brightness and mechanical stability.

Browsing is best

Time permitting, do a lot of browsing before buying. Visit a showroom and try out as many different types of monitors as possible. Do this even if you are going to buy your monitor by mail order. If the monitor you want isn't available retail, have a look around anyway so you've got something to compare it to. When buying, always make sure you can return it and get your money back, if you don't like it.

This isn't because monitors vary widely in quality. They used to, but today, many of the main brands are becoming indistinguishable. The difference lies in your individuality. No one person will see exactly what another person is seeing, and monitor buying is a very subjective experience.

As I suggested in last month's column, you may want to look for monitors with on-screen controls, anti-glare technology such as Anti-Reflective Coating, and low-emission standards such as MPR II, TCO92 or TCO95.

If you don't fancy trudging round the

shops, then check out our monitor reviews. PCW ran a 17in monitor group test in its May issue, and there are monitor reviews appearing regularly in "First Impressions". And if that's not enough, all the monitors received for our PC group tests are evaluated separately.

Some monitors may offer a choice of connections, such as for speakers. There are advantages and disadvantages to plugging your speakers into and onto your monitor. A lot of sound cards and speakers support 3D effects, and these are most effective when directed as accurately as possible at the listener. However, bear in mind that monitors are susceptible to magnetism, and badly shielded speakers will interfere with the image on your screen. This applies to all electronic devices, so if your picture is distorting, try moving your speakers, printer or telephone a little further away, to see if the image improves.

By the nature of their design, aperture grille monitors are susceptible to vibrations, so if you're into bass, move the subwoofer and speakers onto a separate surface. Microphone and camera connections (these can be housed in the monitor) can come in handy for video-conferencing or for chatting to long-distance relatives on the other side of the world.

Danger USB!

The monitor has been seen as a natural place for a USB hub, as it is closer to the user. USB is a great new interface for PCs that will allow you to connect up to 127 peripherals to your PC, and to plug and unplug those peripherals without switching your PC off. This sounds great, but few manufacturers have developed USB products so the take-up has been slow. A number of USB devices are due to be launched, however, such as keyboards, mice and digital cameras.

Whether or not the USB revolution happens is debatable, but some monitors are being manufactured with USB connections in the rear, which will allow a user to upgrade to USB at a later date should they want to.

PCW Contact

Lynley Oram welcomes feedback and suggestions from readers. Email beginners@pcw.co.uk

The Computer Suppliers Federation offers good advice on buying monitors. Tel 01905 613 236; www.csf.org.uk

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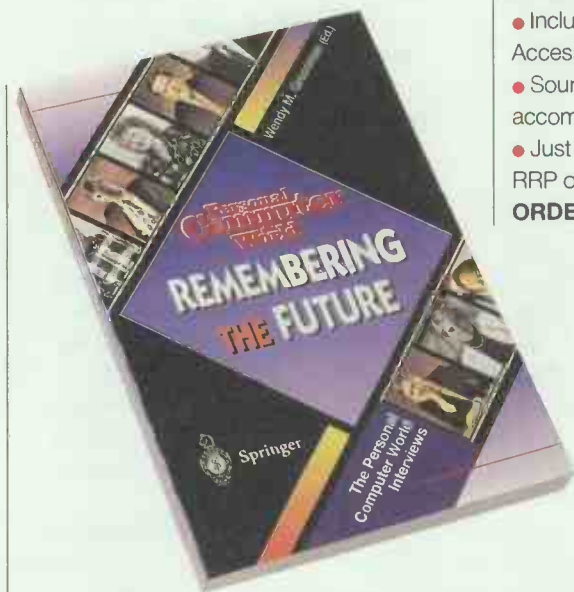
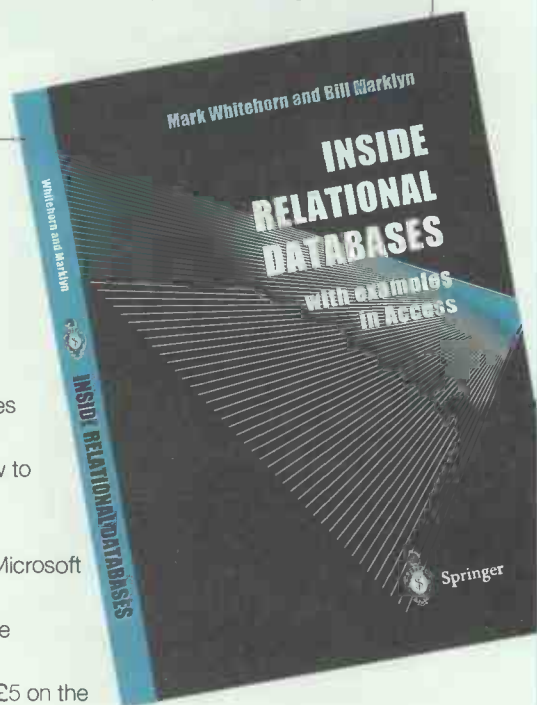
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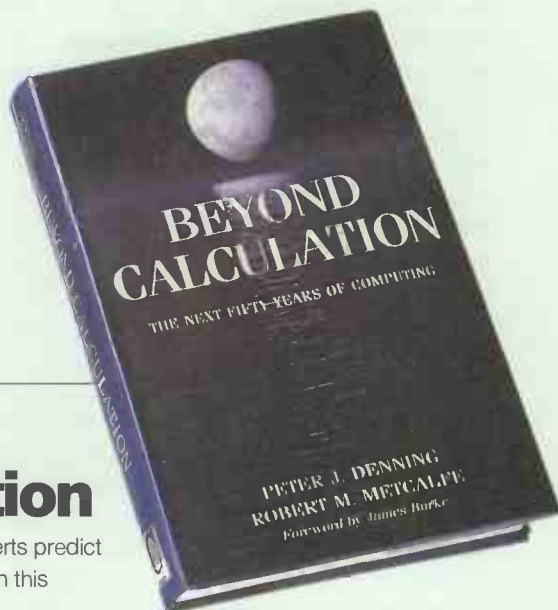
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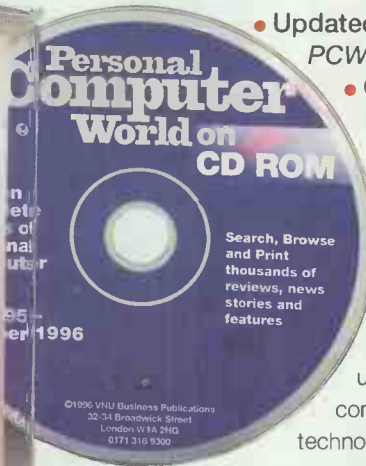
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Brainteasers

Quickie

George and Albert can decorate a room in 12 hours between them, even though Albert only works at 75 percent of George's speed. How long would it take each man individually to decorate the same room?

Winner of the October 1997 Prize Puzzle

I think the prime sequencing problem proved a little too much for many of your PCs. It wasn't really that difficult, but it did require a hefty bit of number crunching to ensure the correct answer, although at least one entrant came up with the answer using logic and an educated guess.

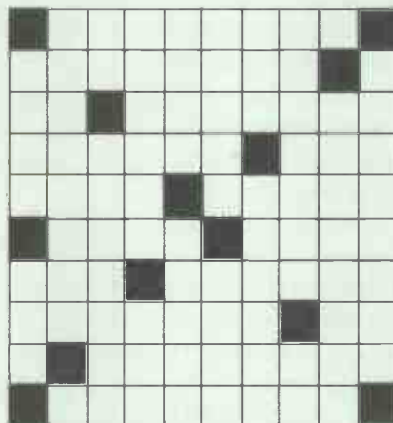
The correct result, which almost all of the 60 or so entrants managed to get, is **1379245680**.

The winning card, selected from the pile, came from Mr RW Ford of Yateley in Hampshire, who we congratulate and who

will receive his prize shortly. Meanwhile, to all the others — keep trying, you could be the next winner.

Prize Puzzle

The usual Christmas number crossword for this month. Arrange the numbers on the right into the grid — some across and



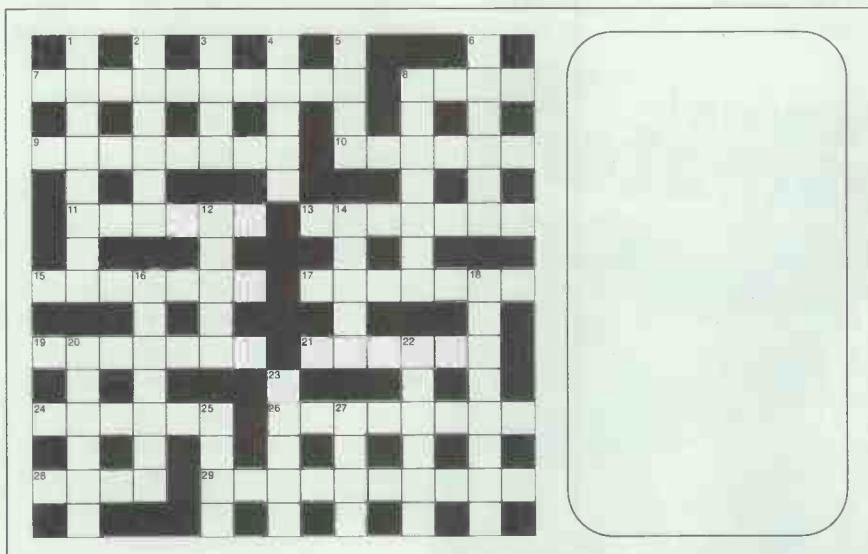
some down — in the manner of a crossword. When you've done it, cut out (or photocopy) the completed grid and stick it on the back of a sealed envelope or onto a postcard.

44	6479	3808091
62	6949	4372055
63	9022	7004611
84	9631	8287015
237	53656	11542654
252	58875	50648652
416	93065	65450870
677	341188	85486358
802	361124	88995671
3779	784627	95259834
4148	958617	95668422

Send to PCW Prize Puzzle — January 1998, P. O. Box 99, Harrogate, N Yorks HG2 0XJ, to arrive not later than 20th January 1998. Please do not send solutions on floppy disks or in envelopes.

JJ Clessa

Crossword



- 32 and 34 Sound card's real sound capability (9)
- 33 Place for expansion (4)
- 34 See 32 across

DOWN

- 1 Silent show (4)
- 2 Hold back (8)
- 3 Retribution (7)
- 4 Incline (5)
- 5 Outcry (6)
- 6 Genuine (4)
- 10 Boy singers (7)
- 14 Character standard code (inits) (5)
- 17 Divide (5)
- 18 Sadden (7)
- 21 North African (8)
- 22 One way or another (7)
- 24 Spring festival (6)
- 27 Brief interval (5)
- 29 Verve (4)
- 31 Companion (4)

ACROSS

- 7, 9, 13 and 15 Fast phone line, in full (10, 8, 7, 7)
- 8 TV prog's annoying program glitches (4)
- 9 See 7 across
- 10 See (6)
- 12 Microsoft's internet beast (8)
- 13 Exotic island's language (4)
- 15 Gerny programming glitch (3)

- 16 Time to reboot (5)
- 19 Visuals input device (7)
- 20 Existing setting unless another has been stated (7)
- 23 Screen dot (5)
- 25 19 across's text capability (inits) (3)
- 26 Electronic input-output point (4)
- 28 Rival of 12 across's company (8)
- 30 and 9 across Peripherals plug-in point (6, 4)

December crossword solutions

- ACROSS**
 7 Saver 8 Wide 9 Plug 11 Screen 12 Analogue
 13 Gate 15 ROM 16 Meter 19 Central 20
 Pentium 23 Cache 25 Web 26 Amps 28
 Megabyte 30 Export 32 File 33 User 34 World
- DOWN**
 1 Talc 2 Vehement 3 Disarms 4 Decay 5
 Oppose 6 Guru 10 Entreat 14 Arena 17 Equip
 18 Pebbles 21 Teaspoon 22 Sweeten 24
 Healed 27 Syrup 29 Edit 31 Rule

Rainbow warrior

If any computer could have seriously rivalled the IBM PC, the DEC Rainbow was it. Sadly, CP/M and bad marketing put a sorry end to it.

Deep in the dark, wild days of real computing — the early eighties — the IBM PC was launched.

Looking at it with the accumulated experience of 15 cynical years, it was a mighty strange thing to do. IBM was best known as a company that made computers the size of a small ocean liner, and yet here it was creating a new market for compact desktop computers.

At the time, Digital Equipment Corporation (DEC) was a successful computer company, making marginally smaller minicomputers including the much-loved PDP-11. My first experience of computers was at school playing text-based Star Trek on a print-console of a PDP-11. We cheered each time the fridge in the corner whirred and trundled through a new computation to plot the course of the Klingons.

Back to the story. DEC obviously decided that since it made smaller machines than IBM, it should be better at making a PC clone. And it was; it just couldn't sell them. So, with a modest fanfare, the DEC Rainbow PC was launched in 1982. The Rainbow was much better than the IBM PC in many ways. For a start, it looked good (although there's still heated debate on whether anything could have looked worse than the efforts from the IBM styling department). The Rainbow also beat the IBM model on various technical points, but it was still not a huge success.

One of the biggest problems with the Rainbow was its operating system. At the time, there were two main operating systems in the PC world: CP/M and MSDOS. Although the latter was, in a round-about way, derived from the former, they were incompatible and the market was split. IBM picked the Microsoft MSDOS product; DEC picked the CP/M product. Enough said.

DEC had also failed to give the Rainbow the marketing push it really

needed. Although it appeared on a few magazine covers around the world, it was not the first name on a buyer's list. And it was with some regret that, on a cold February in DEC headquarters in 1987, the word went out to stop selling the Rainbow. In its death throes, the Rainbow suddenly received a lot of coverage in the trade papers, with amusing headlines like "over the Rainbow".

In the end, DEC sold up to 300,000 Rainbow computers, but this was a drop in the flood tide of seven million IBM PCs that were sold in the same period. Looking back, the choice of CP/M probably played the biggest part in the Rainbow's downfall, in the same way that the IBM's choice of MSDOS and the release of the Lotus 1-2-3 spreadsheet boosted sales of the IBM PC to extraordinary levels.

Just because it had failed with the Rainbow, DEC did not leave the PC market. To compete with the new 16-bit IBM PC/AT model, it launched the DEC VAXmate that was AT-compatible and generally a

good clone. Only by then, Compaq and every other quality clone manufacturer had taken the bulk of the market.

The VAXmate was not a hot seller, so in 1989 DEC decided to try and entice Rainbow users to upgrade to its newest model, the DECstation. Forget the IBM and Compaqs of this world, come to DEC! Actually, it opted for the used-car dealer's trick of accepting Rainbows as trade-ins. DEC offered users up to \$2,200 off a DECstation in return for a tired old Rainbow. For your reference, the DECstation was made for DEC by Tandy and had a choice of either the 16-bit 80286 or 32-bit 80386 processors.

Let's go back to the DEC marketing strategy for the Rainbow. Remember, we're still in 1989, two years after it had been withdrawn. DEC issued a note telling customers that it was holding a sale of fire-damaged computers including stock of the old Rainbow. If you wanted a turkey, you could now have a golden roasted version for the bargain price of \$650 against the list price of \$2,800.

What is interesting is that the Rainbow had a five-year life span. You might smile, but this is pretty good going for any of today's new computer companies, let alone their individual products. Compare it with the technologically astounding Apple Lisa that I covered last month: that had an official life span of just one year, poor thing. In fact, the Rainbow probably had more publicity after its demise than during its heyday.

In 1989, two years after it was withdrawn from the market, companies started making accelerator cards for the Rainbow. Suitable Solutions, of California, came up with a card that allowed your Rainbow to run Microsoft's new Windows/286. Now, since Windows/286 had to be one of the least reliable bits of software available, this was a mixed blessing.

More useful was a utility that turned the Rainbow into a PC-compatible. It was just seven years too late.

Simon Collin



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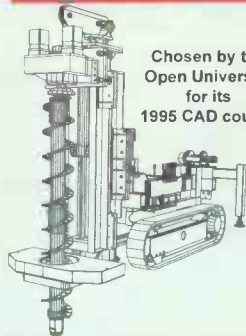
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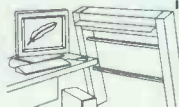
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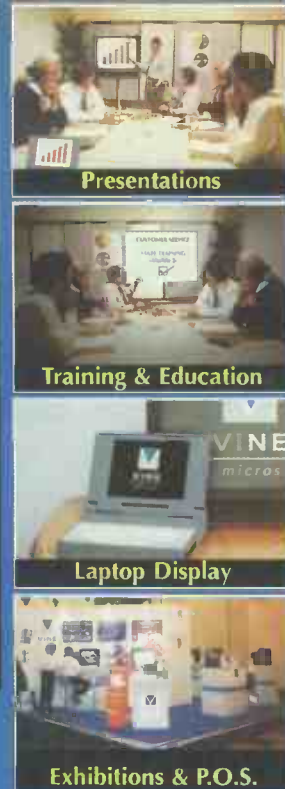
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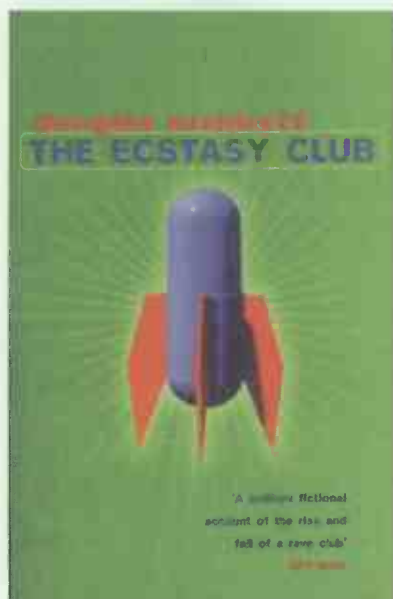
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Books

The Ecstasy Club is open, The Truth is hard to find, and Society of the Mind plays mindgames. Books reviewed by Lynley Oram.



■ The Ecstasy Club

The Ecstasy Club is a first novel from Douglas Rushkoff and it is a brilliantly crafted piece of writing. Although I enjoyed the first three quarters of the book, it did annoy me towards the end when the already surreal storyline veered off into the twilight zone. The publisher, Hodder & Stoughton, is hyping the techie side of this book, promoting *The Ecstasy Club* as an electronic playground where hackers and esoteric spiritualists strive to create a new, plugged-in utopia.

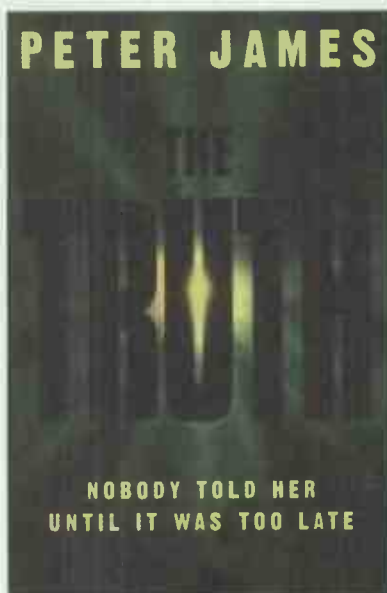
Unfortunately, Rushkoff doesn't really know what to do with most of the hi-tech equipment that his characters manage to acquire. After an initial introduction it all ends up in the periphery, narrative props with which to furnish the storyline. Especially the virtual reality kit, which I found hard to visualise from Rushkoff's scant descriptions.

The setting is a derelict piano factory in San Francisco. A group of the usual disenfranchised nineties twenty-somethings set up house there, converting it into their idea of a commune-cum-rave-venue. The set-up quickly starts to evolve into a kind of cult with, if not quite as many drugs as Timothy Leary et al were able to indulge in,

more than enough to fry the brains of any average mortal.

Narrated in the first person, we see everything through the eyes of Zach, one of the group's founder members. This technique has two effects: it draws the reader into the centre of the story, making you feel like you are part of the group; but it also means that you, as the reader, lose your objectivity. As Zach takes increasingly large quantities of drugs and quickly loses his grip on reality, it is increasingly difficult to separate reality from his paranoid drug haze of a viewpoint.

It will also help if you have had some experience of the rave culture, as this will come in handy when the book descends into one of its more ambiguous periods. However, ultimately this is just a nineties spin on an age-old story — what happens when a group of youngsters get together with the idea of changing the consciousness of the entire world through a mix of drugs and ideology. A bit heavy, perhaps, but still immensely readable.



■ The Truth

Peter James is an outspoken writer who holds some controversial views [see page

184 for an interview with the man himself]. Don't expect *The Truth* to contain any startling or unconventional opinions, though: this is a horror-cum-thriller in the mode of Clive Barker and Stephen King, and it sticks to the formula all the way through.

The story centres around two characters, John and Susan Carter, both in their thirties and both highly intelligent and successful — or so it would seem. A lot of time is spent setting the stage, so that the reader is intimate with the couple and the lives they lead. You feel that you could recognise the street they live in if you happened upon it. This is a great strength of James's writing style, and part of what makes *The Truth* such an engrossing read.

John Carter runs his own multimedia company which is doing stonkingly well, despite the fact that he has vastly overstretched himself financially. Thanks to a technology-junkie of a bank manager who has been more than willing to undersign any loan John requested, he now owes far more than he should. Susan, who has a background in physics, is an editor for a publishing house which specialises in non-fiction, technical books.

Slowly we start to recognise the peripheral characters, with the baddies recognisable by their love of books and hatred of computers, and the goodies characterised by their scientific and spiritual beliefs. For example, John's world starts to fall apart with the arrival of a new bank manager, a bible-thumping Christian who equates computers with the devil. This is a tantalising theme which James fails to capitalise on: it would have been nice to see some sort of conclusion reached.

As the Carters' cosy world disintegrates, the mysterious Mr Emil Sarotzini steps in with an offer which appears to be the answer to all their problems. The reader, privy to parts of the plot that the Carters are in blissful ignorance of, can see him for the evil, sinister character he is. What keeps you on the edge of your seat is whether the Carters will find out the truth in time to save themselves, and their souls.

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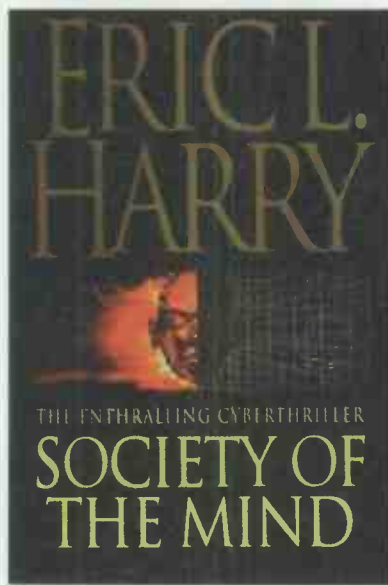
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■ Society of the Mind

Society of the Mind is a cumbersome title for what is essentially a piece of escapism. Just right for curling up in front of the fire with, on those long, dark winter nights.

Set in the year 2003, the story revolves around Laura Aldridge, a psychology professor at Harvard. Not only is she highly intelligent, she's also good looking and in great shape. Romantic interest is provided by Joseph Gray, one of the richest men on the planet. Not only is he thirty, tall, dark and handsome, but he also owns a tropical island complete with launch pad for sending spacecraft into orbit. All very tasty so far.

After a plodding start, the story hots up when Laura is offered a fee of \$1 million for one week's consultative work of an unspecified nature. Rightly suspicious, she nearly turns the offer down until circumstances in her personal life make the prospect of escaping to a tropical island very attractive. On arrival, she finds herself in a society far removed from the one she left.

Robots perform the most basic functions, from cutting the grass to manufacture. Even the cars are driverless robots. Behind everything the Gray Corporation does, is the Computer — and not just any old digital supercomputer. Joseph Gray has developed an analogue computer which uses varying light intensities for its computations. Interestingly, this computer has developed a personality and gender — female — of its own. And it's not feeling well.

What Laura is doing on the island and what Joseph Gray is really up to, are compelling parts of the story. But it's not so much what is wrong with the Computer, but why things are going wrong, that really compels the reader to keep turning pages. Every time you think you can guess what's going to happen next, just as you think this is going to turn into a megalomaniac-computer-rampage story, the author twists everything around and takes you down a different route. Gripping stuff.

PCW Details

The Ecstasy Club

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New prices from Oct 97
Left hand Page: Revised advert 3-9-97 col

Win £3,400-worth of small-office business gear

Microsoft, with Demon Internet and Compaq are the big names giving away software and hardware this month — all you could wish for to help you run a successful small business.

Courtesy of Microsoft, Demon Internet and Compaq, we have a bumper business bundle to give away this month. To celebrate the launch of its new software package, BackOffice™ Small Business Server, Microsoft has teamed up with Demon Internet and Compaq to give away, to one lucky PCW reader, a fabulous prize* worth £3,400, comprising:

Software

Microsoft BackOffice™ Small Business Server** is the new server software designed to provide a complete solution, making it easier to run your business.

Hardware

Compaq ProSignia 200, a network server featuring:

- Intel Pentium II 233MHz processor with 512Kb cache, 64Mb EDO memory, a 3.8Gb hard disk drive, a high-performance network card and a CD-ROM.
- Excellent manageability and reliability features.
- Three-year on-site warranty,

Internet connection

Demon Internet one-year account with

Microsoft ➔ **Demon Internet** **COMPAQ**



Demon Business Dial for reliable access to the net via a single call connection, individual employee email addresses, and 5Mb of server space for your own web site.

Small Business Server Solution

Designed specifically to support companies with up to 25 PCs which already form part

of a computer network. Or, you may not yet have set up a network. Whatever your existing computing equipment, this solution will help your company's future growth.

■ **To enter this fabulous competition, answer the following question:**

How many PCs does Microsoft Small Business Server support?

■ Send the completed application form (below) to: PCW/SBS Competition, ITM, 47 Aylesbury Road, Thame OX9 3PG, or call the competition hotline (local rates charged) on **0845 2704270**.

Closing date is 30th January 1998

*The prize does not include installation or ancillary costs. **Microsoft and BackOffice™ Small Business Server are either trademarks or registered trademarks of Microsoft Corporation in the US and/or other countries.

Further information

Microsoft® Small Business server
www.microsoft.com/uk/sbs/
 Information for small businesses
www.microsoft.com/uk/business/

How to enter the Nitro 3D and Canon competitions (from page 337)

- Via our web site at
 - Or, for each competition you are entering (except for the Microsoft BackOffice competition) write your name, address and answer on a postcard, along with your daytime phone number. Mark your card with the correct name of the competition and send it to: PCW January Competition, P.O. Box 191, Woking, Surrey GU21 1FT. Closing date 30th January 1998.
- Only one entry per postcard, please.*
- Please state clearly on your entry if you do not wish to receive promotional material from other companies.

Rules of entry

Entrants must be aged 18 years or over. The competitions are open to readers of *Personal Computer World*, except for employees (and their families) of VNU Business Publications, STB Systems, Canon, Thomas Cook, Microsoft, Demon Internet and Compaq. The Editor of *Personal Computer World* is the sole judge of the competitions and his decision is final. No cash alternative is available in lieu of prizes.

PCW / Small Business Server Competition Entry Form

Answer

Title First Name Surname

Job Title Company Name

Address

Postcode Daytime telephone no.

E-mail address

It would help Microsoft, Compaq and Demon in their continuing product service and development if you could answer these questions:

- Q1. Are you the owner or manager of a business? Yes No
- Q2. Is your company thinking of buying a server? Yes No
- Q3. If yes, when is a purchase likely? 1mth 3mths 6mths 1yr 1yr +
- Q4. How many PCs are there on your site? 1-9 10-19 20-49 50-99 100+
- Q5. Does your PC have a CD-ROM drive? Yes No

If you do not wish to receive future relevant offers from VNU Business Publications and its marketing partners, please tick the box PCW 01/98

SmartBundle

MultiMedia Titles:

• PC Karaoke • Doom • Wayzata World FactBook • TIME Man of the Year • World Vista Atlas • Stellar 7 • PC Animation Festival • Kings Quest V • The Best of MediaClips • CD-ROM of CD ROMs

Education & Learning:

• Our House • Cinderella • Basic Spelling Tricks • Lenny's Music Toons • Putt Putt's Fun Pack • SingAlong Kids! • Sing-Along Kids2

Other Titles:

• 3D Animator • Beyond Planet Earth • Microsoft MultiMedia Mozart • Who Shot Johnny Rock? • PhotoMorph: Conversion Artist • Sports Illustrated • Hell Cab • PrintMaster Gold • Corridor 7: Alien Invasion • National Parks of America

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HP 670C Colour Printer ~~2119~~ only PLUS VAT = **£179.83**



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**CALL SMART ON
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Smart G100 Series Multimedia System



Intel Triton Motherboard • 512 K Pipe Line Burst Cache • 16 MB Fast EDO RAM • 1.08 GB Fast EIDE Hard Drive • IMB 64 Bit SVGA Exp. to 2 MB Graphics Card • 14" 0.28 Low Radiation SVGA Colour Monitor • 1.44 MB Floppy Drive • High Quality Mini Tower or

Desktop Unit • Windows 95 Keyboard • High Quality Serial Mouse • 8 Speed Multisession CD ROM • 16 Bit 3D Full Duplex Stereo Sound Card • 50 Watt Active Speakers • Cobra Joystick • Microphone

PROCESSOR	PRICE	
P75	£399 +VAT	=£468.83
P166+	£419 +VAT	=£492.33
P200+	£435 +VAT	=£511.13
P166MX (with MMX technology)	£459 +VAT	=£539.33
P200MX (with MMX technology)	£479 +VAT	=£562.83

Smart G200 Series Multimedia System



Intel Triton TX Motherboard • 512K Pipe Line Burst Cache • 32 MB Fast EDO RAM • 2.6 GB Fast EIDE Hard Drive • Ati 2MB 64 Bit 3D Charger SVGA Graphics Card • 14" 0.28 Low Radiation SVGA Colour Monitor • 1.44 MB Floppy Drive • High Quality

Mini Tower or Desktop Unit • Windows 95 Keyboard • High Quality Serial Mouse • 16 Speed Multisession CD ROM • Wavetable 32 Yamaha 3D Stereo Sound Card • 160 Watt Active Speakers • Cobra Deluxe Joystick • Microphone • Windows 95 on CD with manuals • Lotus SmartSuite 97 • 27 CD titles (See SmartBundle)

PROCESSOR	PRICE	
P75	£599 PLUS VAT	=£703.83
P166+	£619 PLUS VAT	=£727.33
P200+	£635 PLUS VAT	=£746.13
P166MX (with MMX technology)	£659 PLUS VAT	=£774.33
P200MX (with MMX technology)	£679 PLUS VAT	=£797.83

Smart G300 Series Multimedia System



Intel Triton TX Motherboard • 512 K Pipe Line Burst Cache • 64 MB Fast EDO RAM • 4.3 GB Hard Drive • ATi 4MB 64 Bit 3D Charger SVGA Graphics Card • 15" 0.28 SVGA Colour Monitor • 1.44 MB Floppy Drive • High Quality Mini Tower or Desktop Unit

• Windows 95 Keyboard • High Quality Serial Mouse • 24 Speed Multisession CD ROM • Wavetable 32 Yamaha 3D Stereo Sound Card • 160 Watt Active Speakers • Cobra Deluxe Joystick • Microphone • 33.6 Internal Voice Fax Modem • Windows 95 on CD with manuals • Lotus SmartSuite 97 • 27 CD Titles (See SmartBundle)

PROCESSOR	PRICE	
P75	£799 PLUS VAT	=£938.83
P166+	£819 PLUS VAT	=£962.33
P200+	£835 PLUS VAT	=£981.13
P166MX (with MMX technology)	£859 PLUS VAT	=£1009.33
P200MX (with MMX technology)	£879 PLUS VAT	=£1032.83

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Winner dan Most Reliable PC July 96



Service & Reliability User Survey, Desktop PCs August 1996



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dan Home Plus 133 5 Star Award December 96



dan Home Plus 133 Best Buy January 97

Dan presents two different models of dan PCs that have been specially designed for home use by the whole family. The best selling dan Home PC is still available but because of popular demand, we have introduced the dan Home Plus. This exciting home PC system is a

'superloaded' version which contains many upgrades. Both systems include multimedia kits, fax modems and collections of software titles. Younger children can enjoy games and educational programs and older ones can do their homework, listen to music, use an

encyclopedia or even watch TV (dan Home Plus only - available as option at extra cost for other systems). Adults can use a word processor, spreadsheet and database, send and receive faxes and e-mail or get connected to the Internet.



Quicken **MS Works** **World of Warcraft**

*ATI 3D Charger Graphics Card includes two 3D Games (Wipcut & Assault Rigs)

Choose one of the two software packs with the dan Home Plus PC (for Windows 95 only)

dan Home Plus Pentium Processor System

- 32MB EDO RAM
- 3.2GB EIDE Ultra DMA HDD
- Intel Pentium® Processor with MMX™
- 512KB Pipeline Burst Cache Memory
- 2MB ATI 3D Charger Graphics Card + 2 games*
- ATI ISA TV Tuner & Teletext Card
- 15" Super VGA/LR N/I Monitor
- 56KBPS VoiceFax/Modem (UK only)
- 24MAX EIDE CD-ROM
- Soundblaster AWE 64 OEM
- dan Hi-Fi Power Speakers (150W PMPO)
- Midi Tower Case w/200W PSU
- Free Slots: 2 PCi & 1 PCi or ISA
- Microsoft IntelliMouse™
- Fast EIDE PCi Hard Disk Controller
- 1.44MB Floppy disk Drive
- 1 Parallel & 2 Fast Serial Ports
- Win 95 UK Keyboard
- Joystick, Microphone
- Windows 95
- MS Works, Intuit Quicken 6SE, Encarta 97 US, dan MM Software package 1 or 2, & MMX Software Bundle: Ultimate Human Body, Pod, Space Station Simulator, The 3rd Dimension, Timetables of Technology.



dan MM Software Pack 1: Serif Page Plus, MS Plus for Kids, MS School Bus (Oceans), Musical Instruments, Fury 3, 3D Movie Maker, Creative Writer.

dan MM Software Pack 2: Serif Page Plus, Cinemania 97, Art Gallery, Multimedia Golf, World of Flight, WineGuide 1.

166MMX	£ 1129	£ 1327 incl. VAT	£ 47.38
200MMX	£ 1208	£ 1420 incl. VAT	£ 50.65
233MMX	£ 1276	£ 1500 incl. VAT	£ 53.47

BUY NOW PAY 6 MONTHS LATER

Monthly Payment APR 19.9%



dan Xplora Plus & dan Home Plus Midi Tower Case with Zip Drive Upgrade



"Dantium Home Plus PC: Nerds have dreams about PCs like this. Performance is spritely, with the help of the EDO RAM and the Intel chipset. Windows 95 positively flies, while Descend is so fast it almost seems like a new game. If you do a lot of graphical work, DTP and photo-editing for example, or disk intensive jobs - programming and the like - then the dan, with its greater performance and the built-in modem, is the better bet. For these reasons and the combination of other hardware, the dan picks up the award for best-value PC here. It is recommended if you want to get your money's worth - and who doesn't?" **PC Format, Best Value Award, (dantium Home Plus), June '96**

What the experts said

Add-ons

TX Chipset Upgrade (w/SDRAM)	£ 23	28
Additional 16MB EDO Memory	£ 35	42
Additional 32MB EDO Memory	£ 70	83
4.3GB HDD upgrade from 3.2GB	£ 18	22
5.2GB HDD upgrade from 3.2GB	£ 51	60
17" iiyama 8617T Monitor Upgrade from 15"	£ 266	313

Upgrade the dan Hi-Fi speakers to

Yamaha M15 Speakers	£ 12	(£ 15 inc VAT)
Yamaha M15 Speakers with MS10 SubWoofer	£ 69	(£ 82 inc VAT)
Save on MS Office 97		
MS Office 97 for Students	£ 107	(£ 126 inc VAT)
CALL	More people qualify for this Microsoft offer.	

3D CHARGER 2MB EDO RAM VIDEO CARD supplied with dan Home Plus

The 3D CHARGER (or better known as 3D XPRESSION+) is ATI's newest multimedia accelerator which combines a rich set of 3D, 2D and video features, making it ideal for PC gaming, 3D web browsing and multimedia workstations. The 3D CHARGER features 3D acceleration, full 2D acceleration and TV quality video, full-motion, full-screen MPEG playback capabilities. It provides virtual reality graphics and action game play previously only available on game consoles. The 3D CHARGER is upgradable with powerful multimedia options including a TV Tuner and other future expansion options. It is based on the ATI 3D RAGE II+ DVD graphics processor.



340 b



Cert. No: 95/4556 ISO 9002:EN 29002 (BS 5750 Pt 2)

go direct to dan



A modem is your gateway to the outside world. The dan Home Plus, the dan Home II Plus, the dan Xplora and dan Xplora Plus all include a high speed voicefax modem as standard. You can now send and receive faxes from your PC as well as talk to millions of other computer

users through PIPEX DIAL. This trial software is included to give you 28 days (or max 24 hrs) access free of charge with details for a full system upgrade. You can 'surf' the INTERNET, find information on almost any subject, or even do some shopping!

dan Home II Plus

Pentium II Processor System

- 32MB SDRAM
- Fast 3.2GB EIDE Hard Disk
- Intel Pentium® II Processor with MMX™ with 512KB Cache Memory
- 2MB ATI 3D Charger Graphics Card + 2 games*
- Hauppauge PCI WinTV Card
- 15" Super VGA L/R N/I Monitor
- 56KBPS VoiceFax/Modem (UK only)
- 24MAX Speed CD-ROM
- Soundblaster AWE 64 OEM
- dan Hi-Fi Power Speakers (150W PMPO)
- Midi Tower Case w/200W PSU
- Free Slots: 2 PCI
- Microsoft IntelliMouse™
- Fast EIDE PCI Hard Disk Controller
- 1.44MB Floppy Disk Drive
- 1 Parallel & 2 Fast Serial Ports
- Win95 UK Keyboard
- Joystick, Microphone
- Windows95
- MS Works, Intuit Quicken 6SE, Encarta 97 US, dan MM Software package 1 or 2, & MMX Software Bundle: Ultimate Human Body, Pod, Space Station Simulator, The 3rd Dimension, Timetables of Technology.



BUY NOW PAY 6 Months LATER
Deposit Required
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233MMX	£ 1463	£ 1720 incl. VAT	£ 61.22
266MMX	£ 1564	£ 1838 incl. VAT	£ 65.38
300MMX	£ 1728	£ 2031 incl. VAT	£ 72.18

dan Xplora

Entry-level INTERNET PC

- 16MB EDO RAM
- Fast 2.5GB EIDE Hard Disk
- Intel Pentium® Processor with MMX™
- 512KB Pipeline Burst Cache Memory
- 2MB EDO RAM/64-bit Graphics Card
- 14" Super VGA L/R N/I Monitor
- 56KBPS VoiceFax/Modem (UK only)
- 16MAX EIDE CD-ROM
- 16-bit Sound Card
- dan Advanced Speakers (10W PMPO)
- Desktop Case w/200W PSU
- Free Slots: 2 PCI & 1 PCI or ISA
- Microsoft IntelliMouse™
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- 1 Parallel & 2 Fast Serial Ports
- Win95 UK Keyboard
- Microphone
- Windows95
- MS Works Suite, Intuit Quicken 6SE & MMX™ Software Bundle (5 titles)



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Deposit Required
Monthly Payment APR 19.9%

166MMX	£ 834	£ 980 incl. VAT	£ 35.16
200MMX	£ 913	£ 1073 incl. VAT	£ 38.43
233MMX	£ 981	£ 1153 incl. VAT	£ 41.25

Delivery cost to most of UK for one system is £ 15 (£ 18 inc VAT)

dan Xplora Plus

Top of the Range INTERNET PC

- 32MB EDO RAM
- 3.2GB EIDE Ultra DMA HDD
- Intel Pentium® Processor with MMX™
- 512KB Pipeline Burst Cache Memory
- 2MB EDO RAM/64-bit Graphics Card
- 15" Super VGA L/R N/I Monitor
- 56KBPS VoiceFax/Modem (UK only)
- 16MAX EIDE CD-ROM
- Soundblaster AWE 64 OEM
- dan Hi-Fi Power Speakers (150W PMPO)
- Midi Tower Case w/200W PSU
- Free Slots: 2 PCI & 1 PCI or ISA
- Microsoft IntelliMouse™
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- Win95 UK Keyboard
- Microphone
- Windows95
- 1 Parallel & 2 Fast Serial Ports
- MS Works Suite, Intuit Quicken 6SE & MMX™ Software Bundle (5 titles)



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166MMX	£ 981	£ 1153 incl. VAT	£ 41.25
200MMX	£ 1060	£ 1246 incl. VAT	£ 44.53
233MMX	£ 1128	£ 1326 incl. VAT	£ 47.34

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WHAT C? "We would be lying if we said that the dan Home Plus/133 was the fastest PC in the world, but it is certainly one of the fastest Pentium 133 machines we have ever tested. This machine speaks volumes about its components and the thought that went into its design. Add to that the fact that it is competitively priced and you end up with a PC that has much to recommend it. Overall, the dan Home Plus/133 is an excellent buy."
WHAT PC, Best Buy (dan Home Plus/133), Aug'96

Now Open Saturdays*



dan Xplora Plus/166 September '97



dan Xplora & dan Home desktop case

Watch TV & TELETEXT on your PC

(Requires ATI Video Card with AMC connector)

This card combines TV program viewing with video recording on your PC. It enables the PC to receive TV broadcast signals directly from an aerial or cable and display a live TV program on your standard VGA monitor. You can connect it to a VCR, laser disk player or camcorder to capture images or movie clips. These can then be saved to disk, copied to business presentations, web pages or e-mail.

For UK only

TV on your PC & Teletext

Capture Pictures and Video Clips included as standard in dan Home Plus PC

In addition to the TV capability you can display teletext pages with Fast text. Additional features include:

- Full screen TV, zoom and movie clip capture.
- Save/print capture images or teletext pages.
- MPEG-1 Playback (30 fps - supports Video CD 2, Karaoke etc).
- Save captured still images direct to Windows Wallpaper.
- Enlarge any area of the TV picture you select.

WARRANTY: All Dan systems and components come with one year back-to-base parts/labour guarantee and Lifetime Hotline telephone support. Optional next-working-day (subject to customer location and time of call) response ON-SITE maintenance (£42 for the first year). 14 DAY MONEY BACK GUARANTEE IF NOT SATISFIED (excludes printers & software). All software supplied on original media, except for Works which is only pre-installed on the hard disk. Dan Technology systems prices and specifications are subject to change without notice. All sales are subject to Dan Technology Ltd terms and conditions, a copy of which may be obtained on request. Dan Technology is a tradename of Dan Technology Ltd which is a subsidiary of Dan Technology Holdings Ltd. Intel Inside logo & Pentium are registered trademarks and MMX is a trademark of the Intel Corporation. All trademarks acknowledged.

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Personal Computer World (PCW), March '97

All prices exclude delivery & VAT @ 17.5%. E. & O.E.

In Dan Technology's ten years of supplying built-to-order computers direct to UK end users, we have earned universal acclaim for our "quality first" approach. Our products enjoy an unrivalled reputation for solid reliability, class-leading performance and great value for money.

Our customer service has won accolades too, with readers' awards this year from no fewer than four of the country's leading magazines — PCW, PC Magazine, What PC? and PC Pro. And when two of them asked their readers if they'd buy again from the same vendor, both found that Dan has the nation's most satisfied customers.

So if you care about quality as well as price, look at Dan's range. We think you'll like what you see.

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Entry-level Pentium® Processor System

- 16MB EDO RAM
- Choice of Hard Disk Drive
- Intel Pentium® Processor w/MMX™
- 512KB Pipeline Burst Cache Memory
- 2MB EDO RAM/64-bit Video Card
- 14" Super VGA L/R N/I Monitor
- 24MAX EIDE CD-ROM
- Free Slots: 2 PCi, 1 PCi or ISA & 2 ISA
- Fast EIDE PCi HDD Controller
- 1.44MB Floppy Disk Drive
- Desktop Case w/200W PSU
- Win 95 UK Keyboard
- Windows 95 or Win 3.11
- 1 Parallel & 2 Fast Serial Ports
- Microsoft IntelliMouse™
- MS Works Suite, Quicken 6SE



dantum 95

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- 2MB EDO RAM/64-bit Video Card
- 15" Super VGA L/R N/I Monitor
- 24MAX EIDE CD-ROM
- Free Slots: 2 PCi, 1 PCi or ISA & 2 ISA
- Fast EIDE PCi HDD Controller
- 1.44MB Floppy Disk Drive
- Desktop Case w/200W PSU
- Win 95 UK Keyboard
- Windows 95 or Win 3.11
- 1 Parallel & 2 Fast Serial Ports
- Microsoft IntelliMouse™
- MS Works Suite, Quicken 6SE



dantum II

Classic Pentium II® Processor System

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- Intel Pentium II® Processor
- 512KB Pipeline Burst Cache Memory
- 4MB SGRAM Xpert@work Video Card
- 15" Super VGA L/R N/I Monitor
- 24MAX EIDE CD-ROM
- Free Slots: 2 PCi, 1 PCi or ISA & 2 ISA
- Fast EIDE PCi HDD Controller
- 1.44MB Floppy Disk Drive
- Midi Tower Case w/200W PSU
- Win 95 UK Keyboard
- Windows 95
- 1 Parallel & 2 Fast Serial Ports
- Microsoft IntelliMouse™
- MS Works Suite & Quicken 6SE



Pentium Processor	166MMX	200MMX	233MMX
1.2GB	£ 683	£ 766	£ 836
2.1GB	£ 702	£ 785	£ 855
3.2GB	£ 726	£ 809	£ 879
4.3GB	£ 745	£ 828	£ 898
5.2GB	£ 779	£ 862	£ 932
2.1GB	£ 965	£1048	£1118
4.1GB	£1232	£1315	£1385

Pentium Processor	166MMX	200MMX	233MMX
2.1GB	£ 868	£ 951	£1021
3.2GB	£ 892	£ 975	£1045
4.3GB	£ 911	£ 994	£1064
5.2GB	£ 945	£1028	£1098
6.4GB	£ 999	£1082	£1152
2.1GB	£1131	£1214	£1284
4.1GB	£1398	£1481	£1551

Pentium II Processor	233MHz	266MHz	300MHz
2.1GB	£1175	£1281	£1451
3.2GB	£1199	£1305	£1475
4.3GB	£1218	£1324	£1494
5.2GB	£1252	£1358	£1528
6.4GB	£1306	£1412	£1582
2.1GB	£1438	£1544	£1714
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ATi TV & Teletext Card £58
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ATi TV & Teletext Card £58
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Delivery cost to most of UK for one system is £15.

Call for low cost upgrade to Office 97 & Office 97 Pro

Network Workstations



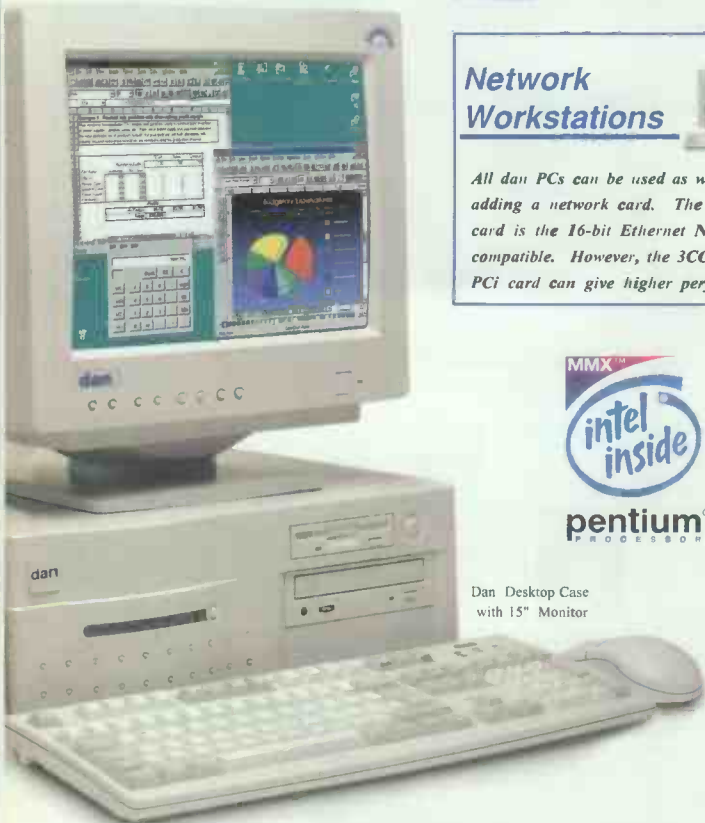
All dan PCs can be used as workstations by adding a network card. The most popular card is the 16-bit Ethernet Novell NE2000 compatible. However, the 3COM 509 or the PCi card can give higher performance.

Example of Workstations:

Entry level Station
dantum/166MMX WS
dantum/166MMX £ 683
16-bit Ethernet card £ 20
Workstation price £ 703

Best Seller Station
dantum95/200MMX WS
dantum95/200MMX £ 951
3COM509 card £ 57
Workstation price £ 1008

Power User Station
dantum II/266MHz WS
dantum II/266MHz £ 1281
PCi Ethernet card £ 64
Workstations price £ 1345



Dan Desktop Case with 15" Monitor



"When it comes to customer satisfaction, Dan is still top of the desktop PC vendors. For the fifth year in a row it has won the Overall Satisfaction category. The first year Dan won, cynics said that the company was small so customer service was easy, and that as it grew standards would fall. But five years on, Dan is still growing and still at the top...Dan can truly be said to be the best organisation at delivering excellence in customer satisfaction." PC Magazine, August 1997

Service & Reliability 1997 Reader Survey

go direct to dan



“ One company has become synonymous with servers and that is dan, which has a wide range of options to suit many different network needs. ”

Winner & Runner-up of Network Servers Category, Readers Survey - Direct Hits 1994, 95, 96 & 97, PC Direct, June '96

Now Open Saturdays*

Dan Servers for Novell and other Networks

When so much depends on one machine, it makes sense to go for the best in reliability and quality, as well as price and performance. In short, you have to choose the right supplier.

We understand that your business will depend on your network; no one is more reliable than Dan with its numerous magazine and reader awards, including being the winner and runner-up in the Server category of PC Direct's Reader survey for the last 4 years.

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- 32-bit PCI Network Card (3COM900)
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- Win 95 UK Keyboard
- Windows 95 or Win 3.11
- 1 Parallel & 2 Fast Serial Ports
- Microsoft IntelliMouse™

Pentium Processor	166MHz	200MHz	233MHz
3.2GB	£ 824	£ 907	£ 977
5.2GB	£ 877	£ 960	£ 1030
2.10GB	£ 1063	£ 1146	£ 1216
4.10GB	£ 1330	£ 1413	£ 1483

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Pentium® Pro Processor System

- 64MB RAM
- Choice of Ultra DMA HDD from table
- Intel Pentium® Pro Processor with 256KB or 512KB Cache Memory
- 2MB EDO RAM/64-bit Video Card
- 14" Super VGA L/R N/I Monitor
- 24MAX Speed EIDE CD-ROM
- 32-bit PCI Network Card (3COM900)
- Fast EIDE PCI HDD or Adaptec AHA-2940 PCI SCSI Controller
- Free Slots: 2 PCI, 1 PCI or ISA & 1 ISA (SCSI systems have one PCI slot less)
- 1.44MB Floppy Disk Drive
- Full Tower Case w/250W PSU
- Win 95 UK Keyboard
- Windows 95 or Win 3.11 or Windows NT (extra cost)
- 1 Parallel & 2 Fast Serial Ports
- Microsoft IntelliMouse™

Pentium Pro Processor	200 256KB cache	200 512KB cache
3.2GB	£ 1288	£ 1747
5.2GB	£ 1341	£ 1800
2.10GB	£ 1527	£ 1986
4.10GB	£ 1794	£ 2253

dantum II Server

Pentium® II Processor System

- 64MB SDRAM
- Choice of Ultra DMA HDD from table
- Intel Pentium® II Processor with MMX™
- Intel LX Chipset
- 512KB Pipeline Burst Cache Memory
- 2MB EDO RAM 64-bit Video Card
- 14" Super VGA L/R N/I Monitor
- 24MAX Speed EIDE CD-ROM
- 32-bit PCI Network Card (3COM900)
- Fast EIDE PCI HDD or Adaptec AHA-2940 PCI SCSI Controller
- Free Slots: 1 PCI, 1 PCI or ISA & 1 ISA (SCSI systems have one PCI slot less)
- 1.44MB Floppy Disk Drive
- Full Size Tower Case w/250W PSU
- Win 95 UK Keyboard
- Windows 95 or Win 3.11
- 1 Parallel & 2 Fast Serial Ports
- Microsoft IntelliMouse™

Pentium II Processor	233 MHz	266 MHz	300 MHz
3.2GB	£ 1321	£ 1427	£ 1597
5.2GB	£ 1374	£ 1480	£ 1650
2.10GB	£ 1560	£ 1666	£ 1836
4.10GB	£ 1827	£ 1933	£ 2103

For Novell Netware File Servers: you must upgrade the EIDE CD-ROM to SCSI add £ 24 (plus £ 112 for SCSI controller if needed - Adaptec AHA 2920)

Call for larger and Ultra Wide SCSI Hard Disk drives.

Call for Windows NT WS / Server Upgrade from Windows 95 and DUAL Pentium II and Pentium Pro Processor Servers

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Network Upgrades

Miscellaneous

+32MB SDRAM Memory Upgrade	£ 77
14" Colour Monitor from 14" Mono	£ 51
15" Colour Monitor from 14" SVGA	£ 43

Uninterruptible Power Supplies - UPS

600VA UPS Line Interactive (Fiskars)	£ 278
800VA UPS ON-Line (Fiskars)	£ 529
1000VA UPS Line Interactive (Fiskars)	£ 438

Network Cards

16-Bit Network Card Ethernet (Novell NE2000 Compatible - Thin Ethernet & Twisted Pair)	£ 20
16-Bit Network Card Ethernet (3COM509)	£ 57
32-bit PCI Ethernet Card (3COM900)	£ 64
32-bit PCI 100Mbps base-T Ethernet Card (3COM905)	£ 54
32-bit PCI Intel Express Pro 100UTP Card	£ 49

Network 10-Base-T Hubs

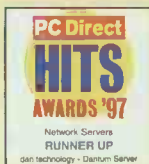
8 Port 10 base-T Mini Ethernet Hub	£ 36
16 Port 10 base-T Mini Ethernet Hub	£ 106

Tape Streamers

(Controller, Tapes & Backup Software not included)	
4GB DAT Tape Streamer for Server	£ 470
8GB DAT Tape Streamer for Server	£ 613
12GB DAT Tape Streamer for Server	£ 865

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Memory

72-pin Modules

4MB Memory Module with Parity	£ 15 (18)
4MB Memory Module EDO RAM	£ 11 (13)
8MB Memory Module with Parity	£ 32 (38)
8MB Memory Module EDO RAM	£ 18 (22)
16MB Memory Module with Parity	£ 53 (63)
16MB Memory Module EDO RAM	£ 35 (42)
32MB Memory Module EDO RAM	£ 69 (82)

30-pin Modules

1MB Memory Module with Parity	£ 7 (9)
4MB Memory Module with Parity	£ 14 (17)

168-pin Modules

16MB Memory Module SDRAM	£ 45 (53)
32MB Memory Module SDRAM	£ 77 (91)

RAM Prices are subject to change. Call for latest prices.

Video Cards

ATI PCI 64-bit 2MB EDO RAM Video Card	£ 24 (29)
ATI PCI 3D Charger 2MB Video Card + 2games	£ 35 (42)
ATI PCI Xpert@Work 4MB SGRAM Video Card	£ 85 (100)
ATI PCI Xpert@Work 8MB SGRAM Video Card	£ 113 (133)
Matrox Mystique 220 PCI 4MB SGRAM Video Card	£ 79 (93)
Matrox Mystique 220 PCI 8MB SGRAM Video Card	£ 118 (139)
Matrox Millennium II PCI 4MB WRAM Video Card	£ 114 (134)
Matrox Millennium II PCI 8MB WRAM Video Card	£ 194 (228)
Matrox Millennium II PCI 16MB WRAM Video Card	£ 311 (366)
Matrox Rainbow Runner Studio	£ 135 (159)

CPUs/Motherboards

CPUs

AMD K6 - 200MHz	£ 130 (153)
AMD K6 - 233MHz	£ 205 (241)
Pentium 166MHz w/MMX	£ 89 (105)
Pentium 200MHz w/MMX	£ 168 (198)
Pentium 233MHz w/MMX	£ 236 (278)
Pentium II 233MHz	£ 325 (382)
Pentium II 266MHz	£ 426 (501)
Pentium Pro 200MHz w/256K Cache	£ 384 (452)

Motherboards

PCI Pentium VX w/512K Pipeline Cache	£ 70 (83)
PCI AT Pentium TX w/512K Pipeline Cache	£ 86 (102)
PCI ATX Pentium TX w/512K Pipeline Cache	£ 91 (107)
PCI Pentium Pro Intel Natoma	£ 123 (145)
PCI Pentium III X	£ 130 (153)

Hard Disk Drives

1.2 GB EIDE	£ 93 (110)
1.6 GB EIDE	£ 101 (119)
2.0 GB EIDE	£ 111 (131)
2.5 GB EIDE	£ 120 (141)
3.2 GB EIDE	£ 134 (158)
4.0 GB EIDE	£ 152 (179)
5.2 GB EIDE	£ 185 (218)
6.4 GB EIDE	£ 237 (279)
2.1 GB SCSI	£ 178 (210)
4.0 GB SCSI	£ 435 (512)
9.0 GB SCSI	£ 848 (997)
2.1 GB Wide SCSI	£ 277 (326)
4.0 GB Wide SCSI	£ 468 (550)

"The dp Assurance" - All dp hard drives are supplied complete with 3.5" to 5.25" conversion kits, drive and screws. A dual EIDE ribbon cable can also be supplied at an additional cost of £ 7 (£ 8 inc.vat).

HDDs greater than 525MB require systems with LBA BIOS or the use of a controller like the VESA Local BUS Promise 2300Plus.

Adaptec PCI 2920 SCSI controller	£ 107 (126)
Adaptec PCI 2940 SCSI controller	£ 186 (219)
Adaptec PCI 2940 UW SCSI controller	£ 216 (254)
Promise VESA 2300 plus EIDE controller	£ 33 (39)

Network (Thin Ethernet)

ISA 16-bit Ethernet Combo Network Card	£ 19 (23)
ISA 32-bit 3COM509 Combo Network Card	£ 55 (65)
EISA 32-bit 3COM592 Network Card	£ Call (Call)
PCI 32-bit 3COM905 Base-T Network Card	£ 52 (62)
PCI 32-bit 3COM900 Combo Network Card	£ 61 (72)
PCI 32-bit Cogent EM9 60C Network Card	£ 64 (76)
PCI 32-bit 4-port Cogent Network Card	£ 374 (440)
8-port 10 base-T mini Ethernet Hub	£ 35 (42)
16-port 10 base-T mini Ethernet Hub	£ 102 (120)

The Company



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Backup Devices

2GB DAT Tape Streamer	£ 420 (494)
4GB DAT Tape Streamer	£ 452 (526)
Seagate Tape Stor 8000 (IDE or SCSI)	£ 268 (315)
IOMEGA 2GB Floppy Tape Streamer + tape	£ 81 (96)
IOMEGA 3200 Internal Tape Drive + tape	£ 128 (151)
IOMEGA 100MB ZIP Int. ATAPI Drive	£ 73 (86)
IOMEGA 100MB ZIP Cartridge	£ 10 (12)
IOMEGA 1GB JAZ Internal SCSI Drive	£ 249 (293)
IOMEGA 1GB JAZ Cartridge	£ 57 (67)
<i>Jaz Drives require SCSI Controller & backup software. No tapes supplied.</i>	
Adaptec AHA-1520 SCSI 16-bit Controller for SCSI Tape Streamers & Jaz	£ 51 (60)

Multimedia Devices

24max Speed IDE CD-ROM	£ 59 (70)
16max Speed IDE CD-ROM	£ 54 (64)
24x Speed SCSI CD-ROM	£ 83 (98)
Yamaha CDR400t CD Writer	£ 290 (341)
Yamaha CDR400t CD Writer with controller	£ 399 (469)
16-bit Soundcard (Sound Blaster compatible)	£ 14 (17)
Sound Blaster 16	£ 19 (23)
Sound Blaster AWE 64 SE (OEM)	£ 51 (60)
Sound Blaster AWE 64 Gold	£ 119 (140)
dp Hi-Fi Power Speakers (150W PMPO)	£ 25 (30)
Yamaha YST M15 Speakers	£ 37 (44)
Yamaha YST M15 Spkrs + MSW10 Subwoofer	£ 93 (110)

New Product Info

dp Midi Tower Case with 200W PSU	£ 42 (51)
<i>supports 3 external (front loading) 5.25" drive bays, 2 external 3.5" and 1 internal 3.5" drive bays.</i>	

Fax/Modems

Internal 33.6KBPS Win Fax/Modem w/voice	£ 75 (89)
Internal 56.6KBPS Fax/Modem w/voice	£ 83 (98)
US Robotics Ext. 33.6KBPS Fax/Modem w/voice	£ 125 (147)
Sportster External 33.6KBPS Flash Fax/Modem	£ 137 (161)
Pace ISDN Terminal Adapter	£ 260 (306)
All modems are BABT Approved	

Input Devices

Cherry Keyboard for Windows 95	£ 15 (18)
Keytronics Keyboard for Windows 95	£ 16 (19)
Microsoft Natural Keyboard	£ 39 (46)
Microsoft IntelliMouse	£ 40 (47)
Joystick	£ 18 (22)

Prices in brackets include VAT @ 17.5% E.&O.E.

Monitors



15" Iiyama MF8515G SVGA Colour Monitor FST Tube, .28dot, 1600x1200 @ 85KHz	£ 212 (250)	21" Iiyama 9221 SVGA Colour Monitor DiamondTron, .28ag, 1800x1440 @ 75KHz	£ 1026 (1206)
17" Iiyama 8617T SVGA Colour Monitor FST Tube, .26dot, 1600x1200 @ 86KHz	£ 430 (506)	14" CTX SVGA Colour Monitor Shadow Mask, .28dot, 800x600 @ 72KHz	£ 121 (143)
17" Iiyama 9017T SVGA Colour Monitor DiamondTron, .25ag, 1600x1200 @ 72KHz	£ 474 (557)	15" CTX SVGA FST Colour Monitor Shadow Mask, .28dot, 1024x768 @ 72KHz	£ 164 (193)
21" Iiyama 9021T SVGA Colour Monitor DiamondTron, .30ag, 1600x1200 @ 92KHz	£ 981 (1153)	17" CTX 1785S FST SVGA Colour Monitor Shadow Mask, .28dot, 1280x1024 @ 65KHz	£ 361 (425)

TV & Teletext Cards

ATI 2MB EDO RAM Video Card and ISA Tuner Card



£ 82 (98) TV Card only £ 58 (69)

This two card combination enables your the PC to receive TV broadcast signals directly from an aerial or cable and display a live TV program on your standard VGA monitor. You can connect it to a VCR, laser disk player or camcorder to capture and save images or movie clips for use in other applications. In addition you can also display Teletext pages with Fast text.

Hauppauge PCI WinTV Card £ 82 (97)



The Hauppauge Win/TV PCI board is a single slot Plug and Play card with a 125-channel TV tuner and video digitiser and Teletext Decoder. Capture pro-quality stills or motion video in AVI format. Fully compatible with wide range of PCI VGA cards.

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No-nonsense Buyer's Guide



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1. Always use a PCW order form.
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3. Keep copies of all correspondence. If you speak on the phone make a note of to whom you spoke.
4. On large orders, obtain a written quotation.
5. If possible, pay with a personal credit card. All transactions over £100 should be covered by the card company's insurance scheme.
6. Does the price quoted include everything discussed? Is VAT extra?
7. Check how the supplier will deliver and whether or not delivery times are guaranteed.
8. Is free telephone technical support included in the price? Some suppliers offer support only on premium 0891 numbers. Is it easy to get through? Try dialling the number to test it out.
9. Is the warranty return-to-base or onsite? "Return-to-base" means that you'll have to pay to ship the product back to the supplier.
10. If you're paying extra for online support, does the manufacturer offer guaranteed response times? If you rely on your PC for your business you'll need it fixed, pronto.
11. Is the supplier reputable? Does it comply with BS5750 or ISO9000? If in doubt, ask to see customer testimonials.
12. When your PC arrives, check that all branded components are genuine.

Buying a PC

PCs get cheaper and faster all the time and your state-of-the-art PC can quickly become outdated. That may not matter, though, if it still does what you require. But if you're buying a new general-purpose PC now, it should be fitted with a CD-ROM drive, sound card and speakers so that you'll be able to play games and run a wide range of modern software.

Minimum specifications

- It is a false economy to buy a new PC with less than 16Mb of RAM. The jump from 8Mb to 16Mb of RAM makes a huge difference to performance.
- Ensure Pentium motherboards have an Intel Triton 430 VX, HX, TX or compatible chipset.
- Avoid 14in monitors. The difference between 14in and 15in doesn't sound much but means the screen is 15 percent smaller. If you can afford it, buy a 17in monitor.

Other things to consider

Most small PC manufacturers buy their motherboards from Taiwanese or far eastern manufacturers. Larger companies either design their own motherboards (e.g. Apricot, Compaq, IBM) or get motherboards built to their specification (e.g. Gateway). Intel chips are no longer the only choice. AMD's K6 processors are well worth considering, too. It is amazing how hard disks fill up and it's unusual to have *too much* disk space.

Some suppliers offer you the choice of Windows 95 or Windows NT. For general home or small office use, Windows 95 is still the best choice. You may need to consider NT for some specialist applications like programming, DTP or CAD.

Practically every month, CD-ROM drives get faster. Higher speeds and bigger numbers just mean you can access files from them more quickly and that video clips on them play more smoothly.

Look closely at the software that's bundled with your PC. If you want an Office suite it's usually cheaper to buy it bundled with your PC. Software bundles can also be an excuse for manufacturers to unload piles of old or second-rate software. Check whether you get the original media if you need to re-install.

For this Buyer's Guide we've drawn up four specifications. We haven't mentioned particular manufacturers because you'll find up-to-date PC reviews in every issue of PCW.

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Anthony George

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PCW Second-hand spec

Buying second-hand or discontinued kit is the cheapest way to get started. This is the minimum spec we think you should choose for general business use, playing games and accessing the internet.

- Windows 3.1 or 3.11
- DX2 66MHz 486 processor
- 8Mb RAM
- Graphics card with 512Kb of memory
- 200Mb hard disk
- 3.5in floppy disk
- CD-ROM drive
- 14in colour monitor

PCW Minimum specification

This is the absolute minimum spec we think you should consider if you are buying a new PC. Suitable for general business use: word processing, databases, spreadsheets and, with a modem, accessing the internet.

- Windows 95
- 133MHz Pentium-class processor
- 16Mb RAM
- Graphics card with 1Mb of memory
- 1.2Gb hard disk
- 12-speed CD-ROM drive
- 15in colour monitor
- PCI local bus

PCW Recommended spec

If you are not short of cash, this is the specification we recommend. No-one at PCW would settle for less.

- Windows 95 or Windows NT 4.0
- Pentium or equivalent 166MHz processor
- 256Kb secondary cache
- 32Mb EDO RAM
- Graphics card with 2Mb of memory
- 2Gb hard disk (modern computer software takes up a lot of space)
- 12-speed CD-ROM drive
- 17in colour monitor
- 16-bit SoundBlaster-compatible sound card

PCW Best specification

This is as good a PC as you are likely to need for most software. For some specialist applications, like professional DTP or CAD, you may need even more memory, a bigger hard disk, a more powerful graphics card or a larger monitor.

- Windows 95 or Windows NT 4.0
- Pentium 233MHz MMX or Pentium II
- 512Kb secondary cache
- 32Mb EDO memory
- 4Gb hard disk
- 16- or 20-speed CD-ROM drive
- 17in colour monitor
- 4Mb VRAM or WRAM graphics card (this means your graphics card can display more colours, and at a higher resolution on your monitor: 16 million colours at a resolution of up to 1,280 x 1,024)
- 16-bit wavetable sound card

Buying a Notebook

Notebooks belong in the one area in which it is often safer to stick to brand names. It is not so much that some of the Far Eastern kit doesn't work perfectly well, but reliability seems to be a problem and it can be fiendishly difficult to obtain spares. A useful guideline when choosing a notebook is to try before you buy.

Remember that standard notebook specifications are generally a step or two behind their desktop equivalents.

What to look for in a notebook

- **Pointing device** There has been a move away from trackballs to trackpads. Some notebooks, notably IBM Thinkpads, use stick technology (a device which looks like the rubber on top of a pencil and is controlled by the use of one finger).
- **CD-ROM drives** These are rapidly becoming standard in notebooks. If your notebook is going to be your only machine, it's worth getting one.
- **Floppy disk drive** Often, there is a choice between a CD-ROM drive and a floppy disk drive. If the notebook is to be your only machine, make sure that the CD-ROM drive and the floppy drive can be used simultaneously.
- **PC Cards** Modern notebooks all have at least one PC Card slot. They take credit card-sized expansion cards which add a fax-modem, a network interface card or even an extra hard disk to your computer.
- **Battery life** Battery life varies, from as little as 30 minutes to over six hours. Lithium Ion and Nickel Metal Hydride batteries have now replaced the older NiCad (Nickel Cadmium) batteries.

- **TFT screens** TFT screens are of a higher quality than dual-scan or passive-matrix screens, using a sharper picture and no shadowing or ghosting.
- **Warranty** Drop a notebook and it may break, so it is vital to check the terms of your warranty. How long is it? What level of service is provided? Remember — better safe than sorry.

PCW Minimum specification

Notebooks change quickly. It is possible to pick up end-of-line machines with Pentium processors from brand-name manufacturers like Toshiba and Compaq at discounted prices of £1,000 or less. These can be a very good buy. Just make sure they can run the software you need to use.

PCW Recommended spec

- Windows 95
- Pentium 133
- Quad- or six-speed CD-ROM drive
- 16Mb RAM
- On-board graphics with 1Mb of memory, PCI local bus
- 850Mb hard disk, 3.5in floppy disk drive and/or dual-speed CD-ROM drive
- TFT 800 x 600 screen

PCW Best specification

The state-of-the-art notebook: either you're loaded, or your company's picking up the tab.

- Windows 95 or Windows NT
- Pentium 166MMX
- 256Kb secondary cache
- 32Mb RAM
- On-board graphics with 2Mb of VRAM memory, PCI local bus
- 1.2Gb hard disk
- 3.5in floppy disk drive
- Eight-speed CD-ROM drive
- Active matrix 1,024 x 768 TFT screen
- Long battery life



Glossary

of computing terms

A

Access time

The time it takes for a device to access data. The access time, quoted in milliseconds (ms) for hard disks and nanoseconds (ns) for memory, is usually an average as it can vary greatly. Together with the transfer rate, it is used to gauge the performance of hard disks and other devices. The lower the number, the better the performance.

Applications

An application, or package, is one or more programs used for a particular task. For example, word processing, invoicing or spreadsheeting. Applications are bought shrink-wrapped (wrapped in cellophane for general use) or custom-built for specific uses.

ASCII (American Standard Code for Information Interchange)

Usually a synonym for plain text without any formatting (like italics, bold or hidden text). Since computers naturally use binary rather than Roman characters, text has to be converted into binary in order for the processor to understand it. ASCII assigns binary values to Roman characters. RTF, a Microsoft standard, adds extra formatting features to plain ASCII.

B

Backwards compatible

Compatibility of hardware or software to older versions of the product or standard.

Baud rate

The number of electronic signals that can be sent along a communications channel every second. In common usage, it is often confused with bits per second. These days modem speeds are normally measured in bits per second. (See V and Bit).

BIOS

Basic Input/Output System. Software routines that let your computer address other devices like the keyboard, monitor and disk drives.

Bit

Binary digit, the basic binary unit for storing data. It can either be 0 or 1. A Kilobit (Kbit) is 2^{10} (1,024 bits); and a Megabit is 2^{20} , which is just over a million bits. These units are often used for data transmission. For data storage, megabytes are more generally used. A megabyte (Mb) is 1,024 kilobytes (Kb) and a Kb is 1,024 bytes. A gigabyte (Gb) is 1,024Mb. A byte (binary digit eight) is composed of eight bits.

Bug (See Crash)

Boot

Short for bootstrap. Refers to the process when a computer loads its operating system

into memory. Reboot means to restart your computer after a crash, either with a warm reboot (where you press Ctrl+Alt+Del) or a cold reboot, where you switch the computer off and back on again.

Bus

A "data highway", which transports data from the processor to whatever component it wants to talk to. There are many different kinds of bus, including ISA, EISA, MCA, and local bus (PCI and VL-bus).

C

Cache (See Memory)

COAST

Cache On A Stick.

CD-ROM

A CD-ROM is the same as a normal audio CD, except it can store data as well as sounds. A CD-ROM player can be attached to your computer to read information from the CD-ROM into the computer's memory in the same way that a domestic CD player reads information from the CD into your hi-fi. The advantage of distributing information on CD-ROM rather than other media is that each one can hold up to 680Mb of data: equivalent to about 485 high-density 3.5in floppy disks. The disadvantage, however, is that you can only write once on CD-ROMs, yet this makes them ideal for archiving.

CISC (See RISC)

CPU

Central Processing Unit. Normally refers to the main processor or chip inside a PC. (See Processor.)

Crash

Common term for when your computer freezes. Can be caused by a power surge, a bug (which is a fault in software) or a GPF.

D

DRAM (See Memory)

DOS (Disk Operating System)

Once the standard operating system for PCs, it is now being replaced by Windows 95 and Windows NT.

DPI (Dots Per Inch)

Common measure of the resolution on a printer, a scanner or a display.

Drive controller card

An expansion card that interprets commands between the processor and the disk drives.

Drivers

Pieces of software that "drive" a peripheral. They interpret between the computer and a device such as a CD-ROM. If you have a SCSI CD-ROM drive connected, you will be able to use it on a PC or a Mac just by loading up the relevant driver on each machine.

E

EIDE (See IDE)

EISA (Extended Industry Standard Architecture)

A bus standard designed to compete with MCA. Now being replaced by PCI.

Electronic mail (E-mail, email)

Still the biggest single use of the internet.

When you sign up with an ISP you are given an email address. Usually you can incorporate your name, or part of it, into your email address to make it easy to remember.

Expansion card

Circuit boards which fit inside PCs to provide extra functionality. For example, one might be an internal modem, providing the same functions as an external version (which is more common) but sitting inside the PC. Expansion cards are designed to be fitted and removed by people with little knowledge of PCs.

F

Floppy disk drive

Practically all PCs come with a floppy disk drive: 3.5in HD (high density) 1.44Mb floppy disks are now the standard. They come in hard plastic cases and have replaced the older, literally floppy, 5.25in disks.

Fonts

A font is an alphabet designed in a particular style. Fonts apply both to screen and printed letters. TrueType and Type 1 fonts are stored as shape descriptions, scalable to any size.

Format

To wipe a floppy or hard disk in order to prepare it to accept data.

G

GPF

General protection fault.

Graphics card

An expansion card which interprets commands from the processor to the monitor. If you want a better, higher-resolution picture or more than your existing setup, you'll need to change your graphics card and/or your monitor.

GUI (Graphical User Interface)

(See Windows)

H

Hard disk

Sometimes called a fixed disk, hard disks are hermetically sealed rigid disks able to store data and programs. Disk capacities increase all the time. The standard is now 1Gb but disks of up to 9Gb are available.

Hardware

All electronic components of a computer system, including peripherals, circuit boards and input/output devices.

HTML (Hypertext mark-up language)

The standard language used in the creation of web pages, which can be read by web browsers.

I

IBM-compatible

Originally meant any PC compatible with DOS.

Now tends to mean any PC with an Intel or compatible processor capable of running DOS or Windows.

IDE (Integrated Drive Electronics)

A control system designed to allow computer and device to communicate. Once the standard for PC hard disks, now being replaced by EIDE (enhanced IDE) which offers improved performance and extra features.

Internet

Millions of computers interconnected in a global network.

ISP (Internet Service Provider)

ISPs provide access to the internet. You use your modem to dial the ISP's modem. The ISP has a high-bandwidth permanent connection to the internet.

IRDA (Infra-Red Data Association)

The standard for exchanging data using infra-red, typically from PDAs or notebooks to a PC or printer.

ISA (Industry Standard Architecture)

This was the original bus architecture on 286 PCs. Also known as the AT bus (the 286 was known as the AT), it remains in use today. Slow by modern standards, but so widely accepted that expansion cards are still made for it. (See EISA, PCI.)

ISDN (Integrated Services Digital Network)

Offers significant advantages over analogue telephone lines. It can handle multiple transfers on a single connection and is faster. In the UK, however, costs of installation and rental remain high.

J

JPEG (See MPEG)

K

Kbit (kilobit), Kb (kilobyte)
(See Bit)

L

LAN (Local Area Network)

(See Network)

Local Bus

PCI (Peripheral Component Interconnect), developed by Intel, is now the standard for local bus architecture. It is faster than the older VL-Bus (Video Electronic Standards Association local bus) it replaces.

M

Macintosh (Mac)

A personal computer made by Apple and which is incompatible with PCs. Developed as a rival standard, its operating system looks like Windows but pre-dates it and (in some people's view) looks and works much better.

Maths co-processor

A specialised chip that handles mathematical calculations (floating point operations) for the processor. Modern processors such as the Pentium have a co-processor built into them.

Mbit (megabit) (See Bit)

Mb (megabyte) (See Bit)

MCA

A type of bus designed by IBM to beat EISA. Although faster, it never became popular: this was because every machine that used it had

to pay a royalty to IBM, and because it was not backwards-compatible with ISA.

MPEG (Moving Picture Expert Group)

A standard for compressing video, available in several flavours: MPEG 1, MPEG 2, MPEG 4. JPEG (Joint Photographic Expert Group) is a standard for still image compression.

Memory

The term normally refers to RAM (Random Access Memory). This is the kind which disappears when you turn off your computer and is much faster to access than a hard disk. It acts as a staging post between your computer's hard disk and its main processor.

● **Cache memory** Temporary memory set aside to store the information that is accessed most frequently. The Pentium processor has 8Kb of in-built cache. This can be further speeded up by a secondary cache, typically 256Kb. Part of your DRAM is often used to cache your hard disk.

● **DRAM (Dynamic Random Access Memory)** This requires its contents to be replaced every one thousandth of a second and is the most common form of memory found in PCs.

● **EDO (Extended Data Out RAM)** Memory that is cached to improve performance.

● **FPM RAM (Fast page mode)** Like EDO Ram but without the onboard cache

● **ROM (Read-Only Memory)** A type of memory which can only be read: you can't make changes to it as you can to RAM. It is commonly used for things that will never need to be changed, like the information the computer requires when you start it up.

● **SDRAM (Synchronous DRAM)** The latest type of fast memory. This runs at the same speed as the processor and allows the input and output of data at the same time.

● **SRAM (StaticRAM)** Retains memory until the power is switched off.

● **VRAM (VideoRAM)** Faster than DRAM, this is used by graphics cards.

MMX (Multimedia extensions)

(See Pentium)

Modem

The word is a contracted version of "modulator/demodulator", which means that a modem is a box (or, less commonly, an expansion card) that lets your computer talk over phone lines to other computers.

Monitor

Your computer's screen. Signals are sent to it from the video card.

Motherboard

The main printed circuit board which houses processor, memory and other components.

N

Network

A network is a group of computers linked together with cable. The most common form of network is a LAN (Local Area Network), where electronic mail and other files can be exchanged between users without swapping floppy disks. Printers and other resources can be shared. All the PCs on a LAN are connected to one server, which is a powerful PC with a large hard disk that can be shared by everyone.

O

OS (Operating System)

The operating system communicates with the hardware and provides services and utilities to applications while they run, such as saving and retrieving files.

P

PC Card

Formerly PCMCIA. A standard to allow PCs, particularly notebooks, to be expanded using credit card-sized cards.

PDA (Personal Digital Assistant)

Small electronic organisers. The Psion 3a is a typical example.

PCI (See Local bus)

PCMCIA (See PC Card)

Package (See Applications)

Parallel ports

Used by your PC to communicate with the outside world, usually via a printer. Information can travel in parallel along a series of lines, making it faster than serial ports which can only handle one piece of information at a time.

Pentium

Fast 32-bit processor with a built-in 16Kb cache. Now the standard on PCs. It is about to be replaced by the Pentium MMX chip which has extra instructions and a 32Kb cache. The Pentium Pro is a higher-end workstation CPU with 256Kb cache meant for full 32-bit operating systems like Windows NT.

Pixel

Picture element. The smallest addressable dot displayed on a monitor.

PowerPC

This family of RISC chips is the result of a collaboration between IBM, Apple and Motorola. It is now used in all Apple Macintosh computers and many IBM workstations.

Processor

Chip which does most of a computer's work.

Programs (See Applications)

Public domain

Software that is absolutely free. The author usually retains the copyright but you can make as many copies as you want and pass them to other people. "Public domain" software is often confused with "shareware".

Q

QWERTY

The name of a standard English-language keyboard, derived from the first six letters in the top row. French equivalent is AZERTY.

R

RAM (Random Access Memory)

(See Memory)

Reboot

(See Boot)

RISC (Reduced Instruction Set Computing)

These are beginning to replace CISC (Complex Instruction Set Computing) as they're usually faster. The PowerPC chip is a typical example.

ROM (Read Only Memory)

(See Memory)

RTF (Rich Text Format)

(See ASCII)

S
SCSI

Small Computer System Interface is a bus that comes as standard in a Macintosh and is beginning to rival EIDE on PCs.

Serial port

Serial ports (com1 and com2) are used by your PC to communicate with the outside world. Mostly used by modems and similar devices which communicate quite slowly. Faster communications are achieved through the parallel port.

Shareware

A method of distributing software. It is freely available, but not free of charge. You are honour-bound to pay a small fee to the software's developer if you continue to use the program after a set period.

SIMM (Single Inline Memory Module)

The standard modules for memory expansion on PCs. Older 30-pin SIMMs have now been replaced by the 72-pin variety available in capacities up to 16Mb.

T**Tape streamer**

Magnetic tape recorder for backing up data from a hard disk.

U/V**UART (Universal Asynchronous Receiver Transmitter)**

Pronounced "you-art", this is a chip that allows

your PC to cope with high-speed communications.

V.34 Plus, V.34, V.32bis

A series of CCITT standards which define modem operations and error correction. There are more than 20, but the key ones are:

- **V.32bis**, the standard for 14.4Kbps (kilobits per second) modems.
- **V.34**, the standard for 28.8Kbps modems (see Baud).
- **V.34 Plus**, the new standard for speeds up to 33.6Kbps.

VESA (See Local Bus)**VGA**

Video Graphics Array is the name given to a popular display. VGA graphics have 640 pixels horizontally and 480 vertically, and can display 16 colours. SuperVGA (SVGA) graphics can display 800 x 600 or 1,024 x 768 in as many colours as the memory in your graphics card will allow: up to 16.4 million, or true colour.

VL-Bus (See Local Bus)**VRAM (See Memory)****W****Windows**

A GUI (Graphical User Interface) developed by Microsoft. Windows is intended to make programs easier to use by giving them a standard, mouse-driven interface.

- **Windows 3.11** 16-bit operating system.

- **Windows NT** Robust, fully 32-bit operating system from Microsoft. The latest, version 4.0, features a Windows 95 interface.

- **Windows 95** Major improvement to Windows 3.11, with a redesigned interface. Less prone to crashes and easier to use, but requires more memory.

Winsock

Short for "sockets for Windows". The Winsock.dll is an extension for Windows which is necessary for connecting to TCP/IP networks.

World Wide Web

Service on the internet using special software called web browsers (Netscape and Internet Explorer are two best-known browsers) to give access to pages of information with text, pictures and multimedia.

WYSIWYG

"What You See Is What You Get": what you see on the screen is exactly what you will get when you print out your work.

Z**ZIF (Zero Insertion Force)**

Sockets used for large CPUs. Lifting a handle enables you to remove the processor.

ZIP

The common standard for compressing files so that they take up less space. Zipped files have the extension .zip and are compressed and decompressed using shareware utilities such as Winzip and PKZip.

Buying a Printer

There are two main types of printer: laser and inkjet.

Lasers

Most office printers are lasers. They work much like photocopiers. They are cheap to run and print quickly. The disadvantage is the higher initial cost and mono output. Laser printers are available in all sizes and all prices. Small desktop printers cost as little as £300. You can buy colour laser printers but they are still expensive; typically £5,000 or more.

Types of laser

PCs print by sending a description of the page to be printed down a printer cable. There are three commonly-used page description languages (PDLs):

• **PostScript**

This sends an outline in vector form (see Drawing Software) to the printer where it is rasterised (converted into dots) and printed to the device's best ability. PostScript is device-independent so the image looks the same on a monitor (75dpi), a laser printer (300dpi) and a professional image-setter (2,400dpi).

• **PCL (Printer Control Language)**

Hewlett-Packard's alternative to PostScript,

licensed to many clone-printer manufacturers. Printers using PCL tend to be cheaper than PostScript ones, but output will vary from one machine to another, making it less well suited to professional use.

• **GDI (Graphical Device Interface)**

These printers download the description of your page, already used by Windows, straight to your printer. They only work with Windows but are cheap and fast. They are only suitable for a personal printer and will not work across a network.

Inkjets

Inkjets work by spraying ink onto paper. There are still some mono inkjet printers available, but it is best to stick with a colour inkjet as the price difference is negligible. They are cheap to buy but more expensive to run, and slower. Even cheap inkjets can print in good-quality colour, especially on high-resolution paper.

**PCW Recommended products****Inkjet printers**

Canon BJC-80: RRP £233;
Canon 0121 680 8062 (PCW January 98)
ALPS MD-1000: RRP £299;
ALPS 0800 973405 (PCW January 98)

Laser printers

• **Cheap:** Brother HL 730: £270;
Brother 0161 330 6531
Sharp JX9210: £209; Sharp 01753 819819
(PCW January 97)
• **Sub-£750:** Hewlett-Packard 5P:
HP 01344 369222 (PCW November 95)
• **Network lasers**
Hewlett-Packard 5M: RRP £1,659 ex VAT;
HP 01344 369222

Buying a **Multi Function Device**

For home use and in small offices, a hybrid device could be the answer.

Typically, MFDs combine a printer, a fax machine and photocopying and scanning capability into one device. And while this saves space, it does have some drawbacks. For one thing, they tend to be based on inkjet technology which means higher running costs and lower speeds than laser-based units. Many only offer black-and-white printing; while colour models are appearing in greater volume, they tend to be based on earlier inkjet printing technologies rather than the current state-of-the-art models. Also, the scanning quality is no match for a dedicated scanner:

it's normally only 200dpi, which is the same quality as a fax machine and, worse, often black-and-white only. Finally, there's one fundamental problem — if your MFD breaks down, you won't be able to print or receive faxes. That said, they are here to stay, and some people love 'em.

PCW Recommended products

Hewlett-Packard OfficeJet: £650;
HP 0990 474747 (PCW January 97).



Buying a **Digital Camera**

Just about every camera manufacturer now offers a budget-priced device and prices start from as little as £135.

A digital camera works like a conventional camera except that instead of a film, it has a grid of light-

sensitive elements. These convert light into a voltage proportional to the brightness, which is then converted into digital information the PC can understand.

The elements produce a colour bitmap file, typically of 640 x 480 pixels, although models boasting 800 x 600, 1024 x 768 and even higher resolutions are becoming increasingly common.

Most digital cameras use flash memory to store images, and offer a wired connection to a computer — slow serial on budget models or fast SCSI on professional ones.

Some cameras feature removable memory cards, usually compatible with the PC

Card standard. Quality is getting better all the time, but to match the print quality of a 35mm film camera today, you'll still have to spend thousands of pounds. The current crop of entry-level to mid-range cameras are, however, more than suitable for electronic publishing on CD-ROM or the internet.

PCW Recommended products

Sony DSC-F1: £546; Sony 0990 424424
(PCW January 98)

Sanyo Digicam: £449.99; Sanyo 01923 477295
(PCW January 98)

Epson Photo PC: £781.38; Epson 0800 289622
(PCW Jan 98)



Choosing an **ISP**

With over 100 ISPs to choose from, choosing an Internet Service Provider has never been so difficult.

All ISPs (Information Service Providers) allow you to send and receive email across the Internet, browse and surf the world wide web and download files from Internet servers. But there are big differences between the quality of service that each provides in terms of technical support and the quality of software supplied when you first sign up. Usually they

charge a flat monthly rate for Internet access of around £10, but on top of that you also have to pay for your phone charges

■ Choosing a Content Provider

There are really only three players in this field: AOL, CompuServe and MSN. They are not the best or fastest way of browsing the world wide web. Instead they aim to supply their own content in the form of discussion areas, online magazines and easily searchable file libraries. All these services offer free trials which is a good way of finding out if they're for

PCW Recommended products

Our PCW Award winners in July 97:
Pipex Dial: Major player with an excellent reputation.

BT Internet: BT has now got its act together with internet service provision.

Direct Connection: One of the best of the smaller ISPs.

Content providers

AOL: 0171 385 9404; Consumer-orientated service that offers good performance even for users of older 14.4K modems.

CompuServe: 0800 289378; more business content than AOL.

Buying a **Monitor**

Regardless of your computer application, you'll be looking at your monitor all day, so make sure you get a good one.



Some people claim not to see monitor flicker, but your brain does, resulting in fatigue and headaches. A refresh rate of 70Hz or higher will produce a flicker-free image on most monitors.

Interlacing also results in flicker. Always run in non-Interlaced modes and ignore interlaced quotes. The resolution refers to the number of dots (pixels) horizontally and vertically on-screen. Standard VGA mode runs at 640 x 480 pixels, while other typical modes include 800 x 600 and 1,024 x 768. The more pixels, the more you'll be able to fit on the screen, but

everything will be smaller and may only be suitable on a larger screen. Go for a 15in or 17in monitor capable of running a resolution of 1,024 x 768 non-interlaced at 70Hz or higher.

The visible area of most monitors (and TVs for that matter) is smaller than the model implies: a 15in screen may only have a 14.5in visible area, and a 17in may have only 16in visible. Aperture grille tubes such as Sony's Trinitron or Mitsubishi's Diamondtron are very bright, but need two fine but visible wires running across the screen for stability.

PCW Recommended products

Panasonic Panasync 5G (£385 ex VAT); Taxan EV750 (£493 ex VAT); ADI 5G (£429 ex VAT); Iiyama Vision Master Pro 17 (£510 ex VAT). See PCW May 97 for reviews.

Contacts Panasonic 0500 404041; Taxan 01344 484646; ADI 0181 236 0801; Iiyama 01438 745482



Buying a **Scanner**

Scanners are used to import text, graphics or pictures into a PC. They vary from low-cost hand scanners not much bigger than a mouse, to drum scanners costing thousands of pounds. The latter are designed to scan photographic transparencies to professional standards.

■ Flatbed scanners

These are the most common type of scanner, and cost from around £300 to more than £3,000.

They are capable of scanning colour pictures to a high standard. Most have transparency adaptors as optional extras.

■ Document scanners

A new category of scanner which aims to combine the reliability of a flatbed scanner with speed and portability. They are intended for OCR and document management. Most will cope with photographs and some with colour, but it's not really their forte.

PCW Recommended products

Document scanners

Visioneer PaperPort VX: street price £299; Computers Unlimited 0181 200 8282
Logitech PageScan Colour: street price £155; Logitech 01344 894300

Flatbed scanners

• **Intermediate**
Agfa Studio Star: street price £499 (ex VAT); Agfa 0181 231 4906 (PCW August 97)

• **Budget**
Umax Astra 600-S: street price £169 (ex VAT); IMC 01344 872800 (PCW August 97)
Agfa Snapscan: street price £169 (ex VAT); Agfa 0181 231 4000 (PCW August 97)

Buying a **Storage Device**

For backup and storage there's a range of devices available — conventional tape backup devices, superfloppies like the LS120 and proprietary systems like the Iomega Zip drive.



Additional storage devices, taking removable media, offer endless capacity. Iomega's ZIP drive and OR Technologies' a: drive (aka LS120) offer 100Mb and 120Mb respectively. The a: drive is an alternative to a floppy as it is compatible with normal floppies. The ZIP drive only works with ZIP cartridges.

Iomega's Jaz drive and SyQuest's SyJet, take 1Gb and 1.5Gb respectively. The SyJet is quicker and boasts cheaper media, but it's new as against Iomega's proven device.

Larger storage means slow, cheap tape

drives with 1Gb capacity, perfect for overnight backup. Most quote compressed capacity, double "native" uncompressed capacity. DAT DDS-2 drives offer 4Gb native, which Seagate matches with faster Travan TR4 cartridges on its TapeStor 8000. Iomega's cheaper, slower Ditto 2000 offers 2Gb compressed backup.

CD recorders, offering double-speed writing and quad-speed reading, are around £400 ex VAT. The fastest are 24-speed, but there's little benefit in anything over 12.

PCW Recommended products

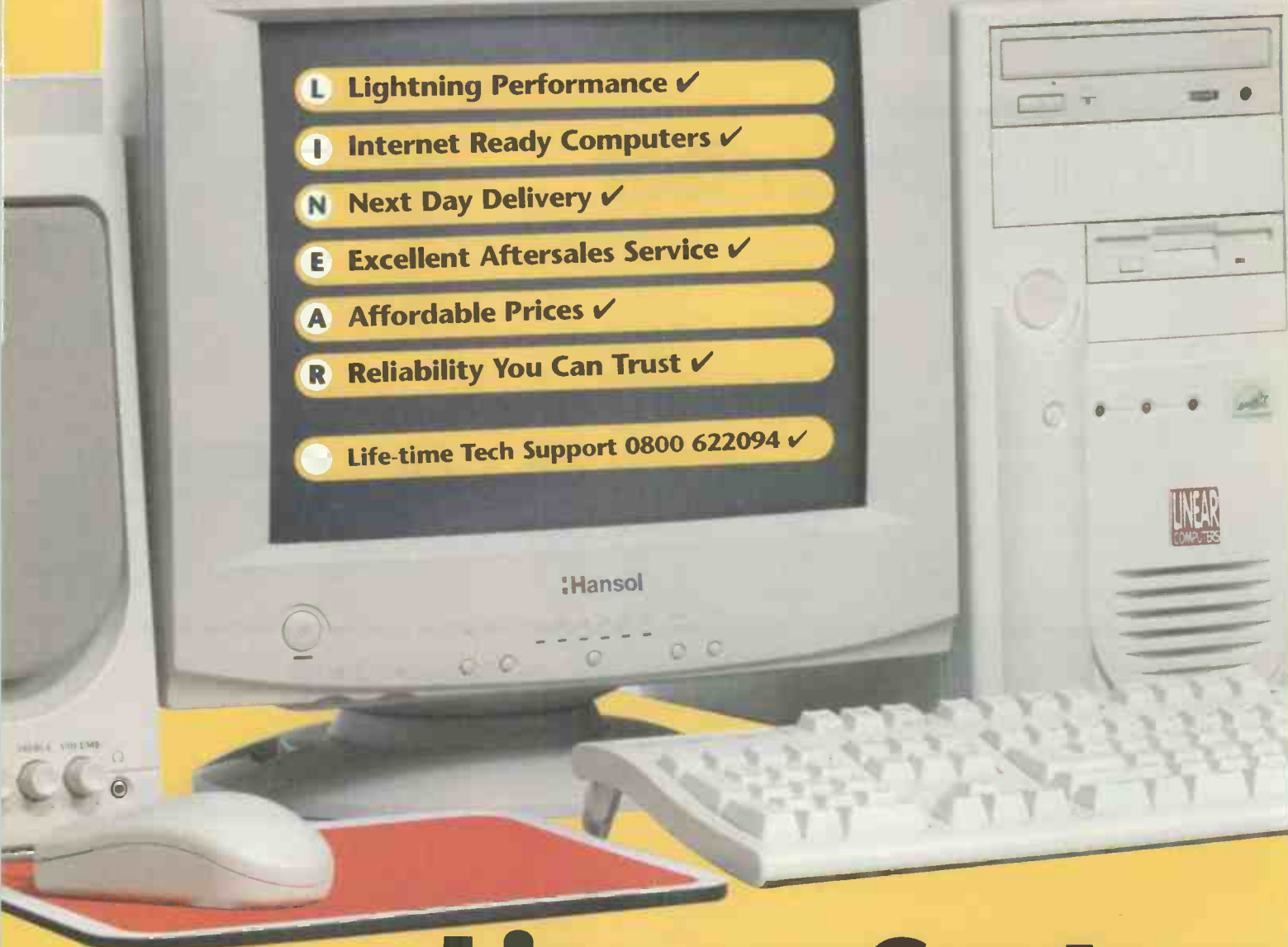
Iomega ZIP drive: internal £89 ex VAT; 100Mb media £10 ex VAT; Iomega 0800 973194 (PCW August 97)

Iomega JAZ drive: Internal £189 ex VAT; 1Gb media £60 ex VAT; Iomega 0800 973194 (PCW August 1997)

Iomega Ditto 2000: external £89 ex VAT; Iomega 0800 973194 (PCW July 97)

Seagate TapeStor 8000: internal £220 ex VAT; Seagate Technology 01628 890366 (PCW July 97)

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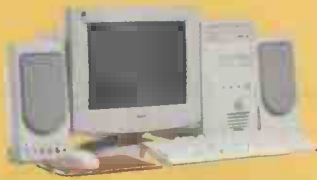
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AMD	K6 £495	K6 £579	K6 £629		
CYRIX	M2 £489	M2 £509			

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INTEL PII			PII £979	PII £1079	PII £1229
AMD	K6 £665	K6 £729	K6 £795		
CYRIX	M2 £649	M2 £669			

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PENTIUM	166	200	233	266	300
INTEL	MMX £1399	MMX £1489	MMX £1539		
INTEL PII			PII £1695	PII £1795	PII £1945
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- ✓ 4Mb Matrox Millennium 220 Video Card (Superb Graphics)
- ✓ Win 95 Keyboard ✓ Serial Mouse
- ✓ US Robotics 56.6 Win Modem
- ✓ Choice of Case ✓ Windows 95
- ✓ Lotus SmartSuite on CD with Manual
- ✓ Microsoft Family Bundle

PENTIUM	166	200	233	266	300
INTEL	MMX £1235	MMX £1310	MMX £1365		
INTEL PII			PII £1525	PII £1629	PII £1775
AMD	K6 £1229	K6 £1299	K6 £1375		
CYRIX	M2 £1219	M2 £1235			
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- ✓ 15".28Ni SVGA FST Monitor
- ✓ 4Mb Hercules Terminator 3D DX 64 Bit Accelerator Card (Superb Graphics)
- ✓ AWE64 Value Creative Soundblaster
- ✓ 120 Watt Speakers ✓ Serial Mouse
- ✓ 33.6K Int/Voice/Fax Modem
- ✓ Choice of Case
- ✓ Windows 95 on CD with Manual
- ✓ Lotus SmartSuite on CD with Manual
- ✓ Microsoft Family Bundle

PENTIUM	166	200	233	266	300
INTEL	MMX £949	MMX £1029	MMX £1069		
INTEL PII			PII £1229	PII £1329	PII £1475
AMD	K6 £939	K6 £999	K6 £1059		
CYRIX	M2 £899	M2 £929			
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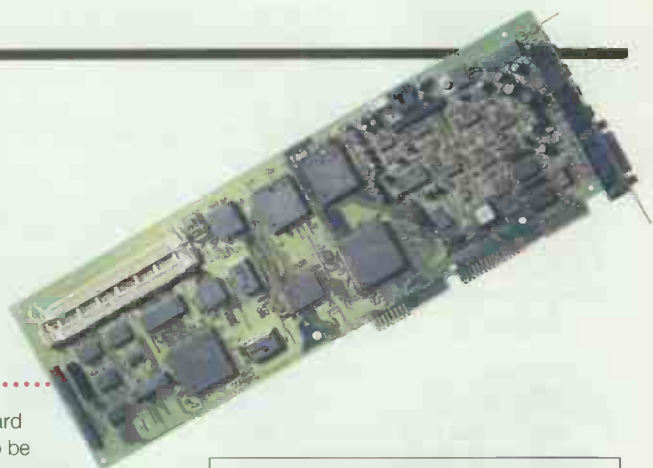
Buying a Sound Card

You need one of these to add sound capability to your PC.

Check compatibility with your CD-ROM drive, and remember that 16-bit cards capable of 44KHz provide higher-quality sound than slower 8-bit cards. Better sound cards now include wavetable synthesis which means they have samples of real instruments held in ROM.

The quality of wavetable synthesis still varies widely. Even cheap cards which have the inferior Frequency Modulation synthesis

should have a daughterboard connector allowing them to be upgraded to wavetable. The newer cards are also plug and play which means, in theory, that you should be able to plug them straight into a PC without any extra configuration. Most cards are bundled with extra software, normally sequencers, wave editors and audio players.



PCW Recommended products

AWE 64 Gold: £199; Creative Labs 01734 344322 (PCW June 97)

Maestro 32/96: £139; Terra Tec 01635 294394 (PCW June 1997)

Buying a Graphics Card

The graphics card sits inside the PC and controls the features which the software displays on the monitor.



Check the amount of memory on the card. 2Mb is standard these days. Better-quality cards are likely to be fitted with VRAM (Video RAM). Also, check out the performance capability of the card. Video cards come as 16-bit, 32-bit, 64-bit and even 128-bit: a large

number of bits means faster performance.

The most important aspect of your video card, and the most frequently quoted feature, relates to the resolution that the card supports in Windows. This is measured by the number of pixels the card displays on-screen. The absolute minimum these days is 1,024 x 768 with a refresh rate of 70Hz.

A 2Mb card can display 16-bit colour (65,000 colours) at 1,024 x 768 pixels. A 1Mb card can manage only 8-bit colour (256 colours) at 1,024 x 768 pixels. To display 24-bit colour (16 million colours) at 1,024 x 768 you'll need 4Mb of memory. The refresh rate (measured in Hz) is important, too. It represents the number of frames displayed on-screen per second. A flickering display is very tiring to use.

Find out if your video card is "local bus". Local bus (PCI or VL) is an interface which connects your video card to the motherboard. It allows the memory in the card to be addressed directly by the CPU, which makes it a lot faster than the standard ISA interface.

PCW Recommended products

ATI Xpert@ play: £163 (4Mb); ATI 01628 533115

Hercules Stingray 128/3D: £210 (6Mb); Hercules 01635 294300

Orchid Righteous 3D: £132; Orchid 01256 479898

(All from this issue, PCW January 1998)

Buying a Fax Modem

You'll need a modem to connect to the internet or an online service, such as CompuServe or AOL, and also to send and receive email.

Modems are available in three formats: either as PC Cards to plug into notebooks, or as external boxes, or as expansion cards. PC Card modems are the most expensive, while external modems cost slightly more than expansion cards.

Apart from the casing and the external power supply, there is often very little difference between the internal and external

versions of a modem. Most now have a built-in fax capability, which means you can receive faxes on your personal computer to view or print out.

Go for a V.34 28.8Kb/sec modem or one of the new V.34+ 33.6Kb/sec modems. Or, look out for the new 56K versions: these use one of two rival technologies but as yet are unsupported by Information Service Providers.



PCW Recommended products

Fax modems

• Internal

Pace 56 Voice: £169; PMC 0990 561001 (PCW November 97)

Buying Software

Only a few years ago there were dozens of different software applications in each category. During the past two years or so, however, there has been rapid product consolidation. Other magazines list large numbers of packages, most of which are out of date and not worth considering. We've distilled each category down to just one or two recommended products.

A
■ ACCOUNTS SOFTWARE One of the few categories in which there are still masses of packages on the market at a huge range of different prices. Accounts is also one of the last bastions of DOS.
Recommended products: MYOB, Intuit QuickBooks.

B
■ BROWSERS are programs which are used to navigate the internet. A modern browser lets you navigate web pages, download files and send and receive email.
Recommended products: There are only two worth talking about: Netscape Navigator and Microsoft Internet Explorer.

C
■ CAD SOFTWARE Computer Aided Design covers everything from architectural drawings, through office planning, to complex engineering drawings.
Recommended products: AutoCAD is the industry standard but we think MicroStation 95 is a more capable product at the high end of the market. At the cheap end, DesignCAD 3D offers astonishing value for money.

■ CONTACT MANAGERS (See PIMs)

D
■ DATABASE At its simplest, an electronic card index. For just a few hundred names and addresses an electronic-type Filofax, such as Lotus Organizer, may be more appropriate. But for more sophisticated applications like tracking products and customers, the power of a relational database is required. Databases are generally the least user-friendly of the main suite applications. In most offices you are likely to use a database

application that somebody else has written for you.

Recommended products: Lotus Approach, Microsoft Access.

■ DESKTOP PUBLISHING SOFTWARE (DTP) This is software used to create newsletters, magazines, books, brochures or advertisements.

Typically, it enables you to incorporate graphics, lay out text in multiple columns and run text around graphics. You also have control over how text appears, in varying degrees of sophistication.

Recommended products: The high-end market leader is Quark XPress on the Mac. On the PC, PageMaker is strong. For serious work on a budget we recommend Serif Publishing Suite, and for sheer ease of use, Microsoft Publisher.

■ DRAWING SOFTWARE Programs for drawing, which work using vectors. This means each shape drawn is described using mathematical equations.

Recommended products: At the budget end of the market, MicroGraphx Windows Draw 5 stands out. At the professional end, Corel Draw 7 gets our vote.

■ IMAGE EDITING SOFTWARE A program for editing bitmap files (files made up of pixels). Typically used for converting graphics files, retouching photographs and preparing pictures for printing.

Recommended products: For simple image editing the popular shareware program, PaintShop Pro, is fine. For professionals, Adobe's Photoshop is the industry standard.

■ INTEGRATED PACKAGES Typically, these combine the functionality of a database, word processor and spreadsheet in one application. This makes it easy to move data from one component to another but

integrated packages tend to lack some of the advanced features of individual applications.

Recommended product: Microsoft Works.

J
■ JAVA. A language based on C++, but easier to learn and use. Java runs on a "virtual machine" interpreter, so programs can run on many different platforms.

Recommended products: Borland JBuilder

M
■ MULTIMEDIA AUTHORING TOOLS Programs designed for producing interactive multimedia applications; typically for training applications or for CD-ROMs. The software lets you control and manipulate different types of media such as sound files, audio files, video clips and graphic files.
Recommended product: Macromedia Director, the product used to produce PCW's cover-mounted CD-ROM, gets our vote.

O
■ OCR SOFTWARE Optical Character Recognition software converts printed text into computer text you can edit. You will need a scanner or fax card to get the printed text onto your PC. OCR saves re-keying documents and can cut down drastically on paper filing systems.

Recommended products: OmniPage is the best product we have found, but TextBridge offers most of the same capabilities for less cash.

P
■ PERSONAL INFORMATION MANAGERS (PIMs) PIMs are an electronic way of storing names, addresses, phone numbers and appointments. Contact managers take the idea one step further to include business information about dealings with clients.

Recommended products: SideKick 95 and Organizer are excellent PIMs. For contact managers we would recommend Goldmine for Windows.

■ PRESENTATION GRAPHICS Increasingly, the trend is towards doing presentations on a PC and the latest packages tackle this by including sound, sophisticated transitions between slides and support for video clips.

Recommended products: Powerpoint and FreeHand are both capable products sold with Microsoft Office and SmartSuite respectively.

■ PROGRAMMING TOOLS Applications designed for writing software. These range from "low-level" languages which are powerful but difficult to learn and use, to "high-level" languages which, although much easier to use, generally sacrifice performance and flexibility in the process. Commercial programs like Word for Windows are written using low-level languages. Bespoke applications and prototypes are often written using Delphi or Visual Basic.

Recommended products: Delphi 3.0 is a great example of scalability, catering for beginners and serious developers working on major projects. Optima Power++ is the pick of the high-end Windows development tools.

■ PERSONAL FINANCE PACKAGES These help manage home finances. They are also well suited to some small businesses and tend to be easier to use than full-blown accounts packages.

Recommended product: Quicken is the outstanding product in this category and has no serious rivals.

■ PROJECT MANAGEMENT Programs for managing large projects — anything from building a power station to planning a

marketing campaign.

Recommended product:
SuperProject 4.0 for Windows.

R

■ **REMOTE CONTROL S/W** Lets you access and control a PC remotely, usually via a modem.

Recommended product:
ReachOut, for its simple interface and support for different networks, particularly TCP/IP.

S

■ **SPREADSHEET** This is an electronic version of what would be an old-fashioned ledger.

Excellent graphing and charting facilities are included.

Recommended products:
Lotus 1-2-3, Microsoft Excel.

■ **SUITES** Most general business software is now sold in suites.

Two suites are widely available: Lotus SmartSuite and Microsoft Office. Lotus SmartSuite also contains a database. With Microsoft Office, you pay extra for Office Professional which contains Microsoft's Access database.

Recommended product:
Microsoft Office is close to the

industry standard. Its high level of integration gives it the edge over the opposition.

V

■ **VISUAL PROGRAMMING** (see Programming Tools)

W

■ **WEB EDITORS** Programs designed to do for web page design what DTP did for magazines and newsletters. They let you create web pages without writing HTML. You can incorporate graphics, backgrounds, tables, images and sounds.

Recommended products:
HotMetal Pro 3.0 is our first choice, while Adobe Pagemill is a capable alternative.

■ **WORD PROCESSOR** An application in which you can write letters and prepare reports, or produce a simple newsletter. The latest word processors have advanced features such as outliners, table editors and facilities for adding columns of figures.

Recommended products:
Microsoft Word is the clear market leader but WordPro is a capable alternative.

A-Z of Recommended Software Products

■ *If you would like to read any of the reviews of software listed here and do not have the original issues, you can order Personal Computer World on CD-ROM. It costs just £9.95 (including postage and packing). See pages 328/329 for full details.*

	Category	Product	Supplier	Contact	Price (ex VAT)	Date of PCW review
A	Accounts	MYOB	Bestware	01752 201901	£195	April 1997
	Accounts	QuickBooks	Intuit	01932 578501	£125	April 1997
B	Browsers	Netscape Navigator	Netscape	0181 564 5100	£49	Mar 1997
	Browsers	Internet Explorer	Microsoft	0345 002000	Free	Jun 1996
C	CAD	Microstation	Bentley	01344 412233	£3,495	Jan 1997
	CAD	DesignCAD 3D	BVG	01874 611633	£149.95	Jan 1997
D	Database	Approach 97	Lotus	01784 455445	£40	Oct 1997
	Database	Access 97	Microsoft	0345 002000	£235	Oct 1997
	Desktop publishing	XPress 3.3	Quark	01483 454397	£795	May 1997
	Desktop publishing	Publisher	Microsoft	01734 270000	£70	May 1997
	Desktop publishing	Publishing Suite 3.07	Serif	0115 9421502	£99	May 1997
	Drawing	CorelDraw 7	Corel	0800 973189	£495	Sept 1997
I	Drawing	Windows Draw 5	MicroGraphx	0345 089372	£38.30	Sept 1997
	Image editing	Photoshop	Adobe	0181 606 4000	£382	Dec 1996
J	Image editing	PaintShop Pro	Digital Workshop	01295 258335	£49.95	Jun 1995
	Integrated package	Works/Win 95	Microsoft	0345 002000	£93.61	Apr 1997
	Java programming	JBuilder	PowerSoft	01628 597100	£399	N/A
M	Multimedia authoring	Director 5.0	Macromedia	0181 200 8282	£99	Oct 1996
	OCR	PaperPort Plus	Visioneer	0800 973245	£58.72	Dec 1997
O	OCR	Presto! OCR Pro 3.0	Guildsoft	01752 895100	£58.72	Dec 1997
	Personal finance	Quicken	Intuit	0800 585058	£34	May 1996
P	PIM/contact manager	Organizer 2.1	Lotus	01784 455445	£99	Jun 1997
	PIM/contact manager	Goldmine for Windows	Elan Software	0171 454 1790	£395	Jun 1997
	PIM/contact manager	Sidekick 95	Starfish UK	0181 875 4400	£39	Jun 1997
	Presentation graphics	Freelance	Lotus	01784 455445	£415	Nov 1996
	Presentation graphics	Powerpoint	Microsoft	0345 002000	£220	Nov 1996
Programming tools	Power ++ 2.0	PowerSoft	01628 597100	£345	Sept 1997	
	Delphi 3.0	Borland	01734 320022	£89	Apr 1997	
Project management	SuperProject 4.0	Computer Associates	01753 679679	£495	May 1996	
	Remote control/Access	PC Anywhere	Symantec	01628 592320	£139	Nov 1997
S	Spreadsheet	Excel	Microsoft	0345 002000	£220	May 1995
	Spreadsheet	1-2-3	Lotus	01784 455445	£365	May 1997
	Suite	Office (Standard)	Microsoft	0345 002000	£360	Jul 1997
	Suite	Office (Professional)	Microsoft	0345 002000	£460	Jul 1997
W	Web authoring	HotMetal Pro 4.0	SoftQuad	0181 387 4110	£69	Jan 1998
	Web authoring	FrontPage 98	Microsoft	0345 002000	£99	Jan 1997
Word processing	Word	Microsoft	0345 002000	£220	Oct 1996	

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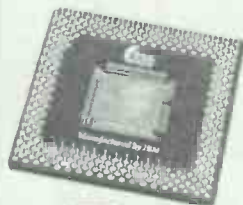
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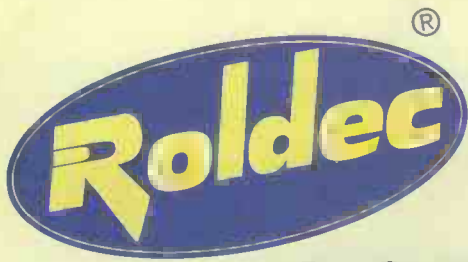
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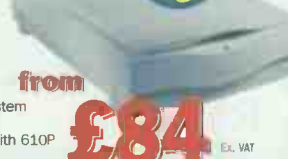
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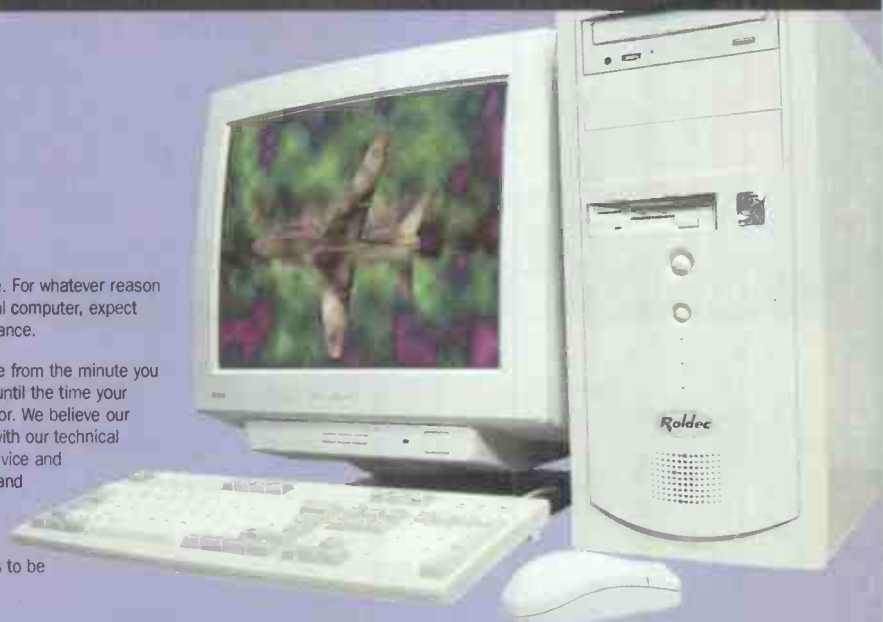
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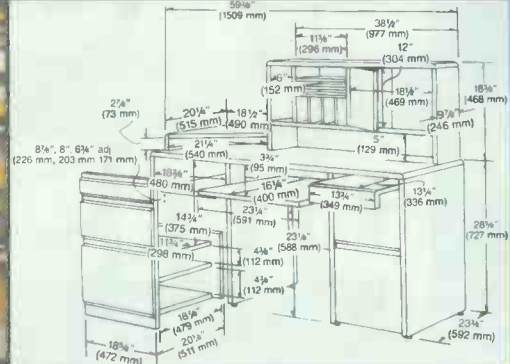
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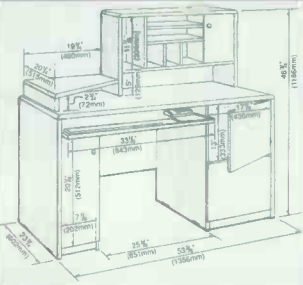
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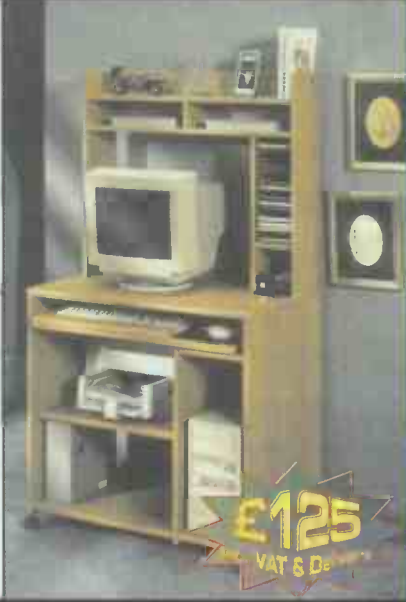
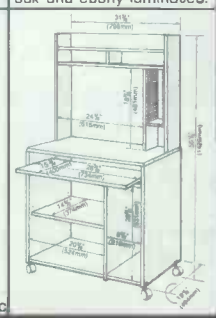


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C5644A HP Colorado 8Gb External	£283.08	£309
C5644B HP Colorado 8Gb Internal	£280.83	£239



Iomega

1-2Gb-INT Iomega Ditto 2Gb Internal	£89.33	£59
1-2Gb-EXT Iomega Ditto 2Gb External	£104.58	£89
1-3200-INT Iomega Ditto 3.2Gb Internal	£128.08	£109
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TST8000-SBET Seagate Falcon Ext. 4-8Gb SCSI	£269.08	£229
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Hewlett Packard DAT Drives



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HP351536E HP External 4Gb	£539.33	£459
HP351536I HP Internal 4Gb	£445.33	£379
HP1599E HP External 8Gb	£662.13	£555
HP1599I HP Internal 8Gb	£621.58	£529
HP1533A HP Internal 4-16Gb	£609.83	£519
HP1544A HP Internal 12-24Gb	£981.33	£835
HP1544A HP Internal 24Gb	£821.33	£699
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SS12000E HP SureStore 120Gb External	£2843.33	£1739
C1529B DAC BEU UNIX Version	£392.08	£389
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SureStore 700DLT	POA	POA

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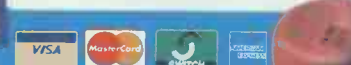
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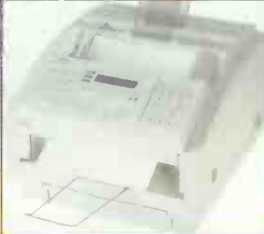


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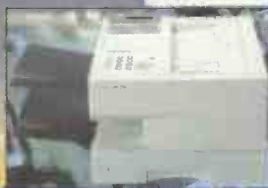
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Oki Laser OL400E / 410E-EX	(4851/4858)	£17
Olivetti PG306 / 308 / 404 / 408	(2's) (82376/82377)	£24
Panasonic KXP4400/4401/5400	(KXP455/PDM5)	£10
Panasonic KXP4420	(KXP451/PDM2)	£25
Panasonic KXP4410/4430/4440	(KXP453/PDM5)	£26
Panasonic KXP4450/4451/4455	(KXP450/PDM1)	£19
Panasonic KXP6100	(KXP457/PEP3)	£11
Panasonic KXP6500/6300	(KXP459/PEP5)	£12
Ricoh PC 6000 / Oki Laserline 6	(6002OC/6000PC)	£12
Ricoh LP1200	(G728-05/1200DK)	£85
Sharp JX9200/9210	(JX92TC/92DR)	£39
Sharp JX9400/9460/9600/9660	(JX94DC/DR)	£109
Sharp JX9500 or JX9700	(JX95TC/95DR)	£32
Star LS-5 / LS-5 EX / LS-5 TT	(LS5TC)	£75
Texas Instruments MicroLaser	(2559879/81)	£32
Texas Instruments MicroLaser XL	(2569502/03)	£49
Texas Ins. MicroLaser Power-Pro/E	(2633482/76)	£139
Xerox 4030		£69

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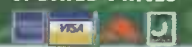
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Advantage Explorer & Ascentia 700N, Bravo NB, Ascentia 800N, 810N, Ascentia 900N, 910N, Ascentia 950N, Ascentia A Series, Ascentia J Series, Ascentia P Series, Power Executive, Power Executive 4/25SL & Colour, Colour Plus.

AT&T **NCR**

Globalyst 200 /S, Safari 3151, Globalyst 250, P. Safari 3181.

COMMODORE

C286-LT, C386SX-LT, Featron FT 6000A Series, & P75.

Canon

NoteJet 485/25 (BN-22), Innova Book 150C, 175C, Innova Book 200LS, Innova Book 486NX & NoteJet (BN-100C/ 120), Innova Book 300P P75/540C, 350CD, 360CD, 475 CDS/CDT, Innova Book 480 CDT/ 490, Innova Book IB1 100, Pentiums & NoteJet III (BN-200C/ 700C).

COMPAQ

Armada 1100x Series, Armada 4100x Series, Concerto & LTE Elite, Contura 4100x Series, Contura 4100x Series, Contura Aero Series, LTE 5100x Series, LTE Lite Series, LTE Lite 4100x Series, Presario 1100x Series.

DAEWOO

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DELL

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MITAC

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NEC

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Canon

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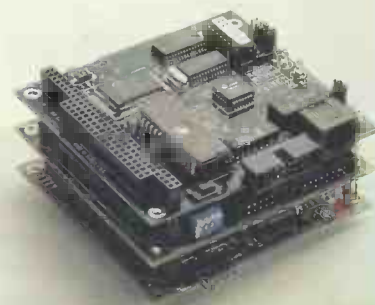
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The model pictured above is the standard Mini Tower model with the AWE 64+ and 50w speaker upgrade.

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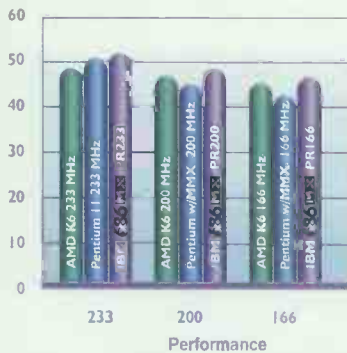
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Test Configuration Mitc R534G M/board, 512k pipeline burst cache, 32 mb EDO Memory, Matrox Millennium w/4mb Adaptec AHA 2940 SCSI - 3 host plus adaptor, Barracuda SCSI Drive
All results set forth above were obtained through bench marking performance by XXGal, Inc. Testing Laboratories, an independent laboratory not affiliated with IBM

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K6 200	£479.00	£562.82
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686 200+	£415.00	£487.62
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686 200MMX	£445.00	£522.87
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Intel 166MMX	£449.00	£527.57
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686 200+	£499.00	£586.32
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686 200MMX	£539.00	£633.32
Intel 150	£519.00	£609.82
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- ⊗ 512K Pipeline Burst Cache
- ⊗ 4MB 3D 64-bit PCI Video Card (Matrox Mystique or Expert@Work)
- ⊗ Processor Cooled
- ⊗ AMD, IBM, Cyrix, SGS & Intel CPUs
- ⊗ Windows95 Keyboard
- ⊗ 3 Button Mouse
- ⊗ 14" NILR .28 SVGA Monitor
- ⊗ 1024x768 (3yrs onsite warranty)

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K6 200	£645.00	£757.87
K6 233	£739.00	£868.32
686 200+	£565.00	£663.87
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686 200MMX	£605.00	£710.87
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VC40	S3 Virge 2MB 3D2000	£23.00	£27.03
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VC45	Mega 3D 4MB Cirrus GD5464	£39.00	£45.83
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VC-151R	4MB Matrox Millenium 2 Retail	£125.00	£146.88
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VC87	ATI Expert at Work	£92.00	£108.10
VC88	ATI 3D Pro Turbo 4MB PC2TV	£85.00	£99.88
VC88	ATI 3D Pro Turbo 8MB PC2TV	£119.00	£139.83
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VC300	Hercules Stingray 3D 6MB Voodoo	£155.00	£182.12
VC400	Hercules Stingray 3D 8MB Voodoo	£175.00	£205.62
VC500	Apocalypse 3D 4MB	£95.00	£111.62
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CD24A	X24 Acer CD Rom Drive	£49.00	£57.58
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HD43SU	Seagate 4.3GB Ultra DMA 33	£149.00	£175.08
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HD21QS	Quantum 2.1 GB Stratus Ultra DMA	£109.00	£128.08
HD32QS	Quantum 3.2GB Stratus Ultra DMA	£123.00	£144.53
HD43QS	Quantum 4.3GB Stratus Ultra DMA	£155.00	£182.13
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HD65QBF	Quantum 6.5GB Cyclone	£179.00	£210.33
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HD52M	Maxtor 5.2GB Ultra DMA 33	£189.00	£222.08
HD7M	Maxtor7GB Ultra DMA33	£209.00	£245.58
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FM57	Diamond 56600 Internal Supra	£69.00	£81.08
FM58	Diamond 56600 External Supra	£79.00	£92.83
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C233A	AMD K6 233 CPU	£159.00	£186.82
INTEL			
C150I	Intel P150 CPU	£65.00	£76.38
C166MMX	Intel 166 MMX CPU	£79.00	£92.83
C200MMX	Intel 200 MMX CPU	£139.00	£163.33
C233MMX	Intel 233 MMX CPU	£189.00	£222.08
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C266P2	Intel Pentium2 266	£355.00	£417.13
C300P2	Intel Pentium2 300	£509.00	£598.08
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C200IBM	IBM 686 200	£45.00	£52.88
C200C	Cyrix 686 200	£47.00	£55.23
C166MMX	Cyrix 166 MMX	£59.00	£69.33
C200MMX	Cyrix 200 MMX	£89.00	£104.58
C233MMX	Cyrix233 MMX	£CALL	£CALL
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M92-HXGA	Gigabyte HX Mboard 512k ATX	£92.00	£108.10
M92-TXGA	Gigabyte TX Mboard 512k ATX	£99.00	£116.33
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UP40	Intel Pentium 166MMX Upgrade Kit	£140.00	£164.60
UP50	Intel Pentium 200MMX Upgrade Kit	£194.00	£227.95
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PR61	Epson 600 Inkjet Colour Printer	£179.00	£210.33
PR35	Hewlett Packard 690 Plus	£149.00	£175.08
PR36	Hewlett Packard 820 Cxi	£153.00	£179.18
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SO06	Pine ESS 16-bit Sound Card	£9.00	£10.58
SO15W	Audio Excell 16 PnP Wavetable	£15.00	£17.63
SO15	Audio Excell 3D PnP	£10.00	£11.75
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SO12	CreativeLabs SoundBlaster 16	£28.00	£32.90
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MOI7H	Hansol 17" Monitor 700P .26	£339.00	£398.33
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MOI5T	15" Targa Digital Monitor	£139.00	£163.33
MOI7T	17" Targa Digital Monitor	£265.00	£311.38



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Hansol 700P 17" Colour Monitor

:Hansol

- 17" Diagonal FST. 0.26 Dot Pitch.
- Up to 1600x1200 at 66.6Hz (NI).
- 3 Years on-site Warranty.
- Microprocessor Digital Control.

£339 + Vat

ADI Provista 14" Colour Monitor

- 14" FST 0.28 Dot Pitch
- Up to 1024x768 at 60 Hz (NI).
- 3 Years Warranty (2 years on-site).
- Microprocessor Digital Control.

ADI



£109.00 + Vat

Cases

from £21 + Vat

		Ex. Vat	Inc. Vat
CS30	Ultimate Quality Minitower Case	£21.00	£24.68
CS40	Ultimate Quality Desktop Case	£21.00	£24.68
CS32	Ultimate Quality Full Tower Case	£36.00	£42.30
CS15	WT Quality Minitower Case	£21.00	£24.68
CS16	WT Quality Desktop Case	£21.00	£24.68
CS17	WT Quality Midtower Case	£26.00	£42.30
CS18	WT Quality Full Tower Case	£38.00	£44.65
CS80	Enlight EN6562 Minitower Case	£39.00	£45.83
CS85	Enlight EN6414 Desktop Case	£41.00	£48.18
CS90	Enlight Midtower Case	£56.00	£65.80
CS200	ATX Midtower Case	£55.00	£64.62
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CS220	ATX Desktop Case	£55.00	£64.62

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NET-T	Network terminator- 50ohm	£1.00	£1.18
NET-TP	Network T-piece	£2.00	£2.35
NET-CABLE	Network Cable 100M	£19.00	£22.33
NET-CABLE	Network Cable per metre	£0.75	£0.88
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- Functions as standard Drive A.

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ZIP100	Iomega ZIP Drive 100MB External	£86.00	£101.06
ZIP300	Iomega ZIP Drive SUSI Internal	£86.00	£101.06
ZIP400	Iomega ZIP Drive SUSI External	£86.00	£101.06

Input Devices from £2.50 + Vat

		Ex. Vat	Inc. Vat
MI02	Ultimate 2 Button Mouse	£2.50	£2.94
MI03	Quality 3 Button Mouse	£3.50	£4.11
MI10	Mitsumi 2Button Mice	£6.00	£7.05
MI20	Microsoft 2Button Mice	£12.99	£15.26
K50	Mitsumi 105 Windows95 Keyboard	£10.00	£11.75
K10	STD 105 Windows 95 Keyboard	£5.99	£7.04
K15	Ultimate Windows 95 Keyboard	£6.99	£8.21
K55	Microsoft Natural Keyboard	£44.00	£51.70
K25	Keytronics Windows 95 Keyboard	£25.00	£29.37
K33	BTC Windows 95 Keyboard	£7.99	£9.39
Floppy Drives			
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FD1P	Panasonic 1.44 Floppy Drive	£12.99	£15.26
FD1M	Mitsumi 1.44 Floppy Drive	£11.99	£14.09
FD-A120	120MB Floppy Drive	£69.99	£82.24
Coolers			
HSF4	486 Heat Sink & Fan	£3.00	£3.53
HSF5	Pentium Heat Sink & Fan	£4.00	£4.70
HSF6	686 Heat Sink & Fan Heavy Duty	£5.00	£5.38
HSF8	Pentium and 686 Fan	£5.00	£5.38
TV Cards			
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TV20	Hauppauge PCI TV & Radio Card	£85.00	£99.86



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System options overleaf



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System RAM (Memory)

One of the most important factors to consider when deciding system performance is the amount of system RAM installed. We recommend 32Mb or 64Mb for optimum performance.

Intel Processors

For optimum system performance and maximum compatibility, all Mertec systems feature genuine Intel Pentium II® or Intel Pentium® processors with MMX™ technology. Why compromise?

3D Graphics

All our systems incorporate either ATI or Matrox advanced 3D chipsets, most being installed with 4Mb or 8Mb RAM. Display cards are usually over looked as the cause of performance bottlenecks. 3D 64Bit - Don't settle for anything less.

Fast Hard Drives

The ultimate Ultra DMA-33 hard drives now offer maximum data transfer at up to 33Mb per second. This might sound like techno-babble, but provides virtually double the hard drive performance of standard drives.

3D Wavetable Sound

The 64 in the Creative Labs AWE64 does not refer to "64 Bit", it refers to the number of voices played at once. For example, if you imagine an orchestra with 64 musicians all playing simultaneously. The additional voices enable sophisticated 3D audio software to run. In short, 64 voices enables richer and fuller sounding music.

ATX Form Factor

Our ATX systems provide enhanced upgradability and system cooling facilities combined with advanced power management features and Windows 98 support.

24x Speed CDROM drives

With more and more software now running from CDROM, drive speeds have become an influencing factor when designing a system. All Mertec systems include a 24x speed unit, providing over 30% increase on 16x speed drives.

Crystal Clear Monitors

All Mertec systems are supplied with award winning ADI monitors, offering crisp, pin-sharp resolution and non-interlace (flicker free) display. The difference is clearly visible.

56k Voice Modems

56k modems offer all the benefits of 33.6 voice modems such as Email, fax, Internet access etc. The 56k standard allows you to download from supporting internet service providers at speeds up to 56k. Meaning less time connected and therefore smaller phone bills.

Genuine Microsoft Mouse

A mouse, is a mouse, is a mouse, yes?... No! the Microsoft mouse not only offers the ultimate in reliability and comfort, but is a precision tool.



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- Intel Pentium® processor with MMX™ technology
- 16Mb Fast EDO RAM
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- 2Mb ATI 3D graphics card, with full screen MPEG playback
- 14" ADI SVGA Monitor (1024 x 768)
- 512K Pipeline Burst Cache
- 24x max CD ROM Drive
- Soundblaster 16 P n P
- High powered speakers
- Microsoft Mouse
- Microsoft Home software
- Microsoft Windows 95 OSR/2
- 5 Year Warranty & Lifetime Technical support
- Mini Tower or Desktop case
- Intel 430 VX Chipset, 1.44Mb Floppy, 105 Key keyboard, Socket 7, 1 parallel & 2 Serial ports, 3 PCI & 2 ISA free slots.

HOME MEDIA

- Intel Pentium® processor with MMX™ technology
- 16Mb Fast EDO RAM
- 3.2Gb Ultra ATA Hard Drive
- 4Mb ATI 3D graphics card, with full screen MPEG playback
- 15" ADI SVGA Monitor (1280 x 1024)
- 512K Pipeline Burst Cache
- 24x max CD ROM Drive
- Soundblaster 16 P n P
- High powered speakers
- Microsoft Mouse
- Microsoft Home software
- Microsoft Windows 95 OSR/2
- 5 Year Warranty & Lifetime Technical support
- ATX Mini Tower or Desktop case
- Intel 430 TX Chipset, 1.44Mb Floppy, 105 Key keyboard, Socket 7, 1 parallel & 2 Serial ports, 3 PCI & 2 ISA free slots
- **EPSON 300 COLOUR PRINTER**
720 x 720 dpi,
100 page sheet feeder,
1 Year Warranty
Printer Cable



EXPLORA MEDIA

- Intel Pentium® processor with MMX™ technology
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- 4.3Gb Ultra ATA Hard Drive
- 4Mb ATI 3D graphics card, with full screen MPEG playback
- 15" ADI SVGA Monitor (1280 x 1024)
- 56K Voice/Fax Data Modem
- 512K Pipeline Burst Cache
- 24x max CD ROM Drive
- Soundblaster AWE 64 P n P
- High powered speakers
- Microsoft Mouse
- Microsoft Home software
- Microsoft Windows 95 OSR/2
- 5 Year Warranty & Lifetime Technical support
- ATX Mini Tower or Desktop case
- Intel 430 TX Chipset, 1.44Mb Floppy, 105 Key keyboard, Socket 7, 1 parallel & 2 Serial ports, 3 PCI & 1 ISA free slots.

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Microsoft Home Software

Encarta 97, Works, Money, Golf, Scenes, Wine Guide, Auto Route, Dangerous Creatures, Fine Artist, Corel Draw.

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OFFICE PRO

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- 4.3Gb Ultra ATA Hard Drive
- 4Mb ATI 3D Expert graphics card, with full screen MPEG playback
- 15" ADI SVGA Monitor (1280x1024)
- 56k Voice/Fax Data Modem
- **Omega Zip Drive**
- 512K Pipeline Burst Cache
- 24x max CD ROM Drive
- High powered speakers
- Microsoft Mouse
- Microsoft Office Pro 97
- Microsoft Windows 95 OSR/2
- 5 Year Warranty & Lifetime Technical support
- ATX Mini Tower or Desktop case
- Intel 430 TX Chipset, 1.44Mb Floppy, 105 Key keyboard, Socket 7, 1 parallel & 2 Serial ports, 3 PCI & 1 ISA free slots.

OMEGA Zip Drive

CRESTA

- Intel Pentium®II processor with MMX™ technology
- 32Mb Fast EDO RAM
- 4.3Gb Ultra ATA Hard Drive
- 4Mb ATI 3D Expert graphics card, with full screen MPEG playback
- 17" ADI SVGA Monitor (1280x1024)
- 56k Voice/Fax Data Modem
- 512K Pipeline Burst Cache
- 24x max CD ROM Drive
- Soundblaster AWE 64 P n P
- High powered speakers
- Microsoft Mouse
- Microsoft Home software
- Microsoft Windows 95 OSR/2
- 5 Year Warranty & Lifetime Technical support
- ATX Mini Tower or Desktop case
- Intel 430 TX Chipset, 1.44Mb Floppy, 105 Key keyboard, Socket 7, 1 parallel & 2 Serial ports, 3 PCI & 1 ISA free slots.

ULTRA MEDIA

- Intel Pentium®II processor or Intel Pentium® processor with MMX™ technology
- 64Mb Fast EDO RAM
- 8.3Gb Ultra ATA Hard Drive
- 8Mb ATI 3D Expert graphics card, with full screen MPEG playback
- **3Dfx accelerator card**
- 17" ADI SVGA Monitor (1280x1024)
- 56k Voice/Fax Data Modem
- **Omega Zip Drive**
- 512K Cache
- 24x max CD ROM Drive
- Soundblaster AWE 64 P n P
- Satellite & Bass Sub Woofer speakers
- Microsoft Intelli Mouse
- Microsoft Home software
- Microsoft Windows 95 OSR/2
- 5 Year Warranty & Lifetime Technical support
- ATX Full Tower Case
- Intel 430 TX/440LX Chipset, 1.44Mb Floppy, 105 Key keyboard, Socket 7/slot 1, 1 parallel & 2 Serial ports, 3 PCI & 1 ISA free slots.

3DFX

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233MHz with MMX™ Technology
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support@adv-net-sol.co.uk - For technical support

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24 speed CDROM



PCM¹ Windows 95 Workstation

PCM¹ is a machine designed specifically for Windows 95, utilising the latest TX chipset from Intel, MMX processors and Diamond Stealth accelerators.

P166 MMX	£799	£938.83	inc VAT
P200 MMX	£874	£1026.95	inc VAT
P233 MMX	£949	£1115.08	inc VAT

Choice of:
Microsoft Works 95
or Lotus SmartSuite 97
pre-installed with all PC systems

PCM¹ Specifications:

- Intel 430TX Chipset
- 512K Pipeline Burst Cache
- Choice of Intel MMX Processors
- 32 MByte EDO 60ns RAM
- 2.6 GByte Fujitsu Ultra DMA Drive
- 2 MByte Diamond Stealth 3D Graphics Accelerator
- 15" ADI Digital Monitor (3 year Warranty)
- Choice of Mini-Tower/Desktop case
- Toshiba 24 speed CD-ROM
- 16 Voice Wave-table Sound Card
- Mains Powered Multi-media Speakers

For other items included with this PC please refer to: *All machines include

PG² Games Station

PG² combines the power of Intel MMX processors and the new Matrox Mystique 220 to bring you high performance 3D games and devastatingly quick graphics.

P166 MMX	£949	£1115.08	inc VAT
P200 MMX	£1025	£1204.38	inc VAT
P233 MMX	£1099	£1291.33	inc VAT

PG² Specifications:

- Intel 430TX Chipset
- 512K Pipeline Burst Cache
- Choice of Intel MMX Processors
- 32 MByte EDO 60ns RAM
- 2.6 GByte Fujitsu Ultra DMA Drive
- 4 MByte Matrox Mystique 220 Graphics Card
- 15" ADI Digital Monitor (3 year Warranty)
- Choice of Mini-Tower/Desktop case
- Toshiba 24 speed CD-ROM
- Creative Labs AWE64 Wave-table Sound Card
- Mains Powered 100W Speakers with Sub-Woofer
- Mystique 3D Games Pack

For other items included with this PC please refer to: *All machines include

PPX³ Power User

PPX³ is based around the next generation Intel Pentium II processor. The Iiyama monitor is driven through the Accelerated Graphics Port system, and the memory sub-system consists of 64 bit 10ns DIMMS.

Pentium II 233MHz	£1649	£1937.58	inc VAT
Pentium II 266MHz	£1739	£2043.33	inc VAT
Pentium II 300MHz	£1899	£2231.33	inc VAT

PPX³ Specifications:

- Intel 440LX Chipset
- Choice of Intel Pentium II Processors
- 64 MByte Synchronous 10ns DIMMS
- 2.3 GByte Fujitsu Ultra DMA Drive
- 4 MByte Accelerated Graphics Port Video
- 17" Digital Iiyama Monitor (1280 x 1024@80Hz)
- Midi-Tower case
- Toshiba 24 speed CD-ROM
- Creative Labs AWE64 Wave-table Sound Card
- Mains Powered 100W Speakers with Sub-Woofer

For other items included with this PC please refer to: *All machines include

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*All machines include

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- Choice of MS Works 95 or Lotus SmartSuite 97
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| • 14" - 17" Iiyama Monitor | £320 |
| • 15" - 17" Iiyama Monitor | £280 |
| • Extra 32M Memory | £70 |
| • 33K Fax/Voice/Modem | £47 |
| • 56K Fax/Voice/Modem | £65 |
| • MS Office 97 Pro | £120 |
| • MS NT Workstation | £55 |

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PCMCIA NE2000 Compatible Network Combo Card	62.00	72.85
3Com 3C509B Combo	59.00	69.33
3Com 3C905TX PCI 10/100MHz	53.00	62.28



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Lan Research 16 Port Ethernet Stackable Hub	115.00	135.13
D-Link 8 Port Ethernet Hub	59.00	69.33
D-Link 12 Port Ethernet Hub	114.00	133.95
D-Link 16 Port Ethernet Hub	119.00	139.83
D-Link 24 Port Ethernet Hub	165.00	193.88
Hewlett Packard Hubs and Switches	Call	Call
Hewlett Packard 16 Port Ethernet Switch	699.00	821.33

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3 Metre CAT5 Patch Cable	4.00	4.70
5 Metre CAT5 Patch Cable	5.00	5.88
10 Metre CAT5 Patch Cable	7.00	8.23
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2 Metre BNC Cable	3.00	3.53
3 Metre BNC Cable	4.00	4.70
5 Metre BNC Cable	5.00	5.88
10 Metre BNC Cable	7.00	8.23
305 Metre Roll of UTP CAT5 RJ45 Cable	99.00	116.33
100 Metre Roll of BNC RG58 Cable	39.00	45.83
BNC T-Pieces	2.00	2.35
BNC Terminators	2.00	2.35

Network Operating Systems	Exc VAT	Inc VAT
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MS Windows NT	Call	Call

UPS	Exc VAT	Inc VAT
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APC Smart-UPS 1000VA (inc. Powerchute)	310.00	364.25
APC Smart-UPS 1400VA (inc. Powerchute)	399.00	468.83
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HP DAT 8 GByte in External Case	605.00	710.88
Fuji DAT Tape 90m (2/4 GByte)	5.00	5.88
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Intel Pentium 200	Call	Call
Intel Pentium MMX 166	95.00	111.63
Intel Pentium MMX 200	151.00	177.43
Intel Pentium MMX 233	232.00	272.60
Intel Pentium Pro 200	Call	Call
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Intel Pentium II 266	431.00	506.43
AMD K6-166MMX	78.00	91.65
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AMD K6-233MMX	204.00	239.70
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Cyrix/IBM M2 233MX (inc. fan)	205.00	240.88
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Pentium Pro Heatsink & Fan	7.00	8.23

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4 MByte 72 pin Parity SIMM	17.00	19.98
8 MByte 72 pin EDO SIMM	18.00	21.15
8 MByte 72 pin Parity SIMM	34.00	39.95
16 MByte 72 pin EDO SIMM	30.00	35.25
16 MByte 72 pin Parity SIMM	43.00	50.53
32 MByte 72 pin EDO SIMM	61.00	71.68
32 MByte 72 pin Parity SIMM	92.00	108.10

Modems	Exc VAT	Inc VAT
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33.6K External Fax/Modem	63.00	74.03
56K Internal Fax/Modem	68.00	79.90
56K External Fax/Modem	79.00	92.83
PCI ISDN Terminal Adapter	97.00	113.88

CD-ROMS	Exc VAT	Inc VAT
Toshiba 24x EIDE CD-ROM	65.00	76.38
12x SCSI CD-ROM	65.00	76.38
16x SCSI CD-ROM	79.00	92.83
Philips CD Writer Kit	225.00	264.38
RIICOH Storm Re-Writable CD	299.00	351.33

SCSI Controllers	Exc VAT	Inc VAT
Adaptec AHA2940u Ultra SCSI	125.00	146.88
Adaptec AHA2940uw Ultra Wide	174.00	204.45
Adaptec 3985 PCI RAID	440.00	517.00
DPT PM3334 PCI RAID Controller	895.00	1,051.63

Input Devices	Exc VAT	Inc VAT
Windows 95 Keyboard	10.00	11.75
Microsoft Natural Keyboard	47.00	55.23
Microsoft Mouse Serial	18.00	21.15
Microsoft Mouse PS2	18.00	21.15

Scanners	Exc VAT	Inc VAT
HP Scanjet 5S	140.00	164.50
HP Scanjet 5P	163.00	191.53
HP Scanjet 4C	459.00	539.33
Avision 9600 dpi 30 bit	89.00	104.58

Drives (EIDE & Floppy)	Exc VAT	Inc VAT
3.5" Floppy Drive	15.00	17.63
Fujitsu 1.2 GByte Ultra DMA	70.00	82.25
Fujitsu 1.7 GByte Ultra DMA	90.00	105.75
Fujitsu 2.6 GByte Ultra DMA	106.00	124.55
Fujitsu 3.5 GByte Ultra DMA	135.00	158.63
Fujitsu 4.3 GByte Ultra DMA	165.00	193.88
Fujitsu 5.2 GByte Ultra DMA	215.00	252.63

Fujitsu Ultra Wide SCSI Drives	Exc VAT	Inc VAT
2.2 GByte Ultra Wide 7,200rpm	310.00	364.25
4.4 GByte Ultra Wide 7,200rpm	430.00	505.25
9.1 GByte Ultra Wide 7,200rpm	719.00	844.83

Motherboards	Exc VAT	Inc VAT
QDI Jumperless 512K Cache TX P75-P233	79.00	92.83
QDI Jumperless 512K Cache TX P75-P233 ATX	89.00	104.58
QDI Pentium Pro 440FX	110.00	129.25
QDI Dual Pentium Pro 440FX ATX	235.00	276.13
QDI Pentium II for 233 and 266 CPU ATX	139.00	163.33

Sound Cards & Speakers	Exc VAT	Inc VAT
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Expertmedia 3201 3D Full Duplex 32 Voice WaveTable	31.00	36.43
Creative Labs Soundblaster 64 OEM	50.00	58.75
Creative Labs Soundblaster 64 Value	62.00	72.85
Creative Labs Soundblaster AWE 64 Gold Version	115.00	135.13
Logic 3 Screenbeat 225 25 Watts Mains	19.00	22.33
Logic 3 Screenbeat 250 50 Watts Mains	28.00	32.90
Logic 3 Screenbeat 280 80 Watts Mains	54.00	63.45
Logic 3 Screenbeat 310 100 Watts Mains	66.00	77.65
Logic 3 Screenbeat 300 120 Watts Mains with Sub-woofer	90.00	105.75

Video Cards	Exc VAT	Inc VAT
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Diamond Stealth 3240 2 MByte VRAM 3D	77.00	90.48
Diamond Stealth 3400 4 MByte VRAM 3D	101.00	118.68
Diamond Monster 3DFx Voodoo 4 MByte VRAM 3D	100.00	113.98
Matrox Mystique 220 4 MByte VRAM 3D	85.00	99.88
Matrox Millennium II 4 MByte VRAM 3D	144.00	169.20
Matrox Millennium II 8 MByte VRAM 3D	189.00	222.08
Mystique 2 MByte Upgrade	33.00	38.78
Millennium 2 MByte Upgrade	51.00	59.93
Millennium 4 MByte Upgrade	99.00	116.33
Matrox Rainbow Runner Studio	150.00	176.25

Monitors	Exc VAT	Inc VAT
ADI 14" Digital 0.28dp 1024x768@60Hz NI	111.00	130.43
ADI 15" Digital 0.28dp 1280x1024@60Hz NI	152.00	178.60
ADI 17" Digital 0.28dp 1280x1024@60Hz NI	335.00	393.63
Iiyama 8517E 17" 0.25dp 86KHz	399.00	468.83
Iiyama 9017E 17" 0.25dp Diamondtron 90KHz	425.00	499.38
Iiyama 8221T 21" 0.27dp 82KHz	859.00	1,009.33
Iiyama 9021T 21" 0.30dp Diamondtron 90KHz	899.00	1,056.33

Printers/Network Printing	Exc VAT	Inc VAT
Hewlett Packard LaserJet 5	639.00	750.83
Hewlett Packard LaserJet 5N	839.00	985.83
Hewlett Packard JetDirect Printer Server	229.00	269.08
Hewlett Packard External JetDirect Printer Server	229.00	269.08



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- *D/A Output Cards.
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- *Stepping Motor Controller Cards.
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- * For 14"/15" Monitors
- * Extruded aluminium handles
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19" Pack Mount HD/CD ROM Chassis

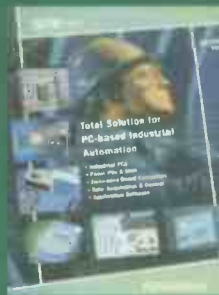


- * 19" Hard Disk/CD ROM enclosure 4U.
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- * Optional SCSI ID selector & Cables.
- * 300W CE/TUV/UL approved AT power supply fitted.
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- * Port address selectable

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 * Please note that the minimum order is £50, any order below this value will be subject to a small surcharge of £5.
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GENERAL FEATURES

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- Isolated Digital I/O Module **£96**
- Relay Output Module **£96**
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- Isolated RS-232/RS-485 Converter Module **£71**
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- * Open ISA-bus architecture
- * Flexible modular design
- * Front panel I/O access
- * Extractor handle design for easy module installation
- * Panel or 19" rackmount

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3-axis Stepping Motor Control Card

- * Step rate up to 16 Kpps
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- * 5 DI per axis for limit switching

- * Half-sized PC add-on card **£239**
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Industrial Workstation with 14" Colour CRT Monitor



- * Highly-Integrated PC workstation
- * 1024x768 colour CRT Monitor
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- * 27-key membrane keypad
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This slim panel PC provides a fully integrated 486 - based PC a built in 50W power supply and comprehensive networking support, three RS-232 and one RS-232/422/485 ports. It is an ideal solution for distributed control and monitoring applications.

- * 486 all-in-one PC-board (up to DX4-120&5x86)
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- * Space for 2.5" HDD
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GENIE Software



- * Real-time DA&C, graphic display & data logging (MS Windows)
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- * Supports most LabCards & ADAM 4000 Series **£170**

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OfficeStation97™

Multimedia Systems



166M-2

OfficeStation™ 97 Multimedia PC

- IBM 6x86MX PR166 processor with MMX technology
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- SIS advanced graphics using 4Mb system RAM, MPEG playback and Microsoft Direct 3D support
- 14" SVGA 0.28dp NI colour screen (15" £69 + VAT = £81.08 Inc. VAT extra)
- 24 Speed Max CD-ROM drive
- ESS 3D wavetable sound
- Sound Force Stereo mains speakers
- ATX Midi-Tower system with advanced ATX motherboard
- Microsoft® Office 97 small business bundle (UK edition with full printed manuals and CDs)
- Additional top quality preloaded software
- All standard items 105 PS/2 keyboard; PS/2 mouse and 3.5" 1.44Mb floppy drive; 90 min user video; Microsoft Windows 95 with manual and CD; 1 year warranty extendible to 3 or 5 years.

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Time Computers offer high specification 166 and 200 MMX multimedia systems for home and business users that include fast 4.3Gb hard disks, 4Mb advanced graphics, 3D wavetable sound, massive 32Mb RAM and 24 speed Max CD-ROM. These systems come complete with Microsoft Office 97 software bundle from an amazing £899 +VAT!

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Office97
Small Business Edition

Microsoft Office 97

bundle Includes:



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£ **899** +VAT

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As above but with Intel Pentium 200MHz MMX processor, 56k voice modem and VideoPhone receive£169 +VAT extra = £198.58
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200M 15" 400-30-023

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Product codes: 200M-2 14" 400-30-132
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Interest FREE Option Includes Voice Recognition And VideoPhone

Camera/Leisure/Educational Bundle Upgrade OfficeStation™ PLUS models are also available with additional, Colour video camera, PC joystick, PC microphone and 10 superb CD multimedia titles at only £99 +VAT = (£116.33 Inc. VAT) extra.

Product codes: 166M-2 14" 400-30-286, 166M-2 15" 400-30-287, 200M 14" 400-30-026, 200M 15" 400-30-027
200M-2 14" 400-30-134, 200M-2 15" 400-30-135



TOSN3A



Interest Free Option

Interest Free Option only available when the above system is purchased with the Camera/Leisure/Educational bundle upgrade.

Example: Pay the whole amount now for fast delivery or pay just £121.08 (10% deposit) and then nothing to pay for up to 6 months. Within six months pay the rest. Total price = cash price = £899 + £99 + £25 delivery + VAT = £1202.03 Inc. VAT. APR 0%. Finance also available over longer period of 2.5 years at APR 23.9%. Finance is subject to status. Written details are available on request.

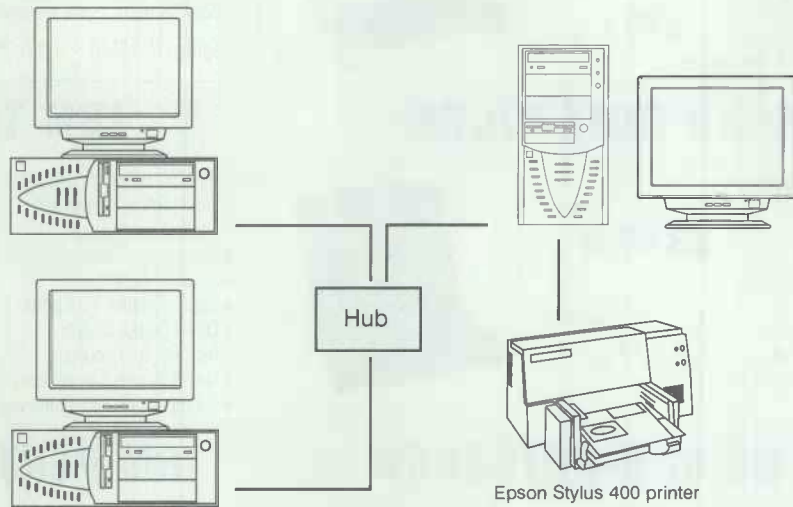
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Time Computer Systems are proud to launch complete ready to use three user and five user computer solutions for small businesses.

Each solution provides full-feature business applications including electronic mail, fax facilities, wordprocessing, spreadsheet number crunching, database filing system, graphics and presentations, scheduling and much more. The system also provides a regular backup, virus protection and shared printer to all users (choice of 720dpi colour inkjet or 600dpi mono laser)

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3 User Solution

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- 2) Workstation computers
- 3) Epson Stylus colour 400 inkjet printer
- 4) 5 port hub, cables and all other items

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Options

5 User Solution £5599 +VAT = £6608.20
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Solutions with Epson EPL 5500 600dpi Laser Printer are £100 +VAT =£117.50 extra.
product codes:- 3 User 400-30-164; 5 User 400-30-165

Product Specification

WorkStation Computers

- Colossus 166M ATX Desktop
- Intel® (100/10 Mb/sec) PCI network card
- Intel Pentium 166MHz processor with MMX™ technology
- 32Mb EDO RAM
- 4.3Gb Ultra ATA hard disk
- 24 MAX CD-ROM Drive
- SIS advanced graphics using 4Mb system RAM
- 15" SVGA 0.28dp NI colour screen
- ESS 3D wavetable sound built-in
- Microphone and speakers
- Business software bundle
- All standard items such as keyboard, mouse, Windows 95, ports
- Pre-loaded NetSetup, menu driven network set-up program

Central Computer

As Workstations but:-

- Colossus ATX Midi-tower
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TOSN3A



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inc VAT

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- Sub-note style - weighs < 2kg
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ex VAT

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inc VAT

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- Trackpoint pointing device
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inc VAT

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inc VAT

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- *Monitor not included, add only £99.99 (£117.49 inc vat) for IBM digital SVGA*

ex VAT

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inc VAT

£587.49



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Pentium desktop base unit with SVGA graphics adaptor, 3.5" 1.44MB fdd, serial & parallel ports etc. New & boxed with Siemens on-site warranty. *Monitor not inc., see separate panel.*

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P120 MHZ BASE UNITS

- Intel Pentium P120 processor
- 8MB RAM
- 1GB hard disk drive
- 3.5" 1.44MB fdd
- Keyboard & mouse
- Pre-loaded with Win 95
- 1-year RTB warranty
- *Monitor not included - see panel below*

ex VAT

£349.99

inc VAT

£411.24



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- RM 486SX25 base unit
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49-key music keyboard, software & psu that connects to MIDI port on your soundcard.

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SOUND CARDS AND SPEAKERS

	ex-vat	inc-vat
Creative S/B Vibra 16 (OEM)	£19.99	£23.49
Aztech 3D soundcard (OEM)	£14.99	£17.62
25W active spkrs (mains pwr)	£9.99	£11.74

MODEM CLEARANCE

	ex-vat	inc vat
Internal 14.4 fax/data/voice (OEM)	£11.99	£14.09
TM 28.8 external fax/data	£34.99	£41.12
Pace 33.6 external fax/data	£44.99	£52.86
Internal 33.6 fax/data/voice (OEM)	£39.99	£46.99

VLB GRAPHICS ACCELERATORS

GRAPHIXSTAR 300 & 500 64-bit accelerators for VLB with up to 1280x1024 resolution & 16.7 million colours!

GRAPHIXSTAR 300, 1MB £34.99 EX VAT £41.12 INC VAT
GRAPHIXSTAR 500, 2MB £49.99 EX VAT £58.74 INC VAT

2-SPEED SCSI CD-ROM DRIVES

Toshiba XM-4101B with 1/2 or 1/3 height bezels (specify). No manuals, software or cables. **£24.99** ex VAT **£29.36** inc VAT

PCMCIA CORNER

16-bit ISA card with 2x type II PCMCIA slot card carriers. **£39.99** inc VAT **£46.99** ex VAT

SCSI host adaptor with SCSI 1 cable, drivers, manual etc. **£39.99** inc VAT **£46.99** ex VAT

PCMCIA Ethernet card with BNC connector. Win 3.x & 95 compal. **£39.99** inc VAT **£46.99** ex VAT

For our latest offers and 'one-offs' see our website:- www.sterling-management.co.uk e-mail:- sales@sterling-management.co.uk



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Surrey, GU2 6RU

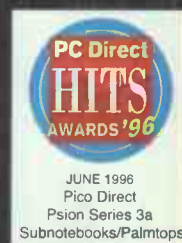
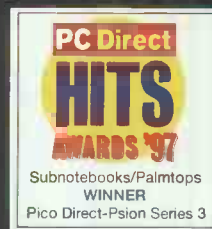
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Prices exclude delivery at Business Post standard rates by weight. Goods have a 1-year RTB warranty unless otherwise stated above. Credit card payments are subject to a 2.5% surcharge, no surcharge for Switch or Delta. All trademarks acknowledged. Stocks are finite so please telephone before travelling to confirm availability. E&OE.

MOBILE SOLUTIONS?

IT'S WORTH PHONING PICO JUST FOR THE EXPERIENCE...



The first thing you'll experience is that someone is ready to talk with you, rather than a recorded message saying your call is stored in a stacking system. Secondly, they don't come any more experienced than our customer advisors. Each one is industry trained and highly knowledgeable about our products and their applications including

notebooks, handhelds, PC Cards and AV support products. We don't claim to be experts in every field of IT. But we're the leading light in the area we do specialise in. So take advantage of PICO's experience and read up on the latest innovations in Mobile Solutions on the following pages...

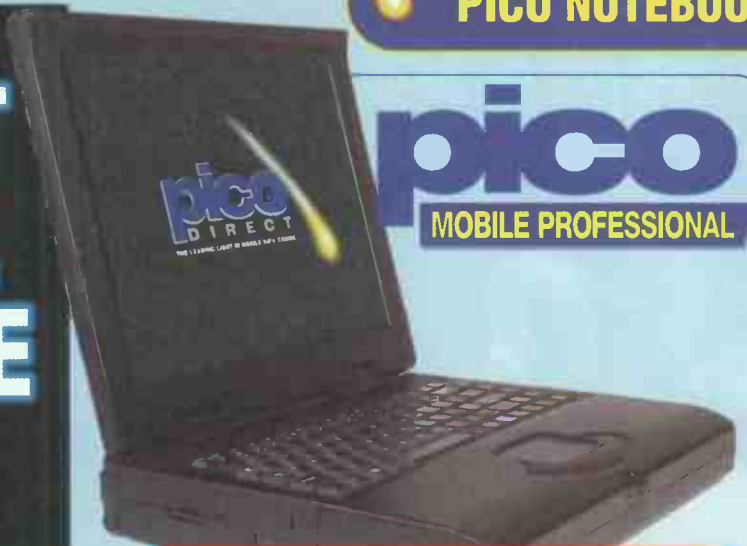


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THE LATEST PRODUCTS. UNBEATABLE VALUE.



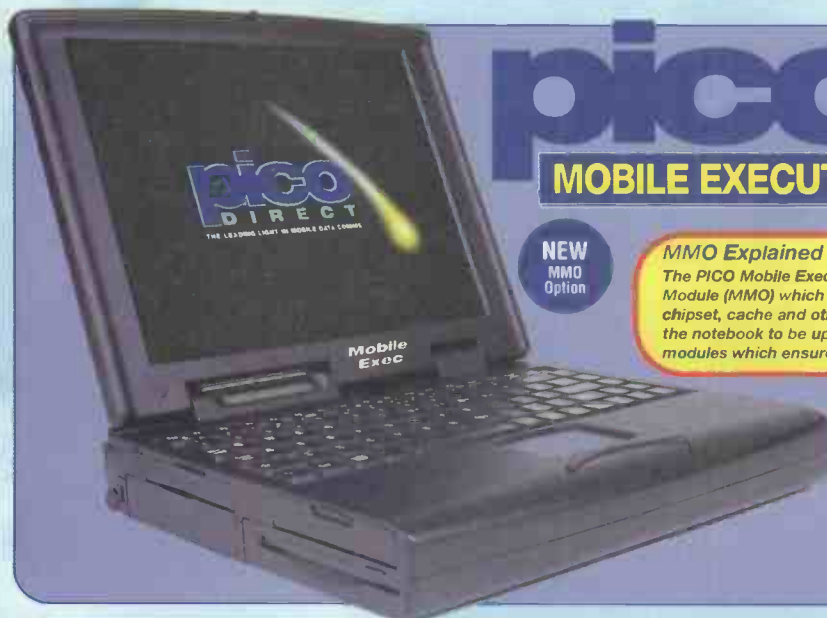
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MOBILE PROFESSIONAL

- Upgradeable to Intel Pentium 233 MMX
- XGA, TFT 13.3"/14.1" Active matrix screen up to 1280x1024 resolution
- 32MB EDO RAM upgradeable to 128MB, 512 KB cache
- 3.5" (1.44MB) floppy disk drive
- Removable Interchangeable 2.1GB Hard Disk
- 4MB EDO graphics card
- External Monitor Port, Supports 1280x1024
- A4 size Windows 95 keyboard
- Built-in 20 Speed CD ROM
- 16Bit Wavetable Sound System with Stereo Speakers and Microphone
- IrDA and FIR Infrared technology
- Built-in Trackpad for ease of use
- Lilon Battery for additional battery time
- MPEG for live video and CDI as standard
- Delux carry case with additional compartments for accessories
- 2 x PCMCIA slots, 2 x Type II or 1 x Type III
- TV Output, Video and ZV port
- 3 Year support plan
- Line in jacks, headphone jack
- Serial Port, Parallel Port MIDI and dual USB Ports
- 323(w) x 263.5(d) x 58mm
- Weight 4.1Kg

- 512KB cache, 20 speed CD-ROM for instant response
- Quicker processing with power up to 233MHz MMX
- Amazing graphics with 4MB EDO vldoe
- Crystal clear image with XGA resolution
- 14.1" Screen available now

Machines come configured with 2.1GB Hard Disk, 32MB EDO RAM, MPEG and Duracell Smart Battery

MODEL	PROCESSOR	SCREEN	PRICE
76166	Intel P166MHz MMX	13.3" TFT XGA	£1825
76200	Intel P200MHz MMX	13.3" TFT XGA	£1899
76233	Intel P233MHz MMX	13.3" TFT XGA	£1975
76166	Intel P166MHz MMX	14.1" TFT XGA	£1975
76200	Intel P200MHz MMX	14.1" TFT XGA	£2049
76233	Intel P233MHz MMX	14.1" TFT XGA	£2125



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MOBILE EXECUTIVE

NEW
MMO
Option

MMO Explained

The PICO Mobile Executive now features the revolutionary new Intel Mobile Module (MMO) which gives increased longevity by integrating a processor, chipset, cache and other electrical circuitry onto a single chip. This allows the notebook to be upgradeable to a faster processor by simply changing modules which ensures future proofing against advances in technology.

- Upgradeable to Intel Pentium 233 MMO
- SVGA 12.1" TFT OR 12.1" DSTN colour screen
- 32MB EDO RAM upgradeable to 72MB
- Built-in 20 speed CD ROM & 3.5" Floppy Disk Drive
- 512KB Cache
- 2MB Graphics card, Windows accelerator
- TV output, Serial/Parallel port
- Built-in sound card and speakers
- IRDA port, supports 1280x1024 to external monitor
- 3 year support plan
- Carry case

Machines come as standard with 2.1Gb Hard Disk, 32Mb EDO RAM, MPEG & Duracell Smart Battery

MODEL	PROCESSOR	12.1" DSTN	12.1" TFT
62166MMX	Intel P166MMX	£1115	£1425
62200MMX	Intel P200MMX	£1189	£1499
62233MMX	Intel P233MMX	£1265	£1575
62200MMO	Intel P200MMX MMO		£1849
62233MMO	Intel P233MMX MMO		£1975

Please call for PICO Mobile Professional and Executive accessories and options

APEX DATA V34 FAX/DATA MODEM



Internal line interface. No lumps, no bumps. No expensive replacement cable.

- Worldwide approval
- Easy 5 step installation
- Comes complete with enablers, socket services and client drivers

Only £129+vat
Fully Installed with notebook

PREMAX/ACTIONTEC ETHERNET COMBO



- Auto install
- Compatible with Novell Netware, IBM LanServer, Microsoft LAN Manager, Windows for Workgroups, RTI SOFT, LANtastic and other ODI or NDIS systems

Only £79+vat
Fully installed with notebook

PICO FINANCE

- PICO Direct is a licensed credit broker
- Company lease purchases
- 1-3yr personal finance packages
- 6 month interest free options

APR 0% Interest Free if you repay before or with your 6th monthly repayment. Otherwise APR 27.5%. Typical example: Cash price £1800; Loan amount £1800. Either, make monthly repayments of £71.19 and settle the outstanding balance in full within 6 months. Total amount payable £1800 - APR 0%. Or, make 36 monthly repayments of £71.19. Total amount repayable £2562.84 - APR 27.5%.

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PICO WARRANTY

- Lifetime telephone support
- Inclusive 3 year support plan
 - 1st year full parts and labour
 - 2nd year labour free
- Optional 2nd & 3rd year full parts and labour
 - Insurance backed
 - £125/year

PICO ASSURANCE

Providing quality products that are reliable backed by the best in-house technical support. Special insurance packages available on all Pico notebooks

PICO PEDIGREE

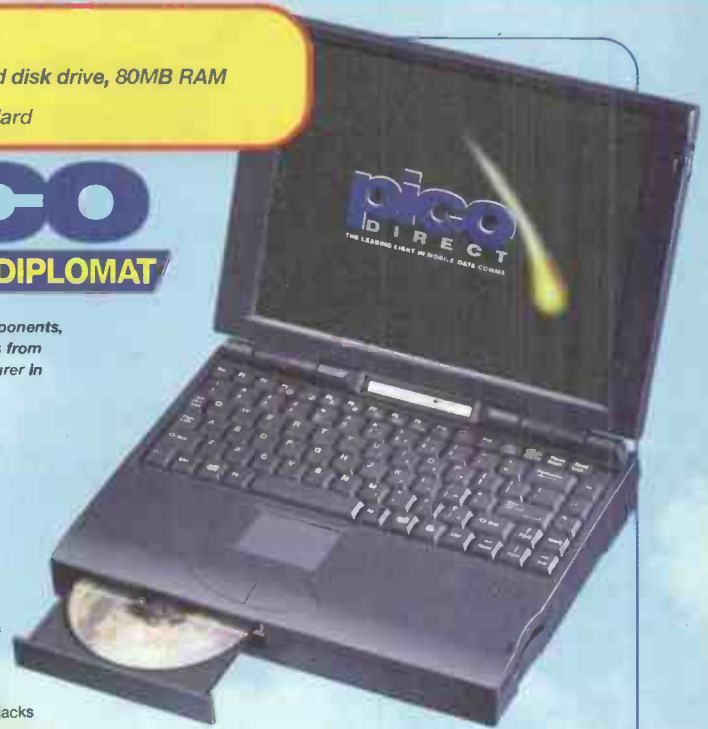
Part of the DIP Group of Companies, a multi million pound research and development IT Group established over 11 years. Products developed include the Atari Portfolio and Sharp 3000 PDA's

- Upgradeable to 233MMX
- Upgradeable to 5Gb Hard disk drive, 80MB RAM
- 2.1Gb Hard disk as standard

pico MOBILE DIPLOMAT

A brand name notebook, top quality components, ergonomic design with Intel mobile CPUs from probably the largest notebook manufacturer in the world.

- Intel MMX Pentium processor
- 16MB EDO RAM expandable to 80MB
- 512KB Level 2 Pipeline Burst Cache RAM
- 2MB EDO Video RAM
- 256KB Flash ROM BIOS
- 2.5" 2.1GB removable HDD
- 3.5" 1.44MB Floppy
- 20 speed CD-ROM
- Built-in 16-bit stereo sound system, Soundblaster Pro compatible
- PCMCIA slots: 2 x Type II or 1 x Type III & 1 x Type II
- Built-in Trackpad mouse module
- Duracell Smart rechargeable battery
- 2 x Speakers and microphone, 3 x Audio jacks
- TV Output (S-Video)
- APM, Plug & Play
- Zoomed Video ZV Port
- Serial Parallel & PS2 Ports
- Monitor & MIDI Ports
- Docking station port
- IrDA Port
- Windows 95 keyboard
- Carry Case
- 299mm x 232mm x 54.4mm. 3.2Kg



Machines come as standard with Intel MMX Processor, 2.1GB Hard Disk, 32MB RAM and 20 speed CD-ROM

MODEL	PROCESSOR	12.1" DSTN	12.1" TFT
87-166	Intel P166MMX	£1149	£1375
87-200	Intel P200MMX	£1215	£1449
87-233	Intel P233MMX	£1289	£1525

pico MOBILE AMBASSADOR

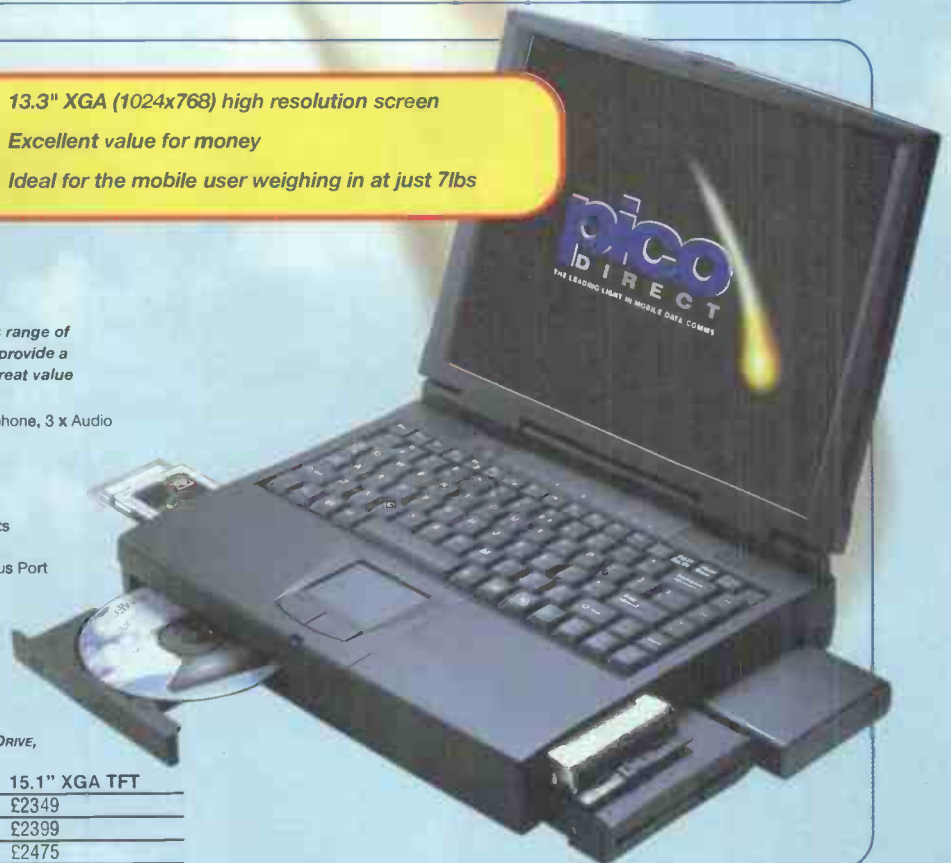
- 13.3" XGA (1024x768) high resolution screen
- Excellent value for money
- Ideal for the mobile user weighing in at just 7lbs

For the power user who wants to be one step ahead of the rest, this range of notebooks combines the latest notebook technology and design to provide a completely upgradeable system that will provide years of use and great value for money.

- Intel MMX Pentium processor
- 16MB EDO RAM expandable to 144MB
- 512KB Level 2 Pipeline Burst Cache RAM
- 2MB EDO Video RAM
- 256KB Flash ROM BIOS
- 2.5" 2.1GB removable HDD
- 3.5" 1.44MB Floppy
- 20 speed CD-ROM drive
- Built-in 16-bit stereo sound system, Soundblaster Pro compatible
- PCMCIA slots: 2 x Type II or 1 x Type III
- Built-in Trackpad mouse module
- Duracell Smart rechargeable battery
- 2 x Speakers and microphone, 3 x Audio jacks
- TV Output (S-Video)
- APM, Plug & Play
- Zoomed Video ZV Port
- Serial Parallel & PS2 Ports
- Monitor & MIDI Ports
- USB - Universal Serial Bus Port
- Docking station port
- IrDA Port
- Windows 95 keyboard
- Carry Case
- 314mm x 244mm x 59.5mm. 3.7Kg

MACHINES COME AS STANDARD WITH INTEL MMX PROCESSOR, 2.1GB HARD DRIVE, 32MB RAM, & 20 SPEED CD-ROM

MODEL	PROCESSOR	13.3" XGA TFT	15.1" XGA TFT
88-166	Intel P166MMX	£1775	£2349
88-200	Intel P200MMX	£1849	£2399
88-233	Intel P233MMX	£1925	£2475



HANDHELD

HP 360LX PALMTOP PC

with Windows CE version 2
• NEW • NEW • NEW • NEW •

This new product from Hewlett Packard distributed by PICO Direct is the first Windows CE Palmtop available with touch sensitive wide screen for point and access into applications. A new wave in mobile communications is upon us and set to help the most discerning of mobile professionals



MODEL	320LX	360LX
Display	640x240 LCD, 4 Grey Levels, Touch Panel, Backlit	640x240 LCD, 16 Grey Levels, Touch Panel, White backlight
Memory	5MB ROM Upgradeable, 4MB RAM	8MB RAM, 16bit Bus, 60Mhz CPU
Expansion Slot	1 x PC Card Type II, Compact Flash	1 x PC Card Type II, Compact Flash
Interface	1 x RS232C, 1 x IrDA. Includes PC Cable and docking station	1 x RS232C, 1 x IrDA. Includes PC Cable and docking station
Applications	Pocket Internet Explorer (ROM Based)	Powerpoint Viewer, Improved Excel (print option), improved Word (Spellchecker)
Price	£389	£559

- The ONLY CE Machine with a full 640x240 screen
- Windows 95 look and feel
 - Pocket applications matched to MS Office 95
 - Pocket Schedule
 - Pocket Word for Windows
 - Pocket Excel
- Pocket Mail
- Pocket Internet Explorer

BUNDLE OFFER
360LX +
8MB C Flash -
£639

PERIPHERALS

- 4MB Compact Flash - £59
- 8MB Compact Flash - £84
- 12MB Compact Flash - £129
- 16MB Compact Flash - £164
- 32MB Compact Flash - £279
- Compact Flash PC Card Reader - £79
- Leather Case - £49
- 3 Year Warranty - £66
- Chess - £49

CE PERIPHERALS

PICO CE Modem 33.6 + GSM upgrade option	£175
Mail-on-the-Run	£69
Send/receive e-mail remotely by cable or modem	
AA World Travel Companion	£24
Everything about the world's 22 most visited cities	
Notable Dates and Events 1998	£12
On Schedule for Windows CE	£39
Contact and information manager	
IntelliSync for CE	£79
Backgammon & Chinese Chess	£49

PHILIPS VELO with Windows CE

The Velo incorporates everything you'd expect from Windows CE but uniquely includes a simple connector for your GSM phone enabling you to tie into corporate e-mail, send faxes and browse the internet.

- Record up to 16 minutes of voice memos
- Miniature card slot for additional storage
- Backlit screen
- Docking cradle included
- 4MB RAM
- Includes BABT modem cable
- Indicator lights showing charging, communicating, and receiving alarms or messages

BUNDLE OFFER
Velo +
8MB C Flash -
£549



£489

PSION SERIES 5

- Full VGA-width touch sensitive screen
- Backlight. Multiple zoom
- 2 x AA batteries give 1 month typical usage
- Connect to PCs, printers, modems and mobile phones
- Laptop style touch type keyboard
- Digital recording and playback of voice memos
- Compact Flash slot for extra memory
- Infra-red for wireless comms
- Wordprocessor, spreadsheet, time manager, database, sketch, calculator, world information.



BUNDLE OFFER
Series 5, 8MB
+ PsiWin +
8MB C Flash
£474

Series 5 4MB with PsiWin - £324
Series 5 8MB with PsiWin - £409
3C 2MB Backlit - £279
3C 2MB - £249
3C 1MB - £225

Compact Flash 4MB	£59	Chess	£26
Compact Flash 8MB	£54	Beritz Interpreter	£29
Compact Flash 12MB	£129	Finance Pack 3a	£44
Compact Flash 16MB	£164	Aluminium Desk Stand	£15
AC Adaptor	£20	128KB Flash	£29
128KB RAM	£39	512KB Flash	£74
512KB RAM	£109	1MB Flash	£39
1MB RAM	£209	2MB Flash	£189
Leather Wallet	£20	4MB Flash	£289
Games Pack 3	£26	Data View	£49
Mac Comms Link	£84	PsiWin	£34
Parallel Cable	£28	Autoroute	£57
Fax Modem	£154	ACT for Palon	£79
Microfax	£179	Telenote	£59

SHARP HC-4100A with Windows CE (v.2)

Sharp's unique image editor allows you to draw and edit image files as well as capture images from the Internet or with the optional digital camera card.

- 7 one-touch application keys
- 640x240 touch screen LCD
- Backlit VGA screen
- Image editor. Create/edit images.
- Voice recorder
- Multimedia E-mail
- Seamless connectivity
- PC Card slot Type II
- CE Windows Version 2
- Optional docking station



Call for latest prices

HP200LX PALMTOP PC

- 2MB & 4MB versions
- 80 columns by 25 lines
- MS DOS 5.0
- Complete suite of built in applications
- PCMCIA Version 2 Type II
- 40 hours on 2 x AA alkaline batteries



2MB - £299
4MB - £399

PC Cable	£19	2 Year Extended Warranty	£42
Mac Cable	£19	Palmware	£45
Connectivity Pack	£67	Printer Adaptor	£45
Leather Case	£25		
AC Adaptor	£29		

USR PALM PILOT

Stores thousands of addresses, phone and fax numbers, hundreds of To-Do lists and personal notes and dozens of e-mail messages. The backlit screen lets you see it all easily.

- Seamless synchronisation with a desktop
- Find information instantly
- Long battery life
- Intuitive easy-to-use interface with accurate pen recognition
- Optional SnapOn GSM adaptor enables you to update your schedule, access your e-mail and synchronise all your data wherever you are



GSM adaptor for Palm Pilot. £99

Professional - £213
Personal - £159

TORNADO PSTN + GSM + ISDN



- Supports Nokia, Motorola, Siemens and Sony
- Runs under Windows '95 and NT
- Automatically switches from PSTN to GSM and ISDN
- Approved in 27 countries worldwide

£369

PC CARDS

Argosy CD-ROM	
6 Speed	£169.00
8 Speed	£189.00
10 Speed	£204.00
Game Card Joystick	£45.00
Colour Handy Scanner	£149.00
Actiontec SCSI	£89.00
Smart Serial Port	£99.00

OPTION GSM CELLULAR + PSTN

Works with Nokia, Ericsson, Panasonic, Sony and Siemens handsets.

- Choice of handset
- GSM speeds upto 9600
- 14.4 or 33.6
- GSM or PSTN
- Supports SMS
- Internal line interface
- Effortless installation and auto-configuration

GSM Only
£129



GSM-33.6
£219

NOKIA 9000

- Digital cellular phone
- Cellular Data/Fax modem
- Personal Internet access terminal
- Messaging terminal (SMS, DTMF and business cards)
- Personal organiser



£199

When including Connection to Orange network

PICO PORTFOLIO

- PICO in handheld market for 11 years
- Designed and developed Atari Portfolio and Sharp PC 3000
- Comprehensive range of Palmtops
- Specialists, We know our products.
- Independent advice
- Match products to your requirements
- Software development for corporate applications
- We simplify your choice

SIMPLE COMPACT FLASH

Works with Psion Series 5, HP 300/320LX, all CE machines (except Philips Velo) and most digital cameras. No battery required.

4MB Compact Flash	£59.00
8MB Compact Flash	£84.00
12MB Compact Flash	£129.00
16MB Compact Flash	£164.00
32MB Compact Flash	£279.00

PCMCIA MEMORY

256KB SRAM	£34
512KB SRAM	£69
1MB SRAM	£99
2MB SRAM	£184
5MB ATA Flash Card	£139

10MB ATA Flash Card	£199
20MB ATA Flash Card	£349
30MB ATA Flash Card	£549
40MB ATA Flash Card	£659

OTHER HANDHELDS

HP Omnigo 700 £589 Apple Newton 2000 £679

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CTX EZ SHOW



The 3 data & video projectors in the CTX range only weigh 4.5Kg, offering the lightest solution for the travelling executive and mobile presenter. They project at a brightness of 250-350 ANSI lumens for 'Lights On'

ONLY 4.5KG

presentations producing a 60" image at 2 metres. CTX EzShow provide great resolutions & high definition images. The unit will arrive 'ready-to-go' with shipping box & hard carry case, 4 bulbs and a remote control with full controls including zoom.

Colours 16.7 million colours
Video NTSC/ PAL / SECAM
Dimensions 26.7cm x 15.3cm x 40.7cm
Audio Built-In
Warranty 2 year full Parts and Labour

CTX EzShow 500 (640x480) 250ANSI	£1499
CTX EzShow 550 (800x600) 270ANSI	£2195
CTX EzShow 550M (800x600) 350ANSI	£2750
CTX EzShow 600 (800x600) 500ANSI	£3395

INFOCUS 720

The Infocus 720 is very portable at only 5.4kg. It has all the features for the future with 450 ANSI Lumens and true 800x600 resolution and the facility to compress to 1024x768 resolution. July 97 Editor's Choice PC Magazine.



Infocus 720	£3995
Infocus 730	£5995

SANYO 5505

The Sanyo 5505 video and data projector combines polysilicon technology with 800x600 resolution and 500 ANSI lumens to produce razor sharp, brilliant images in well-lit rooms. The unit comes with a power focus zoom lens giving you flexibility to place it at any distance in the room.



LCD Panel 800x600 Polysilicon
Brightness 650 ANSI Lumens
Colours 16.7 million colours
Video NTSC/PAL/SECAM x 2
Weight 7.5Kg
Dimensions 29.6cm x 45.9cm x 14.9cm
Accessories Pointing device as standard

POLYSILICON TECHNOLOGY

Sanyo 5505 (800x600) 650ANSI	£3295
Sanyo 8805 (1024x768) 450ANSI	£5395

HITACHI CPL750

The CPL550 (640x480 resolution) and the CPL750 (800x600) Hitachi Video data projectors have stunning brightness with 500 ANSI lumens, the display on both models is incredible in bright rooms. With Polysilicon technology the projectors will astound and add to every corporate presentation and training session. The other unique feature about this model is that it includes 2 video and 2 VGA outputs.



500 ANSI

Colours 16.7 million colours
Video NTSC/ PAL / SECAM
Weight 7.5Kg
Dimensions 32cm x 17cm x 46cm
Audio Built-in
Warranty 2 year RTB Warranty Plan including Parts and labour
Accessories Remote Mouse as standard

Hitachi CPL 550 (640x480) 500ANSI	£2450
Hitachi CPL 750 (800x600) 500ANSI	£2995
Hitachi CPL 850 (800x600) 700ANSI	£3395

ASK A4 & A6

300:1 CONTRAST RATIO

5Kg



The lightest, brightest and fastest data & video projector available today. Designed with the mobile presenter in mind at only 5KG and a massive 500ANSI lumens of power. The A4 has the highest contrast ratio of them all at 300:1 and leaves your audience with a lasting impression. The A4 has a power zoom lens, PC Mouse control, reveal functions, four high output speakers and up to 6 sources can be attached simultaneously.

ASK A4 (800X600)	£3795
ASK A6 (1024X768)	£5775

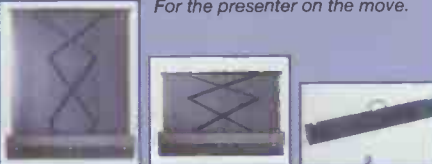
PICO EXECUTIVE SALES KIT



ASK A4 + PICO Mobile Executive Includes Scala 100 & laser pointer £5100

THE MOBILE SCREEN

For the presenter on the move.



5' Screen	Only £299.00
6' Screen	Only £329.00

AUDIO VISUAL

ASK 970

With true 1024x768 resolution and 400 ANSI lumens, the ASK 970 projector has been designed to deliver the ultimate in high resolution projection. With the facility to work with PC, MAC, workstations and video, the Ask 970 is perfect for CAD/CAM applications. The unit can be ceiling mounted which is perfect for boardroom installation.



Colours 16.7 million colours
Lamp Metal Halide
Weight 12.5 kg
Dimensions 32.2cm x 24.5cm x 63.8cm
Accessories Bat Mouse as standard
Warranty 2 year RTB warranty parts and labour

1024X 768

ASK 970 (1024X768) 400ANSI	£4250
ASK A6 (1024X768) 5Kg	£5775
ASK 8300 (800X600)	£3175

PHILLIPS PRO SCREEN 4600

The Phillips Pro Screen 4600 has the new LIMESCO function (Line Memory Scan Converter). it uses metal halide bulbs which have a life span of up to 6000 hrs, ensuring excellent projection after months of intensive use, with 450 ANSI and 16.7 million colours.



UP TO 6000 HRS LAMP LIFE

Phillips 4600 (800X600)	£3995
Phillips 4100 (800X600)	£3395
Both models include Scala 100 & soft carry case	

SPECIAL AV EQUIPMENT

GyroPoint

A unique mouse remote that works at up to 22 metres



GyroPoint Mouse £219.00



KNDERMAN TRUE SXGA (1280X1024) VIDEO/DATA PROJECTOR FOR LESS THAN £10,000

PICO Mobile Projector Trolley

A TV and Video trolley. If you have long corridors to travel!

PICO Mobile trolley £299.00

Hire option for projectors starting from £75.00 per day
Up to 1 week of hire charges fully refundable against any projector purchase - The ultimate in try before you buy.

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TAKE YOUR PRESENTATION ON THE ROAD!

A notebook incorporating a built-in panel for overhead projector presentations



The scene is familiar, the routine too - an ordinary conference room, a normal overhead projector, a group of potential customers expecting the normal type of presentation

You open your Showman Pro, unclip the screen, place it on the stand supplied adjusting the height to the overhead projector and start the show. This unique notebook makes it easy to put your facts and figures across in new and attention grabbing ways. Your project comes alive, in sharp VGA resolution and full colour.

You can use animated bar diagrams to illustrate the basic figures and intersperse them with real pictures and computer simulations fed in from CD-ROM. All jerk free, with a palette that runs to thousands of colours and with the quality only possible from a 12.1" TFT display. Your Showman helps you communicate your vision vividly and convincingly.

SHOWMAN 8600/9600 SERIES

Specification

- In-built TFT overhead projector tablet with 12.1" SVGA
- Intel CPU upgradeable from P133 to P233MMX multimedia
- 128bit Video graphics with MPEG as standard for full screen video presentation
- 32MB EDO RAM as standard expandable to 128MB
- 11/16 Speed CD ROM built-in with 3.5" 1.44MB floppy drive
- 2.1GB Hard Drive upgradeable to 3GB and beyond
- 86 key Win '95 keyboard with multi language options
- USB, serial, IrDA, CRT, parallel ports
- PS2 KB & mouse port, docking slot, ZV port & card bus
- 512KB L2 Pipeline Burst Cache RAM
- PCMCIA slots: 2 x Type II or 1 x Type III
- 16 bit 3D sound with speakers, headphone microphone line in & line out
- Autoswitching mains charger
- Smart battery
- Built-in touch pad
- Firm carry case with fan & stand
- TV NTSC output
- Slimline design: only 53mm & 3.3KGs
- CD & FDD exchangeable for 2nd battery or 2nd HDD
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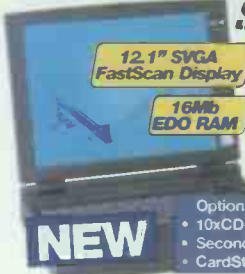
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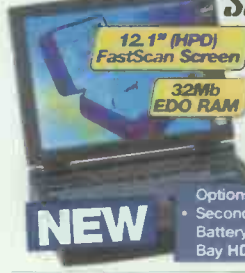
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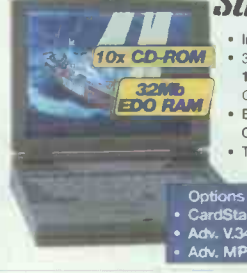
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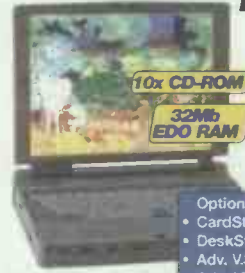
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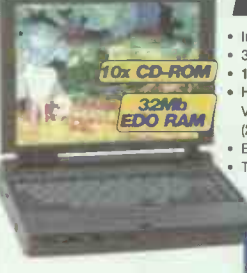
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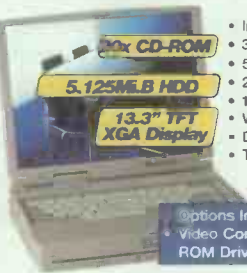
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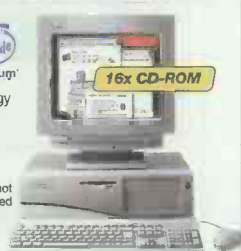
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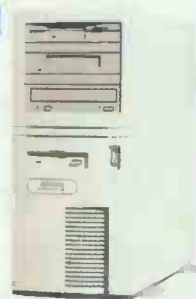
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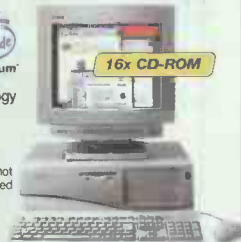
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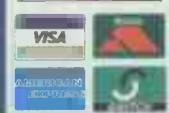
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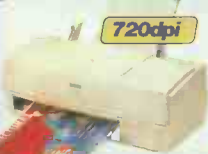
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- High Resolution Laser Printing
- Fast Performance
- Faster Business Performance enhances Productivity
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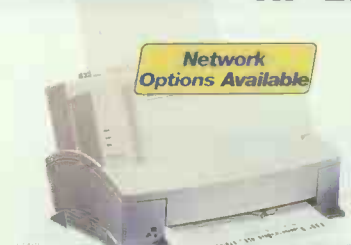
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- Up to 1.5ppm (Colour)
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HP DeskJet 670C
£119 Ex VAT
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HP LaserJet 5



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- Up to 12ppm Black
- 600 x 600dpi Resolution
- Built-in JetDirect card for Ethernet Networks
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- 100 Sheet Multi-Purpose Input-Output Trays

HP LaserJet 5
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HP DeskJet 890



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- Up to 9ppm Black text
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- Up to 600 x 600dpi Colour Resolution

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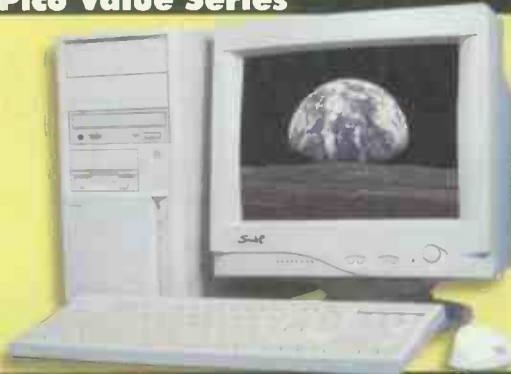
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- Mini Tower Case

	166MHz	200MHz	166MHz MMX	200MHz MMX	233MHz MMX	
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CYRIX	£492.33	£499.38	£504.08	£551.08	£656.83	Inc.
AMD			£429.00	£479.00	£519.00	Ex.
			£504.08	£562.83	£609.83	Inc.

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Creative Labs Sound Blaster AWE 64 Sound Card With 64 Voices.	£49.00	£57.58	TV Tuner		
			Turn Your PC into a TV With a Hauppauge TV Tuner Card With Teletext.	£79.00	£92.83

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AMD			£689.00	£639.00	£679.00	Ex.
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6x Read 2x Write CD Rewritable Kit With Media.	£299.00	£351.33	EDO Memory Upgrade From 32MB - 64MB	£70.00	£82.25
Sound Card			Hard Drive		
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Creative Labs Sound Blaster AWE 64 Sound Card With 64 Voices.	£49.00	£57.58	Turn Your PC into a TV With a Hauppauge TV Tuner Card With Teletext.	£79.00	£92.83

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- ATI Expert@Work 8MB SGRAM AGP Video Card
- Keytronics Keyboard and Microsoft Mouse
- ATX Midi Tower Case

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	£2172.58	£2290.08	£2466.33	Inc.
DUAL	£2149.00	£2349.00	£2699.00	Ex.
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	£65.00	£76.38	Zip Drive		
			Intel EtherExpress 10/100 Mbits PCI Network Card.	£43.00	£50.53
Sound Card			ISDN Terminal Adaptor		
Creative Labs Sound Blaster AWE 64 Sound Card With 64 Voices.	£49.00	£57.58	100MB Internal Iomega Zip Drive.	£82.00	£96.35
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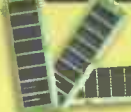
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ME9	16MB 72Pin EDO SIMM	£30.00	£35.25
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AT Layout - 430TX Chipset
 512K Cache

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MB84	Asustek TX97 430TX	£99.00	£116.33
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SZ22	6.4GB Quantum Fireball ST	£279.00	£327.83
SZ44	9.1GB Micropolis Tomahawk	£599.00	£703.83
SZ58	9.1GB Fujitsu Ultra Wide	£609.00	£715.58
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Video Cards



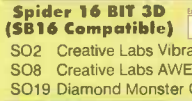
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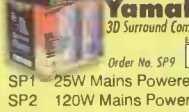


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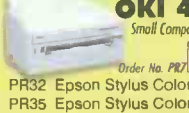
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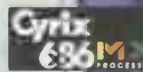
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- PS/2 mouse
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- PS/2 mouse
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- 32 MB SDRAM
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- 3.2 Gb Ultra ATA IDE HDrive (Mode 5)
- 24X CD-ROM Drive
- SoundBlaster AWE 64 Value Sound Card
- 1.44 Mb 3.5" Floppy Drive
- 2 Fast serial (UART 16550) ports
- PS/2 mouse
- Win 95 keyboard (105keys)
- Mini Tower Case
- MS Windows 95 v2 (CD with manuals)
- Lotus SmartSuite 97
- 2 Year Warranty (FREE 1 Year On-Site Contract)

Cyrix 166MMX	£959	£1126 inc VAT
Cyrix 200MMX	£979	£1150 inc VAT
K6 166 MMX	£1049	£1232 inc VAT
K6 200 MMX	£1099	£1291 inc VAT
K6 233 MMX	£1199	£1408 inc VAT
PI66 MMX	£1049	£1232 inc VAT
P200 MMX	£1119	£1314 inc VAT
P233 MMX	£1199	£1408 inc VAT

Proforma PowerServer

- Intel Pentium II MMX Processor
- Intel Triton 430TX Chipset- ATX M/B
- 512K Pipeline Burst Cache
- 64 MB EDO RAM
- 2Mb 64Bit PCI SVGA Card
- 14" 0.28 SVGA Monitor
- 4.3Gb Ultra Wide SCSI Hard Drive
- 24X CD-ROM Drive
- Adaptec 2940 SCSI Controller
- 100MB Zip Drive (internal)
- 55.6K Internal FAX/Modem
- 10/100 TX UPT Network Card
- 1.44 Mb 3.5" Floppy Drive
- SPP/EPP/EPC Printer port
- PS/2 mouse
- Win 95 keyboard (105keys)
- Full Tower Case
- Windows NT Workstation 4 or Win95
- 1 Year On-Site Warranty

FREE NETWORK CONSULTANCY

PII 233 MMX	£2199	£2583 inc VAT
PII 266 MMX	£2315	£2720 inc VAT

Dual Processor Systems

PII 266 MMX	£2599	£3053 inc VAT
PII 266 MMX	£2765	£3248 inc VAT

Call for Upgrade Prices

ICE TravelBook 6200 & 7200

ICE systems present the highly acclaimed 6200 series notebook. With user upgradable CPU, Ram and cache. Optional port replicator for easy mobile-to-office use. The New 7200 Series features a 13.3" TFT screen, infra red port, built-in 16X CD ROM, Removable HD & long life Duracell battery. Call for details.

- Intel Pentium® MMX Processor
- 12.1" TFT Active/Dual Scan Colour Display
- SVGA 800 x 600 Resolution
- 32MB EDO RAM
- 1.4Gb Hard Drive
- 16x Speed CD ROM Drive
- 1.44 Mb 3.5" Floppy Drive
- 3 x Type II PCMCIA Slots
- User removable FDD interchanges with optional 2nd battery pack



Dual Scan Display 12.1"

PI66 MMX	£1149	£1350 inc VAT
P200 MMX	£1249	£1467 inc VAT

TFT Active Matrix Display 12.1"

PI66 MMX	£1449	£1702 inc VAT
P200 MMX	£1549	£1820 inc VAT
P233 MMX	£1649	£1937 inc VAT

Reasons Why People choose ICE Systems

10 DAY MONEY BACK GUARANTEE

We are so confident that you will be satisfied with our products and services, that we offer a 10 days exchange or money back guarantee.

LONG TERM UPGRADABILITY

Protect your investment. All ICE Systems are designed for maximum future upgradability.

FINANCING AND BUSINESS LEASING AVAILABLE-

Call for Details. Finance subject to status

ICE GOLD ON-SITE WARRANTY

All ICE systems come with a 2 year warranty. 1st Year On-Site warranty Parts & Labour, following 1 year labour only RTB (excl. monitors).

FRIENDLY PROFESSIONAL ADVICE

Speak to one of our computer engineers for free unbiased advice, ensuring you get the right system for you.

Call NOW to Order Your High Performance System
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Sales Tel: 07000 423 797 • Technical Support Tel: 01727 769 691 Fax: 01727 769 548

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Sales HOTLINE open Mon.-Fri. 10-5pm
All systems dispatched by national courier.



We Accept All Major Credit/Debit Cards
Cash or Cheques also welcome
3% Surcharge on all Credit Cards



The High Performance People

www.icetechnology.co.uk



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Special Christmas 1997 Offers

All Offers End 31st Dec

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0%

Interest Free Credit

Expert Advice And
Special Offers From The

UK's N°1

Direct Computer Supplier To
Homes And Small Businesses

Order by
15th Dec
for Christmas



Money Back Guarantee

All Time Computer systems are provided with a 100% money back guarantee. If you are not fully satisfied with your PC system you can return it to us for a full refund (excluding carriage).

The Family PC Exec For Only

- 166MHz with MMX Technology
- 32Mb EDO RAM
- 4.3Gb Hard Disk
- 24x CD-ROM
- 3D Wavetable Sound
- 4Mb SIS Graphics
- FREE Printer

Plus A Lot More...

£ **29** Per Month
2 Years Interest Free Credit

See Back Page For Full Details
See Inside For Ordering Information

Freephone Time Now

0800 77 11 07



TIME

COMPUTER SYSTEMS

Buy With **Confidence** From **Time**

UK's Leading PC Supplier For 10 Years

Time Computers have been established as one of the UK's leading PC suppliers for over 10 years with many hundreds of thousands of satisfied customers. We supply more PC systems direct to home users than any other UK company.



Time Computers HQ is situated in the Ribble Valley near the M65 & M66 motorway network

Buy Direct From The Manufacturer - No Middlemen!

Time Computers and our sister companies (Colossus and Omega) manufacture all the PC systems we sell. This means that your PC has been designed, manufactured, configured, delivered, supported, serviced and, if necessary, upgraded by the same company. We take total responsibility.



Direct support and service staff will provide help when needed

Designed For Home And Small Business Buyers

Our direct relationship with customers allows us to fully assess customer needs and design these features into our products. All our systems come with a 90 minute video user guide, comprehensive, yet easy to follow documentation and are ready to use with appropriate pre-loaded software.

Pre Sales Advice

Our knowledgeable sales staff are fully trained on all the latest technology available within the PC industry and are on hand to answer all your questions. They will discuss your specific requirements, provide free expert advice on the system most suitable for your needs and recommend how you will get the best out of it.

Full Service, Support And Warranty

We have over 700 staff all dedicated to providing the best quality and service. We offer comprehensive direct hotline hardware support in addition to support via our 42 showroom service centres nationwide.



One of the Time Computer Systems testing and configuration areas

Repair And Upgrade Facilities

As well as local service centres, we have fully equipped in-house central facilities to repair all the systems we sell. This ensures a fast turn around should your system ever develop a fault. Our upgrade service will enable you to keep your system future-proof by installing new processors, more RAM and larger storage devices.

Buy Now... Pay June '98 Interest Free Credit



Most models can be purchased on interest free credit. You can pay just 10% deposit with 6 months interest free credit - see examples shown.

Money Back Guarantee



We endeavour to provide complete customer satisfaction, and you may, for whatever reason, return your PC complete to us within 14 days for a full refund (excluding carriage costs). This limited 14 day money back guarantee is in addition to your statutory rights.

How Can We Offer Such Amazing Value?

Compare the quality, specification, features and prices of our systems with consumer systems from other suppliers in the world. We can offer such amazing value for several reasons:

We Only Supply PC Systems We are focused and very efficient at manufacturing and supplying PC systems. We do not supply other electrical goods.

We Get Better Value From Suppliers Our huge buying power, together with the fact that we promote suppliers brands and software in our advertising allows us to negotiate very low prices on the top quality components and software.

We Move Faster Our flat overhead structure, centralised resources, family culture and focus on the UK PC industry enables us to deliver more suitable products for UK consumers than the slow moving, big

multinationals. VideoPhone, voice recognition and PC-TV are just some examples.

You Can Come And See Us Unlike some direct suppliers, who are actually based overseas with redirected UK telephone numbers, we have 42 showrooms/service centres nationwide. These are located primarily in retail parks with easy access, where you can come and have a face to face chat with one of our PC specialists.

No Old Technology Because PC technology is moving at a rapid pace, a PC system may depreciate whilst sitting in a retail store. We commence building your system on the day you place your order and aim to have it delivered to you within a few days. This ensures you receive the latest technology and the best possible price.

No Middleman We manufacture and supply direct so you do not have to pay the extra 20% to 30% margin of the large electrical retailers. Our systems are therefore higher spec but cost much less!

How To Order

Choose Direct Or Retail

Order your PC direct by calling on 0800 771107 now for quick delivery or alternatively visit one of our 42 showrooms located nationwide, all fully staffed with PC specialists.

Direct Freephone Order Line
0800 771107

Direct Sales Order Line

01282 777 111 use if Freephone is engaged

Upgrades No - 01282 77 99 78

Head Office - Granville House, Blackburn Rd, Burnley, Lancashire. Fax: 01282 77 07 01

Retail Showroom Locations

Aylesbury - Unit 2 Cambridge Close, Cambridge Retail Park, Aylesbury. Tel: 01296 436767

Banbury - 2 Lockheed Close, Banbury Retail Park, Banbury. Tel: 01295 279585

Basildon - Unit 6B, Mayflower Retail Park, Arterial Rd, Basildon. Tel: 01268 282526

Blackburn - Unit 6, Whitebirk Trading Estate, Peel Centre, Hyndburn, Blackburn. Tel: 01254 693303

Bracknell - Unit 6B, Skimpedhill Lane Retail Park, The Peel Centre, Bracknell. Tel: 01344 486353

Brentwood - 81/85 High Street, Brentwood. Tel: 01277 263541

Bristol - Unit 2, Block C, Lysander Rd, Patchway, Cribbs Causeway, Bristol. Tel 0117 950 2076

Cambridge - The Bee Hive Centre, Coldhams Lane, Cambridge. Tel: 01223 360899

Cannock - Unit 10, Orbital Retail Centre, Cannock. (Open 26th November)

Canterbury (Opening Soon)

Cardiff - Unit 1G, Surrey Road, Cardiff Bay Retail Park, Cardiff. Tel: 01222 232 453

Cardiff - Newport Road, Cardiff (Open 18th Dec)

Chippenham - Unit 3B, Hathaway Retail Park, Foundry Lane, Chippenham. Tel: 01249 461230

Coventry - Unit 3, Gallagher Retail Park, Stoney Stanton Rd, Coventry. Tel: 01203 663588

Dagenham - Unit 3, Merrilands Retail Park, Ripple Rd, Dagenham. Tel: 0181 517 2785

Derby - Unit 2, The Kingsway Retail Park, Derby. Tel: 01332 349443

Gateshead - MetroCentre, Unit 6, Cameron Walk, Red Quadrant, Gateshead. Tel: 0191 461 0942

Glasgow - 34-38 Sauchiehall St, Glasgow. Tel: 0141 331 0573

Guildford - Ladymead Retail Park, Europa Park Rd, Guildford. Tel: 01483 562448

Hayes - Unit 4 Lombardy Retail Park, Cold Harbour Lane, Hayes. Tel: 0181 573 1531



Time Computer Systems Glasgow
showroom one of 42 showrooms nationwide

Hedge End - Unit 1, 27 Hedge End Retail Park, Toll Bar Way, Southampton. Tel: 01489 795975

Hull - Ferensway, Hull (Open 11th Dec)

Huntingdon - Unit B, Huntingdon Retail Park, St Peters Rd, Huntingdon. Tel: 01480 459392

Ipswich - Unit 3, Sandlings Retail Park, Ransomes Way, Ipswich. Tel: 01473 729308

Kettering - Unit 5, Kettering Retail Park, Carina Road, Kettering. Tel: 01536 519813

Leeds - Unit 13, Crown Point Retail Park, Leeds (Open 12th Dec)

London - Unit 2, Humphrey St, Southwark, London. Tel: 0171 394 7315

Northampton - Riverside Retail Park, Northampton. Tel: 01604 415018

Norwich - Unit 1, Blackberry Court, Sweetbriar Rd, Norwich. Tel: 01603 484752

Poole - Unit 3, Manning Heath Retail Park, Yarrow Rd, Poole. Tel: 01202 743138

Preston - Unit 5, The Capitol Centre, London Way, Preston. Tel: 01772 562370

Sheffield - Unit K, Meadowhall Retail Centre, Sheffield (Open 4th Dec)

Slough - 300 Bath Rd, Slough. Tel: 01753 534636

Solihull - Unit 3, Sears Retail Park, Marshall Lake Rd, Solihull. Tel: 0121 733 1936

Southampton - Unit 4, Nursling Ind Estate, Southampton. Tel: 01703 740693

Stevenage - Roaring Meg Retail Park, Monks Wood Way, Stevenage. Tel: 01438 741435

Stoke - Festival Park, Etruria, Stoke. Tel: 01782 279895

Swindon - Unit 4, Greenbridge Retail Park, Drakes Way, Swindon. Tel: 01793 434112

Tamworth - Unit H, Ventura Retail Centre, Bitterscott, Tamworth

Telford - 125 Ashdown Lane, Telford Shopping Centre, Telford. Tel 01952 291 372

Watford - Unit 10, Asda Shopping Centre, St. Albans Rd, Watford. Tel: 01923 247535

Worcester - Unit C, Elgar Retail Park, Blackpole, Worcester. Tel: 01905 757947

- ▲ Time Computer Systems Showrooms
- Time Computer Systems Showrooms located within the Superstores of **POWERHOUSE**
- ▲ Time Computer Systems Showrooms Opening Soon



IMPORTANT Ordering Information And Conditions Of Sale

Send no money now. Please phone or visit your local showroom. Prices are shown both without and with VAT and exclude delivery charge which varies with destination. UK Mainland courier delivery charge (excluding scottish highlands) is £25 +VAT = £29.38. Showroom prices that are

shown as "Total Price" will include the stated delivery charge. Prices and specifications are subject to change. Goods subject to availability and to our conditions of sale copies of which are available on request. Systems normally delivered within 7 to 14 days. All goods will be delivered within 28 days unless otherwise specified. Depending on application, software packages are pre-loaded or supplied on CD with on-line help.

There is a printed software guide covering the pre-loaded software. Traditional manuals and retail packs not supplied - pack shots are shown to illustrate the software only. In the PC industry, screen sizes are measured using the CRT tube size; thus the visible diagonal on a 14" screen may only be 13". All offers are limited by quantity or date. All trademarks

acknowledged. Intel Inside and Pentium are registered trademarks and MMX is a trademark of Intel corporation. PC Buyer, Compass and Time Logo are trademarks of Time Computer Systems Ltd. E&OE.

Choosing The Right PC

Look For These Features



Fast MMX Processors

Select 200M, 200M-2, 233M, 266-2 and 300-2 systems with the fastest Intel® Pentium® MMX™, Intel Pentium® II and IBM MX processors, all featuring MMX™ technology and 512K pipeline burst L2 cache. Why consider slower 166MHz MMX or obsolete non-MMX processors?



64Mb or 32Mb RAM

To deliver the best performance when running programs. Remember a 64Mb 200MHz MMX™ system is faster than a 32Mb 233MHz MMX™ system. Why even consider slower 16Mb systems? Specify a minimum of 32Mb RAM.



4.3Gb or 6.4Gb Hard Disks

Ultra ATA interface for high speed (almost twice the maximum data transfer rate of EIDE) and massive capacity for all your storage needs. Lack of hard disk space is a common reason for upgrades and you should ask for at least 4.3Gb to ensure your system is more future-proof.



56K Voice Modem

Fast 56K Rockwell chipset modem with full voice-mail, fax, data and Internet facilities. Flash upgradeable for future-proofness with hardware chipset (software based 'WIN Modems' use processor power and may slow down your system). Fast speed saves telephone charges. Specify a 56K modem with hardware chipset that is flash upgradeable.



24 Speed Max CD-ROM

24 Max CD-ROM delivers up to twice the maximum speed of 12 speed CD drives to load and run programs faster, along with autorun and audio CD play capabilities. Cheaper 12 speed and 16 speed drives are now end of life.



3D Wavetable Sound

The best quality ESS or Creative Labs 3D stereo sound with Wavetable synthesis software and quality mains powered speakers.



Superb Graphics And Displays

4Mb ATI Rage II+ DVD 3D, Advanced SIS using 4Mb, or ATI AGP 8Mb graphics together with crisp sharp 0.28dp screens provide the best displays. 4Mb or more for display gives higher resolutions, better colour and faster displays than 2Mb.



ATX System Designs

ATX system designs increase reliability, ease of upgrades, future-proofness and easy connectivity with USB and other ports. Specify ATX system design which is the standard of the future.



Latest Chipset Motherboards

The latest Intel 430TX, SIS 75MHz bus TX compatible, and Intel 440LX chipset based motherboards with PC'97 features including advanced power management, standby/resume and improved performance. Older Intel VX chipset motherboards may not include these new features.



VideoPhone Receive

Colour video camera interface and videophone software included to receive incoming video broadcasts. Optional colour video camera enables full send and receive facility. Videophone will be a standard feature in PCs of the future. Ensure your PC has a dedicated video camera interface.



Systems From **Time** Include Most Of These **Features** As Standard!

PC-TV System And Teletext

233 and higher models also function as a high resolution colour TV with full-feature down-loadable Teletext.



Voice Recognition

IBM VoiceType Simply Speaking GOLD is pre-loaded which together with the optional microphone allows you to command your PC and dictate virtually into any Windows 95 program!



Full Protection

Complete with Recovery Disk which restores factory settings and IBM AntiVirus software pre-loaded.



Best Business Software

Lotus SmartSuite 97 PLUS 8 pre-loaded packs including word processor, spreadsheet, database, graphics, organizer, e-mail and more.



General Software

Desktop publishing, art, design and drawings, home utilities and personal finance.



Educational/Home Software Option

Top quality CD software bundle with EXEC models includes 13 CDs covering all aspects of educational, home and general PC usage.



Interest Free Credit Option

All models are available on 6 months Interest Free Credit Option. Simply pay 10% deposit and the rest within 6 months INTEREST FREE! See example shown.



Joystick And Microphone Headset Option

Quality PC joystick and microphone headset are included with EXEC models.



Digital Photography Ready

Simply attach the optional colour digital photographic camera to the COM 1 port on these systems to download, manipulate and printout your photographs.



Games Bundle Option

Games bundle option includes 6 chart topping best sellers including RAC Rally, Theme Hospital, FIFA 97, PGA Golf, Magic Carpet 2 and Command & Conquer.



Easy To Set-Up And Use

Complete with comprehensive 90 minute video user guide, beginner's getting started sheet and detailed documentation folder.



Compass™ Menu System

Intuitive front end menu system with built-in security on the best selling 200M-2 models shields new users from complexities of the operating system and provides password protection for other users, including children with different levels of access.



Money Back Guarantee

All Time Computer systems are provided with a money back guarantee. If you are not completely satisfied with your PC system you can return it to us within 14 days for a full refund (excluding carriage). Buy with confidence.



Time Delivers Real Benefits From The Latest Technology

The PC systems on offer incorporate some of the most advanced technology available. Time Computers have also incorporated ease of use and applied the latest technology to deliver real benefits for home and business users.

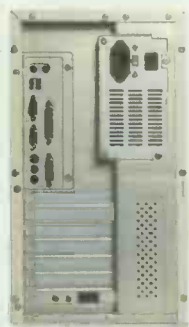
Processors

Intel® Pentium® processors with MMX™ technology include all the features of the standard Pentium® plus the ability to run software designed for MMX™ at a faster rate. They also include 32K internal cache so that even standard software runs faster. The Pentium® 166MHz with MMX™ runs standard software faster than the Pentium® 200MHz without MMX™. We offer the even faster Pentium®

200MHz MMX in our entry level 200M system and 233MHz version in our 233M system.

Intel Pentium® II processors are based on the Pentium® Pro

ATX design showing mounted ports and plenty of room for expansion.



processor and are more suited to business use. However, they also include MMX™ technology and provide the fastest performance for both multimedia and business. We offer 266MHz and 300MHz models in our "Ultimate" systems.

The new IBM/Cyrix 6x86MX processors with MMX™ technology provide similar performance to the Pentium® II at much lower prices and also include MMX™ technology. The most popular are the 6x86MX 166, 200 and 233. These processors can also run at a faster motherboard bus speed of usually 75MHz.

ATX System Designs

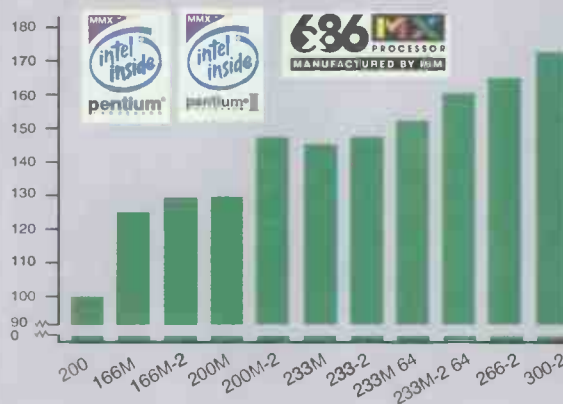
The new generation of ATX cases provide significant advantages over standard cases which enhance upgradeability and system cooling. Our most popular models come as midi tower cases and provide 7 drive bays. Most ports are mounted directly on the motherboard without using any of the expansion slots. The end result is greater reliability, easier maintenance and expandability.

ATX PC '97 Motherboards

Many models use the latest ATX motherboard with Intel 430TX chipset supporting key PC '97 design features including advanced power management. Some models also use the latest advanced SIS598 chipset motherboard which has all the features of the 430TX chipset and even higher performance, plus the additional capability of supporting a wider range of bus speeds and wider processor support.

Relative System Performance

Compare system performance at a glance



Please Note

The 64Mb 200M-2 system using 6x86MX processor with MMX™ technology is faster than the 233M and 233-2 systems using Intel 233MHz Pentium® processor with MMX™ and Pentium® II 233MHz processors. The 200M-2 also benefits from running at a faster motherboard bus speed of 75MHz.

The chart shows the relative system performance as measured against our P200 system using Intel Pentium® 200MHz processor, 16Mb RAM and 256K cache. (P200 = 100%). The data is based on industry standard Ziff-Davis Winstone 97 benchmarks.



Using a digital camera is just the same as using any standard camera, you can view your pictures on screen and print them out, all without the need for film processing



VideoPhone allows visual video broadcast calls over standard telephone lines.



PC-TV with Teletext

233MHz and faster systems include PC-TV tuner which delivers all the benefits of a standard TV with ability to run in a sizeable window or full-screen. The advanced Teletext facility allows the system to cache all the Teletext pages within a minute allowing fast searches. Unlike the Internet, all this data is free as there are no telephone charges.

Speech Recognition

EXEC WinStation and Time Machine models include a microphone and together with the pre-loaded IBM Simply Speaking GOLD voice recognition and dictation software allow you to control many Windows 95 functions and dictate virtually into any Windows 95 application.

VideoPhone

VideoPhone allows visual video broadcast over standard telephone lines. Instead of using the phone you use your PC fitted with appropriate modem, sound, microphone, camera, video capture and video conferencing software. VideoPhone receive only systems are configured with appropriate hardware and software to receive standard video broadcasts. By purchasing the optional camera and microphone these can also send video broadcasts and thus have full videophone capability.

Compass™ Menu System

200M-2 Home Offices models come pre-loaded with the Time Compass front end menu system with built-in security and password protection. This gives you the option to use all the main features of the systems from a simple menu without learning the complexities of the operating system and provides protection from other users including children with different levels of access. The system resembles a house with many rooms containing different applications which can be launched at the press of a button.

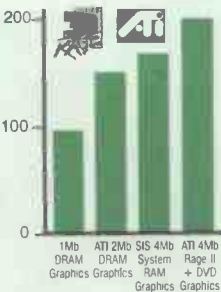


High Performance Graphics

ATI is the leader in high performance 3D graphics and many of our systems now include the latest ATI Rage II+ DVD 3D graphics processor with 4Mb dedicated video RAM and the fastest graphics handling we have ever seen. SIS

Advanced Graphics system incorporates elements of the AGP (Advanced Graphics Port) design with the graphics chip directly addressing system RAM and avoiding PCI bottleneck. These systems can address 4Mb system RAM for Video to provide superb colours at high resolutions.

Relative graphics performance as measured by Ziff-Davis Graphics Mark 97 benchmarks (1Mb card = 100%)



Digital Camera Photography

Our PC systems have been designed to work with the latest digital photography cameras. Select the required camera option and simply connect to the COM1 port to download photographs to the PC. Advanced software allows manipulation, storage and printing of these photographs.



Command many Windows 95 functions and dictate virtually into any application

Home Office PC

Ideal for home and small business use



200M-2 model with
Compass menu
system shown

FREE 56k Modem

First 1500 Orders Only

FREE 56K voice modem included with PC package converts your PC into a powerful fax machine, allows fast Internet connection with electronic mail (e-mail), data communications and full-feature voice mail facilities (limited offer).





Interest Free Credit Available On All Models

Example 200M-2: Pay the whole amount now for fast delivery or pay just £124.50 (10% deposit) and then nothing to pay for 6 months. After 6 months pay the rest. Total price = cash price = £995 + £25 delivery + VAT = £1198.50 inc. VAT. APR 0% only if loan fully repaid within 6 months.

Finance also available over longer period of 2.5 years at APR 23.9%. Finance is subject to status. Written details are available on request.

Key Features Of The Best Selling 200M-2 Model



64Mb RAM

Massive 64Mb RAM enhances the performance of this system and allows smooth multi-tasking. This 64Mb 200M-2 system out-performs our 32Mb 233MMX and 233-2 Pentium® II systems.



56K Voice Modem

Latest 56K flex voice fax/data/Internet modem has all the benefits of a 33.6 voice modem plus the ability to download at speeds approaching 56k via supporting Internet providers. (Limited Offer).



64-bit 4Mb Graphics And MPEG

SIS advanced graphics using 4Mb system RAM, MPEG and Microsoft direct 3D support together with crisp sharp screens provide the ideal display.



4.3Gb Hard Disk

This massive 4.3Gb unit gives you all the storage you are ever likely to need. Includes latest Ultra ATA interface to deliver the best performance.



24x CD

High performance 24x Max CD-ROM drive delivers twice the maximum performance of 12x CD-ROM drives and allows programs to run and load faster.



3D Wavetable Sound

ESS 3D Wavetable stereo sound with 3D effects and software wavetable synthesis for the best quality.



VideoPhone Ready

Colour video camera interface and VideoPhone software included to receive incoming video broadcasts. Optional colour video camera enables full send and receive facility.



Voice Recognition

IBM VoiceType Simply Speaking GOLD is pre-loaded and together with optional microphone (included with EXEC models) allows you to command your PC and dictate virtually into any Windows 95 program!



Compass Menu System

Intuitive front end menu system with built in security on our best selling 200M-2 model shields new users from complexities of the operating system and provides password protection from other users including children with different levels of access.



200MMX Processors

The 200M system utilises the Intel 200MHz Pentium® processor with MMX™ technology giving far better performance than 166 MMX™ systems. This new 200M-2 system runs at 75MHz bus (compared with 66MHz bus on others) and is even more powerful than the 200M system plus has 64Mb RAM.

Popular Options

- **Colour VideoPhone Camera**
Special bundle price £79 +VAT =£92.83 (RRP £175.08)
- **6 Top Games Bundle**
£39 +VAT = £45.83
- **Epson Stylus Color 300 InkJet Printer**
£129 +VAT = £151.58

Buy Now... Pay June 98

Time Computers have redefined the ideal home PC. Compare the specification, features and benefits of these state of the art systems with any other consumer PC.

Our 200M system with Intel® Pentium® 200MHz processor with MMX™ technology includes graphics at just £935 +VAT on Interest Free Credit!

The new advanced 200M-2 system provides even more power and is in-fact faster than our 32Mb 233M and 233-2 Pentium® II systems due to the amazing IBM MX processor with MMX™ technology and massive 64Mb RAM. At a price of just £995 +VAT, with interest free credit, it surely is the best advanced PC deal in the UK! Order any of these systems early and also receive a FREE 56K voice modem. (limited offer).

200M

Home Office PC

- **200MMX** Intel Pentium® 200MHz processor with MMX™ technology
- **32Mb** EDO RAM
- **4.3Gb** Ultra ATA hard disk
- **24x** Max CD-ROM
- **3D Wavetable Stereo Sound**
- **SIS 64-bit Advanced Graphics** using 4Mb RAM and MPEG
- **512k** Pipeline burst cache
- **Stereo Speakers** Sound Force 525 mains powered speakers
- **14"** Screen SVGA NI 0.28dp colour screen (15" £69 +VAT = £81.08 and 17" £219+VAT =£257.33 extra)
- **ATX** midi-tower design with ATX PC'97 motherboard and 2 USB Ports
- **FREE 56K Voice Modem** with hardware chipset. Flash upgradeable

£1098.63 inc. VAT
£935 + VAT

200M-2

Home Office PC

- **200MMX** IBM 6x86MX PR200 processor with MMX™ technology
- **64Mb** EDO RAM
- **Compass Menu System**
- **4.3Gb** Ultra ATA hard disk
- **24x** Max CD-ROM
- **3D Wavetable Stereo Sound**
- **SIS 64-bit Advanced Graphics** using 4Mb RAM and MPEG
- **512k** Pipeline burst cache
- **Stereo Speakers** Sound Force 525 mains powered speakers
- **14"** Screen SVGA NI 0.28dp colour screen (15" £69 +VAT = £81.08 and 17" £219+VAT =£257.33 extra)
- **ATX** midi-tower design with ATX PC'97 motherboard and 2 USB Ports
- **FREE 56K Voice Modem** with hardware chipset. Flash upgradeable

£1169.13 inc. VAT
£995 + VAT

Both Systems Include

- **Software Bundle** SmartSuite 97 (6 packs), Lotus e-mail, Lotus SmartPics, Pressworks, Designworks, Homewise, Quicken and IBM AntiVirus pre-loaded, EZ Language 2 and Paccio Accounts on CD.
- **All Standard Features** Windows 95 with manual and CD, 105 keyboard, 1.44Mb floppy drive, PS/2 mouse, advanced motherboard with all standard ports (games, serial, parallel etc.) and year 2000 compliant BIOS, 90 min video user guide, recovery disk, 14 day money back guarantee, full support and 12 months warranty extendible to 5 years.

Product Codes: 200M 14" 400-30-300
200M 15" 400-30-301
200M 17" 400-30-302

Product Codes: 200M-2 14" 400-30-303
200M-2 15" 400-30-304
200M-2 17" 400-30-305

Exec Models

EXEC Models are also available and include voice recognition, PC joystick, PC microphone and 13 CDs with 15 superb multimedia titles at only £79 +VAT (£92.83 Inc. VAT) extra.

200M EXEC 14" 400-30-306 200M-2 EXEC 14" 400-30-309
200M EXEC 15" 400-30-307 200M-2 EXEC 15" 400-30-310
200M EXEC 17" 400-30-308 200M-2 EXEC 17" 400-30-311



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How To Order

TIME™

COMPUTER SYSTEMS

Professional PC

Ideal for the professional power user



Exec model shown with optional VideoPhone camera

FREE 56k Modem

First 1500 Orders Only

FREE 56K voice modem included with PC package converts your PC into a powerful fax machine, allows fast Internet connection with electronic mail (e-mail), data communications and full-feature voice mail facilities (limited offer).















Interest Free Credit Option Available On All Models

Example 233MXL: Pay the whole amount now for fast delivery or pay just £153.50 (10%) deposit and then nothing to pay for 6 months. After 6 months pay the rest. Total price = cash price = £1275 + £25 delivery + VAT = £1527.50 Inc. VAT. APR 0% only if loan fully repaid within 6 months.

Finance also available over longer period of 2.5 years at APR 23.9%. Finance is subject to status. Written details are available on request.

Take A Look At The Ultimate 233MxL Specification

-  **64Mb RAM**
Massive 64Mb RAM enhances the performance of this system and allows smooth multi-tasking. This 64Mb 233M XL system out-performs our 32Mb 233-2 and 266-2 Pentium® II systems.
-  **56K Voice Modem**
Latest 56k flex voice fax/data/Internet modem has all the benefits of a 33.6 voice modem plus the ability to download at speeds approaching 56k via supporting Internet providers. (Limited Offer).
-  **ATI 4Mb Rage II + DVD Graphics**
The fastest graphics we have ever seen from the leader in high performance 3D graphics. Includes MPEG and Microsoft direct 3D support. Together with crisp sharp 15" or 17" screens, these systems provide the ideal display.
-  **6.4Gb Hard Disk**
This massive 6.4Gb unit delivers all the storage requirements of professional users. Includes latest Ultra ATA interface to deliver the best performance.
-  **24x CD-ROM**
High performance 24x Max CD-ROM drive delivers twice the maximum performance of 12x CD-ROM drives and allows programs to run and load faster.
-  **3D Wavetable Sound**
Creative Labs 3D Wavetable stereo sound with 3D effects and software wavetable synthesis for the best quality.
-  **VideoPhone Ready**
Colour video camera interface and VideoPhone software included to receive incoming video broadcasts. Optional colour video camera enables full send and receive facility.
-  **PC-TV System With Teletext**
This advanced TV system allows this system to function as a high resolution colour TV with full-feature downloadable Teletext.
-  **Voice Recognition**
IBM VoiceType Simply Speaking GOLD is pre-loaded and together with optional microphone (included with EXEC models) allows you to command your PC and dictate virtually into any Windows 95 program!
-  **233MMX Processor**
If you are considering a high performance 233MHz system, you will find that this system featuring Intel® 233MHz Pentium® processor with MMX™ technology delivers far better value than 233MHz Pentium® II systems of a similar price. (If you really need Pentium® II systems which are in fact more suited for business/corporate use and work best with Windows NT, our recommendation would be the higher speed 266MHz or 300MHz models).

Popular Options

- **Colour VideoPhone Camera**
Special bundle price £79 +VAT =£92.83 (RRP £175.08)
- **6 Top Games Bundle**
£39 +VAT = £45.83
- **Epson Stylus Color 300 InkJet Printer**
£129 +VAT = £151.58

Buy Now... Pay June '98

The new 233M Professional PC systems from Time Computers are packed with features and include the highest specification for the ultimate performance.

Our popular 233M Professional PC system with Intel® Pentium® 233MHz processor with MMX™ technology includes 32Mb RAM, fast 4.3Gb ultra ATA hard disk, ATI 4Mb Rage II+ DVD 3D graphics, 3D Creative Labs Wavetable sound and advanced PC-TV system with Teletext at just £1275 +VAT on interest free credit!

The Superb 233M XL system includes a massive 64Mb RAM and fast Ultra ATA 6.4Gb hard disk to yield performance figures faster than our Pentium® II 233MHz systems. This amazing specification is available at just £1275 +VAT. Order any of these systems early and also receive a free 56K voice modem. (limited offer).

233M

Professional PC

- **233MMX** Intel Pentium® 233MHz processor with MMX™ technology
- **32Mb** EDO RAM
- **4.3Gb** Ultra ATA hard disk
- **TV And Teletext** Full feature PC-TV system with business Teletext
- **24x** Max speed CD-ROM
- **ATI Rage II+ DVD 3D Graphics** with 4Mb dedicated video RAM and MPEG
- **3D Wavetable Stereo Sound**
- **512k** Pipeline burst cache
- **Stereo Speakers** Sound Force 525 mains powered speakers
- **14" Screen** SVGA NI 0.28dp colour screen (15" £69+VAT = £81.08 extra) (17" £219 +VAT = £257.35 extra)
- **ATX** mid-tower design with ATX PC'97 motherboard and 2 USB Ports
- **FREE 56K Voice Modem** with hardware chipset. Flash upgradeable

£1263.13 inc. VAT
£1075 + VAT

233MxL

Professional PC

- **233MMX** Intel Pentium® 233MHz processor with MMX™ technology
- **64Mb** EDO RAM
- **6.4Gb** Ultra ATA hard disk
- **TV And Teletext** Full feature PC-TV system with business Teletext
- **24x** Max speed CD-ROM
- **ATI Rage II+ DVD 3D Graphics** with 4Mb dedicated video RAM and MPEG
- **3D Wavetable Stereo Sound**
- **512k** Pipeline burst cache
- **Stereo Speakers** Sound Force 525 mains powered speakers
- **15" Screen** SVGA NI 0.28dp colour screen (17" £150+VAT =£176.25 extra)
- **ATX** mid-tower design with ATX PC'97 motherboard and 2 USB Ports
- **FREE 56K Voice Modem** with hardware chipset. Flash upgradeable

£1498.13 inc. VAT
£1275 + VAT

Both Systems Include

- **Software Bundle** SmartSuite 97 (6 packs), Lotus e-mail, Lotus SmartPics, Pressworks, Designworks, Homewise, Quicken and IBM AntiVirus pre-loaded, EZ Language 2 and Pcioli Accounts on CD.
- **All Standard Features** Windows 95 with manual and CD, 105 keyboard, 1.44Mb floppy drive, PS/2 mouse, advanced motherboard with all standard ports (games, serial, parallel etc.) and year 2000 compliant BIOS, 90 min video user guide, recovery disk, 14 day money back guarantee, full support and 12 months warranty extendible to 5 years.

Product Codes: 233M 14" 400-30-270 Product Codes: 233MxL 15" 400-30-314
233M 15" 400-30-312 233MxL 17" 400-30-315
233M 17" 400-30-313

Exec Models

233M EXEC Models are also available and include voice recognition, PC joystick, PC microphone, larger premium speakers and 13 CDs with 15 superb multimedia titles at only £89 +VAT (£104.58 Inc. VAT) extra.

233M EXEC 14" 400-30-271 233MxL EXEC 15" 400-30-318
233M EXEC 15" 400-30-316 233MxL EXEC 17" 400-30-319
233M EXEC 17" 400-30-317



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See Page 3 How To Order

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COMPUTER SYSTEMS

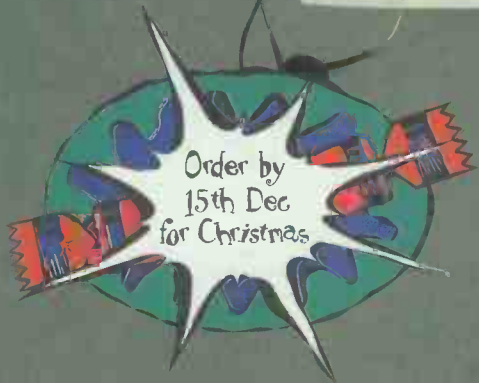
Ultimate PC

The Ultimate PC systems are based on the Intel Pentium® II 266 or 300MHz processors and include Intel's latest LX chipset, advanced ATI Rage II+ DVD 3D graphics with 4Mb or 8Mb Video RAM, 64Mb SDRAM and 6.4Gb Ultra ATA hard disk.

Together with 56K voice modem, VideoPhone receive, an advanced PC-TV system with Teletext and video capture, and all the other high performance features, these systems offer the best specifications in the UK.

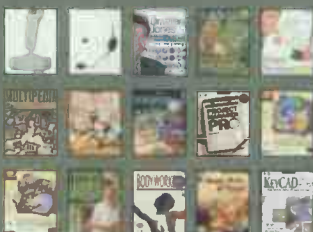


266-2 XL Exec model shown with optional VideoPhone camera



Exec Models

EXEC Models are also available and include voice recognition, PC joystick, PC microphone and 13 CDs with 15 superb multimedia titles at only £79 +VAT (£92.83 Inc. VAT) extra.



Product Codes:

- 266-2 15" 400-30-326
- 266-2 17" 400-30-327
- 266-2 XL 15" 400-30-330
- 266-2 XL 17" 400-30-331
- 300-2XL 15" 400-30-328
- 300-2XL 17" 400-30-329



Interest Free Credit Option Available On All Models

See example on previous page.

266-2

Ultimate PC

- **266MMX** Intel 266MHz Pentium® II processor with MMX™ technology
- **64Mb** SDRAM
- **512k** Pipeline burst cache
- **6.4Gb** Ultra ATA hard disk
- **ATI Rage II+ DVD 3D graphics** with 4Mb video RAM
- **15" SVGA Screen** 0.28dp NI colour screen (17" model £150+VAT = £176.25)
- **56K Voice Fax/Data/Internet Modem** Flash upgradeable
- **24x** Max CD-ROM drive
- **Creative Labs 3D Wavetable sound** with stereo sound and software wavetable
- **Speakers** premium mains stereo speakers (not shown)
- **VideoPhone Receive** only, with camera interface
- **PC-TV** system with Teletext and video capture
- **ATX Midi-Tower** system with 6 bays
- **ATX Advanced Motherboard** with latest Intel 440LX chipset, PC'97 features, 2 USB ports and all standard ports
- **Software Bundle** with Lotus SmartSuite 97 and other titles
- **All Standard Items** 105 PS/2 keyboard, PS/2 mouse, 3.5" 1.44Mb floppy drive, User Video, Microsoft Windows 95 and 14 day money back guarantee

£1815.38 inc. VAT

£1545 + VAT

Product Codes: 266-2 15" 400-30-324
266-2 17" 400-30-325

266-2 XL Model

As above but with 8Mb ATI AGP graphics card and executive subwoofer system
£149 +VAT = £175.08 Inc. VAT extra
Product Codes: 266-2 XL 15" 400-30-320
266-2 XL 17" 400-30-321

300-2 XL Model

As above but with Intel Pentium® II 300MHz processor, 8Mb ATI AGP graphics card and executive subwoofer system
£299 +VAT = £351.32 Inc. VAT extra
Product Codes: 300-2XL 15" 400-30-322
300-2XL 17" 400-30-323

Time Options

Epson Stylus Color 300

The Epson Stylus colour inkjet printer is ideal for home and small business use with upto 720dpi resolution.

- 720 x 360 dpi Resolution
- Prints on plain, coated papers, envelopes and OHP transparencies.
- Permanent Piezo print-head
- 1.2 Minute per page colour printing
- Up to 3 pages per minute in mono
- Ink cartridge 4 colour
- Status monitor
- 1 Year Warranty (RTB)



£129 + VAT
£151.58 Inc. VAT

Product Code: 013-30-016



Epson Stylus Color 400

- 720 x 720 dpi Resolution
- Prints on plain, coated papers, envelopes and OHP transparencies.
- Permanent Piezo print-head
- Up to 3 pages per minute colour printing
- Up to 4 pages per minute in mono
- Dual head printing (both mono and colour cartridges)
- Status monitor, 1 Year Warranty (RTB)

£159+VAT
£186.83 inc. VAT

Epson Stylus Color 600

- Upto 1440 dpi Resolution
- Upto 4ppm colour printing
- Upto 6ppm mono printing
- Photo real colour printing
- Laser sharp mono printing
- 1 Year Warranty (RTB)



£219+VAT
£257.33 inc. VAT

Please Note
Remember to select your required PC printer cable option with all printers



Agfa ePhoto 307 Digital Camera

- 640 x 480 Dpi or 320 x 240 Dpi
- 24 bit colour
- 43mm glass lens (Equivalent to 35mm)
- Focus free and Built in flash
- Ten second self timer
- Agfa PhotoWise™ software
- Adobe PhotoDeluxe™ software

Product Code: 016-25-001
£249+VAT £292.58 Inc. VAT



Iomega Tape Back-Up

- 2Gb External parallel tape back-up
- Easy to use
- Plugs into back of PC
- Tape cartridges at extra cost (see below)

Product Code: 326-04-015
£129+VAT £151.58 inc. VAT
2Gb Tape cartridge
£19+VAT £22.33 Inc. VAT
Product Code: 326-04-016



VideoPhone Camera

Rockwell Quarts eye videophone colour video camera attaches to the video camera port on our PC systems and delivers full videophone capability.

Product Code: 167-25-001
£149+VAT £175.08 inc. VAT
Special bundle price with PC
£79+VAT £92.83 inc. VAT



Top Quality Games Bundle

Six exciting arcade games on CD-ROMS with full documentation. This special price is only with the purchase of a PC system from Time.

RAC Rally

Rally Championship is THE definitive motorsport simulation of the decade! It's all there, from frighteningly realistic handling of six high performance cars, to superbly textured 3D panoramic views of nearly 300 miles of roads and tracks. The only way you'll beat it is to jump in a car and do the real thing.

PGA European Tour Golf

The world's premier golf simulation has three exceptionally detailed courses - Wentworth, Gut Kaden in Hamburg and The K Club in Ireland with in-game commentary from Peter Alliss, the voice of golf. European weather effects are included as well as picture in picture, hole fly-bys and reverse angle replay for all round on-the-course coverage.

FIFA 97

Smooth, lifelike real-time rendered 3D graphics for smooth continuous play with new player artificial intelligence for professional standard passing and shooting decisions. Includes commentary from John Motson with summaries from Andy Gray and is presented by Des Lynam.

Theme Hospital

It's a matter of laugh or death in the sequel to the best selling Theme Park. Design, maintain and manage a hi-tech hospital facility, making the most of limited resources and turning cures into cash. The Grim Reaper stalks the corridors, the ill have some very odd ailments, and the staff want to play doctors and nurses together!

Magic Carpet 2

Magic Carpet was one of the greatest action games of all time. Now with Magic Carpet 2 the actions faster, darker and a lot bloodier! All-new mission-based levels add another dimension to the gameplay but maintain the unique mix of frenzied action and strategy.

Command and Conquer

Build and better your bases. Unite or divide your forces. Develop and utilise guerrilla tactics and a wealth of potent electronic hardware in your attempt to crush the opposition. Every action can so easily trigger a fast and violent reaction. Every real-time battle can so easily rage long and hard.

£39 + VAT
£45.83 Inc. VAT

Product Code: 999-30-330

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TIME
COMPUTER SYSTEMS

Software Included As Standard With All Models



Lotus 1-2-3 Spreadsheet

Lotus 1-2-3 97, is packed with innovative features to streamline the most common spreadsheet tasks. Designed to eliminate typical problems and help users complete everyday tasks quicker, easier and with greater success, 1-2-3 features SmartMasters, Lotus Maps, One-Step Charting and multi currency formats.



Lotus WordPro 97 Word Processor

WordPro 97 is the first team word processor, and includes a streamlined 'smart' interface making it easier for individuals to accomplish everyday word processing tasks. WordPro offers SmartAssistance, a personalised way of helping users complete tasks. Features include SmartMasters, which allow you to breeze through everyday word processing tasks, and SmartCorrect to amend common typing mistakes as you type.



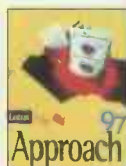
Lotus Organizer 97 Scheduler

Lotus Organizer 97 integrates seven keys to successful Time Management, Calendar, To Do List, Address Book, Planner, Call Manager, Notepad and Anniversary Reminder. Use Organizer to schedule appointments, create prioritised to do lists, plan major events, store and organise addresses, track phone calls, make notes, sort information, and mark important dates. Organizer makes it easier than ever to manage your time, and boost productivity.



Lotus ScreenCam 97 Recorder

Lotus ScreenCam enables you to capture, on-screen moving images and sound - like having a VCR in your PC! Record and playback with or without a soundtrack to build true multimedia presentations.



Lotus Approach 97 Database

Designed for anyone who can use a spreadsheet, Lotus Approach is the award winning relational database which allows users to track, manage and analyse information. With an intuitive notetab interface, designed for users to become productive quickly, and PowerClick reportwriter professional looking reports can be produced with ease. Other features include SmartIcons, allowing you to group, sort or summarise data and a charting facility for professional data presentation.



Lotus SmartPics Clipart

Add extra sparkle to business presentations, enhance memos, reports, overheads and handouts, with Lotus SmartPics. With thirty general business categories including: realistic people, business symbols, international icons, computers, military, medical illustrations, backgrounds and cartoons.



Lotus Freelance 97 Presentations

Lotus Freelance 97 is a presentations package, providing users with everything they need to create compelling visual communications for practical everyday use. With tools to help develop both a text-based document and a visual version or presentation at the same time.



Lotus Mail E-Mail

Lotus Mail is the easiest, most complete e-mail package for the Internet. It's got all the "must have" business features... tough security, spell checking, nested mail folders, automatic addressing, on-line directory lookups and much more.



Microsoft Windows 95

Microsoft Windows 95 is the latest version of Microsoft's best selling operating system that allows you to command your PC. Also included from Microsoft are: *Internet Explorer* The best Internet browsing package. *Microsoft Network 30 Day Trial* 30 Days of free use of the Microsoft network and Internet.



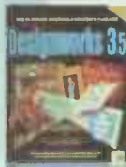
Quicken v5 Personal Finance

Quicken v5 manages all aspects of your financial life, for home or work, in one format and place. Easy to use and quick to update, Quicken v5 presents your financial information in the way you want to see it. With all the records at your fingertips, understanding and controlling your finances is easy.



IMSI EZ Language 2 Language Tutor

EZ Language 2 is the fastest way to learn a language, and includes 1000 new words and 250 phrases in French, German, Italian, Spanish Russian and Japanese. Colour pictures matched to each word, native voices, music, animations, maps, photographs and travel tips are just a few of the features of EZ Language 2. (Not included with Family PC)



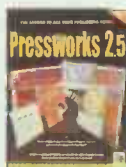
GSP Designworks Art & Drawings

No design experience is required to use Designworks 3. PagePilots will help you create cards, certificates, posters, report covers and logos in minutes, all you do is simply type the text. You can also experiment with a range of 'easy to use' graphic effects, including blends, skews, rotations and fill styles.



GSP Homewise Utilities

Homewise is the ultimate home and family organiser. Homewise organises everything from your home contents insurance to dinner parties, reminds you when household jobs need to be done and who should be taking care of them. Prepare checklists for when you go away on holiday or for your weekly shopping. Create personal diaries, school timetables, address books and store details of legal documents and medical histories.



GSP Pressworks Desktop Publisher

Pressworks is the DTP program to use for professional looking document creation. Produce professional printed stationary using a desktop printer, no experience is necessary, simply tell the program what type of document you require and PagePilots create instant designs for you. Pressworks 2 comes complete with word processing functions, fonts and graphic samples, a clipart organiser, and a Photo CD Browser.



IBM AntiVirus Protection

IBM AntiVirus is a comprehensive but easy to use virus checker for DOS and Windows. It will scan your hard disk and diskettes for any viruses that may be present and automatically remove them. It is the software that IBM use to protect their own PCs.



Pacioli 2000 Accounts

The easy to use, best selling, award winning accounting package. With eight integrated, full featured modules, Pacioli 2000 gives you enough power to run a small to medium sized business. It puts you back in control, to manage cash flow, automatically generate invoices, plan budgets and generate reports. (Not included with Family PC).

Extra Software Included With Exec Models Only



IBM Voice Type Simply Speaking GOLD

Wouldn't you rather talk than type, making your work faster and so much easier? With Simply Speaking GOLD, you can dictate text and commands directly into your favourite Windows applications by simply speaking to your computer. Fast accurate reports, memos, letters and e-mail. Express yourself without worrying about the keyboard. Take control of your work. This software is pre-loaded on all models. Microphone included with Exec models only.



Compton's Interactive Encyclopedia 1997

Learning is made fun and easy for the whole family with Compton's Interactive Encyclopedia. Complete with six interactive learning environments, 35,000 articles, more than 8,000 photographs and illustrations, Interactive Encyclopedia features 100 full-motion videos, slide shows, 3D animations and presentations.



Compton's World Atlas CD 1997

Visit any country in the world, instantly and easily, with Compton's Interactive World Atlas 1997. Whether you are writing a report, planning travel, or exploring the world, it provides you with all the information you need. It includes over 600 detailed maps, thousands of statistics and in depth articles.



GSP Instant Will Maker

With Instant Will Maker you'll have access to all the information you need to create a Will for all the family. Using a unique Will Plot, you simply follow a series of questions and answers which takes you through the whole process in a matter of minutes.



KeyCAD Pro CAD Package

Computer aided design is no longer for the technical elite with KeyCAD Pro providing the power of high-end CAD programs. It's the easiest way to draft, plan, layout or design any project on your computer with engineered precision.



David Bellamy's Endangered Wildlife

Endangered Wildlife featuring David Bellamy includes maps, artwork, live footage and sounds from around the world. Features include video clips of animals in natural habitats, with information on individual species physical traits and diet, together with games and puzzles to make learning fun.



Infopedia UK Encyclopedia

Infopedia is one of the largest, most powerful information packed CD-ROM reference tools available today. Designed to make learning simple and fun for users of all ages, Infopedia features more than 250,000 entries. These include over 150 videos and animations, over 5,000 photographs, over 850 maps, flags, charts and tables, and more than 450 sound clips.



Project Manager Pro

Take control of all your projects, including managing deadlines, tasks and resources with Project Manager Pro. Features include 'date offset', which instantly identifies tasks that are ahead or behind schedule, and automatic date tracking enabling you to track projects past and present at a glance.



Labels Unlimited

Labels Unlimited allows you to create labels in any size and style for a single envelope or a major mailing. With features enabling you to sort names and addresses automatically, pre-formatted templates, and 2,600 clipart images, label printing could not be easier.



Geoff Hamilton's Garden Designer

If you are planning a border or an entire garden, Garden Designer helps with its step by step approach. Features include over 1,500 photographs and illustrations, plant care information, and a garden filter to help you choose the plants that are suitable for your gardens conditions. Garden Designer also features monthly charts providing handy reminders for year round garden maintenance.



Dr Hilary Jones' Doctor In The House

Specifically designed for use in the home, Doctor in the House provides a practical approach to medical issues. Items covered include health, nutrition and fitness, what to do in the event of an accident or emergency and suggests what might be wrong when you're feeling ill. Please note that this program contains medical information, and does not offer medical advice.



Read, Write & Type

Read, Write & Type is a typing tutor aimed at children aged 6-8 and teaches phonics, finger placement, reading and writing. Features include 57 sound games, 40 animated stories, with over 600 words to type, and a word processor with a talking keyboard. Sequences begin with single letters, and progress through whole words to complete sentences with capitalisation and punctuation.



Gizmos & Gadgets

Aimed at children aged 7-12, Gizmos & Gadgets builds an understanding of physical science. Complex principles including magnetism, force, electricity, gears, balance energy and simple machines, are explained using over 200 easy to understand real-world puzzles and simulations



Multipedia Bookshelf

Multipedia is a collection of 16 top-selling reference works linked together through a custom designed reference engine. Designed to complement any existing encyclopedias or bookshelf products Multipedia titles include: The Oxford Dictionary of Music, The Oxford Dictionary of Art, Barron's Dictionary of Business and Finance, The Hutchinson Guide to the World, and Ballentine's Law Dictionary.



BodyWorks v5

Bodyworks v5, provides a comprehensive, exciting and detailed reference guide to the human anatomy. Uncover the secrets of the nervous, digestive and respiratory systems. Explore the structure of the skeleton, muscles and organs. Discover how eyes focus and how blood maintains its temperature.



GSP Instant Cards And Invitations

Instant Cards and Invitations provides a quick and simple way to create your own celebration cards and invitations. Features include clipart images, a range of fonts, and an address book.

Family PC

£29

Per Month

2 Years Interest Free Credit

When Purchased with Family Exec Bundle Below

High specification state of the art PC system with fast 166M-2 MMX processor, 4.3Gb Ultra ATA hard disk, 32Mb EDO RAM, 24 speed CD, 3D Wavetable sound and 4Mb SIS graphics at just £929 +VAT!

Buy with the Exec Family Bundle below and pay just £29 per month on 2 Years Interest Free Credit. Order early and get a FREE Epson Stylus Color Inkjet Printer (Limited first 2000 orders).



Amazing Spec

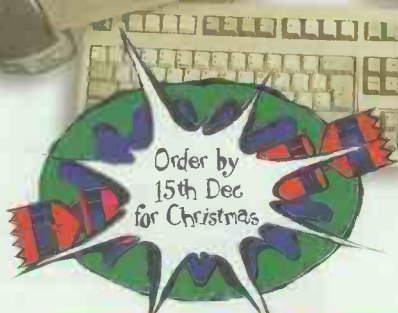
- 166M-2 MMX Processor
- 32Mb RAM
- 4.3Gb Hard Disk
- 24x CD-ROM
- SIS 4Mb Graphics
- 3D Wavetable Sound
- Massive Software Bundle
- FREE PRINTER (limited to first 2000 only)

166M-2

Family PC

- **166MMX** IBM 6x86MX PR166 processor with MMX technology with performance similar 200MHz Intel Pentium with MMX technology
- **32Mb** EDO RAM
- **4.3Gb** Ultra ATA hard disk
- **24x** Max CD-ROM
- **3D Wavetable stereo sound**
- **SIS 64-bit Advanced Graphics** using 4Mb of RAM, MPEG & Microsoft direct 3D support
- **512k** Pipeline burst cache
- **Stereo Speakers** Sound Force 525 mains powered speakers
- **14" Screen** SVGA NI 0.28dp colour screen (15" £69 +VAT = £81.08 and 17" £219+VAT = £257.33 extra)
- **ATX** system with PC97 chipset and 2 USB ports
- **RAC Rally**, **Interactive Sailing** and **Mini-Office Typing**
- **All Standard Features** Massive Preloaded Software, Windows 95, 105 keyboard, 1.44Mb floppy drive, Ps/2 mouse, advanced motherboard with all standard ports and year 2000 compliant BIOS, 90 minute video user guide, recovery disk, full support, 14 day money back guarantee (excluding carriage) and 12 months warranty extendible to 3 or 5 years
- **FREE Printer** Offer - limited to first 2000 orders only

Product codes: 14" 272; 15" 273; 17" 274



FREE PRINTER



First 2000 orders only
All Family PC Models ordered early qualify for a free Epson Stylus Color 300 720dpi Inkjet printer. (Select required PC cable).

FAMILY PC EXEC Bundle

16 software titles, 5 top games, joystick, headset microphone and Compass Menu CD.
Only £148 +VAT = £173.90 extra.

166M-2 14" 278; 15" 279; 17" 280
200M-2 14" 281; 15" 282; 17" 283



£1091.58 inc. VAT
£929 + VAT

200M-2 Best Buy Model £12.19 Extra per month

As 166M-2 above but with faster 200MMX processor with MMX Technology, massive 64Mb EDO RAM, 56K voice/fax/data/internet modem, Premium speakers and full VideoPhone with colour video camera. **£249 +VAT = £292.58 inc. VAT extra**
Product codes: 14" 275; 15" 276; 17" 277



2 YEARS INTEREST FREE CREDIT

EXAMPLE Family PC 166M-2 Exec: Pay just £129.49 (10%) deposit and 24 monthly payments of £48.56 or £598.85 deposit and 24 monthly payments of £29. Total price £929 +£148 +£25 delivery +VAT = £1294.85 = Cash price. APR 0% . Finance is available subject to status. Written details are available on request.

Freephone Time Now Offers End 31st December

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Sundays 30th Nov, 7th and 14th December 10.00am to 4.00pm

See Page 3 How To Order

TIME

COMPUTER SYSTEMS

INSBCK2A

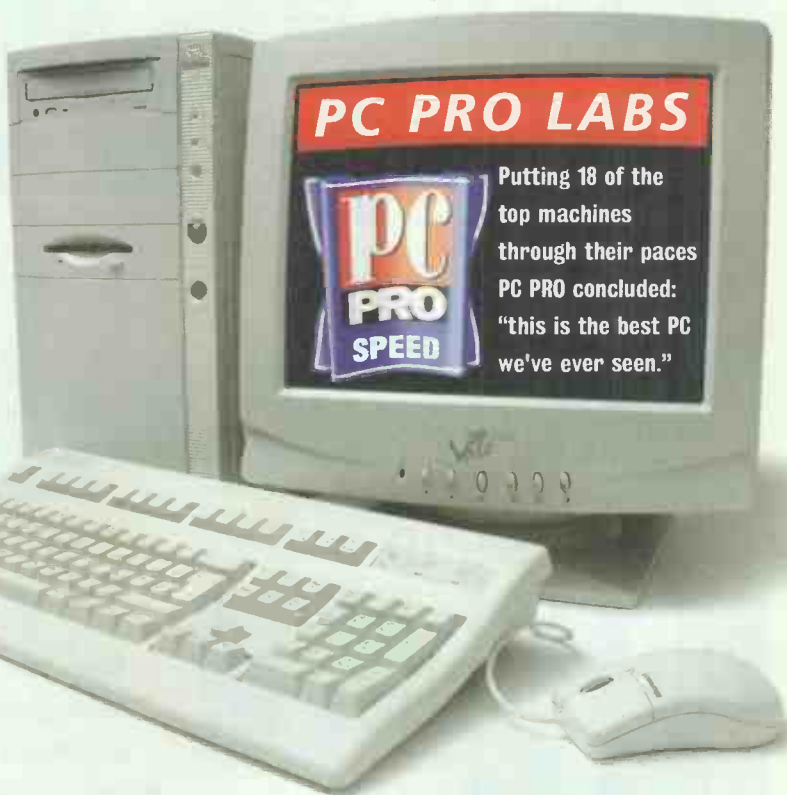


The best PC EVER

It's official.

EveshamVale Pentium II models have swept the board with phenomenal success – EVERY machine submitted for review has come home with an award:

- | | | | | |
|---|---|---|--|---|
| <p>"BEST PC EVER"
PC PRO
EveshamVale Platinum II
December 1997</p> | <p>"BEST PC FOR UNDER £1500"
THE LIST
EveshamVale Platinum II
December 1997</p> | <p>"BEST BUY"
LABS
EveshamVale Platinum II
December 1997</p> | <p>"FASTEST PC ON THE PLANET"
PC PRO
EveshamVale Platinum II SE 266
October 1997</p> | <p>RECOMMENDED
PC BUYER'S BIBLE
EveshamVale Platinum II SE
January 1998</p> |
| <p>"FASTEST PC"
THE LIST
EveshamVale Platinum II SE 300
December 1997</p> | <p>"STATE-OF-THE-ART"
PC PRO
EveshamVale Platinum II SE 300
December 1997</p> | <p>"EDITORS' CHOICE"
PC MAGAZINE UK
EveshamVale Platinum II SE 266
October 1997</p> | | |



**PII 266MHz
64Mb SDRAM
AGP Graphics
24x CD-ROM
AWE64 Value**

This "Best Ever" specification is now enhanced with a new sleek case and 15" Vale monitor – and we've reduced the price too. See Page 7.

EveshamVale

We're rather proud of our **small print...**
and our **Headlines are pretty good too!**



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Evesham Micros

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Evesham Micros

EveshamVale

Quality product, Quality team



The best Warranty,

Service

We are so confident in the quality of components being used in our systems that we are able to make this industry leading offer. Prestige and Platinum systems are now covered by two years parts and labour on-site maintenance as standard. Fileservers and DesignStations come with three years cover. Compare this with our competitors - you could pay a lot of money for such peace of mind.



Tim Bailey Senior Technician
Is a member of Evesham
Micros' own on-site
support team.

At Evesham Micros we understand it isn't enough to build an award winning PC range like EveshamVale without the right people to support it. We believe in taking care of our customers, from friendly sales advice to unrivalled technical support. In the unlikely event of something going wrong we have our own dedicated staff ready to help.



Left Wendy Paul
Telesales

Our Vale technical department is manned by friendly & knowledgeable staff who have a full history and build

& Support

schedule of each individual PC. They are available from Monday to Saturday, and the vast majority of customer calls are answered in a time scale that is the envy of our competitors. Unlike some, we do not use Premium Rate numbers (up to 48 pence per minute) but a standard national code.

Rob Nichols
Technical
Support



Sarah
Cockerton
Customer
Services



Quantity Business Buyers

Evesham Micros are represented in the UK by four major branches and a further 'Business Office' at Glasgow.

All of our Business Sales divisions have a team with a wealth of experience and enthusiasm, and whether your needs are large or small they are ready to discuss your requirements and advise on the ideal solution. In addition, the Birmingham, Evesham, Milton Keynes and Cambridge branches host a full complement of installation and support staff, ready to commission and support even the most challenging system.

If your company has 10 or more PCs please call the Business Sales FREEPHONE number which will route you through to your nearest branch.

FREEPHONE BUSINESS SALES:

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Left Craig Fairs DesignStation
Product Manager.

Far Left Oxford College

Below Cambridge Showroom



Business Sales
Centres
Glasgow
Birmingham
Evesham
Milton Keynes
Cambridge



Plus Flexible Finance Options

Buy now - pay June 1998.

Buy any EveshamVale Media98 PC and you can defer payment for 6 months. How the scheme works: You enter a credit agreement at time of purchase, but pay nothing for 6 months. After this time you have the choice to either:

- Settle in full (at the original cash price - interest free), or
- Start a 3 year repayment plan with 36 equal monthly payments - APR 24.9%

No deposit personal finance.

Flexible credit agreement to spread payment over 12, 24 or 36 months. No deposit. APR 16.7% Available with any purchase over £500.

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Credit available subject to status. Written details available on request.



Please note that actual products (including screen displays) may not exactly match the photographic representations. On-site maintenance applies to UK mainland only. Industry standard practice is to quote a monitor's CRT size - the actual viewing area is approximately 1" less. Bundled versions of sound cards and software are not full retail packs, and the software features on-line documentation. Occasionally we may supply vouchers for software titles which need to be re-claimed with the manufacturers. Note that we are unable to offer a 14 day moneyback guarantee on any special order item which is not featured in the advertisement, or on any software. The Intel Inside logo, Pentium and MMX are registered trademarks and the Pentium Processor logo is a trademark of Intel Corporation. AMD-K6 and the AMD-K6 logo are registered trademarks. Microsoft is a registered trademark and the Office logo is a trademark of Microsoft Corporation. All other trademarks acknowledged. All orders are subject to Evesham Micros' standard Terms and Conditions of trading - these are available on request.



Certificate No. 18 31710
ISO9002 (BS5750 part 2)

EveshamVale

Prima

We have set out to build a quality PC and sell it at a keen price, whilst still offering a standard of equipment that allows us to maintain our award winning level of service and support. The Prima is the result and is now established as a standard setting entry level PC, as confirmed by winning Computer Shopper's "Best Buy" award when pitted against computers from 13 leading suppliers.

Prima Standard models:

- ◆ 512kb Pipeline-Burst cache
- ◆ 16Mb or 32Mb RAM
- ◆ Intel Socket 7 for processor upgrades
- ◆ 64 bit SIS Advanced graphics using 2Mb system RAM with Microsoft 3D support
- ◆ 14" SVGA monitor
- ◆ 14 day moneyback guarantee
- ◆ 1 year on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline

Prima Multimedia models and Media98 models have the following additional hardware:

- ◆ Panasonic CR-585 24x CD-ROM drive
- ◆ SoundBlaster 16 compatible sound card
- ◆ Zy-Fi Compact amplified speakers

All Prima models also feature:

- ◆ Year 2000 ready BIOS
- ◆ 3xPCI & 3x16-bit expansion slots
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Choice of desktop or midi-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ Windows95 keyboard
- ◆ Mouse
- ◆ Windows 95 installed, with full manuals and disks supplied

From
£499+VAT (586.33)



A Prima multimedia PC

EveshamVale Prima

	Standard	MULTIMEDIA	Media98
PR166+ , 16Mb RAM, 1.0Gb HDD	£499-VAT (£586.33)	£569-VAT (£668.58)	£649-VAT (£762.58)
166 MMX , 32Mb RAM, 2.1Gb HDD	£599-VAT (£703.83)	£669-VAT (£786.08)	£749-VAT (£880.08)
200 MMX , 32Mb RAM, 3.2Gb HDD	£699-VAT (£821.33)	£769-VAT (£903.58)	£849-VAT (£997.58)
P166 MMX , 32Mb RAM, 2.1Gb HDD	£629-VAT (£738.08)	£699-VAT (£821.33)	£779-VAT (£915.33)
P200 MMX , 32Mb RAM, 3.2Gb HDD	£729-VAT (£856.58)	£799-VAT (£938.83)	£879-VAT (£1032.83)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch. See below for details of Media98 pack.

Prima upgrades

OPERATING SYSTEM			
Windows NT4 (supplied on CD-ROM)	£75+VAT (£88.13)	Panasonic PD media 3 pack	£49+VAT (£57.58)
RAM & DISK DRIVES		Multimedia Labs TC1500 speakers - see page 14 (Multimedia models)	£39+VAT (£45.83)
16Mb to 32Mb RAM	£50+VAT (£57.58)	COMMUNICATIONS	
Panasonic 120Mb floppy disk drive instead of 1.44Mb unit - see page 11	£60+VAT (£70.50)	33600bps internal Vale voice/data modem	£45+VAT (£52.88)
MONITORS		K56flex internal Vale modem	£59+VAT (£69.33)
15" Vale monitor (as Vale Prestige)	£50+VAT (£58.75)	"Internet ready" pack (K56flex) - see p13	£159+VAT (£186.83)
17" Vale monitor (as Vale Platinum)	£200+VAT (£235.00)	OMEGA STORAGE SOLUTIONS (SEE PAGE 12)	
MULTIMEDIA HARDWARE		100Mb zip drive (internal)	£75+VAT (£88.13)
24x CD-ROM drive (Standard models)	£50+VAT (£58.75)	1Gb jaz drive inc. SCSI card (internal)	£281+VAT (£330.18)
Panasonic 650Mb PD drive instead of CD-ROM	£149+VAT (£175.08)	SUPPORT	
Panasonic PD media	£19+VAT (£22.33)	Basic installation/training service	£50+VAT (£58.75)
		Second year maintenance	£40+VAT (£47.00)

Reviews



"Its quality and breadth make the Evesham well worth its asking price." Prima P100 June 1996



"Good specification, good performance and a good price." Prima P133 December 1996



"If we were choosing the machine that combined performance, presentation and configuration then our choice would be narrowed down to the Evesham...we fully approve of its documentation, setup and choice of components" Prima P100 August 1996



"There is little doubt that the Evesham is the winner as far as performance goes. It raced ahead of the competition." Prima P133 March 1997

Multimedia software bundles Available with any EveshamVale Multimedia or Media98 PC

Media98

- ◆ Microsoft Works for Windows 95
 - ◆ Microsoft Encarta 98 (international edition)
 - ◆ Microsoft Monster Truck Madness
 - ◆ Microsoft 3D Movie maker
 - ◆ Microsoft Magic School Bus Rainforest
 - ◆ Microsoft Money
 - ◆ Microsoft Golf 3
 - ◆ Microsoft Football
 - ◆ Microsoft Cinemania
 - ◆ Suncom joystick
- Second Year 15% model for pricing.

Family & Friends

A combination of popular game and utility titles, including the ultimate route planner that covers the whole of Europe!

- ◆ Route 66 (European edition)
 - ◆ ChessNet 3
 - ◆ Video Poker
 - ◆ A typing tutor
 - ◆ Caribbean Stud Poker
 - ◆ Screamer II
 - ◆ Blackjack
 - ◆ Simon the Sorcerer II
 - ◆ Solitaire
 - ◆ Antics
- £49**+VAT (£57.58)

Microsoft Office97 Professional

- For the home user we offer Office97 Professional Student Edition:
- ◆ Word 97
 - ◆ Excel 97
 - ◆ Outlook 97
 - ◆ Access 97
 - ◆ Powerpoint 97
- £75**+VAT (£88.13)

To qualify you or someone in your family needs to be aged 5 or over and in full or part time education, on a Deal for Education & Employment (DfEE) recognised course, as either a student or teacher. Product supplied via voucher redemption.

Microsoft Office97 Small Business Edition

- ◆ Word 97
- ◆ Excel 97
- ◆ Outlook 97
- ◆ Publisher 97
- ◆ AutoRoute Express

£169+VAT (£198.58)

Product supplied is Office97 Upgrade Pack, plus a suitable product to upgrade from.

Microsoft Office97 Professional

- ◆ Word 97
- ◆ Excel 97
- ◆ Outlook 97
- ◆ Access 97
- ◆ Powerpoint 97

£239+VAT (£280.83)

Product supplied is Office97 Upgrade Pack, plus a suitable product to upgrade from.

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Evesham Vale

Prestige

It is amazing what spending a few more pounds can do to the performance and pleasure of use of a PC. By fitting the 2Mb ATI 3D Rage 2 video card and coupling it with the superb 15" Vale monitor, the specification and performance truly earn the title "Prestige".

Prestige Standard models:

- ◆ Chaintech motherboard with Intel 430TX PCiset, and SeePU and APTC technologies
- ◆ 512kb Pipeline-Burst cache
- ◆ 32Mb SDRAM, expandable to 256Mb
- ◆ Quantum IDE hard disk
- ◆ 2Mb ATI 3D Rage 2 video card
- ◆ 15" Vale 15SH monitor
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline

Prestige Multimedia models and Media98 models have the following additional hardware:

- ◆ Panasonic CR-585 24x CD-ROM drive
- ◆ Genuine Creative Labs SoundBlaster 16 sound card
- ◆ Zy-Fi amplified speakers

All Prestige models also feature:

- ◆ Intel Socket 7 for processor upgrades
- ◆ Year 2000 ready BIOS
- ◆ 4xPCI & 3x16-bit expansion slots (one shared)
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Choice of desktop or mid-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ "Windows95" keyboard
- ◆ Mitsumi mouse
- ◆ Windows 95 installed, with full manuals and disks supplied



EveshamVale Prestige

	Standard	MULTIMEDIA	Media98
200 MMX , 32Mb RAM, 3.2Gb HDD	£789 -VAT (£927.08)	£879 -VAT (£1032.85)	£959 -VAT (£1126.85)
233 MMX , 32Mb RAM, 3.2Gb HDD	£849 -VAT (£997.58)	£939 -VAT (£1103.33)	£1019 -VAT (£1197.33)
P166 MMX , 32Mb RAM, 2.1Gb HDD	£719 -VAT (£844.83)	£809 -VAT (£950.58)	£889 -VAT (£1044.58)
P200 MMX , 32Mb RAM, 3.2Gb HDD	£819 -VAT (£962.33)	£909 -VAT (£1068.08)	£989 -VAT (£1162.08)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch. See page 3 for details of Media98 pack.

Prestige upgrades

OPERATING SYSTEM

Windows NT4 (supplied on CD-ROM).....£75+VAT (£88.13)

RAM & DISK DRIVES

32Mb to 64Mb RAM.....£80+VAT (£94.00)

Panasonic 120Mb floppy disk drive

instead of 1.44Mb unit - see page 11.....£60+VAT (£70.50)

VIDEO CARDS & MONITORS

15" Taxan Ergovision 550 TCO95.....£70+VAT (£82.25)

17" Vale 17SH.....£150+VAT (£176.25)

17" iijama Vision Master.....£280+VAT (£329.00)

15" Taxan Ergovision 750 TCO95.....£300+VAT (£352.50)

MULTIMEDIA HARDWARE

24x CD-ROM drive (Standard models).....£50+VAT (£58.75)

Panasonic 650Mb PD drive instead of CD-ROM.....£149+VAT (£175.08)

Panasonic PD media.....£19+VAT (£22.33)

Panasonic PD media 3 pack.....£49+VAT (£57.58)

Multimedia Labs TC1500 speakers

(Multimedia models) - see p14.....£39+VAT (£45.83)

TC1500 & SP7001 speakers (Multimedia models).....£79+VAT (£92.83)

COMMUNICATIONS

33600bps internal Vale voice/data modem.....£45+VAT (£52.88)

K56flex internal Vale modem.....£59+VAT (£69.33)

"Internet ready" pack (K56flex) - see p13.....£159+VAT (£186.83)

OMEGA STORAGE SOLUTIONS (SEE PAGE 12)

100Mb zip drive (internal).....£75+VAT (£88.13)

1Gb jaz drive inc. SCSI card (internal).....£281+VAT (£330.18)

SUPPORT

Basic installation/training service.....£50+VAT (£58.75)

Third year maintenance insurance.....£99 (VAT exempt)

Reviews



"The Evesham uses quality components throughout which help maximize the potential of its powerful CPU...faster than some Pentium 200! One of the first MMX machines we tested, the Evesham is a great example of the technology's potential." Prestige P166 MMX April 1997



"The Prestige is a good machine at a very competitive price. If you're working to a tight budget, this machine must be at the top of your short list!" Prestige multimedia PC November 1996



"Superb value in a machine which doesn't compromise on speed either...comes with such a good selection of peripherals and software that it scoops our Value award." Prestige multimedia PC March 1997



"For the price you get a well-made computer from a reputable supplier, with a good mix of software." Prestige P133 November 1996

Prestige II

Prestige II models differ from above in the following respects:

- ◆ Intel Pentium II processor
- ◆ Intel Slot One for processor upgrades
- ◆ Intel 440LX PCiset

See page 3 for details of Media98 pack.

32Mb SDRAM, 3.2Gb hard disk

	Standard	MULTIMEDIA	Media98
Pentium II 233	£999 -VAT (£1173.83)	£1089 -VAT (£1279.58)	£1169 -VAT (£1373.58)
Pentium II 266	£1099 -VAT (£1291.33)	£1189 -VAT (£1397.08)	£1269 -VAT (£1491.08)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

See above for upgrades

from **£999**+VAT



Buy now
- pay June 1998

Buy any Vale Media98 model and you can defer payment for 6 months - see page 2 for details.

Multimedia software bundles

Available with any EveshamVale Multimedia or Media98 PC - see page 3 for details

Platinum

We have long maintained the tradition that every component in the Platinum must be chosen for outstanding performance, reliability and pleasure of use, as well as being technically bang up to date. This formula has earned the Platinum range a consistent stream of awards, including no less than four PC Magazine Editors' Choices.

Platinum models:

- ◆ Chaintech 5TMM motherboard with Intel 430TX PCiset, and SeePU and APTC technologies
- ◆ 512kb Pipeline-Burst cache
- ◆ 32Mb SDRAM, expandable to 256Mb
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 3.2Gb Quantum Fireball ST Ultra ATA hard disk
- ◆ 4Mb Matrox Mystique 220 3D multimedia accelerator
- ◆ 17" Vale 17SH monitor
- ◆ Panasonic CR-585 24x CD-ROM drive
- ◆ Creative Labs SoundBlaster AWE64 Value wavetable sound card

- ◆ Microsoft Intellimouse
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline

Platinum models also feature:

- ◆ Intel Socket 7 for processor upgrades
- ◆ Year 2000 ready BIOS
- ◆ 4xPCI & 3x16-bit expansion slots (one shared)
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Zy-Fi amplified speakers
- ◆ Keytronic PS/2 'Windows 95' keyboard
- ◆ Choice of high quality ATX style desktop or midi-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ Windows 95 installed, with full manuals and disks supplied

SeePU
Simple jumperless CPU upgrade installation

APTC
Active Processor Temperature Control: - multi-level CPU temperature protection function

Reviews



"Evesham has mixed and matched a fine photo system, based around quality components." *November 1997 Platinum K6-200*



"This is a well thought-out home system. It's quick, well built... the software, modem and joystick provided are of high enough quality to be genuinely useful." *November 1997 Platinum 233*



"This PC turned in a blindingly fast performance in our labs. Evesham impressed in every area, and had all the mod cons such as an ATX format motherboard and Matrox Mystique 3D graphics card. A great PC to own." *February 1997 Platinum 200*



"The construction quality and internal layout of the midi tower case are exemplary. The Platinum 200 is good to look at and easy to use... it's hard not to like this PC." *January 1997 Platinum 200*

PC ANSWERS

"It may look ordinary enough, but this system trashes a P200... If you're looking for real muscle without hitting big money then this is the place to look... You would be hard put to find anything as fast for the money." *July 1997 Platinum K6-200*

PC Guide

Long term test: "Still good looking, even after our thorough testing, the Evesham Micros Vale Platinum looks as though it is a true winner." "Impressively, the support line was answered immediately and we were put straight through to a technician... and 10 minutes after encountering the problem it was solved." *February 1997 Platinum 133*

CD ROM Today

This year's top five £1500 PCs. "This is the first machine we've seen (previewed in the June issue of PC Plus) with the new AMD K6 processor, which promises MMX compatibility along with better performance and lower prices. In the case of this Platinum that's very much what you get. A very fast graphics card and particularly good monitor are welcome." *July 1997 Platinum K6-200*



"Thanks to its inexpensive but powerful AMD K6 chip, the Vale Platinum K6 delivers an excellent combination of price and performance compared to the Platinum Pro competition. Despite being one of the first K6-based systems we've reviewed, Evesham Micros' Platinum K6 shows no signs of being hurriedly assembled. On the contrary, the Vale Platinum K6 is solidly built and a very good performer." *June 1997 Platinum K6-233*

32Mb SDRAM, 3.2Gb hard disk

	MULTIMEDIA	Media98
AMD K6 200 MMX	£1119 .00 (VAT £1314.83)	£1199 .00 (VAT £1408.83)
AMD K6 233 MMX	£1189 .00 (VAT £1373.58)	£1249 .00 (VAT £1467.50)
Intel P200 MMX	£1149 .00 (VAT £1350.08)	£1229 .00 (VAT £1444.08)
Intel P233 MMX	£1219 .00 (VAT £1432.33)	£1299 .00 (VAT £1526.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

See below for upgrades

See page 3 for details of Media98 pack.

Platinum II

"THE BEST PC EVER"

EveshamVale Platinum II PC Pro, December 1997

Platinum II models differ from above in the following respects:

- ◆ Intel Pentium II processor
- ◆ Chaintech 6LTM motherboard with Intel 440LX PCiset and Intel Slot One for processor upgrades
- ◆ 4Mb ATI Xpert@work AGP 3D graphics accelerator

32Mb SDRAM, 3.2Gb hard disk

	MULTIMEDIA	Media98
Pentium II 233	£1349 .00 (VAT £1585.08)	£1429 .00 (VAT £1679.08)
Pentium II 266	£1449 .00 (VAT £1702.58)	£1529 .00 (VAT £1796.58)
Pentium II 300	£1599 .00 (VAT £1878.83)	£1679 .00 (VAT £1972.83)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

Platinum upgrades

OPERATING SYSTEM Windows NT4 (supplied on CD-ROM).....£75+VAT (£88.13)	Panasonic PD media.....£19+VAT (£22.33)
RAM & DISK DRIVES 32Mb to 64Mb RAM.....£80+VAT (£94.00) 32Mb to 128Mb RAM.....£340+VAT (£399.50) 6.4Gb IDE HDD.....£100+VAT (£117.50) Panasonic 320Mb floppy disk drive Instead of 1.44Mb unit -see page 11.....£60+VAT (£70.50)	SoundBlaster AWE64 Gold.....£90+VAT (£105.75) Multimedia Labs TCI500 speakers - see page 14.....£39+VAT (£45.83) TCI500 & SP7001.....£79+VAT (£92.83)
VIDEO CARDS & MONITORS Millennium II 4Mb.....£59+VAT (£68.83) 17" Taxan Ergovision 750.....£150+VAT (£176.25) 17" Iiyama Vision Master.....£120+VAT (£141.00) 17" Vision Master ES.....£160+VAT (£188.00) 17" Vision Master Pro.....£170+VAT (£199.75) 21" Vision Master Pro.....£700+VAT (£822.50)	COMBINATION CARDS K56flex Internal Vale modem £59+VAT (£69.33) "Internet ready" pack -see page 13.....£159+VAT (£186.83)
MULTIMEDIA HARDWARE No CD-ROM drive.....deduct £50+VAT (£58.75) Panasonic 650Mb PD drive Instead of CD-ROM.....£149+VAT (£175.08)	LONGER LIFESPAN SOLUTIONS (SEE PAGE 12) 100Mb zip drive (internal).....£75+VAT (£88.13) 1Gb las drive inc. SCSI card (internal).....£281+VAT (£330.18)
	SUPPORT Basic installation/ training service.....£50+VAT (£58.75) Third year maintenance insurance: Models up to £2500.....£99 (VAT exempt) Models over £2500.....£119 (VAT exempt)

See page 3 for details of Media98 pack.

See page 7 for the Platinum II "A list" model >>>

Reviews



"THE BEST PC EVER"
"You'll be amazed at how much power you can buy for £1500. We put 18 machines through their paces. Only two come up trumps, and one is the best PC we've ever seen."

"Despite the affordable price point, Evesham has still managed to include cutting-edge components to produce a machine that can cope with anything thrown at it."

"Evesham has created a lightning-fast PC at a really low price point. If you want cutting-edge technology, without taking out a second mortgage, look no further. This is a worthy speed award winner."

"The EveshamVale Platinum II is quite simply the fastest PC on test, and considering the price it's an amazing machine."

"Evesham is definitely building a reputation for producing fast PCs. The Platinum II is the second Pentium II-based Evesham system to win an award in three months."

Platinum II December 1997

THE A LIST

BEST PC FOR UNDER £1500:
"Fast, future-proof, well-equipped and based around lightning-fast Pentium II technology"
Platinum II December 1997



"This is a well specified system... and is configured appropriately for both home and games usage, delivering very good performance."

"Evesham's Vale gets our vote for it's overall level of presentation."
Platinum II December 1997

PC PRO	PERFORMANCE	FEATURES	VALUE FOR MONEY	OVERALL
○○○○○	○○○○○	○○○○○	○○○○○	○○○○○

Evesham Vale



Platinum II SE

All EveshamVale Pentium II models are based on the new Chaintech 6LTM motherboard with Intel's 440LX chipset. This adds support for SDRAM and Ultra ATA hard disks, as well as AGP (Accelerated Graphics Port) - the new standard for video sub-systems. Take a look at the graph to see the benefits of AGP.

Platinum II SE models:

- ◆ Chaintech motherboard with Intel 440LX PCIset, and SeePU and APTC technologies
- ◆ 512kb Pipeline-Burst cache 64Mb SDRAM, expandable to 256Mb
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 6.4Gb Quantum Fireball ST Ultra ATA hard disk
- ◆ 8Mb ATI Xpert@work AGP 3D graphics accelerator
- ◆ or 4Mb Matrox Millennium II PCI (no cost option)
- ◆ 17" Taxan Ergovision 750 TCO95 monitor with DiamondTron tube
- ◆ Panasonic CR-585 24x CD-ROM drive
- ◆ Creative Labs SB AWE64 Value wavetable sound card
- ◆ Multimedia Labs TC1500 speakers
- ◆ K56flex modem
- ◆ Microsoft Intellimouse
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline

Platinum II SE models also feature:

- ◆ Intel Slot One for processor upgrades
- ◆ Year 2000 ready BIOS
- ◆ 4xPCI & 3x16-bit expansion slots (one shared)
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Keytronic PS/2 "Windows 95" keyboard
- ◆ Choice of high quality ATX style desktop or mid-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ Windows 95 installed, with full manuals and disks supplied



Reviews



"Our Editors' Choice goes to the Evesham Vale Platinum II SE 266, based on its combination of price, features and performance"

"As well as being one of the fastest systems here, the Platinum II SE 266's build quality is of the highest order"

"the whole system feels solid and reliable"

"The best combination of performance, features and price is offered by the Evesham Vale Platinum II SE 266. Our brief to the manufacturers emphasised performance, features and manageability appropriate to the needs of an advanced Windows 95 user, and this system combines all of these in a package that offers superb value for money"

"Performance, good build quality, good expansion capabilities, a well-thought-out design and a good support package all combine to produce an award-winning system"

"few could challenge the outright Windows 95 performance of this system at the price."

"In Brief: fast, well constructed, and tremendous value for money - in fact, there's not much to criticise about this system."

October 1997 Platinum II SE 266



"Fastest PC on the Planet"

"Evesham has put together a 'no expense spared' system, which shows what the 266MHz Pentium II can do - it's breathtaking"

"Evesham must know something others don't about heat generation - there's certainly little to support the 'hot running' rumours here"

"The NT results could best be described as blistering"

"What distinguishes this machine beyond doubt is its Windows NT performance. Turning in a PC Plus index of 4.24, the highest we've ever seen, earns it a Performance award"

"PC Plus Verdict: 9/10"

August 1997 Platinum II SE 266



"I thought you might like to read about the fastest PC I've ever tested"

"All this cutting edge hardware adds up to a machine which goes faster than a greyhound on Lassie Vindaloo Chunks."

"PC Gamer Verdict: 88%"

July 1997 Platinum II SE 266

64Mb SDRAM, 6.4Gb hard disk

	MULTIMEDIA	Media98
Pentium II 233	£1779-VAT (£2090.33)	£1859-VAT (£2184.33)
Pentium II 266	£1879-VAT (£2207.83)	£1959-VAT (£2301.83)
Pentium II 300	£2029-VAT (£2384.08)	£2109-VAT (£2478.08)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

See page 3 for details of Media98 pack.

Platinum SE upgrades

OPERATING SYSTEM	
Windows NT4 (supplied on CD-ROM).....	£75+VAT (£88.13)
RAM & DISK DRIVES	
64Mb to 128Mb RAM.....	£260+VAT (£305.50)
64Mb to 256Mb RAM.....	£680+VAT (£799.00)
Panasonic 120Mb floppy disk drive (instead of 1.44Mb unit).....	£60+VAT (£70.50)
VIDEO CARDS & MONITORS	
Matrox Millennium II 8Mb.....	£99+VAT (£116.33)
17" iiyama Vision Master Pro.....	£20+VAT (£23.50)
21" Taxan Ergovision.....	£530+VAT (£622.75)
21" iiyama Vision Master Pro.....	£550+VAT (£646.25)
MULTIMEDIA HARDWARE	
No CD-ROM drive.....	deduct £50+VAT (£58.75)
Panasonic 650Mb FD drive (instead of CD-ROM).....	£149+VAT (£175.08)
Panasonic PD media.....	£19+VAT (£22.33)
Panasonic PD media 3 pack.....	£49+VAT (£57.58)
SoundBlaster AWE64 Gold.....	£90+VAT (£105.75)
TC1680 speakers system.....	£89+VAT (£104.56)
SP7000 sub-woofer.....	£39+VAT (£45.83)
CONNECTIONS	
12 months Internet access.....	£99+VAT (£116.33)
No modem.....	deduct £50+VAT (£58.75)
ROMEGA STORAGE SOLUTIONS (SEE PAGE 12)	
100Mb zip drive (internal).....	£75+VAT (£88.13)
1Gb iaz drive inc. SCSI card (internal).....	£281+VAT (£330.18)
SUPPORT	
Basic installation/training service.....	£50+VAT (£58.75)
Third year maintenance insurance: Models up to £250.....	£99 (VAT exempt)
Models over £250.....	£119 (VAT exempt)



A Platinum II SE PC with optional 21" Taxan DiamondTron monitor

Platinum SE

Platinum SE models differ from above in the following respects:

- ◆ AMD-K6 or Intel Pentium processor
- ◆ Intel Socket 7 for processor upgrades
- ◆ Intel 430TX PCIset
- ◆ 4Mb Matrox Millennium II PCI graphics accelerator

64Mb SDRAM, 6.4Gb hard disk

	MULTIMEDIA	Media98
AMD K6-1 200 MMX	£1519-VAT (£1784.83)	£1599-VAT (£1878.83)
AMD K6-1 233 MMX	£1569-VAT (£1843.58)	£1649-VAT (£1937.58)
P200 MMX	£1549-VAT (£1820.08)	£1629-VAT (£1914.08)
P233 MMX	£1619-VAT (£1902.33)	£1699-VAT (£1996.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

See above for upgrades

See page 3 for details of Media98 pack.

Reviews



"This month, just one system has been rated as so outstanding that it has been awarded a PC Direct Best Buy award." April 1996 Platinum SE 166



"In our tests the Evesham performed superbly thanks to a decent configuration... Build quality is exceptional... Aspiring PC manufacturers should get hold of one of Evesham's machines to see how it's done." October 1996 Platinum SE 166



"The Vale Platinum SE gave a good account of itself in both the high-end tests and the PhotoDeluxe MMX test. With a generous games/multimedia bundle, plus an internal 33.6kbps modem, it's good value for money." March 1997 Platinum SE 200



"consistently among the best performers in PC Labs' tests, with notably good graphics and disk WinMark results... outstripping the others on price and features, was our Editors' Choice, the Evesham Vale Platinum SE Pro." November 1996 Platinum SE Pro 200



"As always, we tried hard to be critical - but this time around, we have to hold our hands up and admit that the Platinum SE is a great system. So, is there anything negative to say? We could try and claim that the casing is plain and ugly, but then, they all are aren't they?" Rating: 4.5/5 stars November 1997 Platinum SE K6-200



"Top-notch performance plus a below-average price make the Vale Platinum SE K6 200 excellent value for money." November 1997 Platinum SE K6-200

Multimedia software bundles

Available with any EveshamVale Multimedia or Media98 PC - see page 3 for details

JOIN

THE A LIST



AND GET THE T-SHIRT!



The 'A List' is the recognition that *PC Pro* magazine bestows on the very best PCs and components that it tests. EveshamVale models currently occupy the two top positions – 'Fastest PC' and the 'Best PC for under £1500'.

"THE BEST PC EVER"

The Platinum II 'A List' is identical to the "Best PC ever" featured in *PC Pro*, except that we now supply our own monitors (and a choice of the 17" Taxan, also from the 'A List'). Oh - and we have reduced the price too!

Platinum II 'A List' key features:

- ◆ 266MHz Intel Pentium II processor
- ◆ 64Mb SDRAM
- ◆ Choice of monitors: Vale 15SH or 17SH, or 17" Taxan DiamondTron

Other features as standard Platinum II models (page 5)

Platinum II 'A List' models		
	MULTIMEDIA	Media98
15" Vale	£1349 .00 (£1585.08)	£1429 .00 (£1678.08)
17" Vale	£1499 .00 (£1761.33)	£1579 .00 (£1855.33)
17" Taxan	£1649 .00 (£1937.58)	£1729 .00 (£2031.58)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

See Platinum models (page 5) for upgrades

Now £50 less than the review price!

See page 3 for details of Media98 pack.



PC for under £1500: EveshamVale Platinum II

"Fast, future-proof, well-equipped and based around lightning fast Pentium II technology"



"THE BEST PC EVER"

"You'll be amazed at how much power you can buy for £1500. We put 18 machines through their paces. Only two came up trumps, and one is the best PC we've ever seen"

"Despite the affordable price point, Evesham has still managed to include cutting edge components to produce a machine that can cope with anything thrown at it"

"Evesham has created a lightning-fast PC at a really low price point. If you want cutting-edge technology, without taking out a second mortgage, look no further. This is a worthy speed award winner"

"Evesham is definitely building a reputation for producing fast PCs. The Platinum II is the second Pentium II-based Evesham system to win an award in three months"

"The EveshamVale Platinum II is quite simply the fastest PC on test, and considering the price it's an amazing machine"

"Verdict: A Pentium II system built from top-quality components at a great price. The performance is superb, earning Evesham the Speed award"

December 1997 EveshamVale Platinum II

PC PRO	PERFORMANCE	○○○○○○
	FEATURES	○○○○○○
	VALUE FOR MONEY	○○○○○○
	OVERALL	○○○○○○

"FASTEST PC"

The Platinum II SE 'A List' is based on the "Fastest PC" featured in *PC Pro*, with 300MHz Pentium II processor and 64Mb SDRAM, but we have now improved the performance even further with the AGP video card.

Platinum II SE 'A List' models also feature the following 'A List' components:

- ◆ 4.5Gb Seagate Cheetah hard disk and Adaptec 2940UW controller (SCSI models)
- ◆ Creative Labs SoundBlaster AWE64 Gold wavetable sound card

We have also introduced an IDE model to keep costs reasonable:

- ◆ 6.4Gb Quantum Fireball ST Ultra ATA hard disk (IDE models)

All other features as standard Platinum II SE models - see left

Platinum II 'A List' models		
	MULTIMEDIA	Media98
IDE model	£2099 .00 (£2466.33)	£2179 .00 (£2560.33)
SCSI model	£2549 .00 (£2995.08)	£2629 .00 (£3089.08)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

See Platinum SE models for upgrades

Now £450 less than the review price!

See page 3 for details of Media98 pack.



Fastest PC: EveshamVale Platinum II SE

"There's more to building a fast PC than just including a state-of-the-art processor. Evesham Micros obviously realises this, as it's surrounded a 300MHz Pentium II

processor with numerous high-performance components in this system... It's these components, as well as the 300MHz processor, that lifts the Platinum II above the competition"

"The Platinum is also extraordinarily well featured... it may seem expensive, but it's actually a fair price to pay for such a future-proof PC"

"Summary: An incredibly fast and well-featured system at a fair price, considering the specs"

December 1997 EveshamVale Platinum II SE



PC PRO	PERFORMANCE	○○○○○○
	FEATURES	○○○○○○
	VALUE FOR MONEY	○○○○○○
	OVERALL	○○○○○○

Why not choose your 'A List' PC with the 'A List' monitor?



"A decent monitor with great image quality owing to the excellent DiamondTron tube."

"A beneficial aspect of the DiamondTron tube is it's so-called short neck, which reduces the depth of the cabinet, leaving more actual desk-space free in front of it."

"Given the price, the peace of mind bestowed by the TCO95 certification, which is the toughest standard governing electromagnetic emissions, and the combination of comprehensive controls and good image quality, the Ergovision is well worth a look."

June 1997 Taxan Ergovision 750 TCO95



"The DiamondTron tube is bright and vibrant.. The image is sharp, clean and does not suffer from misconvergence... The power supply and regulator are excellent, and were unfazed by our tricky tests."

"Great spec, image and price... An excellent choice."

May 1997 Taxan Ergovision 750 TCO95



A Platinum II SE 'A List' PC with 17" Taxan DiamondTron monitor

CAMBRIDGE
01223 323898 Evesham Micros
Fax: 01223 322883

FREEPHONE DIRECT SALES
0800 6345 999
Web: <http://www.evesham.com>

MILTON KEYNES
Evesham Micros 01908 230898 7
Fax: 01908 230865

EveshamVale

Voyager 2000

A flexible approach to mobile computing.



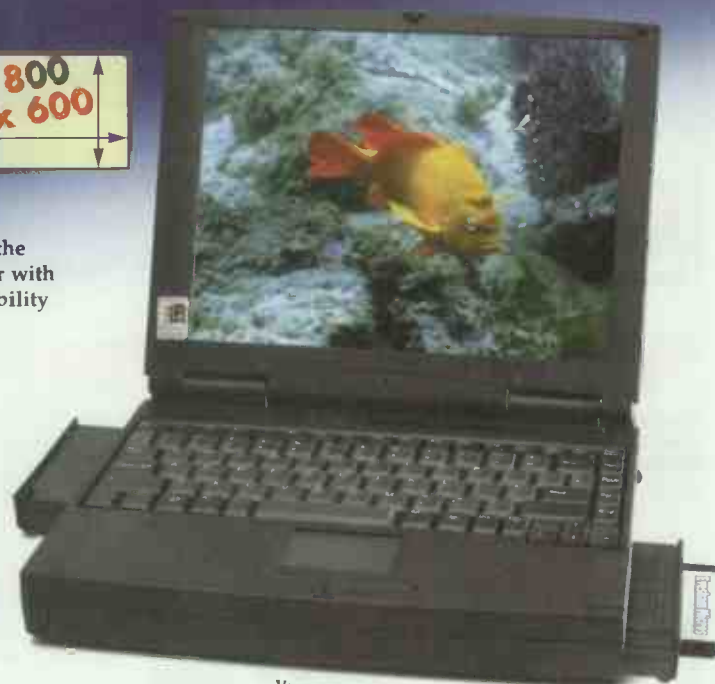
The Voyager 2000 is the perfect solution for the person on the move. With the unique adaptability of the two device bays this notebook provides the user with all the performance they would demand from a desktop PC, but with flexibility that is hard to beat.

Voyager 2000 models:

- ◆ 2 year warranty, with accidental damage insurance
- ◆ Intel Pentium® processor
- ◆ 256kb asynchronous cache
- ◆ 16Mb EDO RAM (max 64Mb)
- ◆ Removable hard disk
- ◆ 2Mb 64bit PCI graphics accelerator
- ◆ 12.1" colour display with 800x600 SVGA resolution
- ◆ 3.5Ah NiMH battery
- ◆ Extensive power management features, including 'suspend to RAM' and 'suspend to disk'

Voyager 2000 models also feature:

- ◆ 297 x 231 x 52mm
- ◆ 3.2kg
- ◆ Good solid keyboard with Windows 95 keys
- ◆ Built-in touchpad with palm rest
- ◆ Built-in 16bit stereo sound with stereo speakers and microphone
- ◆ 3.5" floppy drive
- ◆ Windows 95 installed
- ◆ ZV-enabled PCMCIA ports for two type II or one type III card
- ◆ 16550 compatible serial port
- ◆ EPP/ECP bi-directional parallel port
- ◆ PS/2 mouse or keyboard port
- ◆ External monitor port (runs simultaneously)
- ◆ Jacks for external speakers and stereo line in
- ◆ Infra red data link
- ◆ Anchor for Kensington security cable



Voyager 2000

12.1" display, NiMH battery, 16Mb EDO RAM

	Standard	Media98
P166 MMX, DSTN, 1.4Gb HDD	£1049-VAT (£1232.58)	£1229-VAT (£1444.08)
P166 MMX, TFT, 1.4Gb HDD	£1299-VAT (£1526.33)	£1479-VAT (£1737.83)
P200 MMX, DSTN, 2.1Gb HDD	£1149-VAT (£1350.08)	£1329-VAT (£1561.58)
P200 MMX, TFT, 2.1Gb HDD	£1399-VAT (£1643.83)	£1579-VAT (£1855.33)

Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch. Media98 models include the cost of the CD-ROM drive.

See page 3 for details of Media98 pack.

FLEXIBLE DEVICE BAYS

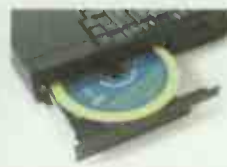
The Voyager 2000 has two device bays, so you can fit any two of the following:

- Battery (standard)
- Mains PSU (standard)
- Floppy drive (standard)
- CD-ROM drive (optional)
- Second battery (optional)

For example - If you are away on business, the mains PSU fits inside and you can leave the battery at home. For long distance travelling you can fit two batteries.



Mains PSU installed in the left hand device bay



CD-ROM drive (optional) installed in the right hand device bay

Devices clip in and out, and can be changed in seconds. The mains PSU connects via a cable if both of the bays are otherwise occupied.

Buy now - pay June 1998

Buy any Vale Media98 model and you can defer payment for 6 months - see page 2 for details.

Voyager 2000 upgrades

POWER SUPPLY	
Additional battery	£99+VAT (£92.83)
Car/cigar lighter adaptor	£79+VAT (£92.83)
RAM & HARD DISK	
16Mb RAM module	£69+VAT (£81.08)
32Mb RAM module	£139+VAT (£163.33)
1.4Gb to 2.1Gb HDD	£70+VAT (£82.25)
MULTIMEDIA	
10x CD-ROM drive (included as standard with Media98 models)	£99+VAT (£116.33)
COMBINATION PACKS	
"Internet ready" pack - see page 13	£179+VAT (£210.33)
DESKTOP EXPANSION	
External keyboard	£29+VAT (£34.08)
Zy-Fi™ 2 amplified speakers - see page 14	£29+VAT (£34.08)

We've got you...

2 YEAR WARRANTY WITH ACCIDENTAL DAMAGE INSURANCE

On-site maintenance is not really practical with notebook computers - but how many of our competitors look after you this well? All Voyager notebooks have a two year 'return to base' warranty with accidental damage insurance as well! For a modest sum you can extend this peace of mind to three years.

Computer Luggage

Stylish, practical carry cases for your notebook and accessories.



Pisa £65+VAT (£76.38)



Hamburg £50+VAT (£58.75)



New York (back pack) £35+VAT (£41.13)



Madrid £30+VAT (£35.25)

Multimedia software bundles

Available with any EveshamVale Multimedia or Media98 PC - see page 3 for details

Voyager 3000

Now a fast multimedia notebook can be slim and stylish!



Value for money 10/10.
 "Looking at the Voyager's sleek lines, it's hard to believe what's been squeezed in. The Voyager is quite an achievement. It's only the second notebook we've seen to pack hard drive, floppy, CD-ROM, PCMCIA slots and battery into an A4-sized case, and this is a lot less bulky than most of the others in the group." Voyager 3000 TFT Colour May 1997

The Voyager 3000 stands at just 1.8" high – yet for it's compactness it's hard to believe what's been squeezed in.

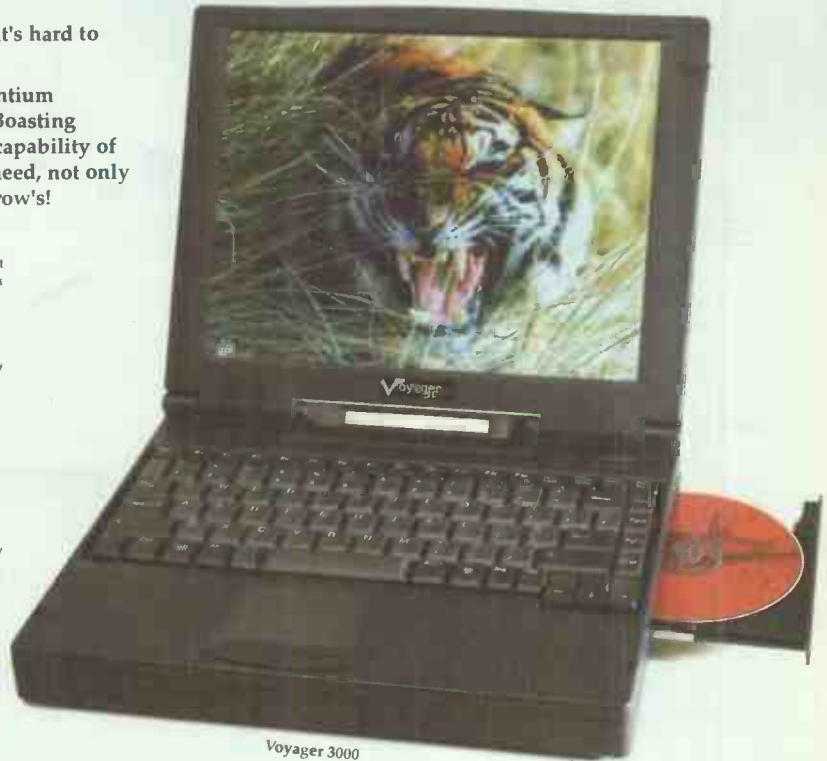
The Voyager 3000 series incorporates a low voltage Intel Mobile Pentium processor for maximum battery life and outstanding performance. Boasting speeds of up to 233 MHz with MMX technology and an expansion capability of up to 96Mb EDO RAM, this provides you with all the muscle you need, not only for today's demanding multimedia applications, but also for tomorrow's!

Voyager 3000 models:

- ◆ 2 year warranty, with accidental damage insurance
- ◆ Low voltage Intel Mobile Pentium® processor for maximum battery life
- ◆ 256kb asynchronous cache
- ◆ 32Mb EDO RAM (max 96Mb)
- ◆ High performance 2.1Gb enhanced IDE hard disk
- ◆ 2Mb 64bit PCI graphics accelerator
- ◆ 800x600 resolution with 64000 colour palette
- ◆ 4.0Ah NiMH battery
- ◆ Extensive power management features, including 'suspend to RAM' and 'suspend to disk'
- ◆ 10 speed CD-ROM drive built-in
- ◆ Superior quality fit and finish
- ◆ Super slim design

Voyager 3000 models also feature:

- ◆ Composite video output for suitable TV set
- ◆ Optional port replicator gives instant conn peripheral on your desk
- ◆ MIDI/game port
- ◆ 2 year 'return to base' warranty
- ◆ 297 x 236 x 46mm (11.3" & 12.1" models)
- ◆ Good solid keyboard with Windows 95 key
- ◆ Built-in touchpad with palm rest
- ◆ Built-in 16bit stereo sound with stereo speakers and microphone
- ◆ 3.5" floppy drive
- ◆ Windows 95 installed
- ◆ ZV-enabled PCMCIA ports for two type II or one type III card
- ◆ 16550 compatible serial port
- ◆ EPP/ECP bi-directional parallel port
- ◆ PS/2 mouse or keyboard port
- ◆ External monitor port (runs simultaneously)
- ◆ Jacks for external speakers and stereo line in
- ◆ Infra red data link
- ◆ Anchor for Kensington security cable



Voyager 3000

NiMH battery, 32Mb EDO RAM, 2.1Gb HDD

	MULTIMEDIA	Media98
P166 MMX 11.3" DSTN	£1499 [•] (VAT £1761.33)	£1579 [•] (VAT £1855.33)
P166 MMX 12.1" TFT	£1999 [•] (VAT £2348.83)	£2079 [•] (VAT £2442.83)

Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch.



See page 3 for details of Media98 pack.

...covered

3RD YEAR WARRANTY

Models up to £1700+VAT.....£39
 Models from £1700+VAT to £2500+VAT.....£129
 Models from £2500+VAT to £3200+VAT.....£179
 The extended warranty rates are exempt from VAT and are applicable only at time of purchase.



Voyager 3000 closed view

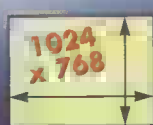
Voyager 3000 upgrades

- POWER SUPPLY**
 NiMH battery (3000 models).....£69+VAT (£81.08)
 Li-Ion battery (3500 models).....£99+VAT (£116.33)
 Additional PSU.....£299+VAT (£351.33)
 Car cigar lighter adaptor.....£79+VAT (£92.83)
- RAM & HARD DISK**
 16Mb RAM module.....£79+VAT (£92.83)
 32Mb RAM module.....£149+VAT (£175.08)
 64Mb RAM module.....£299+VAT (£351.33)
 2.1Gb to 3.2Gb HDD.....£100+VAT (£117.50)
- COMMUNICATIONS**
 "Internet ready" pack
 - see page 13.....£179+VAT (£210.33)
- DESKTOP EXPANSION**
 Port replicator.....£69+VAT (£81.08)
 External keyboard.....£29+VAT (£34.08)
 Zy-Fi® 2 amplified speakers
 - see page 14.....£29+VAT (£34.08)

Voyager 3500

Voyager 3500 models differ in the following respects:

- ◆ 1024x768 resolution 13.3" TFT display with 64000 colour palette
- ◆ 3.6Ah Li-Ion battery for maximum life and minimum weight
- ◆ 3.2Gb hard disk
- ◆ 310 x 245 x 52mm



See page 3 for details of Media98 pack.

Li-Ion battery, 32Mb EDO RAM, 3.2Gb HDD

	MULTIMEDIA	Media98
P200 MMX 13.3" TFT	£2699 [•] (VAT £3171.33)	£2779 [•] (VAT £3265.33)
P233 MMX 13.3" TFT	£2849 [•] (VAT £3347.58)	£2929 [•] (VAT £3441.58)

Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch.

PCMCIA CARD OPTIONS

- Vale 33.6 modem.....£116.33
- Vale ethernet adaptor.....£79 (VAT £81.08)
- USR Sportster Xjack modem.....£155 (VAT £182.13)
- Pace microlin NB 33.6 voice.....£162 (VAT £190.35)
- 3Com Etherlink III 10BaseT LAN & 33.6 modem combo.....£178 (VAT £209.15)
- Psion Gold Card 56.6 modem.....£224 (VAT £263.20)
- Psion Gold Card Combo LAN & 33.6 modem.....£231 (VAT £271.43)
- Xircrom Global Access 10BaseT LAN & 33.6 modem combo.....£219 (VAT £257.33)

For six years we've made Vale Computers the centre of our business...
...isn't it time they were the centre of yours?

Sabre Server EL

- Intel Pentium® 166MHz processor with Intel 430TX chipset
- or Intel Pentium® II 233MHz processor with Intel 440FX chipset
- 32Mb high performance RAM
- 512kb Pipeline-Burst cache
- 3.2Gb IDE hard drive
- 10/100Mbps PCI ethernet card
- Panasonic CD-ROM drive
- 1Mb PCI video card
- 14" SVGA colour monitor
- ATX style midi-tower case
- 3 years on-site maintenance

from **£949** +VAT

Business Rental Scheme: **£34.14** +VAT per month
3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

PII-233 model **£1299** +VAT

Business Rental Scheme: **£46.73** +VAT per month
3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

Sabre/EL upgrades

- Processor
- P166 to P200MMX.....£80 +VAT
 - P II-233 to P II-266.....£100 +VAT
 - P II-233 to dual P II-233.....£300 +VAT
 - P II-233 to dual P II-266.....£500 +VAT
- Sabre/EL models do not support dual CPUs
- RAM
- 32Mb to 64Mb.....£80 +VAT
 - 64Mb to 128Mb.....£260 +VAT
- Hard disk
- 2Gb SCSI to 4Gb SCSI.....£390 +VAT
 - 2Gb SCSI to 9Gb SCSI.....£590 +VAT

VALE Sabre Server range

The Vale Sabre range offers a building block solution to your server requirements. From a modest print and file server to a powerful NT implementation, the possibilities are endless.

Sabre Server

- Server models differ from Sabre EL models in the following respects
- Intel Pentium® II 233MHz processor (upgradeable to dual processors)
 - Dual processor capable motherboard featuring Intel 440FX chipset
 - 64Mb high performance RAM
 - Adaptec Ultra Wide SCSI controller
 - 2Gb SCSI hard drive
 - Dedicated case with 6 further drive bays behind lockable front panel
 - Dual redundant PSU's

from **£1999** +VAT

Business Rental Scheme: **£71.90** +VAT per month
3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.



A Vale Sabre fileserver

VALE Samurai RAID Server

Vale Samurai RAID Servers provide the ultimate solution to your mission critical system requirements. The stability of the Adaptec RAID controller combines with the power of Intel's Pentium® II processor giving maximum performance under Windows NT or Netware. By utilising this industry proven technology you can rest assured that your data integrity will be maintained.

Samurai RAID Server

- Intel Pentium® II 233MHz processor (upgradeable to dual processors)
- Dual processor capable motherboard featuring Intel 440FX chipset
- 512kb Pipeline-Burst cache
- Adaptec AAA-131 RAID controller
- 64Mb high performance RAM
- 10/100Mbps PCI ethernet card
- Dual redundant PSU's
- Panasonic CD-ROM drive
- 10Gb SCSI RAID 5 array with hot swappable hard drives
- 1Mb PCI video card
- 14" SVGA colour monitor
- 3 years on-site maintenance

from **£3399** +VAT

Business Rental Scheme: **£122.26** +VAT per month
3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

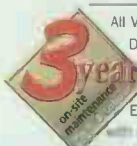
Hardware delivery and commissioning by an Evesham Micros engineer is included in the price



Closed view

Samurai upgrades

- Processor
- P II-233 to P II-266.....£100 +VAT
 - P II-233 to dual P II-233/£300 +VAT
 - P II-233 to dual P II-266/£500 +VAT
- RAID ARRAY
- 10Gb to 20Gb RAID.....£1249 +VAT
- Adaptec to DPT 4Mb RAID controller.....£799 +VAT
- RAM
- 64Mb to 128Mb.....£260 +VAT
 - 64Mb to 256Mb.....£680 +VAT
- DAT DRIVE
- 48Gb DAT drive.....£650 +VAT



All Vale Fileservers and DesignStations have 3 years on-site maintenance for parts and labour, operated by Evesham Micros' own engineers, next business day response.

Vale NetStation

If low cost of ownership is important to your business, then look no further. NetStation is based on the new Intel 430TX chipset which offers a greater degree of network manageability.



Vale NetStation

NetStation

- Intel Pentium® P166MMX processor
- Intel 430TX chipset
- 32Mb SDRAM
- 512kb Pipeline-Burst cache
- 2Gb IDE hard drive
- 1Mb PCI video card
- 14" SVGA colour monitor
- 10x CD-ROM drive
- 10Mbps ethernet
- Low profile chassis
- LANDESK client manager licence
- 1 year return to base warranty

from **£849** +VAT

Business Rental Scheme: **£30.54** +VAT per month
3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

NetStation upgrades

- Processor
- P166MMX to P200MMX.....£70 +VAT
- RAM
- 32Mb to 64Mb.....£80 +VAT
- Hard disk
- 2Gb to 3Gb IDE.....£40 +VAT
- MONITOR
- 14" to Vale 15".....£50 +VAT
 - 14" to Vale 17".....£200 +VAT
- WARRANTY
- 2 years on-site maintenance.....£65 +VAT

Reviews



"Evesham's Vale Professional NT Workstation is a very capable and well specified Pentium Pro system, and although expensive, represents good value for money... Well-specified thanks to its well integrated Intel motherboard, the NT Workstation has performance to spare." **June 1997 DesignStation.**



"The well-balanced configuration and great build quality makes for a good workhorse with a huge capacity." **February 1997 DesignStation.** "the folk in the UNIX camp must be beginning to sweat... As Evesham Micro's flagship CAD machine, the DesignStation is a solid machine from the motherboard up." **August 1997 DesignStation.**



"a well specified and capable system and in use proved to be an ideal system for running CAD solid modelling applications... For someone moving from DOS of Windows 3.11 up to a Windows NT platform, this system represents good value for money." **July 1997 DesignStation.**



"If you were going to invest in a dual processor-capable Pentium Pro system of this spec, then you should be looking to spend your money with someone who understands how to configure it. Evesham fits this profile... Evesham was also the only company to install the latest NT Service pack. This gives you confidence that the company actually understand the issues that NT raises... We were sufficiently well-impressed with the Evesham, both in terms of its components and its configuration, that it receives a Technical Merit award." **June 1997 Vale Platinum SE Dual Pro 200.**



Best "Product knowledge of sales staff" In "Quality of IT Suppliers 1995" survey.



"Business NT servers" **June 1996 Vale Fileserver**

VALE DesignStation

Power user? CAD/CAM user?

Experience astonishing performance at a fraction of the cost of a typical Workstation from the likes of Sun or Silicon Graphics with Vale DesignStations. Using a combination of single or dual Intel Pentium II processors, huge RAM capacity, the latest Diamond GL equipped graphics cards and Microsoft's Windows NT4 operating system, you are guaranteed unsurpassed power for your pound.



Vale DesignStation

DesignStation

- Intel Pentium® II 233MHz processor (upgradeable to dual processors)
- Dual processor capable motherboard featuring Intel 440LX chipset
- 64Mb SDRAM
- 512kb Pipeline-Burst cache
- On-board adaptec UW SCSI controller
- 2Gb SCSI hard drive
- 10/100Mbps PCI ethernet card
- Panasonic CD-ROM drive
- 4Mb Matrox Millennium II PCI video card
- Iiyama VisionMaster 17" monitor
- 3 years on-site maintenance

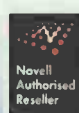
from **£1999** +VAT

Business Rental Scheme: **£71.90** +VAT per month
3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

DesignStation upgrades

- Processor
- P II-233 to P II-266.....£100 +VAT
 - P II-233 to P II-300.....£250 +VAT
 - P II-233 to dual P II-233.....£300 +VAT
 - P II-233 to dual P II-266.....£500 +VAT
- RAM
- 64Mb to 128Mb.....£260 +VAT
 - 64Mb to 256Mb.....£680 +VAT
- Hard disk
- 2Gb to 4Gb SCSI.....£390 +VAT
 - 2Gb to 9Gb SCSI.....£550 +VAT
- MONITOR
- 17" to Iiyama 17" Pro.....£80 +VAT
 - 17" to Iiyama 21".....£526 +VAT
 - 17" to Iiyama 21" Pro.....£560 +VAT
- VIDEO CARD
- 4Mb ATI Xpertwork AGP.....no cost option
 - 8Mb ATI Xpertwork AGP.....£60 +VAT
 - Diamond CL1000.....£130 +VAT
 - 40Mb Diamond CL3000.....£1200 +VAT
 - Diamond CL4000.....£2200 +VAT
- DAT DRIVE
- 48Gb DAT drive.....£650 +VAT

Novell.



Business Sales Centres:

Evesham (fax 01296 795354) • **MILTON KEYNES** (fax 01908 230865)

BIRMINGHAM (fax 0121 711 1111) • **CAMBRIDGE** (fax 01223 322883)

10 NOW OPEN IN GLASGOW (fax 0141 445 2626)

Call our FREEPHONE number to discuss your requirements.

0800 765500

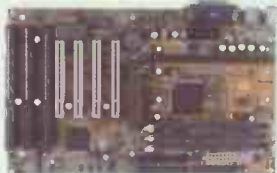
Evesham Micros Peripherals

MOTHERBOARDS

Buy a motherboard and processor together, and you get a free heatsink and fan.

Name	Form factor	Processor support			Chipset	Cache	RAM support			Exp. slots			Price
		K6	Pentium	Pentium II			Fast page/EDO	SD	ISA	PCI	AGP	USB	
Vale Value	Baby AT		•		Vale	256kb	•		3*	3*		N/A	£39+VAT (£45.83)
Vale P5+	Baby AT		•		430FX	256kb	•		3*	3*		N/A	£49+VAT (£57.58)
Intel Marl	ATX		•		430HX	256kb	•		3*	4*		N/A	£69+VAT (£81.08)
Chaintech 5TDM	Baby AT	•	•		430TX	512kb	•	•	3*	4*		Opt†	£79+VAT (£92.83)
Chaintech 5TTM	ATX	•	•		430TX	512kb	•	•	4*	4*		Opt†	£85+VAT (£99.88)
Supermicro P5MMS	Baby AT		•		430TX	512kb	•		4*	4*		•	£105+VAT (£123.38)
Supermicro P5MMA	ATX		•		430TX	512kb	•		3*	4*		•	£106+VAT (£124.55)
Chaintech 6LTM	ATX		•	•	440LX	on CPU	•	•	3*	4*	1	•	£129+VAT (£151.58)
Tyan Tahoe 2	ATX			•	440FX	on CPU	•	•	3*	5*		Opt†	£239+VAT (£280.83)

*Vale Value supports up to P120, Vale P5+ supports up to P166 (not MMX) †One slot shared ‡Use of USB requires cable @ £5+VAT (£5.88)



Chaintech 6LTM

- ATX form factor
- Supports Intel Pentium II processors, up to 300MHz:
- Supports 66, 68.5, 75 & 83MHz bus speeds
- SeeCPU and APTC technologies
- Intel 440LX chipset
- 512kb cache
- Supports EDO & SDRAM up to 384Mb
- 1xAGP slot
- 4xPCI & 3xISA expansion slots (one shared)
- 2x USB ports on-board

£129 +VAT (£151.58)

SeeCPU Innovative simple CPU installation via BIOS – no jumpers

APTC High security Active Processor Temperature Control – multi-level CPU temperature protection function



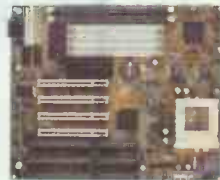
Chaintech 5TTM

- ATX form factor
- Supports the following processors, up to 233MHz: Intel Pentium & Pentium with MMX technology, AMD K5 & K6 MMX, Cyrix 6x86
- Supports 66 & 75MHz bus speeds
- SeeCPU and APTC technologies
- Intel 430TX chipset
- 512kb cache
- Supports EDO & SDRAM up to 256Mb
- 4xPCI & 4xISA expansion slots (one shared)
- Dual channel USB port (requires optional cable @ £5+VAT (£5.88))

£85 +VAT (£99.88)

ANAND'S HARDWARE TECH PAGE "At all speeds the Chaintech 6LTM smokes the competition"

RUN!PC "Technology Creativity" award, Chaintech 5TDM & 5TTM, June 1997



Chaintech 5TDM

- Baby AT form factor
- Supports the following processors, up to 233MHz: Intel Pentium & Pentium with MMX technology, AMD K5 & K6 MMX, Cyrix 6x86
- Supports 66 & 75MHz bus speeds
- SeeCPU and APTC technologies
- Intel 430TX chipset
- 512kb cache
- Supports EDO & SDRAM up to 256Mb
- 4xPCI & 3xISA expansion slots (one shared)
- Dual channel USB port (requires optional cable @ £5+VAT (£5.88))

£79 +VAT (£92.83)

ANAND'S HARDWARE TECH PAGE "features the spectacular SeeCPU jumperless CPU setup" "I suggest that you seriously consider the Chaintech 5TDM"

Ratings: Performance ★★★★★
Ease of use ★★★★★
Documentation ★★★★★

PC SHOPPING TIP
Chaintech 5TDM, June 1997

PC Advisor
Tyan Tahoe 2, June 1997

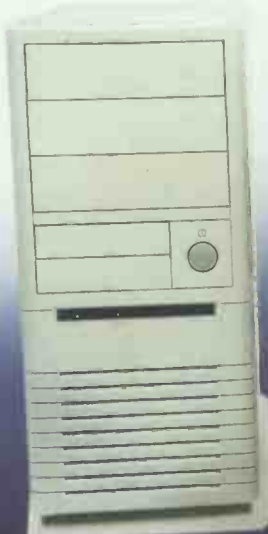
Motherboard special offers:

- Chaintech 5TDM with K6-200 MMX processor, fan, & 32Mb SDRAM.....£259+VAT (£304.33)
- Chaintech 5TTM with Pentium P200 MMX processor, fan, & 32Mb SDRAM.....£299+VAT (£351.33)
- Chaintech 6LTM with Pentium II 233 processor, fan, & 32Mb SDRAM.....£479+VAT (£562.83)
- Chaintech 6LTM with Pentium II 266 processor, fan, & 32Mb SDRAM.....£579+VAT (£680.33)

UPGRADE YOUR PC

Q How do you give your system a serious performance boost without spending a fortune?

A Easy – get one of our 'Upgrade PCs' and use your existing monitor, floppy drive etc.



430VX upgrade PC

Midi-tower case fitted with:

- ◆ 430VX chipset motherboard
 - ◆ Processor & fan
 - ◆ Power supply
 - ◆ 16Mb EDO RAM
 - ◆ 1Mb video card
- NB – has baby AT keyboard port and serial mouse port
- AMD K6-200 MMX ...£299 +VAT (£351.33)
- Pentium P200 MMX...£339 +VAT (£396.33)

Pentium II upgrade PC

Midi-tower case fitted with:

- ◆ ATX style motherboard with 440LX chipset
 - ◆ Pentium II processor
 - ◆ Power supply
 - ◆ 32Mb SDRAM
- NB – has 1 1/2 keyboard and mouse ports
- P-II 233.....£549 +VAT (£645.08)
- P-II 266.....£649 +VAT (£762.58)

ATX upgrade PC

Midi-tower case fitted with:

- ◆ ATX style motherboard with 430TX chipset
 - ◆ Processor & fan
 - ◆ Power supply
 - ◆ 32Mb SDRAM
 - ◆ 2Mb video card
 - ◆ 24 speed CD-ROM drive
- NB – has 1 1/2 keyboard and mouse ports
- AMD K6-200 MMX.....£459 +VAT (£539.33)
- Pentium P200 MMX.....£499 +VAT (£586.33)

CAMBRIDGE
01223 323898 Evesham Micros
Fax: 01223 322883

FREEPHONE DIRECT SALES
0800 6345 999
Web: http://www.evesham.com

PROCESSORS



K6-200 MMX	£120+VAT (£141.00)
K6-233 MMX	£180+VAT (£211.50)
Pentium 166 MMX	£89+VAT (£104.58)
Pentium 200 MMX	£175+VAT (£205.63)
Pentium 233 MMX	£255+VAT (£299.63)
Pentium II 233	£299+VAT (£351.33)
Pentium II 266	£399+VAT (£468.83)
Pentium II 300	£549+VAT (£645.08)

K6 & Pentium require Socket 7, Pentium II requires Slot One
Heatsink and fan recommended for all processors.
Pentium class h/sink & fan ..£10+VAT (£11.75)

UPGRADE TO MMX™

Improve your Pentium PC performance by up to 75%* with a K6 MMX upgrade.



Ziff Davis WinBench® 97 Version 1.0 – CPUmark16 benchmark comparison



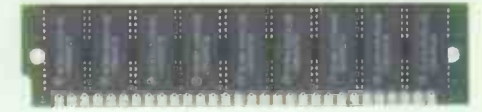
Each kit contains a processor with MMX technology, and an adaptor to fit it to your existing Pentium compatible motherboard.

- K6-200 MMX kit.....£149+VAT (£175.08)
- Pentium P166 MMX kit.....£119+VAT (£139.83)
- Pentium P200 MMX kit.....£189+VAT (£222.08)
- Pentium P233 MMX kit.....£269+VAT (£316.08)

*Based on your motherboard supporting 200MHz CPUs. Upgrades will still work on machines which support frequencies lower than this with a relative reduction in performance. AMD-K6 upgrades are not suitable for Intel Endeavour, Marl or Tucson motherboards.

MEMORY MODULES

- 1Mb 30-pin.....£15+VAT (£17.63)
- 4Mb 30-pin.....£25+VAT (£29.38)
- 4Mb 72-pin.....£17+VAT (£19.98)
- 8Mb 72-pin.....£32+VAT (£37.60)
- 16Mb 72-pin.....£65+VAT (£76.38)
- 4Mb EDO.....£19+VAT (£22.33)
- 8Mb EDO.....£25+VAT (£29.38)
- 16Mb EDO.....£36+VAT (£42.30)
- SDRAM DIMMs for 430VX/TX
- 16Mb.....£63+VAT (£74.03)
- 32Mb.....£80+VAT (£94.00)



SCSI RAID CONTROLLERS



- Adaptec 2910 PCI SCSI controller.....£89+VAT (£104.58)
- Adaptec 2920 PCI SCSI controller.....£99+VAT (£116.33)
- Adaptec 2940UW PCI SCSI controller.....£189+VAT (£222.08)
- Adaptec AAA-131 RAID controller.....£299+VAT (£351.33)
- Adaptec AAA-133 RAID controller.....£499+VAT (£586.33)



Diamond FirePort 40UW PCI Ultra Wide SCSI controller.....£79+VAT (£92.83)

120MB FLOPPY DRIVE

Panasonic Superdisk LS-120

- High precision laser servo mechanism gives 120Mb formatted capacity with dedicated disks. Can also read and write existing 720k/h/1.44Mb formats.
- LS-120 internal with controller card.....£99+VAT (£117.50)
 - LS-120 external (connects to parallel port).....£109+VAT (£128.08)
 - 120Mb floppy disk.....£14+VAT (£16.45)
 - Panasonic 1.44Mb floppy disk drive.....£15+VAT (£17.63)

CASES WITH POWER SUPPLY

Style	Form factor	Drive bays		Price
		Internal	External	
Desktop	Baby AT	2x3.5"	3x5.25" 2x3.5"	£55+VAT (£64.63)
Midi tower	Baby AT	2x3.5"	3x5.25" 2x3.5"	£45+VAT (£52.80)
Desktop	ATX	4x3.5"	2x5.25" 2x3.5"	£59+VAT (£69.33)
Midi tower	ATX	3x3.5"	2x5.25" 3x3.5"	£59+VAT (£69.33)

Evesham Micros 01908 230898 11
MILTON KEYNES
Fax: 01908 230865

HARD DISKS & CONTROLLERS



Runner up:
Seagate hard disks

Optional installation kit
(5.25" mounting bracket kit plus cables).....£10.00+VAT (£11.75)
HD I/O card.....£15.00+VAT (£17.63)

Quantum think BIGGER

Bigfoot 2.1Gb IDE (5.25").....£112.00+VAT (£131.60)
Bigfoot 4.3Gb IDE (5.25").....£159.00+VAT (£186.83)
Fireball ST Ultra ATA
3.2Gb IDE (3.5").....£149.00+VAT (£175.08)
Fireball ST Ultra ATA
6.4Gb IDE (3.5").....£199.00+VAT (£269.08)
Viking 2.2Gb SCSI (3.5").....£133.00+VAT (£163.08)
Viking 4.5Gb SCSI (3.5").....£239.00+VAT (£309.33)
Atlas II 4.5Gb Wide SCSI (3.5").....£519.00+VAT (£609.83)
Atlas II 9.1Gb Wide SCSI (3.5").....£899.00+VAT (£1056.33)

Seagate

214Mb IDE.....£69.00+VAT (£81.08)
1.2Gb IDE (ST31276A).....£99.00+VAT (£116.33)
Barracuda 4Gb SCSI (ST34371N).....£599.00+VAT (£703.83)



100Mb (SCSI).....£49.00+VAT (£57.58)



Promise PCI Ultra ATA
controller.....£49.00+VAT (£57.58)



VIDEO CARDS

ATI Mach64 1Mb (PCI Bus).....£29.00+VAT (£34.08)
ATI Xpert@work 4Mb (AGP Bus).....£109.00+VAT (£135.13)
ATI Xpert@work 8Mb (AGP Bus).....£149.00+VAT (£185.13)
ATI Xpert@play 4Mb (PCI Bus).....£119.00+VAT (£145.13)
ATI Xpert@play 8Mb (PCI Bus).....£159.00+VAT (£195.13)
ATI TV card.....£69.00+VAT (£81.33)

DIAMOND

Diamond Stealth 3D 2000
MULTIMEDIA 2Mb (PCI Bus).....£39.00+VAT (£45.83)



Arcade quality 3D for your PC!

Based on the state of the art 3Dix Voodoo 3D accelerator, the Diamond Monster 3D works in conjunction with your existing graphics card to transform your PC into a monstrous gaming machine. Monster 3D will transform any Direct 3D game for Windows 95 into a reality all of it's own.



"If what you want is maximum gaming power, your top choice is the Diamond Monster 3D" March 1997
"For overall no-holds-barred blistering 3D performance" Computer Gaming World, May 1997 Hardware Achievement of the Year



Diamond Monster 3D 4Mb (PCI Bus).....£109.00+VAT (£128.08)

matrox

February 1997
Matrox Mystique



"Best Graphics Card"

Matrox m3D.....£75.00+VAT (£88.13)
Matrox Mystique 4Mb (OEM version).....£69.00+VAT (£81.08)
Upgrade from 2Mb to 4Mb for Mystique.....£49.00+VAT (£57.58)
Matrox Mystique 220 4Mb (OEM version).....£79.00+VAT (£92.83)
Upgrade from 4Mb to 8Mb for Millennium.....£79.00+VAT (£92.83)
Matrox Millennium II 4Mb (OEM).....£109.00+VAT (£128.08)



An Exciting New Universe of Digital Video

- State-of-the-art video upgrade for Mystique
- High quality video editing on the PC
- Live video conferencing
- PC to TV video output
- Hardware MPEG1 video playback
- Still and stream video capture



Rainbow Runner Studio.....£129.00+VAT (£151.58)

Note: Requires Pentium P90 or higher, Matrox Mystique, and CD-ROM drive. Cannot be used in conjunction with Mystique memory upgrades. Large hard disk recommended for video capture. Video conferencing requires modem and video camera.



Righteous 3D.....£119.00+VAT (£139.83)

STORAGE & BACKUP SOLUTIONS

ditto tape drives

Crash insurance
for your PC

- New format using 2Gb low cost cartridges
- Easy one-step backup
- Simple plug & go setup



ditto

Internal unit.....£78.73
2Gb Parallel port unit.....£119.85
Tapes for ditto 2Gb.....3 pack £45.83

zip drive

Affordable personal storage solution to organise, move and backup your data. It works just like a hard drive, but the 100Mb cartridges give it unlimited expansion potential. It simply plugs into your parallel port in an instant, with a through port for printer operation.

3 DRIVES IN ONE:

- Expand your hard drive with unlimited capacity 100Mb at a time
- Backup your hard drive quickly and easily
- Take it with you



jaz drive

At last - a 1 Gb portable solution.

The ultimate solution for storing, transporting and playing multimedia applications. Or backup your entire hard disk. Or create your own digital photo album. Or transport huge graphics files to printers and service bureaus. Just use as many cartridges as you need.



August 1996
Jaz drive



August 1996
Jaz drive

- 29ms seek time
- Up to 1Mb/sec data transfer
- Very compact (180mm x 137mm x 38mm)
- Light weight (approx 450g)

- Includes one 100Mb cartridge, and Zip tools software to help you organise your data
- Limited lifetime warranty on Zip cartridges

ZIP DISK DRIVE.....ONLY £99.00+VAT (£116.33)
100Mb Zip cartridge.....£12.00+VAT (£14.10)...6 pack £55.00+VAT (£64.63)



Access your stuff anywhere
Battery pack for zip
ONLY £49.00+VAT (£57.58)

- The space you need, the speed you need and the portability you need, at a price you can afford
- Internal and external versions
- 1Gb of space on each cartridge
- 12ms seek time
- 5.5Mb/sec average sustained data transfer
- 256kb read/write cache
- Compact, lightweight

- Faster than most hard disks
- Fully compatible with Windows 95, DOS/Windows and Macintosh
- Requires SCSI Interface card
- external unit (203mm x 137mm x 38mm, approx 900g)
- Includes one 1Gb cartridge, and Jaz tools software to help you organise your data

JAZ internal drive.....only £212.00+VAT (£249.10)
JAZ external drive.....only £269.00+VAT (£316.08)
1Gb cartridge.....£69.00+VAT (£81.08) PCI SCSI Interface card.....£69.00+VAT (£81.08)

MONITORS



Taxan Crystalvision 650



Runner up:
Vale monitors



TAXAN

All Taxan monitors have 3 years warranty (1st year on-site).

15" Ergovision 550 TCO95.....£209.00+VAT (£245.58)
0.27mm dot pitch • Up to 69kHz horiz. scan • 1024x768 resolution @ 85Hz refresh • 1280x1024 max resolution
17" Ergovision 730 TCO.....£370.00+VAT (£434.75)
0.28mm dot pitch • Up to 69kHz horiz. scan • 1024x768 resolution @ 85Hz refresh • 1280x1024 max resolution
17" Ergovision 730 TCO95-S.....£389.00+VAT (£457.08)
As above with built-in microphone and stereo speakers
17" Ergovision 740 TCO.....£446.00+VAT (£524.05)
0.25mm dot pitch • Up to 85kHz horiz. scan • 1280x1024 resolution @ 79Hz refresh • 1600x1200 max resolution
17" Ergovision 740 TCO95-S.....£461.00+VAT (£541.68)
As above with built-in microphone and stereo speakers
17" Ergovision 750 TCO95.....£461.00+VAT (£541.68)
0.25mm dot pitch DiamondTron tube • Up to 86kHz horiz. scan • 1280x1024 resolution @ 90Hz refresh • 1600x1200 max resolution
21" Ergovision 2150 TCO95.....£949.00+VAT (£1115.08)
0.28mm dot pitch DiamondTron tube • Up to 95kHz horiz. scan • 1600x1200 max resolution @ 75Hz refresh
Crystalvision 600.....£902.00+VAT (£1059.85)
10.4" TFT LCD flat panel monitor • 640x480 full screen resolution • Built-in stereo speakers
Crystalvision 620.....£1149.00+VAT (£1350.08)
12.1" TFT LCD flat panel monitor • 800x600 full screen resolution • Built-in stereo speakers
Crystalvision 650.....£1699.00+VAT (£1996.33)
14.5" TFT LCD flat panel monitor • 1024x768 full screen resolution • Built-in stereo speakers

iiyama monitors

With over 20 UK magazine awards for technical excellence, display quality and value for money, iiyama monitors are firmly established as the choice of the professional user.

The Evesham difference
All our iiyama prices include 3 years on-site maintenance, normally £££ extra.

iiyama



15" Vision Master 350 (MF-8515G).....£199.00+VAT (£233.83)
0.28mm dot pitch • Up to 69kHz horiz. scan • 1024x768 resolution @ 85Hz refresh • 1280x1024 max resolution
17" Vision Master 17 (MF-8617).....£399.00+VAT (£468.83)
0.25mm dot pitch • Up to 86kHz horiz. scan • 1280x1024 resolution @ 80Hz refresh • 1600x1200 max • PC Magazine "Editor's Choice" April 1995
17" Vision Master 17ES (MF-8617ES).....£435.00+VAT (£511.13)
As above with built-in stereo speakers and Spatializer 3D sound processor
17" Vision Master Pro 17 (MT-9017).....£439.00+VAT (£515.83)
0.25mm dot pitch DiamondTron tube • Up to 92kHz horiz. scan • 1600x1200 max resolution @ 72Hz flicker-free refresh
21" Vision Master 21 (MF-8221).....£925.00+VAT (£1086.88)
0.27mm dot pitch • Up to 94kHz horiz. scan • 1600x1200 max resolution @ 75Hz refresh • PC Pro "Recommended" November 1996
21" Vision Master Pro 21 (MT-9021T).....£959.00+VAT (£1126.83)
0.30mm dot pitch DiamondTron tube • Up to 94kHz horiz. scan • 1600x1200 max resolution @ 75Hz refresh
21" Vision Master 500 (MF-8721).....£959.00+VAT (£1126.83)
0.27mm dot pitch • Up to 110kHz horiz. scan • 1800x1440 max resolution @ 75Hz refresh
21" Vision Master Pro 500.....£999.00+VAT (£1173.83)
Vision Master Pro Lite 35 (LP-1014P).....£2019.00+VAT (£2372.83)
13.8" TFT LCD flat panel monitor • No geometric display distortion • Space saving lightweight design (2" panel depth) • 1024x768 full screen resolution

SHINHO

14" SM483.....£109.00+VAT (£128.08)
0.28mm dot pitch • 1280x1024 max non-interlaced • 800x600 @ 80Hz refresh
15" SM585.....£159.00+VAT (£186.83)
0.28mm dot pitch • 1280x1024 max non-interlaced • 1024x768 @ 90Hz refresh
17" SM785.....£199.00+VAT (£233.83)
0.28mm dot pitch • 1280x1024 max non-interlaced • 1024x768 @ 90Hz refresh

NEC

15" MultiSync A500.....£189.00+VAT (£222.08)
0.28mm dot pitch • Up to 85Hz horiz. scan • 1280x1024 max non-int • 1024x768 @ 80Hz refresh
17" MultiSync A700.....£345.00+VAT (£405.38)
0.28mm dot pitch • Up to 69kHz horiz. scan • 1280x1024 max non-int • 1024x768 @ 85Hz refresh

MODEMS



EveshamVale quality hardware modems

- Internet access starter pack: Includes full Internet and World Wide Web access software, with first month membership free and 10 hours free on-line time
- Cables included

33.6 voice/data internal.....£45+VAT (E52.88)	33.6 PCMCIA.....£99+VAT (E116.33)
33.6 voice/data external.....£59+VAT (E69.33)	K56flex external.....£79+VAT (E92.83)
K56flex internal.....£59+VAT (E69.33)	

At last A COMPLETE INTERNET SOLUTION!

- Choice of Vale internal or external K56flex modems (see above)
- 12 Months UNLIMITED Internet Access via Premier Internet - one of the UK's largest providers
- 100% UK local rate telephone access
- Full e-mail account
- Full technical support
- Cables included

Many packages offer 30 day trial access often with limited access times and leading to high monthly charges. At Evesham Micros we believe in providing a product which is ready to use minutes after you open the box. Join the internet revolution safe in the knowledge that you will have nothing to pay (apart from local rate telephone calls) for 12 months.

Internal version.....	£159+VAT (E186.83)
External version.....	£169+VAT (E168.58)



APPROVED for connection to telecommunication systems specified in the instructions for use subject to the conditions set out in them.

SPECIAL OFFER!

Pace 28.8 external with cable.....	£35+VAT (E41.13)
K56flex Voice internal.....	£109+VAT (E128.08)
K56flex Voice external.....	£132+VAT (E155.10)
External version supports UK Caller ID.	
International Travel Pack.....	£39+VAT (E48.83)
Allows use of modem in the USA and most of Europe.	

Robotics

Sportster 33.6 internal.....	£115+VAT (E135.13)
Sportster 33.6 external.....	£115+VAT (E135.13)
Sportster 56.6 Flash external.....	£119+VAT (E139.83)
Courier ISDN internal.....	£289+VAT (E309.58)
Courier ISDN external.....	£290+VAT (E310.75)
Sportster WinModem.....	£77+VAT (E90.48)

DIAMOND K56flex external.....£119+VAT (E129.83)

All modems include Internet connection software with free trial connection period.

12 MONTHS INTERNET ACCESS.....£99+VAT (E116.33)

12 Months UNLIMITED Internet Access via Premier Internet - see left for details

Seagate TAPE DRIVES

Low cost tape backup solutions:

- TapeStor Travan storage systems
- 3.2 Gb compressed capacity
- Choice of internal or external units
- Internal unit uses floppy drive controller
- External unit connects to parallel port
- Tapelt utility software

Tapes.....	£25+VAT (E29.38)
Internal.....	£129+VAT (E151.58)
External (illustrated).....	£119+VAT (E139.83)

High performance 4/8Gb DAT drive:

- 4Gb uncompressed/8Gb compressed using 120m tape
- Up to 24Mb/min sustained data transfer rate
- Bare internal drive mechanism for 5.25" drive bay
- Requires SCSI-2 host system

Drive.....	£650+VAT (E763.75)	120m tape.....	£25+VAT (E29.38)
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Vale UPSs

Protect your installation from mains power faults with an uninterruptible power supply.

STATION SERIES UPSs

- Reliable protection from mains surges, spikes, noise and failure
- Interface port and power management software for automatic system shutdown and remote alarm notification by paging/email

Station 280 (280VA).....	£84+VAT (E98.70)	Station 650 (650VA).....	£195+VAT (E229.13)
Station 420 (420VA).....	£129+VAT (E151.58)	Station 1000 (1000VA).....	£269+VAT (E316.08)

SYSTEM SERIES ON-LINE UPSs

- True on-line protection with voltage and frequency stabilisation under all operating conditions
- Compact design around 50% smaller than other designs
- PowerSave software and Intelligent Interface allows comprehensive monitoring and control, plus automated alarm and shutdown routines

System 1000 (1000VA).....	£599+VAT (E703.83)
System 3000 (3000VA).....	£1349+VAT (E1585.08)

FILE ORGANISERS

Series 3C 2Mb.....	£255+VAT (E299.63)
Series 5 4Mb.....	£369+VAT (E433.58)
Series 5 8Mb.....	£419+VAT (E492.33)

Mouse, KEYBOARDS, JOYSTICKS & YOKES

Vale Windows 95 Keyboard.....	£10+VAT (E11.75)
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MITSUMI

Mitsumi Mouse as used in Vale Prima and Prestige PCs.....£10+VAT (E11.75)



KEY TRONIC

Keytronic 'Windows 95' Keyboard as used in Vale Platinum PCs.....£25+VAT (E29.38)
"one of the best weighted and most comfortable set of keys of any mainstream keyboard and with its well raked rows and full Win95 compatibility, it gets our top vote." PC Plus, January 1997



Keytronic 'Phoenix' Windows 95 Keyboard.....	£15+VAT (E17.63)
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DIGITAL EDGE

Digital Edge F1 SIM.....	£135+VAT (E158.63)
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PC GAMER
This is undoubtedly the most advanced, well built and realistic steering wheel money can buy.
Rating: 90% April 1996

MSC

MSC Multi-System - combined steering wheel, handlebars, yoke.....£49+VAT (E57.58)
Controller card for above.....£10+VAT (E11.75)



It's a bike!

It's a plane!

It's a car!

CH Flightstick.....	£27+VAT (E31.73)
CH Flightstick Pro.....	£49+VAT (E57.58)
CH Virtual Pilot.....	£62+VAT (E72.58)
CH Virtual Pilot Pro.....	£65+VAT (E76.38)
CH Pro Pedals.....	£69+VAT (E81.08)



FX3000.....	£19+VAT (E22.33)
F-15E series - an authentic replica of the F-15E Strike Eagle flight stick:	
F-15E Hawk.....	£25+VAT (E29.38)
F-15E Raptor.....	£39+VAT (E45.83)
F-15E Talon.....	£49+VAT (E57.58)

Microsoft

MS IntelliMouse.....	£45+VAT (E52.88)
MS Home Mouse with 'Intellipoint' software.....	£18+VAT (E21.13)
MS Natural Keyboard.....	£57+VAT (E66.98)

Network Products



Plug-N-Play ethernet adaptor.....	£19+VAT (E22.33)
PCI ethernet adaptor.....	£29+VAT (E34.08)
Etherspeed adaptor (10/100 Mbps).....	£49+VAT (E57.58)
PCMCIA ethernet adaptor.....	£99+VAT (E116.33)
Mini-hub (pocket size, 5 ports, stackable).....	£45+VAT (E52.88)

Intel

Intel Pro 10+ ISA.....	£75+VAT (E88.13)
Intel Pro 10/100 PCI.....	£55+VAT (E64.63)

3Com

3C509 Combo.....	£75+VAT (E88.13)
3C589 PCMCIA Combo.....	£119+VAT (E139.83)
3C905 10/100Mbps PCI 5 pack.....	£315+VAT (E370.13)
20 pk.....	£1100+VAT (E1292.50)

OfficeConnect products:

3C16704 Hub TP4.....	£51+VAT (E59.93)
3C16700 Hub 8/TPO.....	£79+VAT (E92.83)
3C16702 Hub TP16C.....	£175+VAT (E205.63)
3C16720 Hub 8/TPI00.....	£485+VAT (E569.88)
3C16730 Switch 140.....	£675+VAT (E793.13)
3C41000 Remote 510.....	£400+VAT (E470.00)
3C41001 Gateway 535.....	£995+VAT (E1169.88)
3C8842 NetBuilder 142.....	£1005+VAT (E1180.88)

CASTELLE OfficeConnect

OfficeConnect Print Server.....	£245+VAT (E287.88)
OfficeConnect Fax Server.....	£1075+VAT (E1263.13)
OfficeConnect CD-ROM Server.....	£450+VAT (E528.75)



Jet Direct External Plus 3.....	£265+VAT (E311.38)
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Cabling & Terminators

Ethernet cable with BNC plugs:		BNC T Connector.....	£3.20+VAT (E3.70)
5m length.....	£8.50+VAT (E9.98)	Through Connector.....	£1.80+VAT (E2.10)
10m length.....	£14.00+VAT (E16.40)	Cable plug.....	£1.75+VAT (E2.00)
20m length.....	£20.00+VAT (E23.50)	Terminator.....	£2.00+VAT (E2.30)



FM STEREO RADIO

Within minutes of connecting the NEW Vale FM Radio to your multimedia PC, you can tune to your favorite station via a user-friendly interface.

- Simple Plug-N-Play Installation: connects to 25-pin serial port, no external power required
- Ultra sensitive shielded antenna
- User friendly Windows 3.1 and Windows 95 compatible software to control all radio functions

System requirements: 16-bit sound card, Windows 3.1/95, speakers or headphones.



only £29+VAT (E34.03)

SOFTWARE

DR SOLOMON		for Windows NT Server (Quarterly).....	£259+VAT (E304.33)
for Win 95 (Monthly).....	£77+VAT (E90.48)	for Windows NT Server (Monthly).....	£389+VAT (E457.08)
for Win NT (Quarterly).....	£78+VAT (E91.63)		
for Win NT (Monthly).....	£139+VAT (E163.33)		

MICROSOFT

Autoroute Express 5.....	£43+VAT (E50.53)	Office 97 Pro CCP.....	£225+VAT (E264.38)
Bookshelf.....	£35+VAT (E41.13)	Office 97 Sid CCP.....	£163+VAT (E191.53)
Cinemania 97.....	£24+VAT (E28.83)	Office 97 Small Business Edition.....	£163+VAT (E191.53)
Encarta 97.....	£34+VAT (E39.93)	Picture It!.....	£36+VAT (E42.30)
Encarta 97 World Atlas.....	£34+VAT (E39.93)	Project.....	£310+VAT (E364.25)
Flight Sim for Win 95.....	£32+VAT (E37.60)	Publisher 97.....	£75+VAT (E88.13)
FrontPage 97.....	£119+VAT (E139.83)	Publisher Student License £35+VAT (E41.13)	
Greetings Workshop.....	£22+VAT (E26.83)	Windows 95 upgrade.....	£65+VAT (E76.38)
Home Essentials.....	£99+VAT (E104.58)	Office 97 Professional	£75+VAT (E88.13)
Money 97.....	£22+VAT (E26.83)	For the home user we offer Office97 Professional Student Edition. Are you or someone in your family aged 3 or over and in full or part-time education on a Dept. for Education & Employment (DfEE) recognised course as either a student or teacher? If so you qualify for this offer! (Product supplied via voucher redemption.)	
Music Central 97.....	£22+VAT (E26.83)		
Windows NT Workstation full.....	£229+VAT (E269.08)		
Workstation upgrade V3.51 to V4.....	£112+VAT (E131.60)		
NT Server 5 user.....	£620+VAT (E728.50)		
NT Server client licence.....	£29+VAT (E34.08)		

COREL

CorelDRAW! 7 for Windows 95 CCP.....	£149+VAT (E175.08)	Word Perfect Suite 8 CCP.....	£99+VAT (E116.33)
Office Pro 7 CCP.....	£129+VAT (E151.58)		

McAfee

Deluxe (2 years).....	£55+VAT (E64.63)	Internet updates (1 year).....	£25+VAT (E29.38)
Quarterly updates (1 year).....	£35+VAT (E41.13)		

NORTON

Utilities for Win 95 CCP.....	£31+VAT (E36.43)	WinFax Pro for Win 95.....	£69+VAT (E81.08)
Utilities for Win 95 full.....	£53+VAT (E62.28)	AntiVirus for Win 95.....	£49+VAT (E57.58)
Utilities for Win NT full.....	£68+VAT (E79.90)		

OTHERS

Powerquest DriveCopy.....	£19+VAT (E22.33)	Rescue Me for Win 3.1/95.....	£25+VAT (E29.38)
PIquest Partition Magic.....	£45+VAT (E52.88)	Rescue Me (NT).....	£35+VAT (E41.13)
Tascal.....	£25+VAT (E29.38)	Checkit Diag.....	£45+VAT (E52.88)
Cheyenne Backup.....	£39+VAT (E45.83)	Route 66 UK & Ireland.....	£35+VAT (E41.13)
Cheyenne Infinite Disk.....	£39+VAT (E45.83)	Route 66 Europe.....	£36+VAT (E42.30)
Cheyenne Anti-Virus.....	£39+VAT (E45.83)	Route 66 UK Ultimate Traveller.....	£72+VAT (E84.60)

NEW!

Digital Edge F1 SIM compact.....	£65+VAT (E76.38)
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Fax: 01223 322883

FREEPHONE DIRECT SALES
0800 6345 999
Web: http://www.evesham.com

MILTON KEYNES
Evesham Micros 01908 230898 13
Fax: 01908 230865

Multimedia Labs speaker systems



Multimedia Labs TC1680

High End, Thin Line, Tri-Amp with SP7002 and SP508 Speakers

PC Amp, with it's advanced three channel amplifier incorporating Spatializer® 3-D Audio Technology, 2 way satellite speakers and an earth shaking subwoofer, is the first and last multimedia sound system you need ever purchase!

- High powered amplifier producing 92 watts RMS plus 40 watts RMS for subwoofer, crossover at 150Hz.
- Five band active equaliser ranging

from 20Hz-20kHz.

- Exclusive VRST™ built-in FET microphone.
- External mic. mixing with variable blend control.
- Line level input/output jacks, plus front mounted professional 1/4" (6mm) headphone and mic. jacks.
- Slim-line chassis designed for placement under monitor.

PC PRO
April 1997
The system produced a more defined tip end sound. Bass response is more than adequate and the complex controls allow users to modify the sound to their own tastes.



only **£109.95** (VAT) (£128.08)
(Monitor not included)

BULK PURCHASE SPECIAL OFFER

Quality Hi-Fi audio system at a price which can't be repeated!

TC 1500 Compact Hi-Fi Stereo 75 Watt Amplifier System

only **£49.95** (VAT) (£57.58)

- Micro size amplifier 1 1/2"W x 7"H x 6"D.
- Amplifier power: 12 Watts RMS per channel at less than 1% THD (1kHz). 75 Watts maximum power rating both channels driven.

- Unique palm size remote IR control.
- Two way speaker system with side firing 4" woofers and front firing high frequency piezo tweeters.
- Separate bass & treble controls, variable mic. gain control, and stereo-mono switch for public address applications.



Wireless Remote Control

UPGRADE your existing speaker system with the Killer Sub ▶ SP7001

- 25 Watts RMS mono power with built in electronic crossover.
- Free standing, speaker cabinet made of natural wood material for perfection in bass response. Cabinet is 6 1/4"W x 12"H x 10"D. May be mounted vertically or horizontally on the floor.

SPECIAL OFFER! TC1500 & SP7001 **£85.95** (VAT) (£99.88)

50 Watt Amplified Bass Reflex Subwoofer

only **£39.95** (VAT) (£45.83)



Front View Rear View

CD-ROM DRIVES

Panasonic CR-585

- Twenty four speed
- Up to 3600kb/sec DTR
- Ultra fast 85ms access
- Cables and driver software included
- Plug and Play compliant
- Output from audio CDs via headphone socket
- MPC and White Book (CDI) compatible
- Multi-session mechanism - compatible with Kodak Photo CD



Bare drive **£50.95** (VAT) (£58.73)

NB - Bare drive and packs 218/228/238 require motherboard with secondary IDE connector

Pack 22B
Bare drive with SB 16 card

£69.95 (VAT) (£81.00)



Pack 23B
Bare drive with SB 16 and M/M Labs TC1500 speakers

£116.95 (VAT) (£136.30)

Pack 21B
Bare drive with ▶ TC 1500 M/M Labs TC1500 speakers

£96.95 (VAT) (£112.80)

Pack 24B
Bare drive with AWE64 Gold

£169.95 (VAT) (£198.58)

Panasonic CR-506 8x SCSI CD-ROM drive ...**£65.95** (VAT) (£76.34)

PANASONIC PD DRIVE

650Mb rewritable optical disk drive

Easy to use, high speed, high capacity, rewritable and removable memory - combined with a fast CD-ROM drive.

- Uses high speed, rewritable CD-ROMs with massive 650Mb capacity
- Amazingly low cost media
- As easy to use as a floppy drive
- Reads conventional CD-ROM disks with 8x performance



Internal model

£199.95 (VAT) (£233.83)

External model

£269.95 (VAT) (£316.08)

PD media

Single**£19.95** (VAT) (£22.33)

3 pack.....**£49.95** (VAT) (£57.58)

10 pack.....**£149.95** (VAT) (£175.08)

Requirements: Enhanced IDE interface and 5.25" drive bay (Internal version only); Enhanced IDE interface (external version); Pentium processor or equivalent; and DOS 6.0, Windows 3.1, Windows 95 or Windows NT 3.51 or higher

CD-ROM WRITERS

hp Everything you need to make and read your own data/audio CDs!

- HP SureStore CD-RW 7100 2x write, 6x read (internal kit).....**£260.95** (VAT) (£306.50)
- HP SureStore CD-RW 7100 2x write, 6x read (external kit).....**£320.95** (VAT) (£376.20)
- Blank CD-RW disk**£15.95** (VAT) (£17.63)
- Blank CD-R disks: Single.....**£2.95** (VAT) (£2.35) 5 pack.....**£9.95** (VAT) (£10.58)
- 10 pack.....**£17.95** (VAT) (£19.98) 20 pack.....**£33.95** (VAT) (£38.78)
- Labeler kit contains: label applicator, labelling software, and 20 labels
- CD labeller kit.....**£22.95** (VAT) (£25.85) Labels (pack of 50).....**£10.95** (VAT) (£11.75)

NEW! DVD DRIVE

Panasonic SR-8502B 2xDVD drive (IDE interface, 20x CD-ROM drive)**£139.95** (VAT) (£163.33)

ZY-FI SPEAKERS

ZY-FI COMPACT **£12.95** (VAT) (£14.10)

- Built-in Stereo Power Amplifier
- 16 Watts PMPO (4 Watts RMS)
- Active or Passive use (active use requires batteries or optional mains adaptor)
- Magnetically shielded
- Volume Control
- Bass Booster
- Treble Booster



ZY-FI 2 **£29.95** (VAT) (£34.08)

- "ZyFIs are definitely a sound investment." PC Answers "Recommended" March 1995
- Built-in Stereo Power Amp
- 64 Watts PMPO (12 Watts RMS)
- Magnetically shielded
- Volume control
- Tone control
- Styling as Zy-Fi 2 Pro (below)

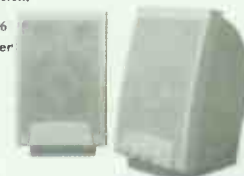


ZY-FI 2 PRO **£49.95** (VAT) (£57.58)

- "These are the boys to add a bit of oomph to your PC." PC Answers "Recommended" March 1995
- Rating 9/10. "Excellent value for money." PC Zone April 1995
- Rating 9/10. "a lot of sound for the money" PC Plus April 1996
- Rating 6/6. "sound quality on a different level from the other speakers" PC Guide "Best Buy" September 1996



- Built-in Stereo Power Amplifier
- 120 Watts PMPO (36 Watts RMS)
- Magnetically Shielded
- 14x23x15cm
- Volume Control
- Bass control
- Treble control



ZY-FI BASS **£75.95** (VAT) (£88.13)

- Subwoofer unit 80 Watts PMPO (20 Watts RMS). Dimensions 273 x 165 x 275mm
- Built-in Power Amplifier
- Satellite speakers 24 Watts PMPO (6 Watts RMS). Dimensions 120 x 96 x 98mm
- 5.25" subwoofer drive unit
- 3" satellite units Magnetically shielded
- Individual volume and bass controls
- External mains PSU



TEAC CD-ROM AUTO-CHANGER

- ◆ 6 disc half height internal auto-changer
- ◆ Change discs with a mouse click or the touch of a button
- ◆ True 8x performance - 190ms access

- Enhanced IDE ATAPI Interface - requires suitable sound card or motherboard
- Multi-session mechanism - compatible with Kodak Photo CD
- Output from audio CDs via headphone socket
- Plug and Play compliant
- MPC and White Book (CDI) compatible



only **£109.95** (VAT) (£128.08)

Drive with SoundBlaster 16 card **£154.95** (VAT) (£180.95)

TEAC CD-524EK 24x IDE CD-ROM drive.....**£69.95** (VAT) (£81.08)

SOUND CARDS



Vale Plug-N-Play 3D sound card with Spatializer 3D sound system, universal wavetable upgrade port and MIDI/joystick port**£25.95** (VAT) (£29.38)

Vale Wavetable sound card (no CD-ROM interface).....**£37.95** (VAT) (£44.34)



SoundBlaster AWE64 Value (no IDE interface).....**£69.95** (VAT) (£81.08)

SoundBlaster AWE64 Gold.....**£129.95** (VAT) (£151.58)

Killer sound for awesome 3D gaming!



only **£99.95** (VAT) (£116.33)

Does for your ears what Monster 3D did for your graphics.

- Surrounds you with heart-pumping, realer-than-real 3D sound
- Accelerates and enhances the new Microsoft DirectSound standard in Windows 95
- Outstanding with 2 or 4 speakers, or headphones
- Includes 32 voice advanced hardware wavetable
- You can still use your existing sound card for DOS based sound
- Easy Installation with Windows 95 Plug and Play

Requires Windows 95, Pentium P90 or higher, 8Mb RAM, CD-ROM drive, PCI expansion slot, and amplified speakers

DIAMOND MULTIMEDIA

Sound is amplified, directed to specific positions, and approaches you from all directions



Flatbed scanning

from **£69** per unit (excl. VAT)



- All flatbeds use *single-pass* scanning – much faster than models which scan each colour separately
- Colour, 8-bit grey and line art modes
- 12 built-in halftoning patterns
- Paragon 600 and 800 connect to your parallel port for easy installation, and have new 'small footprint' design with compact exterior dimensions and 216mm x 296mm scan area
- Paragon 1200 has 216mm x 356mm scan area and own Interface card
- Image scanning and photograph re-touching software, and powerful OCR software

Requirements: Pentium processor, Windows 3.1x/95, mouse, CD-ROM drive, SVGA graphics or higher, at least 16Mb RAM, and hard disk with at least 70Mb free



"...ease of use, great colour quality and exemplary OCR output ...offers both low price and impressive speed via its Enhanced Parallel Port interface ...fast and easy to setup—just five minutes and you're done" August 1997 Mustek Paragon 600

PC FORMAT "The bundled software is impressive... The scans themselves...are satisfying and higher than you could reasonably expect for the price. The design of the case is sleek and it's compact enough to fit on the smallest desktop." March 1997 Mustek Paragon 600



CD ROM Today "This scanner gives a whole new meaning to easy installation – it really is an absolute dream." June 1997 Mustek Paragon 600 EP



A4 COLOUR SHEETFEED SCANNER

Expand your PC into a multi-purpose office tool – scan documents of all sizes for filing or faxing, or use with a printer for easy copying.

- 300dpi colour resolution, interpolated to 1200dpi
- Document size: 216x356mm max, 51x89mm min
- 10 sheet automatic document feeder
- Very compact "small footprint" design
- Includes 'iPhoto Plus' top professional Windows based image scanning and photograph re-touching software, and 'Wordlinx' OCR software



£59+VAT (£69.33)

Colour 800 hand scanner with interface card.....**£49**+VAT (£57.58)
 Colour 800 hand scanner with 'parallel port' interface**£99**+VAT (£116.33)

PICTURE THIS! - DIGITAL CAMERAS



Digital Camera **VDC-100**

£89+VAT (£104.58)

System requirements: 486 or higher processor, Windows 3.1 or higher, 3.5" floppy disk drive, hard disk drive with at least 15Mb available, 8Mb RAM or higher, 256 colour VGA display or higher, RS232 serial port



- Capture vibrant colour images any time, any place for instant use with your PC or laptop
- Simple point and shoot operation – fixed focus lens and automatic exposure
- Store up to 20 images in memory, then download to your PC with the serial cable supplied
- iPhoto Express image editing software supplied to view and manipulate your images on your PC. You can also create exciting photo-based documents such as personalised greetings cards and invitations
- Use it to build-up your family album, or create flyers, adverts, newsletters, reports, or for property guides or insurance claims
- Up to 480x320 resolution with 24 bit colour
- Includes carrying pouch
- Compact lightweight design

Digital Camera **VDC-200**



- 1.8" colour LCD screen for viewfinding and picture review
- Up to 640x480 resolution with 24 bit colour
- Fixed focus lens – 250mm to infinity
- Stores up to 48 frames
- Built-in 2Mb flash memory
- Internal slot supports CF card for extra memory
- Auto flash
- Preview the output image on the camera, a PC or your TV screen
- Complete with batteries, image editing software, TWAIN driver, carry pouch and Mains power supply!

£199+VAT (£233.83)

System requirements: as VDC-100



- Integral TFT colour LCD screen helps with picture composition, and can be used for immediately viewing and editing stored pictures
- Auto focus and auto exposure



- 270° lens rotation (except QV-70) allows you to shoot at awkward angles and still view the screen
- View pictures on your PC or TV
- Record on to VCR
- 10 second self timer (except QV-70)
- Macro focusing down to 150mm
- Software supplied to manipulate your images on your PC

System requirements: as Mustek VDC-100

QV-11 (Illustrated)

- 1.8" LCD screen
- Store for up to 96 Images in memory
- 320x240 resolution

£225+VAT (£264.38)

QV-70

- 1.8" LCD screen (playback only)
- Store for up to 96 Images in memory
- Optical viewfinder
- Up to 320x240 resolution

£247+VAT (£290.23)

QV-200

- 1.8" LCD screen
- Store for up to 192 images in memory
- Up to 640x480 resolution

£299+VAT (£351.33)

QV-700

- 2.5" LCD screen
- Store for up to 47 images on each external flash memory card
- Built-in flash
- Up to 640x480 resolution

£375+VAT (£440.63)

Mains PSU for QV-11/100/200/300 ..**£12**+VAT (£14.10)
 Mains PSU for QV-70/700**£24**+VAT (£28.20)

DP-8000 (Illustrated)
 From camera to print in instant

- High quality dye-sublimation colour printer connects directly to Casio QV cameras

- 416 built-in templates allow creative postcards, calendars etc
- Also connects to PC
- Paper and postcard media available (148 x 100 mm)

£299+VAT (£351.33)

Paper pack (25)**£15**+VAT (£17.63)
 Postcard pack (25)**£16**+VAT (£17.63)



VIDEO CAPTURE



Instant video capture



16 million colours up to 1500x1125

£145+VAT (£170.38)



- Snappy Video Snapshot grabs amazing stills from any PAL video source such as Camcorder, VCR, TV etc.
- Includes Adobe's outstanding PhotoDeluxe for painting and retouching your pictures, Kai's Power Goo for incredible special effects, and Gryphon's award-winning Morph programme.

System requirements: 386 or higher processor, Windows 3.1 or higher, hard disk drive with at least 40Mb available, 8Mb RAM or higher, 256 colour VGA display or higher, parallel port

HP SCANJET 5P



- Easy installation and setup
- 300dpi optical resolution, Interpolated to 1200x1200
- Bundled software: HP PictureScan with HP AccuPage, Corel PHOTO-PAINT Select for Windows, PaperPort for HP, Caere OCR

Requirements: Pentium processor, Windows 3.1x/95, Mouse, CD-ROM drive, SVGA graphics or higher, at least 16Mb RAM, and hard disk with at least 70Mb free
 ScanJet 6100C.....**£479**+VAT (£562.83) Graphics Pro 4C.....**£549**+VAT (£645.08)
 Office Pro 4C.....**£599**+VAT (£703.83)

£159+VAT (£186.83)

3 year On-Site maintenance 166*** (£77.55)

SOFTWARE OFFERS

special prices with any Mustek scanner

Photo Impact 3.0 SE & Wordlinx

for Windows95 – allows text import directly into MS Word

£30+VAT (£35.25)

Software supplied on CD. Includes tutorials and on-line documentation. Requires minimum 486x4-100 and 16Mb RAM.

Photoshop 3.0 LE

Premier image manipulation for Windows 3.1x/95

£40+VAT (£47.00)

TRY BEFORE YOU BUY

Sample disk pack for each of the scanners, plus the digital camera, containing images to provide an exact representation of each model's capabilities. A fact sheet is also included containing loading instructions, scanning information, and printed originals.

£25+VAT (£25.88) incl delivery. Refundable on purchase of a scanner.

CAMBRIDGE
01223 323898 Evesham Micros
 Fax: 01223 322883

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PRINTERS

HP DeskJet – Laser-sharp type & brilliant colour, at an amazing price...

HP DeskJet 670C

An incredible printer at an incredible price

£129+VAT
(£151.58)

Print in black or colour without changing cartridges Versatile media handling – prints on plain, glossy or recycled paper, transparencies, envelopes, labels up to 4ppm black, up to 1.5ppm colour (Econofast mode) Quick and easy driver installation HP's RealLife Imaging System with HP Resolution Enhancement technology (RE) ensures photo quality colour and sharp, crisp blacks HP ColourSmart technology automatically adjusts settings for best colour – no more guesswork Up to 600 x 600dpi for precise black, and 600 x 300dpi for superb colour

Black consumable kit. £19.99 (£22.33) Colour consumable kit. £19.99 (£22.33) HP Support pack 3 year On-Site maintenance agreement. £40.00 (£47.00)

HP DeskJet 690C Plus

£159+VAT
(£186.83)



HP's RealLife Imaging System plus Photo REI with Photo Cartridge gives outstanding photo quality images

Black consumable kit. £19.99 (£22.33)
Colour consumable kit. £18.99 (£21.15)
HP Support pack 3 year OSM. £40.00 (£47.00)

HP DeskJet 690C Plus with EasyPhoto Reader

Scan and print your photos from your PC with ease

£209+VAT (£245.58)



HP DeskJet 870C

£212+VAT
(£249.10)



Professional series printer with premium performance to increase office productivity 600dpi high resolution black printing Up to 600 x 300dpi colour printing

HP's Colour Resolution Enhancement technology for superior quality colour Up to 8ppm black, up to 4ppm colour Print on plain, glossy or recycled paper, transparencies, envelopes and labels Comprehensive support for many operating systems including DOS, Windows 3.1/95 and Macintosh 26 scalable fonts plus 125 TrueType fonts for Windows 1000 page per month duty cycle (black)

Black consumable kit. £20.99 (£23.50) Colour consumable kit. £17.99 (£19.98) HP Support pack 3 year On-Site maintenance agreement. £66.00 (£77.55)



LaserJet 6L

Simply the best low cost laser printer

Crisp, clear, permanent HP LaserJet printing on letterheads, envelopes and transparencies True 600 x 600dpi 1Mb standard, expandable to 9Mb High performance 6 pages per minute Patented fuser technology eliminated warm-up time Time saving 18 second first page out Simplified control panel HP PrintSmart technologies provide simple, complete printing for Windows and/or DOS 26 True Type scalable fonts built-in Optional network upgrade

£249+VAT
(£292.58)

Consumable kit. £45.99 (£52.88)
HP Support pack 3 year On-Site agreement. £77.99 (£90.48)

Dramatic colour output

HP Image REI 1200 uses sophisticated colour control and precise toner blending to produce 1200dpi equivalent image quality at low cost Advanced halftone techniques giving smooth photo-realistic images, and millions of true solid colours Low cost per page – as low as 1p per page black, and 6p per page colour High performance – up to 10ppm black, and 3ppm colour 40MHz RISC processor 20Mb RAM High volume – 30000 page monthly duty cycle Versatile – prints on plain and glossy paper, or transparency film Mono printing up to A3, colour up to A4 Network connectivity – 5M model adds 36Mb RAM, PostScript Level 2, ethernet and LocalTalk ports



£2949+VAT
(£3465.08)

HP Colour LaserJet 5M. £3749.99 (£4405.08)
HP Support pack 3 year On-Site maintenance agreement (5/5M). £948.99 (£1113.90)

LaserJet 5



High performance, user friendly printing

Accelerated printing technologies for faster return to application and faster first page out 12ppm print engine with 35000 page monthly duty cycle Simple, easy to understand control panel 250 sheet A4 input tray and 100 sheet multi-purpose input tray True 600dpi x 600dpi quality, with HP Resolution Enhancement technology 5 model has parallel and serial ports 5N model adds HP JetDirect server giving ethernet port Vast array of upgrades such as RAM, PostScript Level 2, paper trays etc

£709+VAT
(£833.08)

HP LaserJet 5N. £899.99 (£1056.33)
Consumable kit (5/5N). £65.99 (£76.38)
HP Support pack 3 year On-Site maintenance agreement (5/5N). £180.00 (£211.50)

HP DeskJet 340. £149.99 (£175.08)
Black consumable kit. £11.99 (£14.15)
Colour consumable kit. £19.99 (£22.33)
3 year on-site maintenance. £40.00 (£47.00)

HP DeskJet 1600. £899.99 (£1056.33)
Black consumable kit. £20.99 (£23.50)
Colour consumable kit. £21.99 (£24.96)
3 year on-site maintenance. £105.00 (£123.38)

HP LaserJet 6 P. £505.99 (£593.38)
Consumable kit. £59.99 (£69.33)
3 year on-site maintenance. £142.00 (£166.85)

HP LaserJet 6 MP. £629.99 (£739.08)
Consumable kit. £29.99 (£33.33)
3 year on-site maintenance. £142.00 (£166.85)

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for HP, Epson & Canon inkjets

720dpi A4 Photoplus	20 pack. £2.99 (£3.53)
100 pack. £29.99 (£34.98)	
720dpi A3 Photoplus	20 pack. £6.99 (£8.20)
100 pack. £13.99 (£15.20)	
1440dpi A4 Photoplus Pro	20 pack. £6.99 (£8.20)
100 pack. £13.99 (£15.20)	
1440dpi A3 Photoplus Pro	20 pack. £6.99 (£8.20)
100 pack. £13.99 (£15.20)	
1440dpi A4 Film 150gsm	20 pack. £6.99 (£8.20)
100 pack. £13.99 (£15.20)	
1440dpi A3 Film 150gsm	20 pack. £6.99 (£8.20)
100 pack. £13.99 (£15.20)	

EPSON

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Consumables & OSM as Stylus 200 Colour	£65.99 (£76.38)
Stylus 600	£183.99 (£215.03)
Black consumable kit	£18.99 (£21.15)
Colour consumable kit	£17.99 (£19.98)
3 year on-site maintenance	£85.00 (£97.38)
Stylus 800	£239.99 (£280.83)
Consumables & OSM as Stylus 600	£85.00 (£97.38)
Stylus Photo	£335.99 (£393.33)
Consumables & OSM as Stylus 600	£85.00 (£97.38)
Stylus 1520	£609.99 (£715.58)
Black consumable kit	£18.99 (£21.15)
Colour consumable kit	£17.99 (£19.98)
3 year on-site maintenance	£199.99 (£230.83)

Canon

BJ-30	£140.99 (£164.50)
Black consumable kit	£18.99 (£21.15)
3 year on-site maintenance	£35.99 (£41.13)
BJC-70	£162.99 (£190.35)
Black consumable kit	£18.99 (£21.15)
Colour consumable kit	£22.99 (£26.85)
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Black consumable kit	£18.99 (£21.15)
Colour consumable kit	£17.99 (£19.98)
3 year on-site maintenance	£80.00 (£92.38)
BJC-620	£209.99 (£245.58)
Black consumable kit	£18.99 (£21.15)
Colour consumable kit	£19.99 (£22.33)
3 year on-site maintenance	£80.00 (£92.38)
BJC-4200	£1149.99 (£1375.08)
Black consumable kit	£18.99 (£21.15)
Colour consumable kit	£29.99 (£33.33)
3 year on-site maintenance	£80.00 (£92.38)

HEWLETT PACKARD

BJC-4550	£305.99 (£358.38)
Consumables & OSM as BJC-4200	£80.00 (£92.38)
LBP-465	£239.99 (£280.83)

CLEARANCE BARGAINS

Categories: 1. As new, complete
2. Slightly soiled, complete
3. Soiled, incomplete

NOTEBOOKS

Vale Voyager II Mk I High spec Pentium notebook, SVGA colour, internal CD-ROM drive etc. £ Various please call Evesham branch for details

BACKUP DEVICES

Seagate 3.2Gb TapeStar external Category 1. £99.99 (£116.33)

MODEMS

SPECIAL OFFER – ALL FAXMODEMS INCLUDE INTERNET ACCESS SOFTWARE WITH FREE TRIAL CONNECTION PERIOD
Pace Netlink 34 NEW. £29.99 (£34.08)

HARD DISKS

Seagate 540Mb 2.5" Cat 1. £79.99 (£92.83)
Voyager 1.1Gb 2.5" Cat 1. £129.99 (£151.58)

KEYBOARDS

Enhanced keyboard Cat 2. £15.99 (£17.63)

MOTHERBOARDS

Microstar MS4134 Cat 2. £45.99 (£52.88)

MONITORS

17" GoldStar Studworks Category 2. £349.99 (£410.08)
15" Iiyama Vision Master Category 2. £185.99 (£217.38)

PRINTERS

INKJET
Canon BJC-600 Category 2. £99.99 (£116.33)

Canon BJC-4100 Category 3. £99.99 (£116.33)
Canon BJC-4200 Category 2. £129.99 (£151.58)
Epson Stylus 200 Category 2. £139.99 (£163.33)
Epson Stylus 600 Category 2. £159.99 (£186.83)
HP DeskJet 670C Category 2. £109.99 (£128.08)

SCANNERS

Mustek A4 800dpi Cat 2. £99.99 (£116.33)
Mustek A4 sheffield mono Category 2. £69.99 (£81.08)

Please contact our Evesham branch for these products. All are clearance lines, shop soiled or second hand stock and all carry 12 months warranty. This stock changes quickly – please call to check availability before ordering.

More clearance bargains are held at our other branches – please call them if you do not see what you require.

Evesham Micros

XMAS OPENING TIMES

Closed: Thursday 25 Dec, Friday 26 Dec
Wednesday 31 Dec, Thursday 1 Jan
Sunday opening (Showrooms only):
30 Nov, 7/14/21 Dec; 1100-1600

BUSINESS AS USUAL AT ALL OTHER TIMES

HOW TO ORDER....

Call us now on
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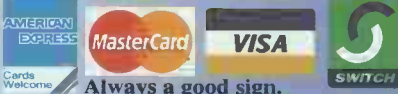
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Send Cheque, Postal Order or credit card details to:
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DELIVERY

Same day despatch whenever possible.
All orders are shipped by insured Courier. The Standard service for orders up to £300 ex VAT value is charged at £5+VAT (£5.88) – normally the second working day after despatch. All orders above this value use the Express service – normally the next working day after despatch. Orders from £300 to £750 are charged at £10+VAT (£11.75), and orders above £750 are charged at £15+VAT (£17.63). (UK mainland only, other please call). Please note that 5 banking days must be allowed for cheque clearance. Immediate clearance on Bank Drafts and Building Society cheques.
Account facilities available to qualified commercial customers.

Credit card orders: We do not charge the card until the goods are despatched.



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Introducing the Evesham Micros VISA CARD

see our Web site or call for details

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CAMBRIDGE	MILTON KEYNES
5 Glisson Road, Cambridge CB1 2HA ☎ 01223-323898 fax: 01223 322883	320 Witan Gate, Milton Keynes MK9 2HP ☎ 01908-230898 fax: 01908 230865

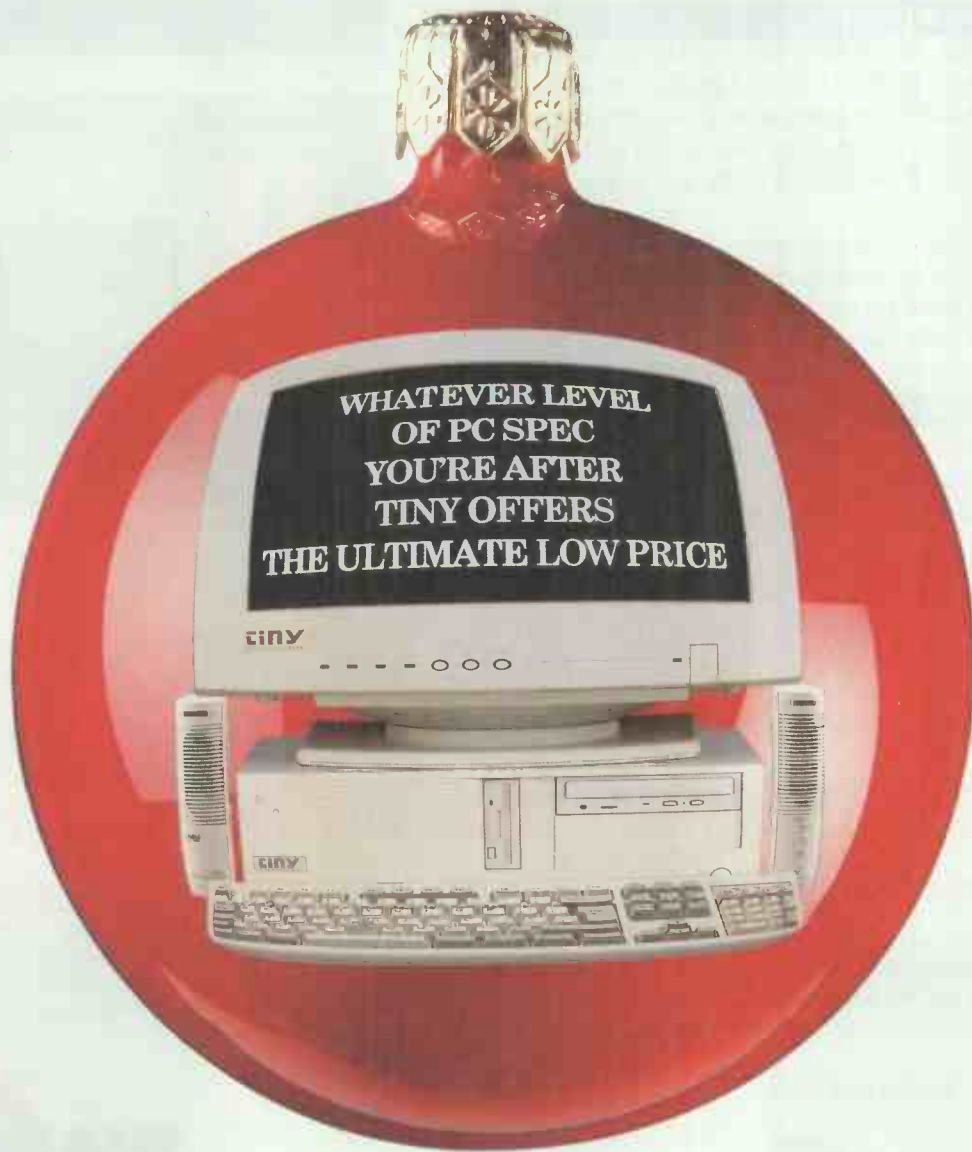
CHECK OUT OUR WEB SITE
<http://www.evesham.com>

1 YEAR WARRANTY ON ALL GOODS

All orders are subject to Evesham Micros standard Terms and Conditions of trading. These are available on request.

THIS ADVERT IS EFFECTIVE FROM 1/12/97
SOME PRICES AND SPECIFICATIONS MAY CHANGE AFTER 31/12/97

Our **prices** always
reflect the best
value.



tiny



First we make it easy for you to understand what you get from our computers.

Tiny have been making computers since 1981 and now have thousands of satisfied customers who we listen to, helping us to understand what you want and need from a PC.

Buying Guide

Unless you are immersed in technology day in, day out the prospect of buying a PC can be a daunting one. As the UK's leading Independent PC manufacturer, we pride ourselves on understanding our customers' needs. That's why each of our staff are trained to advise you in plain English on the best system for you and your budget.

As well as being jargon-free, whenever you visit one of our showrooms you can be assured of a hassle-free zone where, until you require advice, you can spend some hands on time with your preferred system before making any decision. You can also buy your system direct via our freephone sales line 0800 821333.

Delivery

Our courier will deliver direct to you between 9am and 6pm on the date stated on your order form. We regret that we are unable to state exact delivery times, however, in the unlikely event of a delay, we will contact you.



Tiny head office at Redhill



Typical Tiny Showroom

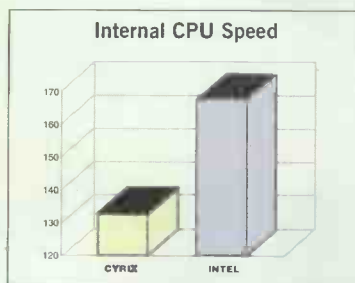
Then we make sure our computers give you a level of performance and price you won't find anywhere else.



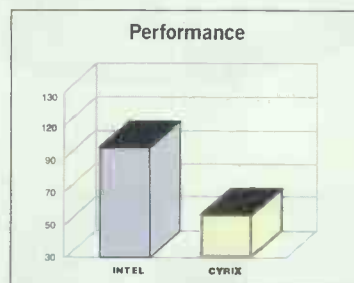
The processor is the brain of the PC and therefore makes the biggest difference to the price. All of Tiny's systems include Intel Pentium® processors with MMX™ technology or Intel Pentium® II processors which are measured in true MHz, which indicates it's clock speed. Beware of other PC manufacturers who use non-Intel processors. They often use a different scale such as Performance Related (e.g. PR200), which may be up to 30% slower in true MHz.

Warning

MMX™ technology software is designed specifically to Intel standards to deliver consistently high levels of performance in multimedia, games and graphics applications. The use of non-Intel processors can lead to performance inconsistencies with these MMX™ technology software applications and is therefore not recommended.



This graph indicates how much faster the Intel Pentium® Processor runs internally in comparison to the equivalent processor from Cyrix.



This graph shows a direct head-to-head test using 3D WinBench 97™ comparing an Intel 166 MHz Pentium® Processor with MMX™ technology to a Cyrix 6x86-PR166 MMX™ processor.



0 8 0 0 7 3 1 3 4 7 6

Delivery charges may vary for some UK areas and Ireland. Please ask for details.

And then everything else that matters.

To help you make your decision we have compiled the following information to take the mystery out of computers and to explain much of the jargon that is used

RAM (Random Access Memory)

This is the kind of memory the contents of which disappears when you turn off your computer and is much faster to access than a hard disk. It acts as a staging post between your computer's hard disk and its processor. Tiny PCs feature two types of RAM - either fast EDO RAM or ultra fast SDRAM. The more RAM you have in your system, the more multiple tasks your PC will be able to perform, resulting in faster, smoother applications. Investing in more RAM will provide a greater level of future proofing as more and more memory intensive applications appear.

Motherboard

This is the most important part of the system. If the processor is the brain, the motherboard is the spine which supplies all the electrical connections among various components of the computer. Tiny Computers use the latest and fastest chipsets available in the world: the i430TX PCIset and i440LX PCIset, both from Intel. The i440LX is currently the fastest in the world being over 15% faster than its nearest rival. This means your system can access programmes more quickly and will be more able to handle future hardware and software developments.

Beware of buying systems with out of date motherboards. Systems with VX and FX are obsolete and will not comply with PC '97.

ATX & PC '97

All Tiny systems are ATX which means that all of the components are laid out in a more structured and efficient way. With more of the components integrated into the motherboard, there are fewer wires, making upgrading and maintenance easier. ATX also provides greater reliability and power management features such as suspend and standby - saving the lengthy boot-up every time you wish to use your machine.

Beware of systems being sold by other manufacturers that do not conform to PC'97. Systems that are PC'97 compliant are guaranteed to be compatible with current and pending releases of operating system from Microsoft such as Windows - the industry leader.

Graphics Cards

The Graphics Card creates the image you see on your monitor. The type of card you have in your PC affects the quality of image you see. Thanks to MMX™ technology, all of Tiny's systems are capable of rendering 3D graphics; however, in some of our latest systems we use the AGP (Advanced Graphics Port) based ATI Expert @ Work 4MB SG RAM AGP, running at 133MHz which is four times faster than a standard PCI graphics adapter (33MHz). This means that for the first time, you can have true arcade quality graphics on your PC.

Warning: When buying a PC, ensure that the Graphics Card does not steal main system RAM, thus reducing the overall performance of the computer, but instead has dedicated high speed graphics memory, as in all Tiny PCs. Our dedicated graphics RAM and 3D graphics chip mean you can take advantage of the realistic 3D, full colour graphics that the multimedia applications of tomorrow will deliver.

Soundcards

The majority of existing soundcards are 16-bit, including the basic soundcard and Wavetable32. The '32' of Wavetable32 refers to the number of different instruments that can be played at once. The Pentium® II processor means you can now experience 3D sound, which makes the sound appear as though it is coming from a sound stage wider than the area in which the speakers are placed, therefore creating a much more enjoyable and realistic listening experience.

Beware of other vendors offering "software" wavetable solutions - these waste valuable system resources and thus slow down the computer. Our wavetable 32 soundcard is a hardware wavetable solution, delivering superb sound, without harming system performance

CD & DVD Drives

A CD ROM Drive is essential on a modern PC. Each disk can contain up to 680MB of data and therefore is essential for storing the latest software. The CD ROM drives that come with most Tiny systems are 24 speed max - more than fast enough for the software that is available today.

The Tiny Movie Centre and Sound & Vision Systems (within these pages) bring you incredible images with their Pentium® II processors and DVD ROM drives. The advent of DVD (Digital Versatile Disk) means that you can now view digitised video on your PC, clearer than you could ever see on your TV or at the cinema. Plus a DVD ROM drive can perform all the usual tasks of a normal CD ROM drive only better, an excellent way to future proof now!

Voice Fax/Modem

A modem connects the PC to the telephone line. All Fax Modems supplied by Tiny are internal, running at 56,600 bps. Tiny's modems also allow you to send and receive faxes just like having a normal fax machine. As with all modems you can also connect to the Internet where you can 'surf' looking for information and free software.

Cache

Cache is a smaller area of ultra fast memory that is used as a buffer between the processor and the RAM memory to prevent your computer from being slowed down by other components. This results in an overall increase in system efficiency, thereby making your PC run more smoothly.

Hard Disk Drive

This is where software is permanently stored even when the PC is switched off. It is best to buy the largest drive you can afford, as technology advances, software is needing more and more space on the hard disk. Tiny systems now include Ultra DMA Hard Drives which operate at twice the transfer rate of other IDE Hard Drives, therefore accessing your software much faster.

Monitor

All Tiny monitors are SVGA and non-interlaced (pin-sharp to reduce eye-strain). They will run most software, including 3D games and are available in 14", 15" and 17" sizes. As the monitor is part of the PC you will be looking at all day, it is advisable to buy the largest your budget will allow.

Software

Throughout the life of your PC, your software library will grow and grow. To get you off to a good start, Tiny has teamed up with the major software manufacturers to offer some of the best known and most useful titles available. When you buy your PC, the software will be pre-loaded to save you time, but we also supply you with back-up disks in case you decide to re-install them. Beware: A lot of our competitors sell systems without back-up disks.

The Year 2000

All Tiny PCs are 2000 compliant which means that your system will not need costly re-programming at the turn of the millennium.

COMPLETE PEACE OF MIND

All Tiny systems benefit from a high level of service including after sales support which offers a 12 months parts & labour warranty including collect & return at our expense (UK mainland). We can also tailor an on-site service contract for you.

Customer satisfaction is our utmost priority - we have a large technical call centre and a unique customer care policy; all customers are phoned within two working days of delivery of PC to ensure a high standard of customer care quality. Additionally all Tiny systems come with an easy to use system restorer pack. In case of disaster, you can reset your computer to its original format.



Tiny customer support teams

51 SHOWROOMS NATIONWIDE

TINY

Home Leisure Plus System

INCLUDING SOFTWARE
MICROSOFT FAMILY '97:
 MS Works (Spreadsheet, Word Processor, Database)
 • MS Encarta 97 (Encyclopaedia)
 • MS Money (Home Finance)
 • MS Creative Writer
 • MS Explorapedia • MS Football
 • MS CD Sampler
MMX™ TECHNOLOGY SOFTWARE:
 Pod • Ultimate Human Body 2
 • Space Station Simulator • Third Dimension • Timetables of Technology
HOME ENTERTAINMENT SOFTWARE
 Bodyworks • Kitchen Gourmet
 • Design IT! 3D • The Oregon Trail
 • Home Gardener • Typing Teacher
 • Reading Journey • Berlitz French



- Desktop Case with 2x5.25" & 3x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 200 MHz Pentium® Processor with MMX™ technology
- High Performance Intel i430 TX Chipset Motherboard (7 PCI/ISA slots)
- 512K Pipeline Burst Cache
- 32MB FAST EDO RAM (expandable to 256MB)
- 4.2GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 15" Pin Cushion Control NI Power Management Colour Monitor †(Max resolution 1024 x 768)
- 4MB 3D Superfast 64bit Graphics Card with MPEG software
- 24 Speed Max CD ROM Drive
- Wavetable 32 Stereo Soundcard plus 180 Watt PMPO Speakers
- Canon BJC 250 Colour Printer • Joystick
- Voice Fax/Modem 56.6bps (56K flex) with BT LineOne Internet Access
- 1.44MB FDD • 2 USB Ports
- PS2 Keyboard • PS2 Mouse • Windows 95

- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Over £300 of Microsoft Family '97 Software
- Latest MMX™ technology Software
- Home Entertainment Software
- 12 Months Collect & Return Parts & Labour Warranty

£1149 ex VAT
£1350 inc VAT

0% **PAY NOTHING UNTIL OCT 1998 - NOT EVEN A DEPOSIT** **26.9%**

REPAYMENT EXAMPLE

PC cash price £1381.80 (Inc. Delivery £27.00+ VAT @ 17.5%) Pay whole balance on or before due payment date interest free, alternatively pay 36 monthly payments of £54.25. Total amount payable £1953.00. APR 26.9%. Written quotations upon requests. Finance subject to status.



0 8 0 0 7 3 1 3 4 7 6

† Industry standard practice is to measure monitors using CRT size. Actual viewing area can be approx 1.2" less.

Budget 166M System

- Desktop Case with 2x5.25" & 3x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 166 MHz Pentium® Processor with MMX™ technology
- High Performance Intel i430 TX chipset Motherboard (7 PCI/ISA slots)
- 512K Pipeline Burst Cache
- 16MB FAST EDO RAM (expandable to 256MB)
- 2.1GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 14" SVGA .28 Colour Monitor† (Max resolution 1024 x 768)
- 2MB 3D 64bit High Performance Graphics Card including MPEG software
- 1.44MB FDD
- 2 USB Ports
- PS2 Keyboard
- PS2 Mouse
- Windows 95
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- 12 Months Collect & Return Parts & Labour Warranty

MULTIMEDIA UPGRADE OPTION

£90 ex VAT
£105.75 inc VAT
 (Specification as opposite)

PLUS

- 24 Speed Max CD ROM & 16bit Stereo Soundcard & 180 Watt PMPO Speakers

£569 ex VAT
£668 inc VAT

Home Value Plus System

- Desktop Case with 2x5.25" & 3x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 166 MHz Pentium® Processor with MMX™ technology
- High Performance Intel i430 TX chipset Motherboard (7 PCI/ISA slots)
- 512K Pipeline Burst Cache
- 16MB FAST EDO RAM (expandable to 256MB)
- 2.6GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 14" SVGA .28 Colour Monitor† (Max resolution 1024 x 768)
- 2MB 3D 64bit High Performance Graphics Card including MPEG software
- 24 Speed Max CD ROM Drive
- 16bit Stereo Soundcard plus 180 Watt PMPO Speakers
- Joystick
- Canon BJC 250 Colour Printer
- 1.44MB FDD
- 2 USB Ports
- Windows 95
- PS2 Keyboard
- PS2 Mouse
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Over £300 of Microsoft Family '97 Software
- Home Entertainment Software
- Latest MMX™ technology software
- 12 Months Collect & Return Parts & Labour Warranty

PAY NOTHING UNTIL OCT 1998 - NOT EVEN A DEPOSIT

REPAYMENT EXAMPLE

PC cash price £1064.55 (inc. Delivery £27.00 + VAT @ 17.5%) Pay whole balance on or before due payment date interest free, alternatively pay 36 monthly payments of £41.79. Total amount payable £1504.44.

APR 26.9%. Written quotations upon requests. Finance subject to status.

INCLUDING SOFTWARE
MICROSOFT FAMILY '97: MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia) • MS Money (Home Finance) • MS Creative Writer • MS Explorapedia • MS Football • MS CD Sampler
HOME ENTERTAINMENT SOFTWARE
 Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French
MMX™ TECHNOLOGY SOFTWARE:
 Pod • Ultimate Human Body 2 • Space Station Simulator • Third Dimension • Timetables of Technology

£879 ex VAT
£1032 inc VAT

Home Study System

- Desktop Case with 2x5.25" & 3x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 166 MHz Pentium® Processor with MMX™ technology
- High Performance Intel i430 TX chipset Motherboard (7 PCI/ISA slots)
- 512K Pipeline Burst Cache
- 32MB FAST EDO RAM (expandable to 256MB)
- 3.5GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 15" Pin Cushion Control NI Power Management Colour Monitor † (Max resolution 1024 x 768)
- 2MB 3D 64bit High Performance Graphics Card including MPEG software
- 24 Speed Max CD ROM Drive
- Wavetable 32 Stereo Soundcard plus 180 Watt PMPO Speakers
- Joystick
- Voice Fax /Modem 56.6bps (56k flex) with BT LineOne Internet Access
- 1.44MB FDD
- 2 USB Ports
- PS2 Keyboard
- PS2 Mouse
- Windows 95
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Latest MMX™ technology Software
- Over £300 of Microsoft Family '97 Software
- 12 Months Collect & Return Parts & Labour Warranty

HOME MEDIA OPTION

Pay nothing until October 1998 – not even a deposit. Specification as above plus a stack of home entertainment software (Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French)

£969 ex VAT **£1138** inc VAT

INCLUDING SOFTWARE
MICROSOFT FAMILY '97: MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia) • MS Money (Home Finance) • MS Creative Writer • MS Explorapedia • MS Football • MS CD Sampler
MMX™ TECHNOLOGY SOFTWARE: Pod • Ultimate Human Body 2 • Space Station Simulator • Third Dimension • Timetables of Technology

£899 ex VAT
£1056 inc VAT

Home Studio System™



INCLUDING SOFTWARE
MICROSOFT FAMILY '97:
 MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia)
 • MS Money (Home Finance)
 • MS Creative Writer
 • MS Explorapedia • MS Football
 • MS CD Sampler

HOME ENTERTAINMENT SOFTWARE
 Bodyworks • Kitchen Gourmet
 • Design IT! 3D • The Oregon Trail
 • Home Gardener • Typing Teacher
 • Reading Journey • Berlitz French

MMX™ TECHNOLOGY SOFTWARE:
 Pod • Ultimate Human Body 2 • Space Station Simulator • Third Dimension
 • Timetables of Technology



- Desktop Case with 2x5.25" & 3x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 200 MHz Pentium® Processor with MMX™ technology
- High Performance Intel i430 TX Chipset Motherboard (7 PCI/ISA slots)
- 512K Pipeline Burst Cache
- 32MB FAST EDO RAM (expandable to 256MB)
- 4.2GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 15" Pin Cushion Control NI Power Management Colour Monitor † (Max resolution 1024 x 768)
- 4MB 3D Superfast 64bit Graphics Card with MPEG software
- 24 Speed Max CD ROM Drive
- Wavetable 32 Stereo Soundcard plus 180 Watt PMPO Speakers
- Joystick • Fuji Digital Camera with removable flash memory
- Voice Fax/Modem 56.6bps (56K flex) with BT LineOne Internet Access
- Epson Stylus 400 Photo-Ready Colour Printer
- 1.44MB FDD • 2 USB Ports • PS2 Keyboard • PS2 Mouse
- Windows 95 • Easy to use System Restorer Pack

- Intel Landesk Anti-Virus Protect Software
- Image Editing Software
- Over £300 of Microsoft Family '97 Software
- Home Entertainment Software
- Latest MMX™ technology Software
- 12 Months Collect & Return Parts & Labour Warranty



£1299 ex VAT
£1526 inc VAT

0%

PAY NOTHING UNTIL OCT 1998 - NOT EVEN A DEPOSIT

26.9%

REPAYMENT EXAMPLE

PC cash price £1558.05 (Inc. Delivery £27.00+ VAT @ 17.5%) Pay whole balance on or before due payment date interest free, alternatively pay 36 monthly payments of £61.17. Total amount payable £2202.12. APR 26.9%. Written quotations upon requests. Finance subject to status.



0 8 0 0 7 3 1 3 4 7 6

Home Study Plus System

- Desktop Case with 2x5.25" & 3x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 166 MHz Pentium® Processor with MMX™ technology
- High Performance Intel i430 TX Chipset Motherboard (7 PCI/ISA slots)
- 512K Pipeline Burst Cache
- 32MB FAST EDO RAM (expandable to 256MB)
- 3.5GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 15" Pin Cushion Control NI Power Management Colour Monitor † (Max resolution 1024 x 768)
- 2MB 3D 64bit High Performance Graphics Card including MPEG software
- 24 Speed Max CD ROM Drive
- Wavetable 32 Stereo Soundcard plus 180 Watt PMPO Speakers
- Canon BJC 250 Colour Printer • Joystick
- Voice Fax/Modem 56.6bps (56k flex) with BT LineOne Internet Access
- 1.44MB FDD • 2 USB Ports
- PS2 Keyboard • PS2 Mouse • Windows 95
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Over £300 of Microsoft Family '97 Software
- Home Entertainment Software
- Latest MMX™ technology Software
- 12 Months Collect & Return Parts & Labour Warranty

INCLUDING SOFTWARE
MICROSOFT FAMILY '97:
 MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia) • MS Money (Home Finance) • MS Creative Writer • MS Explorapedia • MS Football • MS CD Sampler

MMX™ TECHNOLOGY SOFTWARE:
 Pod • Ultimate Human Body 2 • Space Station Simulator • Third Dimension • Timetables of Technology

HOME ENTERTAINMENT SOFTWARE
 Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French

PAY NOTHING UNTIL OCT 1998 - NOT EVEN A DEPOSIT

REPAYMENT EXAMPLE

PC cash price £1264.30 (Inc. Delivery £27.00 + VAT @ 17.5%) Pay whole balance on or before due payment date interest free, alternatively pay 36 monthly payments of £49.64. Total amount payable £1787.04.

APR 26.9%. Written quotations upon requests. Finance subject to status.



Home Leisure System

- Desktop Case with 2x5.25" & 3x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 200 MHz Pentium® Processor with MMX™ technology
- High Performance Intel i430 TX Chipset Motherboard (7 PCI/ISA slots)
- 512K Pipeline Burst Cache
- 32MB FAST EDO RAM (expandable to 256MB)
- 4.2GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 15" Pin Cushion Control NI Power Management Colour Monitor † (Max resolution 1024 x 768)
- 4MB 3D Superfast 64bit Graphics Card with MPEG software
- 24 Speed Max CD ROM Drive
- Wavetable 32 Stereo Soundcard plus 180 Watt PMPO Speakers
- Joystick
- Voice Fax/Modem 56.6bps (56K flex) with BT LineOne Internet Access
- 1.44MB FDD • 2 USB Ports
- PS2 Keyboard • PS2 Mouse • Windows 95
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Over £300 of Microsoft Family '97 Software
- Latest MMX™ technology Software
- 12 Months Collect & Return Parts & Labour Warranty

INCLUDING SOFTWARE
MICROSOFT FAMILY '97:
 MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia) • MS Money (Home Finance) • MS Creative Writer • MS Explorapedia • MS Football • MS CD Sampler

MMX™ TECHNOLOGY SOFTWARE:
 Pod • Ultimate Human Body 2 • Space Station Simulator • Third Dimension • Timetables of Technology

HOME MEDIA OPTION

Pay nothing until October 1998 – not even a deposit. Specification as above plus a stack of home entertainment software (Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French)

£1069^{ex VAT} £1256^{inc VAT}



Home Business System

- Desktop Case with 2x5.25" & 3x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 233 MHz Pentium® Processor with MMX™ technology
- High Performance Intel i430 TX chipset Motherboard (7 PCI/ISA slots)
- 512K Pipeline Burst Cache
- 32MB FAST SD RAM (expandable to 256MB)
- 4.2GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 15" Pin Cushion Control NI Power Management Colour Monitor † (Max resolution 1024 x 768)
- 4MB 3D Superfast 64bit Graphics Card with MPEG software
- 24 Speed Max CD ROM Drive
- Wavetable 32 Stereo Soundcard plus 180 Watt PMPO Speakers
- Joystick
- Voice Fax/Modem 56.6bps (56K flex) with BT LineOne Internet Access
- 1.44MB FDD • 2 USB Ports
- PS2 Keyboard • PS2 Mouse • Windows 95
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Over £300 of Microsoft Family '97 Software
- Latest MMX™ technology Software
- 12 Months Collect & Return Parts & Labour Warranty

INCLUDING SOFTWARE
MICROSOFT FAMILY '97:
 MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia) • MS Money (Home Finance) • MS Creative Writer • MS Explorapedia • MS Football • MS CD Sampler

MMX™ TECHNOLOGY SOFTWARE:
 Pod • Ultimate Human Body 2 • Space Station Simulator • Third Dimension • Timetables of Technology

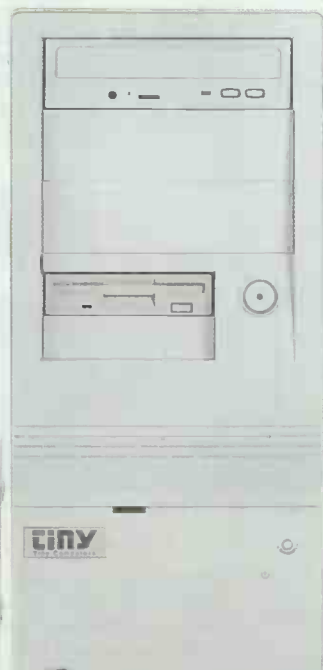
HOME MEDIA OPTION

Pay nothing until October 1998 – not even a deposit. Specification as above plus a stack of home entertainment software (Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French)

£1169^{ex VAT} £1373^{inc VAT}



Office Connect System



INCLUDING SOFTWARE
MICROSOFT FAMILY '97:
 MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia) • MS Money (Home Finance) • MS Creative Writer • MS Explorapedia • MS Football • MS CD Sampler

- Midi Tower Case with 3x5.25" & 4x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 233 MHz Pentium® II Processor
- High Performance Intel AL 440 LX Motherboard Chipset with Advanced Graphics Port (7 PCI/ISA slots)
- 512K CPU Cache
- 32MB FAST SD RAM (expandable to 384MB)
- 5.2GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 15" Pin Cushion Control NI Power Management Colour Monitor † (Max resolution 1024 x 768)
- 4MB 3D Superfast 64bit Graphics Card with MPEG Software
- 24 Speed Max CD ROM Drive
- Wavetable 32 3D Integrated Sound plus 180 Watt PMPO Speakers
- **Canon BJC 250 Colour Printer** • Joystick
- Voice Fax/Modem 56.6bps (56K flex) with BT LineOne Internet Access
- 1.44MB FDD • 2 USB Ports

- Windows 95
- PS2 Keyboard
- PS2 Mouse
- Over £300 of Microsoft Family '97 Software
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- 12 Months Collect & Return Parts & Labour Warranty

£1299 ex VAT
~~£1526~~ ex VAT

0%

HOME MEDIA OPTION

Pay nothing until October 1998 – not even a deposit. Specification as above plus a stack of home entertainment software (Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French)

26.9%

£1369 ex VAT **£1608** inc VAT



0 8 0 0 7 3 1 3 4 7 6



pentium[®] PROCESSOR

pentium[®] II PROCESSOR

Home Business Plus System

- Desktop Case with 2x5.25" & 3x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 233 MHz Pentium[®] Processor with MMX[™] technology
- High Performance Intel i430 TX Chipset Motherboard (7 PCI/ISA slots)
- 512K Pipeline Burst Cache
- 32MB FAST SD RAM (expandable to 256MB)
- 4.2GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 15" Pin Cushion Control NI Power Management Colour Monitor † (Max resolution 1024 x 768)
- 4MB 3D Superfast 64bit Graphics Card with MPEG software
- 24 Speed Max CD ROM Drive
- Wavetable 32 Stereo Soundcard plus 180 Watt PMPO Speakers
- Joystick • Epson Stylus 400 Colour Printer
- Voice Fax/Modem 56.6bps (56K flex) with BT

- LineOne Internet Access • 1.44MB FDD
- 2 USB Ports • PS2 Keyboard
- PS2 Mouse • Windows 95
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Over £300 of Microsoft Family '97 Software
- Home Entertainment Software
- Latest MMX[™] technology Software
- 12 Months Collect & Return Parts & Labour Warranty

INCLUDING SOFTWARE
MICROSOFT FAMILY '97:
 MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia) • MS Money (Home Finance) • MS Creative Writer • MS Explorapedia • MS Football • MS CD Sampler
MMX[™] TECHNOLOGY SOFTWARE:
 Pod • Ultimate Human Body 2 • Space Station Simulator • Third Dimension • Timetables of Technology
HOME ENTERTAINMENT SOFTWARE
 Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French

PAY NOTHING UNTIL OCT 1998 - NOT EVEN A DEPOSIT

REPAYMENT EXAMPLE

PC cash price £1499.30 (Inc. Delivery £27.00 + VAT @ 17.5%) Pay whole balance on or before due payment date interest free, alternatively pay 36 monthly payments of £58.86. Total amount payable £2118.96.

APR 26.9%. Written quotations upon requests.

Finance subject to status.



Home Entertainment TV System

- Midi Tower Case with 3x5.25" & 4x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 233 MHz Pentium[®] II Processor
- High Performance Intel AL 440 LX Chipset Motherboard with Advanced Graphics Port (7 PCI/ISA slots)
- 512K CPU Cache
- 32MB FAST SD RAM (expandable to 384MB)
- 5.2GB Ultra DMA IDE HDD (2 x Transfer Rate)
- 15" Pin Cushion Control NI Power Management Colour Monitor † (Max resolution 1024 x 768)
- ATI Xpert @ Work 4MB SG RAM AGP 133 MHz Arcade Quality Graphics and MPEG Software
- 24 Speed Max CD ROM Drive
- Wavetable 32 3D Integrated Sound
- 500 Watt PMPO Sub Woofer and 2 Satellite Speakers • Joystick

- Voice Fax/Modem 56.6bps (56K flex) with BT LineOne Internet Access
- TV Tuner with Teletext • 1.44MB FDD
- 2 USB Ports • PS2 Keyboard
- PS2 Mouse • Windows 95
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Amazing arcade quality AGP Games
- Over £300 of Microsoft Family '97 Software
- Home Entertainment Software
- 12 Months Collect & Return Parts & Labour Warranty

INCLUDING SOFTWARE
MICROSOFT FAMILY '97:
 MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia) • MS Money (Home Finance) • MS Creative Writer • MS Explorapedia • MS Football • MS CD Sampler
HOME ENTERTAINMENT SOFTWARE
 Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French
AGP GAMES
 Formula 1 • Terricide

PAY NOTHING UNTIL OCT 1998 - NOT EVEN A DEPOSIT

REPAYMENT EXAMPLE

PC cash price £1667.33 (Inc. Delivery £20.00 + VAT @ 17.5%) Pay whole balance on or before due payment date interest free, alternatively pay 36 monthly payments of £65.46. Total amount payable £2356.56.

APR 26.9%. Written quotations upon requests.

Finance subject to status.



Sound & Vision System

- Midi Tower Case with 3x5.25" & 4x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 233 MHz Pentium[®] II Processor
- High Performance Intel AL 440 LX Chipset Motherboard with Advanced Graphics Port (7 PCI/ISA slots)
- 512K CPU Cache
- 64MB FAST SD RAM (expandable to 384MB)
- 5.2GB Ultra DMA IDE HDD (2 x Transfer Rate)
- ATI Xpert @ Work 4MB SG RAM AGP 133 MHz Arcade Quality Graphics & MPEG Software
- DVD ROM • Wavetable 32 3D Integrated Sound
- 5 Speakers • Joystick
- Dolby ProLogic Surround Sound Card
- Voice Fax/Modem 56.6bps (56K flex) with BT LineOne Internet Access
- TV Tuner with Teletext • TV Scart Connector

- Hardware MPEG-2 • 1.44MB FDD
- 2 USB Ports • Tiny Cordless Infrared Keyboard
- PS2 Mouse • Windows 95
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Amazing arcade quality AGP Games
- Over £300 of Microsoft Family '97 Software
- Home Entertainment Software
- 12 Months Collect & Return Parts & Labour Warranty

INCLUDING SOFTWARE
MICROSOFT FAMILY '97:
 MS Works (Spreadsheet, Word Processor, Database) • MS Encarta 97 (Encyclopaedia) • MS Money (Home Finance) • MS Creative Writer • MS Explorapedia • MS Football • MS CD Sampler
HOME ENTERTAINMENT SOFTWARE
 Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French
AGP GAMES
 Formula 1 • Terricide

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51 SHOWROOMS NATIONWIDE

TINY

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HOME ENTERTAINMENT SOFTWARE
Bodyworks • Kitchen Gourmet • Design IT! 3D • The Oregon Trail • Home Gardener • Typing Teacher • Reading Journey • Berlitz French
AGP GAMES
Formula 1 • Terracide

- Midi Tower Case with 3x5.25" & 4x3.5" drivebays
- ATX Form Factor conforming with PC '97
- Intel 266 MHz Pentium® II Processor
- High Performance Intel AL 440 LX Motherboard Chipset with Advanced Graphics Port (7 PCI/ISA slots)
- 512K CPU Cache
- 64MB FAST SD RAM (expandable to 384MB)
- 5.2GB Ultra DMA IDE HDD (2 x Transfer Rate)
- ATI Xpert @ Work 4MB SG RAM 133 MHz Arcade Quality Graphics and MPEG Software
- DVD ROM • Wavetable 32 3D Integrated Sound
- 5 Speakers • Dolby Prologic Surround Sound Card
- Joystick • Philips Proscreen 6000 SVGA Projector
- Voice Fax/Modem 56.6bps (56K flex) with BT LineOne Internet Access
- TV Tuner with Teletext • TV Scart Connector
- 1.44MB FDD • Hardware MPEG II
- 2 USB Ports • 68" Freestanding Projector Screen
- Tiny Cordless Infrared Keyboard • "GoldenEye" on DVD ROM
- PS2 Mouse • Windows 95

- Over £300 of Microsoft Family '97 Software
- Easy to use System Restorer Pack
- Intel Landesk Anti-Virus Protect Software
- Amazing arcade quality AGP Games
- Home Entertainment Software
- 12 Months Collect & Return Parts & Labour Warranty

£2299 ex VAT
£2701.33 inc VAT

0%

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26.9%

REPAYMENT EXAMPLE

PC cash price £2736.58 (Inc. Delivery £30.00 + VAT @ 17.5%) Pay whole balance on or before due payment date interest free, alternatively pay 36 monthly payments of £107.44. Total amount payable £3867.84.

APR 26.9%. Written quotations upon requests. Finance subject to status.

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40 London Rd. (opp Co-op Dept store)

BRISTOL
Union Gallery, The Galleries Shopping Centre, Broadmead

BROMLEY
185 High Street (2 mins from Cinema)

CAMBRIDGE
1 Emmanuel Street (Next to Natwest, opp Robert Sayle)

CANTERBURY
6 Iron Bar Lane (Thru pathway opp M&S)

CARDIFF
91 St. Mary St, (Heol Eglwys Fair) opp Morgan Arcade

CHELMSFORD
3 Market Road, (opp County Hall)

CHESTER
82 Northgate Street (opp Odeon cinema)

COVENTRY
19 Shelton Square (nr Market Hall)

CRAWLEY
County Mall (next to Robert Dyas)

CROYDON
15 St. Georges Walk, Croydon (opp Winfields)

EALING
4 Central Buildings (opposite Ealing Broadway Station)

EDINBURGH
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EXETER
22 Bedford Street (opp Main Post Office)

GLASGOW
52 Queen Street (beside St George's Sq)

GLOUCESTER
12 Bell Walk, Eastgate Centre

GUILDFORD
The Friary Shopping Centre (rear of HMV)

HUDDERSFIELD
14 The Shambles (opp BHS)

ILFORD
Mid Level, The Exchange Centre (nr C&A)

IPSWICH
Tower Ramparts Centre (next to Top Man)

KINGSTON
8 Castle Street (off Clarence Street)

LAKESIDE - OPENS DECEMBER
Lakeside Shopping Centre (opp Midland Bank)

LEEDS
Theatre Walk (Top Floor), The Headrow Centre

LEICESTER
9 Belgrave Gate, (nr Clock Tower) Haymarket Centre

LINCOLN
Waterside Shopping Centre (next to Partners)

LIVERPOOL
71 Bold Street (opp Forbidden Planet)

LONDON W1
Sonic Foto Centre, 256 Tottenham Court Rd

LONDON SW10
300 Fulham Road, Chelsea (nr Finborough Rd)

LONDON EC2
Liverpool Street Arcade, Liverpool Street (opp BR)

MANCHESTER
Piccadilly Plaza (nr Mosley St tram stop)

MANCHESTER
Ardale Centre (Voyager's Walk)

MILTON KEYNES - OPENS DECEMBER
Silbury Boulevard (next to Games Workshop)

NEWCASTLE
High Friars, (next to WH Smith) Eldon Square

NORTHAMPTON
42 Princes Walk (near Morrell's Cafe)

NORWICH
15 Westlegate (opp McDonald's)

NOTTINGHAM
Upper Mall, (Next to Boots), The Victoria Centre

OXFORD
2 King Edward Street (off High Street by Oddbins)

PETERBOROUGH
Rivergate Centre (Rivergate Arcade, nr Asda)

READING
Broad Street Mall, (Upper Level - opp Food Court)

SHEFFIELD
31 Market Street, Meadow Hall (opp. C&A)

SOLIHULL
23 Drury Lane (in Mell Sq)

SOUTHAMPTON
The Bargate Shopping Centre (Ground Floor)

STOKE
49 Parliament Row (corner of Old Hall Street)

SWINDON - OPENS DECEMBER
Brunel Centre (Above + opp M&S)

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18 Camden Road (behind Royal Victorian Centre)

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42 Charter Place (Upper Level - opp C&A)

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51 SHOWROOMS NATIONWIDE

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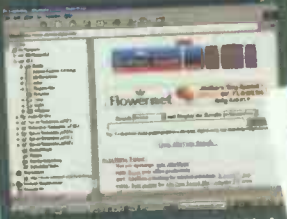
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BENCHTEST: ANTI-VIRUS SOFTWARE REVIEWS: COMPAQ 400, BORLAND C++ BUILDER, XIRCOM CBE-10/100BTX FEATURE: RECRUITING THE RIGHT NETWORK STAFF

LINKOR CBE-10/100BTX FEATURE: RECRUITING THE RIGHT NETWORK STAFF

PRODUCT INFO

Product: Network Solutions - monthly Network testing magazine.

In Brief: Packed with in-depth reviews and tests of the latest products and technologies, it offers straightforward, unbiased advice on buying and implementing Network systems. All reviews are based on stringent tests from VNU European Labs, Europe's most highly respected IT testing facilities.

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- CONTENT ★★★★★
- HANDS-ON ADVICE ★★★★★
- TECHNICAL DETAIL ★★★★★
- HONESTY ★★★★★
- Overall: ★★★★★

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ESS130	BJC600	Magenta x 2	£3.50	£4.11
ESS140	BJC600	Cyan	£3.50	£4.11
ESS150	BJC800	Black	£4.00	£4.70
ESS160	BJC800	Yellow	£4.00	£4.70
ESS170	BJC800	Magenta	£4.00	£4.70
ESS180	BJC800	Cyan	£4.00	£4.70
ESS190	BJC4000	Black	£4.00	£4.70
ESS200	BJC4000	Colour	£6.00	£7.05
ESS210	BJC70	Colour x 3	£10.00	£11.75
ESS220	BJC70	Black x 3	£8.00	£9.40
ESS230	BJ30	Black x 3	£10.00	£11.75

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ESS245	Colour - Black	£6.00	£7.05
ESS250	Colour - Colour	£10.00	£11.75
ESS255	Colour II - Black	£6.00	£7.05
ESS260	Colour II - Colour	£6.00	£7.05
ESS265	200/500 - Black	£5.00	£5.88
ESS270	200/500 - Colour	£16.00	£18.80

TONER CARTRIDGES

ESS275	HP/Canon Series II/III	£32.00	£37.60
ESS280	HP/II / I/IIIP	£39.00	£45.83
ESS285	HP/III/4 / 4SI	£59.00	£69.33
ESS290	HP Laserjet 4M/4	£55.00	£64.63
ESS295	HP Laserjet 4L	£42.00	£49.35
ESS300	IBM4019/29	£75.00	£88.13

TONER KITS

ESS305	Brother HL 630 / 660	£15.00	£17.63
ESS310	OKI OL 400/800	£15.00	£17.63
ESS315	OKI OL 400e	£12.00	£14.10

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DATALINE FAX ROLLS - PRICE PER PACK OF 6

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ESS370	210 x 15M x 12.7mm	£12	£14.10
ESS375	216 x 30M x 12.7mm	£12	£14.10
ESS380	210 x 100M x 25.4mm	£27	£31.73
ESS385	216 x 15M x 12.7mm	£12	£14.10
ESS390	216 x 50M x 25.4mm	£24	£28.20
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T907-P	DANMERE BACKER PARALLEL PORT	£59.00	£69.33
D2			
TS40-E	540MB EXT REMOVABLE DRIVE INCLUDES CABLE SOFTWARE AND 1 CARTRIDGE	£209.00	£245.58
TS40-M	540MB CARTRIDGE FOR ABOVE	£39.00	£45.83
EXABYTE TAPE PRODUCTS			
T78-E	EAGLE 3.2GB INTERNAL	£92.00	£108.10
FUJIFILM MEDIA			
AC81	1.44MB FLOPPY DISKS 10 PACK	£3.00	£3.53
CD165-F74	MIN CD RECORDABLE	£3.00	£3.53
T43-F	4MM DAT TAPE 90M	£5.00	£5.88
T45-F	4MM DAT TAPE 120M	£14.00	£16.45
T44-F	8MM DAT TAPE 112M	£5.00	£5.88
OP25	230MB 3.5" OPTICAL DISK	£18.00	£12.93
OLYMPUS EXTERNAL DRIVES - all with 1 Maxell Media			
T400	POWER M0 230-II - Parallel	£292.58	
T410	POWER M0 230-II - Mac & SCSI	£269.08	
OLYMPUS INTERNAL DRIVES - all with 1 Maxell Media			
T420	POWER M0 230 SCSI	£257.33	
T430	POWER M0 230 Kit & SCSI card	£253.00	£304.33
HEWLETT PACKARD HP COLORADO			
T601	T3000I INTERNAL 3.2GB	£109.00	£128.08
T500-I	INTERNAL 5GB IDE	£172.00	£149.23
T500-E	EXTERNAL 5GB PARALLEL PORT	£159.00	£186.83
T610	T4000S INTERNAL 8GB	£223.00	£262.03
T615	T4000S INTERNAL 8GB	£285.00	£334.88
T620	T41 8GB INTERNAL STREAMER	£245.00	£287.87
HP EXTENDED WARRANTIES			
TSP10	SUPPORT PACK FOR T41	£40.00	£47.00
TSP20	SUPPORT PACK FOR 2000/5000/DAT8	£47.00	£52.23
TSP30	SUPPORT PACK FOR DLT30	£140.00	£164.50
TSP40	SUPPORT PACK FOR DLT 40	£192.00	£225.60
HP SURESTORE DAT PRODUCTS			
T60-5	HP SURESTORE 2000I	£439.00	£515.83
T61-5	HP SURESTORE 2000E	£523.00	£614.53
T62-5	HP SURESTORE 5000I	£499.00	£574.58
T63-5	HP SURESTORE 5000E	£549.00	£645.08
T64-5	HP SURESTORE DAT 8i	£675.00	£722.63
T65-5	HP SURESTORE DAT 8e	£669.00	£786.08
T241	HP SURESTORE DAT 24i	£235.00	£294.13
T24E	HP SURESTORE DAT 24e	£899.00	£1056.33
DLT30	HP SURESTORE DLT30e 15/30GB	£1799.00	£2113.83
DLT40	HP SURESTORE DLT40e 20/40GB	£2850.00	£3325.25
DLT70	HP SURESTORE DLT70e 70GB	£4399.00	£5168.83

IOMEGA ZIP PRODUCTS			
T70	PARALLEL PORT ZIP DRIVE (+ 1 MEDIA)	£86.00	£101.05
T71	SCSI ZIP DRIVE (+ 1 MEDIA)	£89.00	£104.58
T71-I	INTERNAL SCSI ZIP DRIVE	£89.00	£104.58
T700	INTERNAL IDE ZIP DRIVE	£286.00	£341.05
T70-P	ZIP PLUS	£149.00	£175.08
T76	ZIP ZOOM CARD	£27.00	£31.73
T72	ZIP MEDIA SINGLE	£9.00	£10.58
T72-6	ZIP MEDIA 6 PACK	£48.00	£56.40
OP35-3	JAZ DISK 3 PACK	£89.00	£104.58
IOMEGA JAZ PRODUCTS			
OP26	JAZ INTERNAL 1GB	£179.00	£210.33
OP30	JAZ EXTERNAL 1GB	£231.00	£271.43
TACT10	JAZ TRAVELLER SCSI TO P/P Converter	£38.00	£44.65
OP35	JAZ DISK SINGLE	£57.00	£66.98
IOMEGA DITTO PRODUCTS			
T85	DITTO 800MB TR1 EXT PARALLEL PORT	£79.00	£92.83
DM10	DITTO MAX 7GB - INT	£99.00	£116.33
DM20	DITTO MAX 7GB - EXT	£129.00	£151.58
DM30	DITTO MAX PRO 10Gb - INT	£189.00	£222.08
DM40	DITTO MAX PRO 10Gb - EXT	£189.00	£222.08
DC10	DITTO MAX 3GB MEDIA	£15.00	£17.63
TD20	DITTO MAX 7GB MEDIA	£18.00	£21.15
DC30	DITTO MAX 10GB MEDIA	£22.00	£25.85
T200-I	2GB DITTO INTERNAL	£58.00	£69.15
T200-E	2GB DITTO EXTERNAL	£88.00	£103.40
T205	2GB MEDIA FOR T200-I & T200-E	£13.00	£15.28
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NOMAI 750.c			
TN130	750Mb Parallel Port	£219.00	£257.33
TN140	750Mb Ext. SCSI	£185.00	£217.38
TN150	750Mb Ext. SCSI & Card	£235.00	£276.13
TN160	750Mb Int. SCSI	£199.00	£186.83
TN170	750Mb Int. SCSI & Card	£219.00	£257.33
TN180	750Mb Media	£39.00	£45.83
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PD220	INT. PD IDE DRIVE KIT (6X)	£189.00	£222.08
PD225	INT. PD IDE DRIVE KIT (8X) LFI196AB	£199.00	£233.83
PD330	EXT. PD DRIVE KIT LFI500EPB	£249.00	£292.48
CD200	INTERNAL PD DRIVE KIT	£278.00	£292.58
CD210	INTERNAL PD KIT WITH SCSI ADAPTOR	£338.00	£385.40
CD215	EXTERNAL PD DRIVE KIT SCSI	£372.48	
CD205	650MB PD MEDIA	£22.33	
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T90	TAPESTOR 3200 INT TR3	£108.00	£124.55
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T62-8	TAPESTOR 8000 INT SCSI	£209.00	£245.57

T64-E	TAPESTOR 8000 INT IDE	£209.00	£245.57
T63-E	TAPESTOR 8000 EXT SCSI	£269.00	£316.07
T2400	SCORPION STD2400M 4GB	£349.00	£410.08
T2800	SCORPION STD2800M 8GB	£459.00	£539.33
SYQUEST			
TS150	SyletTM 1.5Gb Parallel Port - Ext	£278.00	£326.65
TS160	SyletTM 1.5Gb SCSI - Ext	£278.00	£326.65
TS170	SyletTM 1.5Gb SCSI - Int	£211.00	£247.93
TS180	SyletTM 1.5Gb EIDE - Int	£211.00	£247.93
TS100	EZFlyerTM 230Mb Parallel Port - Ext	£115.00	£135.13
TS110	EZFlyerTM 230Mb SCSI - Ext	£115.00	£135.13
TS120	EZFlyerTM 230Mb EIDE - Int	£115.00	£135.13
SYQUEST - MEDIA			
TS190	SyletTM 1.5Gb Cartridge	£78.00	£91.65
TS200	SyletTM 1.5Gb Cartridge - 3 Pack	£189.00	£222.08
TS130	EZFlyer 230Mb Cartridge	£17.00	£19.98
TS140	EZFlyer 230Mb Cartridge - 5 Pack	£76.00	£89.30
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T46	TR1	£17.00	£19.98
T48	TR3	£24.00	£28.20
T48-4	TR4	£27.00	£31.72
T46-E	VERBATIM TR1 EXTRA 1GB CAP	£19.00	£22.33
T48-E	VERBATIM TR3 EXTRA 4.4GB CAP	£26.00	£30.55
T43-V	VERBATIM 4MM 90MTR DAT TAPE	£5.00	£5.88
T49	QIC3080 4GB	£19.00	£22.33
T40	FORMATTED DC2120	£7.00	£8.23
T41	DC2120XL 350MB	£11.00	£12.93
T42	QIC WIDE 420MB	£12.00	£14.10
T45	MC3000XL 700MB	£15.00	£17.63
DLT10	DLT 15/30GB MEDIA	£4.00	£4.70
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TDL23	DDS-3 CARTRIDGE	£99.00	£116.33
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TN140	750Mb Ext. SCSI	£185.00	£217.38
TN150	750Mb Ext. SCSI & Card	£235.00	£276.13
TN160	750Mb Int. SCSI	£159.00	£186.83
TN170	750Mb Int. SCSI & Card	£219.00	£257.33
TN180	750Mb Media	£39.00	£45.83



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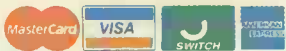
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TEX20	EAGLE NS-8 SCSI 8GB TAPE DRIVE	£279.00	£327.83
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TEX50	EXTERNAL NEST FOR IDE DEVICES	£95.00	£111.63
IDE NEST READY DRIVES	IDE NEST READY TR-4 TAPE DRIVE	£199.00	£233.83
TEX60	IDE NEST READY ZIP DRIVE	£129.00	£151.58
TEX90	IDE NEST READY LS120 DRIVE	£929.00	£1151.58
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BC804	1.5m Yellow	£2.50	£2.94
BC805	3m Black	£3.50	£4.11
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BC807	3m Green	£3.50	£4.11
BC808	3m Red	£3.50	£4.11
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BC812	3m Blue	£3.50	£4.11
BC813	3m Green	£3.50	£4.11
BC814	3m Red	£3.50	£4.11
BC815	3m Yellow	£3.50	£4.11
BC816	3m White	£3.50	£4.11
BC817	7.6m Black	£7.50	£8.81
BC818	7.6m Blue	£7.50	£8.81
BC819	7.6m Green	£7.50	£8.81
BC820	7.6m Red	£7.50	£8.81
BC821	7.6m Yellow	£7.50	£8.81
BC822	7.6m White	£7.50	£8.81
BC823	15m Black	£12.00	£14.10
BC824	15m Blue	£12.00	£14.10
BC825	15m Green	£12.00	£14.10
BC826	15m Red	£12.00	£14.10
BC827	15m Yellow	£12.00	£14.10
BC828	30m Black	£24.00	£28.20
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BC834	30m Black	£24.00	£28.20

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- Full retail kit includes software, screws, manual, warranty card and cables
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 - Large and secure file archiving
 - Data distribution
 - Internet downloading

PD225-IDE PD Drive

£199.00

£233.83



Cases

Code	Product	ex VAT	inc VAT
CS706	MINI TOWER WITH SEASONIC PSU	£49.00	£57.58
CS707	MIDI TOWER WITH SEASONIC PSU	£49.00	£57.58
CS708	DESKTOP WITH SEASONIC PSU	£49.00	£57.58
CS709	FULL TOWER WITH SEASONIC PSU	£75.00	£88.13
CS710	MIDI TOWER WITH SEASONIC PSU ATX	£69.00	£81.08
CS711	FULL TOWER WITH SEASONIC PSU ATX	£89.00	£104.58
CS712	MIDI TOWER WITH SEASONIC PSU ATX	£75.00	£88.13
CS713	DESKTOP WITH SEASONIC PSU ATX	£59.00	£69.33
SUMTEK			
CS800	MIDI TOWER WITH PSU	£55.00	£64.63
CS801	DESKTOP WITH PSU	£55.00	£64.63
CS802	FULL TOWER WITH PSU	£75.00	£88.13
CS803	FULL TOWER WITH PSU ATX	£85.00	£99.33
DENCO			
CS100	D603 MINI TOWER WITH PSU	£49.00	£57.58
CS105	D607 DESKTOP WITH PSU	£49.00	£57.58
CS110	D602 MIDI TOWER WITH PSU	£65.00	£76.38
CS600	D707 DESKTOP WITH PSU	£45.00	£52.88
CS601	D702 MIDI TOWER WITH PSU	£55.00	£64.63
CS500	D803 MINI TOWER WITH PSU	£45.00	£52.88
CS501	D807 DESKTOP WITH PSU	£45.00	£52.88
MEDIAFORCE			
CS5	MINI TOWER WITH PSU	£45.00	£41.13
CS10	DESKTOP WITH PSU	£35.00	£41.13
CS15	MIDI TOWER WITH PSU	£35.00	£32.83
CS16	FULL TOWER WITH PSU	£39.00	£69.33
CS17	ATX MIDI TOWER WITH PSU	£65.00	£76.38
CS18	ATX DESK TOP WITH PSU	£59.00	£69.33
POWER SUPPLIES			
CS02	200W AT PSU	£15.00	£17.63
CS02/230230W AT PSU		£20.00	£23.50
CS02/ATX30W ATX PSU		£25.00	£29.38



SAME WORKING DAY DESPATCH ON ALL STOCK ITEMS

Cables

- Belkin

Code	Product	ex VAT	inc VAT
EXTERNAL SCSI CABLES - SCSI II			
BC30	SINGLE DRIVE 30CM	£3.00	£4.70
BC30	60 SINGLE DRIVE 60CM	£5.00	£5.68
BC40	2 DRIVES 58CM	£6.00	£7.64
SCSI III			
BC60	SINGLE DRIVE 30CM	£21.00	£24.66
BC70	SINGLE DRIVE 60CM	£24.00	£28.20
BC50	2 DRIVE 90CM	£32.00	£37.60
BC80	3 DRIVE 90CM	£45.00	£53.43
BC90	4 DRIVE 100CM	£59.00	£69.33
BC100	SCSI III/SCSI I ADAPTOR MDB68M/50M	£27.00	£31.73
BC110	SCSI III/SCSI I ADAPTOR MDB68F/50F	£23.00	£27.83
EXTERNAL SCSI CABLES AND SCSI TERMINATORS - SCSI I			
BC115	B25M/CENT 50M 1.8M	£10.00	£11.75
BC120	D825M/CENT 50M 1.8M	£12.00	£14.10
BC130	CENT 50M/CENT 50M 90CM	£12.00	£11.75
BC125	CENT 50M/CENT 50M 1.8M	£13.00	£15.28
BC170	TERMINATOR MICRO DB50M 50M PASSIVE	£7.00	£8.33
BC140	TERMINATOR SINGLE CENT 50M ACTIVE	£12.00	£14.10
BC145	TERMINATOR IN LINE CENT 50M/CENT 50M PASSIVE	£12.00	£14.10
BC150	TERM. IN LINE CENT 50M/CENT 50F ACTIVE	£12.00	£23.50
SCSI II			
BC155	MICRO DB50M/CENT 50M 1.2M	£19.00	£22.33
BC160	MICRO DB50M/CENT 50M 1.8M	£27.00	£31.73
BC165	MICRO DB50M/CENT 50F ADAPTOR	£15.00	£17.63
BC170	MICRO DB50M/MICRO DB50M 1.2M	£23.00	£27.83
BC175	MICRO DB50M/MICRO DB50M 1.8M	£27.00	£31.73
BC180	MICRO DB50M/DB25M 1.2M	£25.00	£29.38
BC185	MICRO DB50M/DB25M 1.8M	£32.00	£37.60
BC190	TERM. MICRO DB50M SINGLE END PASSIVE	£18.00	£18.80
BC195	TERMINATOR MICRO DB50M SINGLE END ACTIVE	£19.00	£22.33
SCSI III			
BC200	SCSI II/SCSI III HDB68M/MICRO DB50M	£35.00	£41.13
BC205	HDB68M/CENT 50M 1.2M	£35.00	£41.13
BC210	HDB68M/CENT 50M 1.8M	£38.00	£44.65
BC215	DB25M/HDB68M 1.2M	£59.00	£69.33
BC220	TERM. MICRO DB68M SINGLE ENDED ACTIVE	£49.00	£57.58
HIGH QUALITY PRINTER CABLES - ASSEMBLED			
BC300	ASSEMBLED 1.8M BI-DIRECTIONAL	£3.50	£4.11
BC305	ASSEMBLED 3M BI-DIRECTIONAL	£4.50	£5.29
HIGH QUALITY PRINTER CABLES - MOULDED			
BC310	IBM NOTEBOOK PARALLEL 60CM	£6.50	£7.64
BC315	PREMIUM 1.8M BI-DIRECTIONAL	£7.50	£8.81
BC320	PREMIUM 3M BI-DIRECTIONAL	£8.50	£9.98
BC325	PREMIUM 4.5M BI-DIRECTIONAL	£9.50	£11.16
BC330	PREMIUM 6M BI-DIRECTIONAL	£10.50	£12.34
BC340	PREMIUM 7.5M BI-DIRECTIONAL	£11.50	£13.51
BC345	IEEE 1284 1.8M BI-DIRECTIONAL	£12.50	£14.68
BC350	IEEE 1284 3M BI-DIRECTIONAL	£14.50	£17.04
HIGH QUALITY SERIAL PRINTER AND MODEM CABLES			
BC370	IBM PC/LASERJET CABLE 3M	£8.50	£9.98
BC375	IBM AT/LASERJET CABLE 3M	£8.50	£9.98
BC380	IBM PC/HAYES MODEM CABLE 1.8M	£8.50	£9.98
BC385	IBM PC/HAYES MODEM CABLE 3M	£8.50	£9.98
BC390	IBM AT SERIAL ADAPTOR DB9F/DB25M	£4.50	£5.29
BC395	IBM AT SERIAL ADAPTOR DB9F/DB25M	£4.50	£5.29
BC400	IBM AT/HAYES MODEM CABLE 1.8M	£6.00	£7.05
BC410	IBM AT/HAYES MODEM CABLE 3M	£6.00	£7.05
BC420	NULL MODEM ADAPTOR DB25 M/F	£5.00	£5.88
BC425	INTERLINK/LAPLINK UNIVERSAL SERIAL CABLE 3M/6M	£9.40	£11.16
MONITOR SIGNAL, POWER AND KEYBOARD CABLES			
BC430	LAPTOP KEYBOARD/MOUSE SPLITTER CABLE 6 PIN MINI DIN MALE/2 X 6 PIN MINI DIN FEMALE	£9.00	£10.58
BC435	J/STICK 7 X 1.8M DB15M/2 X DB15 F	£7.50	£8.81
BC440			

CD PRODUCTS

CD-Roms

IDE CD ROMS			
CD918 HITACHI (multi-read)	16 MAX	£55	£64.63
CD926 HITACHI (multi-read)	24 MAX	£65	£76.38
CD75 MITSUMI	4X	£30	£35.25
CD921 MITSUMI	16X	£49	£57.58
CD927 MITSUMI	24X	£60	£70.50
CD908 PHILIPS RETAIL KIT	8X	£40	£47.00
CD924 PANASONIC	24X	£59	£69.33
CD916 GOLDSTAR RETAIL KIT	16X	£50	£58.75
CD923 GOLDSTAR RETAIL KIT	24X	£60	£70.50
CD910 SAMSUNG	12X	£46	£54.05
CD922 SAMSUNG	20X	£55	£64.63
CD1200 CREATIVE LABS KIT INFRA 1800™ 12X WITH ENCARTA97 & ACTUA SOCCER	12X	£83	£97.53
CD1211 C/LABS WITH ACTUA SOCCER	24X	£65	£76.38
CD909 WEARNES RETAIL KIT	12X	£55	£64.63
CD917 WEARNES RETAIL KIT	16X	£65	£76.38
CD925 PIONEER	24X	£59	£69.33
CD916 TEAC 6 DISC MULTIPLAY	8X	£109	£128.08
CD104 DYSPAN RETAIL KIT	12X	£45	£52.88
CD108 DYSPAN RETAIL KIT (multi-read)	20X	£60	£70.50
CD109 DYSPAN RETAIL KIT (multi-read)	24X	£65	£76.38
CD111 DYSPAN RETAIL KIT (multi-read)	32X	£99	£116.33
SCSI CD ROMS			
CD20-5 PLEKTOR SCSI	20X	£145	£170.38
CD810-5 PANASONIC SCSI	8X	£65	£81.08
CD924-5 PANASONIC SCSI	24X	£99	£116.33

CD-PCMCIA

EXTERNAL AMACOM EZCD CD ROMS			
CD400 AMACOM 4X PCMCIA	.....	£135	£158.63
CD402 AMACOM 8X PCMCIA	.....	£155	£182.13
CD408 AMACOM 16X PCMCIA	.....	£175	£205.63
AMACOM EZCD PLUS WITH AUDIO			
CD407 AMACOM 8X PCMCIA	.....	£175	£205.63
CD409 AMACOM 16X PCMCIA	.....	£215	£252.63
AMACOM EZCD SOUND WITH BUILT IN SOUND CARD			
CD303 AMACOM 4X	.....	£155	£182.13
CD305 AMACOM 8X	.....	£175	£205.63
CD309 AMACOM 16X	.....	£190	£223.25
EXTERNAL AMACOM EZCD CD ROMS			
CD300 AMACOM 4X PARALLEL	.....	£115	£135.13
CD302 AMACOM 8X PARALLEL	.....	£135	£158.63
CD308 AMACOM 16X PARALLEL	.....	£155	£182.13
CD95 MICROSOLUTIONS 4X	.....	£130	£152.75

CD-Writers

HEWLETT PACKARD CDR-700 SureStore 70100i-CD-RW-2X2X6-INT	£249	£292.58
CDR-710 SureStore 70100e-CD-RW-2X2X6-EXT	£299	£351.33
PLASMON		
CD169 CDR4240 2x4 EXT. BARE DRIVE	£449	£527.58
CD170 CDR4400 4x4 INT. BARE DRIVE	£722	£862.63
CD173 CDR4240 2x4 EXT. FULL KIT	£399	£468.83

RICOH CD165-R RICOH CD Media

£2.00 £2.35 inc

THE WORLD'S VERY FIRST RE-WRITABLE CDROM WRITER.



£299.00 CDW-10 Re-usable CDs

CDR-50 £351.33 inc. INTERNAL rewritable CD Including software.

£339.00 £14

CDR-60 £398.33 inc. MP6201S Int SCSI drive with software, SCSI card, 1 piece CD-RW media & 5 pieces CD-R media

HP SURESTORE CD-WRITER PLUS 7100



- CDR-710 External £351.33
- FEATURES - all packs include**
- Everything needed to create CDs is in the box
 - One device - no need for Zip, CD ROM, 2nd HDD etc.
 - Supports CD-UDF for Drag & Drop
 - 2x Write & 6x Read
 - 1 Year, 24Hr Express Exchange Warranty

CDR-700 Internal £249 £292.58

SONY CDR CD-M1 MEDIA £1.49 +vat SPECIAL OFFER

YAMAHA CDR-110	CDR400TX 4x6 EXT. BARE DRIVE	£305	£358.38
CDR-400	CDR400T-VK 4x6 INT. DRIVE VALUE KIT	£319	£374.83
CDR-410	CDR400T-VK 4x6 EXT. DRIVE VALUE KIT	£339	£393.33
CDR-420	CDR200T-VK 2x6 INT. DRIVE VALUE KIT	£270	£245.58
CDR-430	CDR200T-VK 2x6 EXT. DRIVE VALUE KIT	£244	£292.58
ALL ABOVE VALUE KITS COME WITH WinON CD Pro, Packet CD UDF 5j/w, audio & ide cable, 2 x Yamaha e.d.s. manual & screws.			
CDR-440	4x2x6 INTERNAL IDE CD-RW VALUE KIT	£339	£398.33
CD50	Yamaha CD Media	£2	£2.35
RICOH			
CDR-50	REWRITABLE CD CUTTER & S/W	£299	£351.33
CDR-60	AS ABOVE & SCSI CARD + 5 CD/R AND 1 CD/RW MEDIA	£339	£398.33
	RICOH RE-WRITABLE CD MEDIA	£14	£16.45
CDW-10 MITSUMI			
CDR-100	2x6 INTERNAL IDE (inc. Software)	£199	£233.83
NOMAI			
CDR-220	CD-RW-Internal Drive IDE + S/Ware	£266	£316.08
CDR-225	CD-RW-Internal Drive + S/Ware	£309	£363.08
CDR-200	CD-RW-External Parallel Port	£359	£421.83
CDR-205	CD-RW EXT BARE DRIVE & S/W	£339	£398.33
CDR-210	CD-RW-Ext SCSI & Card & S/W	£355	£421.83
CD165-N	NOMAI CD MEDIA	£2	£2.35
CDW-10	NOMAI RE-WRITABLE CD MEDIA	£14	£16.45
TRAXDATA All kits come with software & 1 CDR. Kits which include a SCSI card come with software & 2 CDR's			
CDR300	CDR2604 2x6 Int kit with SCSI card	£245	£287.88
CDR310	CDR2604EL 2x6 Int kit	£213	£250.28
CDR320	CDR2604 2x6 Int kit with SCSI card	£289	£339.58
CDR330	CDR2604P 2x6 Ext parallel port kit	£289	£339.58
CDR340	CDR4604 4x6 Int kit with SCSI card	£329	£386.58
CDR350	CDR4604EL 4x6 Int kit	£299	£351.33
CDR360	CDR2804 2x8 Int IDE drive+software	£245	£287.88
CDR370	CDRW2260EL 2x6 CD/RW Int+software	£329	£386.58
CDR380	PressIT Label Kit	£7	£19.88
CDR390	Traxdata CD-R 74 min	£2	£2.35

NOMAI NOMAI 690.RW CD RECORDABLE/REWRITABLE COMPACT DISK DRIVE

3 DRIVES IN ONE
6X CD-ROM READER
2X CD-RECORDER
2X CD-REWRITABLE DRIVE



CDW-20 NOMAI CDRW Media **£14.00** £16.45 inc

Code	Product	ex VAT	inc VAT
CDR-220	CD-RW-Int Drive IDE+S/Ware	£266.00	£316.08
CDR-225	CD-RW-Int SCSI Drive+S/Ware	£309.00	£363.08
CDR-200	CD-RW-External Parallel Port	£359.00	£421.83
CDR-205	CD-RW-Ext Bare Drive+S/W	£339.00	£398.33
CDR-210	CD-RW-Ext SCSI+Card + S/W	£359.00	£421.83

TRAXDATA CDR310 2604EL 2X 6X INTERNAL CD-R KIT

£213 £250.28
CDR300 As above with SCSI Card **£245** £287.88

CDR340 4604 4X 6X INT CD-R KIT WITH SCSI **£329** £386.58

CDR350 4604EL 4X 6X INTERNAL CD-R KIT **£299** £351.33

CDR370 4600EL 4X 2X 6X INTERNAL CD-RW KIT **£369** £433.58



CDR709 CD STORAGE WALLET **£7** £8.23

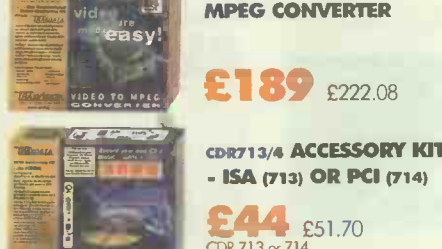
CDR330 2604P 2X 6X EXTERNAL PARALLEL PORT CD-R KIT

£289 £339.58

CDR711 JUST AUDIO™ RECORDING STUDIO **£39** £45.83

CDR712 VIDEO TO MPEG CONVERTER **£189** £222.08

CDR713/4 ACCESSORY KIT - ISA (713) OR PCI (714) **£44** £51.70 CDR 713 or 714



YAMAHA THE ONLY 4X RECORDING CD RE-WRITABLE IN THE WORLD

CRW4001 The Yamaha CRW4001 sets the new standard for professional CD-ReWritables. Only the CRW4001 records at 4x, leaving all other CD-ReWritables for dead. And only the CRW4001 boasts legendary Yamaha reliability.



120 SALES LINES OPEN 8am-8pm MONDAY to FRIDAY, 9am-6pm SATURDAY and SUNDAY

CD Products





CPUs - Overdrives - Digital Cameras - Digitisers - Faxes

CPUs and Overdrives

CYRIX			
C175	Cyrix M2 166+	£69.00	£81.08
C180	Cyrix M2 200+	£99.00	£116.33
C185	Cyrix M2 233+	£209.00	£245.58
INTEL			
C161	P150+/120MHz	£35.00	£41.13
C162	P166+/110MHz	£45.00	£52.88
C163	P200+/150MHz	£59.00	£69.33
C166-1	166MMX	£75.00	£88.13
C200-1	200MMX	£100.00	£117.50
C233-1	233MMX	£169.00	£198.58
INTEL PENTIUM PRO CPUs -			
C205	Intel Pentium Pro 166 (512K)	£279.00	£327.83
C210	Intel Pentium Pro 180 (256K)	£279.00	£327.83
C200	Intel Pentium Pro 200 (256K)	£325.00	£381.88
C215	Intel Pentium Pro 200 (512K)	£689.00	£809.58
C220	Intel Pentium Pro 200 (1Mb)	£1799**	£2113**
INTEL PENTIUM II CPUs -			
C233-2	Intel Pentium II 233MHz	£279.00	£327.83
C266-2	Intel Pentium II 266MHz	£369.00	£433.58
C300-2	Intel Pentium II 300MHz	£499.00	£586.33

GIGABYTE TX CHIPSET



M92-TX
£95.00
ex vat

C59	K5X86-PR133	£58.00	£68.15
C62	K5X86-PR166	£69.00	£81.08



C63	K6X86-PR166	£75.00	£88.13
C64	K6X86-PR200	£119.00	£139.83
C65	K6X86-PR233	£179.00	£210.33

AMD K6 Fantastic Value Bundle Offers

GigaByte TX Motherboard	£95 + VAT
Approved Heat Sink & Fan	£8 + VAT
K6-PR166 MMX™ CPU	£75 + VAT
Normal Price	£178 + VAT
OFFER PRICE	£168 + VAT
GigaByte TX Motherboard	£95 + VAT
Approved Heat Sink & Fan	£9 + VAT
K6-PR200 MMX™ CPU	£119 + VAT
Normal Price	£223 + VAT
OFFER PRICE	£213 + VAT
GigaByte TX Motherboard	£95 + VAT
Approved Heat Sink & Fan	£15 + VAT
K6-PR233 MMX™ CPU	£179 + VAT
Normal Price	£289 + VAT
OFFER PRICE	£279 + VAT

THE MOST COST EFFECTIVE WAY TO GET MAXIMUM POWER POWERLEAP

- Upgrade Module and Processor Included
- No need to buy a new Motherboard
- No Complicated reconfiguration
- Massive Power increase ■ 5 Year Warranty
- 16K internal cache ■ PnP - no software required

486 SX/DX system to **PowerLeap 586/133**

OD105 486SX/DX to 586/133Mhz

a 586/133Mhz **£79.00** £92.83

Pentium 60/66 **PowerLeap P133**

OD105 60/66 to 133Mhz

system to a P133 **£119** £139.83

Digital Cameras

DC1	Casio QV-11	£209.00	£245.58
DC1-A	Casio QV-11 Power Adaptor	£12.00	£14.10
DC6	Casio QV-100	£289.00	£339.58
DC6-2	Casio QV-200	£289.00	£339.58
DC9	Casio QV-300	£349.00	£410.08
DC43	Casio QV-70	£229.00	£269.08
DC44	Casio QV-700	£375.00	£440.63
DC2	Kodak DC20	£119.00	£139.83
DC8	Kodak DC25	£169.00	£198.58
DC4	Kodak DC50	£269.00	£316.08
DC19	Kodak DC120	£489.00	£534.58
DC40	Kodak DC210	£589.00	£692.08
DC5	Kodak Power Adaptor for DC50	£55.00	£64.63
DC11	4Mb Card for DC50	£109.00	£128.08
DC12	2Mb Card / Adaptor for DC25	£99.00	£116.33
DC7	Nikon Coolpix	£349.00	£410.08

DC10	Fuji D5-7	£359.00	£421.83
DC13	Sanyo Image PC	£299.00	£351.33
DC20	Sanyo DigiCAM	£445.00	£522.88
DC40	Sanyo DigiCam XGA	£599.00	£703.83
DC17	Epson Photo PC 500	£271.00	£318.43
DC41	Epson Photo PC 600	£529.00	£621.58
DC25	LCD Screen for Epson PhotoPC 500	£140.00	£164.50
DC18	Ricoh RCD-2L	£559.00	£656.83
DC21	Ricoh RCD-2E	£429.00	£504.08
DC30	Ricoh RD300	£299.00	£351.33
DC24	Olympus C-820L	£699.00	£821.33
DC25	Olympus C-410L	£459.00	£539.33
DC42	Olympus C-1400L	£999.00	£1173.83
VC15	Viewmate Conferencing Camera	£99.00	£116.33

OLYMPUS

DC25 410L **£459.00** £539.33

DC24 820L **£699.00** £821.33

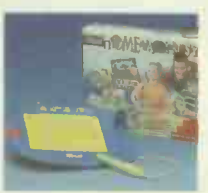
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DC20 DigiCAM **£399.00** £468.83

Digitisers & Faxes

WACKY TAB DT6 £45.00 £52.88

TRUST			
DT10	12 x 12 TABLET	£75	£88.13
DT5	18 x 12 TABLET	£45	£52.88
DT6	Wacky Kids Tablet	£45	£52.88
WACOM			
DT11	A5 Graphics Tablet	£199	£233.83
DT12	A4 Graphics Tablet	£299	£351.33
DT13	A3 Graphics Tablet	£479	£562.83
DT14	A2 Graphics Tablet	£1259	£1479.33
DT15	Art Pad 2 & Dabler	£99	£116.33



SANYO **hp** **HEWLETT PACKARD** **brother**

ALL-IN-ONE

Brother	FAX51C	£169.00	£198.58
FX5	FAX520DT	£211.00	£247.93
FX10	FAX102C	£297.00	£348.33
FX20	FAX103C	£339.00	£398.33
FX25	FAX8000P	£594.00	£697.95
FX30	MFC-9000	£662.00	£777.85
SONY			
FX35	SFX-115	£165.00	£193.88
FX40	SFX-215	£209.00	£245.58
FX45	SFX-P500	£399.00	£468.83

PR442 OfficeJet 590 **£341.00** £400.68

PR441 OfficeJet Pro 1150C **£491.00** £400.68

SAME WORKING DAY DESPATCH ON ALL STOCK ITEMS



Hard Drives

HARD DRIVES

AMACOM - FLIP DISK			
AD280	FLIP DISK	2.8GB	£348.00 £408.90
AD420	FLIP DISK	4.2GB	£438.00 £514.65
AD640	FLIP DISK	6.4GB	£Call £Call
AMACOM - 3.5" EXT PARALLEL PORT			
ED40-A	EZ DISK	1.2GB	£259.00 £304.32
ED43-A	EZ DISK	1.6GB	£285.00 £334.87
ED44-A	EZ DISK	2GB	£325.00 £381.87
AMACOM - 2.5" EXT PARALLEL PORT			
ED40-AD	DISKLUITE	1.2GB	£299.00 £351.32
ED140-AD	DISKLUITE	1.4GB	£329.00 £386.57
TOSHIBA - 2.5" IDE HARD DRIVES			
NO47-T	Toshiba	1.7GB	£189.00 £222.08
NO48-T	Toshiba	2.1GB	£209.00 £245.58
NO300-T	Toshiba	3.0GB	£339.00 £398.33
FUJITSU - 3.5" IDE HARD DRIVES			
HD43-F	1.7Gb LIMITED STOCK		£79.00 £92.83
HD56-F	2.5Gb LIMITED STOCK		£105.00 £123.38
HD170-F	MPA3017U	2.6GB	£93.00 £109.28
HD260-F	MPA3026U	2.7GB	£115.00 £135.13
HD350-F	MPA3035UD	3.5GB	£129.00 £151.58
HD430-F	MPA3043	4.3GB	£159.00 £186.83
HD520-F	MPA3052U	5.2GB	£175.00 £205.63
SEAGATE - 3.5" IDE HARD DRIVES			
HD40-SS	ST31277A	1.2GB	£79.00 £92.838
HD43-SS	ST31720A	1.7GB	£85.00 £99.88
HD44-SS	ST32122A	2.1GB	£105.00 £123.38
HD56-SI	ST32531A	2.5GB	£112.00 £131.60
HD320-SS	ST33232A	3.2GB	£129.00 £151.58
HD430-SS	ST34342A	4.3GB	£169.00 £198.58
HD640-SS	ST36450A	6.4GB	£209.00 £245.58
HD640-SU	ST36451A	6.4GB	£219.00 £257.33
MICROPOLIS - 3.5" MUSTANG IDE HARD DRIVES			
HD250-M	M4525	2.5GB	£138.00 £162.15
HD400-M	M4540	4.0GB	£209.00 £245.58
HD500-M	M4550	5.0GB	£249.00 £292.58
SAMSUNG 3.5" IDE HARD DRIVES			
HD120-SA	312016A	1.2GB	£89.00 £104.58
HD160-SA	31601A	1.6GB	£95.00 £111.63
HD211-SA	321620A	2.1GB	£104.00 £122.22
HD251-SA	32550A	2.5GB	£112.00 £131.60
HD170-SA	VG31702A	1.7GB	£99.00 £116.33
HD340-SA	VG33402A	3.4GB	£129.00 £151.58
HD420-SA	VG34202A	4.2GB	£155.00 £182.13
HD510-SA	VG35102A	5.1GB	£169.00 £198.58
MAXTOR IDE BARE DRIVES			
HD41-M	MAXTOR	1.3GB	£79.00 £92.83
HD121-DM	Diamond Max	1.2GB	£81.00 £95.18
HD170-DM	Diamond Max	1.7GB	£90.00 £105.75
HD210-DM	Diamond Max	2.1GB	£108.00 £126.90
HD251-DM	Diamond Max	2.5GB	£112.00 £131.60
HD320-DM	Diamond Max	3.2GB	£125.00 £146.88
HD430-DM	Diamond Max	4.3GB	£157.00 £184.48
HD510-DM	Diamond Max	5.1GB	£185.00 £217.38
HD520-DM	Diamond Max	5.2GB	£189.00 £222.08
HD640-DM	Diamond Max	6.4GB	£207.00 £243.23

HD700-DM	Diamond Max	7.0GB	£219.00	£257.33
HD840-DM	Diamond Max	8.4GB	£259.00	£304.33
MAXTOR IDE RETAIL KITS				
HD43-RM	MAXTOR	1.6GB	£129.00	£151.58
HD44-RM	MAXTOR	2GB	£149.00	£175.08
WESTERN DIGITAL CAVIAR BARE DRIVES				
HD40-W	AC21200	1.2GB	£99.00	£116.33
HD43-W	AC21600	1.6GB	£105.00	£123.38
HD44-W	AC22100	2.1GB	£113.00	£132.78
HD56-W	AC32500	2.5GB	£119.00	£139.83
HD300-W	AC33100	3.1GB	£129.00	£151.58
HD400-W	AC34000	4.0GB	£189.00	£222.08
HD210-W	AC12100	2.1GB	£117.00	£137.48
HD320-W	AC23200	3.2GB	£139.00	£163.33
HD430-W	AC24300	4.3GB	£199.00	£233.83
HD510-W	AC35100	5.1GB	£219.00	£257.33
HD640-W	AC36400	6.4GB	£219.00	£257.33
WESTERN DIGITAL IDE RETAIL KITS				
- Inc. Software, Mounting Rails, & Installation Guide				
HD300-RW	AC33100	3.0GB	£179.00	£210.33
HD400-RW	AC34000	4.0GB	£199.00	£233.83
QUANTUM IDE DRIVES - ALL DRIVES HAVE 3 YEARS WARRANTY				
HD44-Q	FIREBALL	2GB	£109.00	£128.08
HD50-Q	FIREBALL	3.8GB	£140.00	£164.50
HD56-8	SCIROCCO	2.5GB	£105.00	£123.38
QUANTUM FIREBALL ST. ULTRA ATA DRIVES SUPPORT DATA TRANSFERS OF 33MB/SEC				
HD160-ST	F/BALL ST	1.6GB	£89.00	£104.58
HD210-ST	F/BALL ST	2.1GB	£113.00	£132.78
HD320-ST	F/BALL ST	3.2GB	£129.00	£151.58
HD430-ST	F/BALL ST	4.3GB	£165.00	£193.88
HD640-ST	F/BALL ST	6.4GB	£205.00	£240.88
QUANTUM BIGFOOT CY 5.25" IDE DRIVES				
HD210-CY	CYCLONE	2.1GB	£99.00	£116.33
HD420-CY	CYCLONE	4.3GB	£129.00	£151.58
HD640-CY	CYCLONE	6.4GB	£189.00	£222.08
QUANTUM BIGFOOT 5.25" IDE DRIVES				
HD40-QF	QUANTUM	1.2GB	£83.00	£97.53
HD44-QF	QUANTUM	2.1GB	£95.00	£111.63
HD56-QF	QUANTUM	2.5GB	£105.00	£123.38
WESTERN DIGITAL - ENTERPRISE 3.5" SCSI HDD				
ALL DRIVES HAVE 512K CACHE				
HD210-W	E/PRISE	2.1GB U	£319.00	£374.83
HD210-WW	E/PRISE	2.1GB U/W	£319.00	£374.83
HD430-W	E/PRISE	4.3GB U	£497.00	£583.98
HD430-WW	E/PRISE	4.3GB U/W	£497.00	£583.98
IBM 3.5" HARD DRIVES				
HD40-I	IBM	1.2GB	£99.00	£116.33
HD430-I	DESKSTAR 5	4.3GB	£167.00	£196.22
HD640-I	DESKSTAR 5	6.4GB	£219.00	£257.33
SEAGATE SCSI HARD DRIVES				
HD45-S	SEAGATE	1.0GB	£125.00	£146.88
HD210-S	ST2160N	2.1GB U	£143.00	£168.03
MEDALIST PRO				
HD221-S	ST32272N	2.2GB U	£259.00	£304.33
HD222-S	ST32272W	2.2GB U	£279.00	£327.83
HD455-S	ST34572N	4.5GB U	£369.00	£433.58

HD456-S	ST34572W	4.5GB U/W	£405.00	£475.88
HD65-SBN	ST19171N	9.1GB	£619.00	£727.33
HD65-SBA	ST19171W	9.1GB U/W	£659.00	£774.33
HD460-S	ST34501N	4.5GB US	£499.00	£586.33
HD461-S	ST34501W	4.5GB UWI	£499.00	£586.33
HD900-S	ST19101N	9.1GB US	£859.00	£1009.33
HD900-SW	ST19101W	9.1GB U/W	£959.00	£1126.83
HD230-S	ST42345I	23GB USCSI	£1250.00	£1468.80
HD230-SW	ST42345IW	23GB U/WIDE	£1250.00	£1468.75
FUJITSU SCSI HARD DRIVES				
HD220-F	M29525 AV	2.2GB	£319.00	£374.83
HD220-FW	M29525 QV	2.2GB	£325.00	£381.88
HD440-F	M29545 AV	4.4GB	£439.00	£515.83
HD440-FW	M29545 QV	4.4GB	£509.00	£598.08
HD910-F	M29495 AV	9.1GB	£850.00	£998.75
HD910-FW	M29495 AVW	9.1GB	£869.00	£1021.08
MICROPOLIS SCSI - ALL 4345 / 3391 DRIVES ARE 512K 7.9MS				
HD60-MS	3243	4.3GB	£209.00	£245.58
HD450-MS	4743N	4.5GB USCSI	£249.00	£292.58
HD451-MS	4743W	4.5GB U/W	£269.00	£316.08
HD61-MS	4345N	4.55GBUSCSI	£349.00	£410.08
HD61-MSAV	4345AV	4.55GBUSCSI	£399.00	£468.83
HD61-MSW	4345W	4.55GBUW	£399.00	£468.83
HD60-MSWAV	4345WAV	4.55GBUW	£429.00	£504.08
HD61-MSWAV	4345WAV	4.55GBUW	£429.00	£504.08
HD66-MS	3391N5	9.1GB USCSI	£629.00	£739.08
HD66-MSAV	3391AV	9.1GB USCSI	£649.00	£762.58
HD66-MSW	3391W	9.1GB	£629.00	£739.08
HD66-MSWAV	3391WAV	9.1GBUW	£649.00	£762.58
QUANTUM SCSI 3.5" HARD DRIVES				
HD45-Q	FIREBALL	1GB	£125.00	£146.88
HD55-Q	FIREBALL	2.1GB	£145.00	£170.38
HD211-ST	FIREBALL ST U	2.1GB	£149.00	£175.08
HD321-ST	FIREBALL ST U	3.2GB	£185.00	£217.38
HD431-ST	FIREBALL ST U	4.3GB	£221.00	£259.68
HD641-ST	FIREBALL ST U	6.4GB	£315.00	£370.13
HD450-Q	ATLAS II	4.5GB	£449.00	£527.58
HD450-QW	ATLAS II WIDE	4.5GB	£449.00	£527.58
HD910-Q	ATLAS II	9.1GB	£659.00	£774.33
HD910-QW	ATLAS II WIDE	9.1GB	£665.00	£781.38
HD220Q	VIKING ULTRA	2.2GB U	£279.00	£327.83
HD220QW	VIKING U/WIDE	2.2GB	£299.00	£351.33
HD451-Q	VIKING ULTRA	4.5GB	£409.00	£480.58
HD451QW	VIKING U/WIDE	4.5GB	£429.00	£504.08
IBM SCSI 3.5" HARD DRIVES				
HD60-I	IBM USTAR ES	4.3GB	£239.00	£280.83
HD60-IW	IBM USTAR ES W	4.3GB	£249.00	£292.58
HD450-I	IBM U/STAR XP	4.5GB	£420.00	£493.50
HD450-IW	IBM U/STAR XP WIDE	4.5GB	£420.00	£493.50
HD910-I	IBM U/STAR 2XP	9.1GB	£629.00	£739.08
HD910-IW	IBM U/STAR 2XP WIDE	9.1GB	£649.00	£762.58

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J90	QUICKSHOT SPER WARRIOR THROTTLE	£11.95	£14.04
J95	QUICKSHOT SKYMASTER	£19.95	£23.44
J100	QUICKSHOT SQUADRON COMMANDER	£45.00	£52.88
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J115	LOGITECH WINGMAN	£23.00	£27.03
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Memory

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	K34	WIN 95 KEYBOARD	£9.00	£11.17
CHERRY	K15	CHERRY 6000 UK KEYBOARD	£17.00	£19.98
	K16	CHERRY 3000 UK KEYBOARD	£22.00	£25.85
ALPS	K11	ALPS WIN'95 KEYBOARD	£10.00	£11.75
	K2P52	ALPS P52 WIN'95 KEYBOARD	£15.00	£17.63
KEYTRONIC	K50	KEY TRONIC KT5105	£15.00	£17.63
	K20	KEY TRONIC KT2000 WIN 95	£20.00	£23.50
	K52	KEY TRONIC TRACKBALL	£50.00	£58.75
	K53	KEY TRONIC TOUCHPAD	£80.00	£94.00
BTC	K5	BTC 102 KEYBOARD	£8.00	£9.40
	K33	BTC WINDOWS 95 KEYBOARD	£10.00	£11.75
	K36	BTC WINDOWS 95 HIGH QUALITY	£12.00	£14.10
	K37	BTC WINDOWS 95 SPLIT ERGO	£22.00	£25.85
	K38	BTC WIRELESS KEYBOARD WIN 95	£29.00	£34.08
	K39	BTC WIN 95 MEMBRANE KEYBOARD	£9.00	£11.17
	K40	BTC ERGO 1 PIECE KEYBOARD	£15.00	£17.63
FUJITSU	K1P52	4725 P52 KEYBOARD	£25.00	£29.38
	K20	4870 CLICK KEYBOARD	£18.00	£21.15
	K25-95	4725 WIN 95 KEYBOARD	£25.00	£29.38
ERGONOMIC KEYBOARDS	K30	MICROSOFT NATURAL KEYBOARD	£49.00	£57.58
	K26	TRUST ERGONOMIC KEYBOARD	£22.00	£25.85
	K29	KEYTRONIC 3D ERGONOMIC DESIGN	£27.00	£31.73
	K28	MITSUMI ERGONOMIC 105 KEY	£19.00	£22.33

Mice

M110	M/FORCE2 BUTTON SERIAL	£4.00	£4.70
M12	MITSUMI HIGH QUALITY SERIAL	£7.00	£8.23
M15-M	MEDIAFORCE ERGO	£10.00	£11.75
M15-R	MICROSOFT ERGONOMIC	£29.00	£34.08
M160	MICROSOFT INTELLIMOUSE	£40.00	£47.00
M161	MICROSOFT INTELLIMOUSE TRACKBALL	£40.00	£47.00
M170	MICROSOFT HOME	£15.00	£17.63
M151	PRIMAX VENUS 3 BUTTON	£19.00	£22.33
M152	PRIMAX RAINBOW 3 BUTTON	£9.00	£10.58
M153	BETTEL MOUSE - WALNUT BURL	£8.00	£9.40
M154	BETTEL MOUSE - U.S.A. FLAG	£8.00	£9.40
M156	WHALE MOUSE - WALNUT BURL	£9.00	£10.58
M157	WHALE MOUSE - GREY	£9.00	£10.58
M175	DIGITAL EDGE 3 BUTTON MOUSE	£7.00	£8.23
M180	DIGITAL EDGE POINT MOUSE	£9.00	£10.58
M185	DIGITAL EDGE POINT MOUSE PS/2	£13.00	£15.28
M190	DIGITAL EDGE DOLPHIN MOUSE	£18.00	£21.15
M195	DIGITAL EDGE TRACK POINT	£25.00	£29.38
M165	TRUST AMI MOUSE COMBO DE LUX	£8.00	£9.99
M110	TRUST AMI MOUSE 97	£17.00	£19.99
M105	TRUST AMI MOUSE	£7.00	£8.22
M100	LOGITECH MOUSEMAN 96	£25.00	£29.38
M115	LOGITECH MOUSEMAN CORDLESS	£35.00	£41.13
M120	LOGITECH PILOT MOUSE	£15.00	£17.63
M125	TRACKMAN MARBLE	£45.00	£52.88
MA5	DISNEY MOUSE MAT WITH CALC.	£6.00	£7.05

- available in many varying designs

Need more memory?



Generally the golden rule in determining how much memory you require is to add the amounts of RAM needed to run all of the applications you'll want to have open at the same time.

Most systems today will come with at least 16Mb of RAM, though you will need to consider at least 32Mb for true Multi-Tasking and 64Mb for Desktop Publishing.

NEW LOWER PRICES

30-PIN MEMORY				EX.	INC.
ME5	1MB	30 Pin	3 chip	£5	£5.87
ME5-9	1MB	30 Pin	9 chip	£12	£14.10
ME10	4MB	30 Pin	3 chip	£15	£17.63
ME10-9	4MB	30 Pin	9 chip	£19	£22.33

72-PIN FAST PAGE MODE MEMORY						
ME15-604MB	1 X 32	72 Pin	60NS	£12	£14.10	
ME20-608MB	2 X 32	72 Pin	60NS	£19	£22.33	
ME25-6016MB	4 X 32	72 Pin	60NS	£35	£41.13	
ME30	32MB	8 X 32	72 Pin	70NS	£69	£81.08

72-PIN PARITY MEMORY						
ME17	4MB	1 X 36	72 Pin	70NS	£14	£16.45
ME22	8MB	2 X 36	72 Pin	70NS	£29	£34.08
ME27	16MB	4 X 36	72 Pin	70NS	£41	£48.18
ME35	32MB	8 X 36	72 Pin	70NS	£83	£97.53

72-PIN EDO MEMORY SIMMS						
ME18	4MB	1 X 32	72 Pin	60NS	£9	£10.58
ME24	8MB	2 X 32	72 Pin	60NS	£16	£18.80
ME29	16MB	4 X 32	72 Pin	60NS	£29.99	£35.24
ME34	32MB	8 X 32	72 Pin	60NS	£59	£69.33

168 PIN DIMM MEMORY 3.3v SDRAM UNBUFFERED						
DMS8	8MB	64Bit	168 Pin	15ns	£29	£34.08
DMS16	16MB	64Bit	168 Pin	15ns	£59	£69.33
DMS32	32MB	64Bit	168 Pin	15ns	£89	£104.58
DMS64	64MB	64Bit	168 Pin	15ns	£199	£233.83

IF ALL MEMORY IS THE SAME, WHY DO SOME BRANDS FAIL MORE OFTEN THAN OTHERS?



Manufacturer	STOCK CODE	Model	Kingston Part	Description	Manufacturer's Part	Exc.Vat	Inc.Vat
AST	MEK900	Advantage 600 and 800 series	KST0987/4	(Mod)	500987-002, 500891-008	£17	£19.98
AST	MEK85	Bravo LC,LP,M5,M5-T/66-166	KST0987/8	(Kit)	500987-003, 501340-001	£33	£38.78
AST	MEK863	Ando MT series	KST0987/16	(Mod)	500987-004	£57	£66.98
AST	MEK901		KST0987/32	(Kit)	500987-005	£114	£133.95
AST	MEK902	Manhattan G,V	KST486P/16	(Kit)	501159-003	£86	£101.05
AST	MEK903		KST486P/32	(Kit)	501159-004	£133	£156.28
AST	MEK904		KST486P/64	(Kit)	501159-005	£266	£312.55
AST	MEK905	PowerExec 3/25SL-C,	KST0984/4	(Mod)	500984-001,501318-001	£38	£44.65
AST	MEK906	4/25SL Special ED,4/33SL	KST0984/16	(Mod)	500984-003,501318-003	£76	£89.30
Compaq	MEK907	Deskpro XL 450-590	KTC1 481/8	(Kit)	148188-001,148188-291	£43	£50.53
Compaq	MEK908	Proliant 1500 5/75, 5/90, 5/120	KTC1 481/16	(Kit)	148188-001,148189-291	£86	£101.05
Compaq	MEK909	1500R 5/75, 5/100, 5/120	KTC1 481/32	(Kit)	148188-001,148190-291	£133	£156.27
Compaq	MEK910	ProSignia 300 5/75,5/90, 5/120	KTC1 481/64	(Kit)	148188-001,148190-292	£266	£312.55
Compaq	MEK911	LTE 5000, 5100 & 5200 series	KTC-E5000/8	(Kit)	213515-001,213515-291	£48	£56.40
Compaq	MEK912		KTC-E5000/16	(Kit)	213515-002,213515-292	£76	£89.30
Compaq	MEK913		KTC-E5000/32	(Kit)	213515-003,213515-293	£147	£172.73
Compaq	MEK914		KTC-E5000/64	(Kit)	213515-004,213536-004,213515-294	£285	£334.68
Compaq	MEK915	DeskPro 2000, 4000, & 5200 series	KTC2430/8	(Kit)	243011-002	£33	£38.78
Compaq	MEK916		KTC2430/16	(Kit)	243012-002	£67	£78.73
Compaq	MEK917		KTC2430/32	(Kit)	243013-002	£114	£133.95
Compaq	MEK918		KTC2430/64	(Kit)	243014-002	£228	£267.90
Compaq	MEK929	Armada 4000 series	KTC-A4100/8	(Kit)	217914-001	£48	£56.40
Compaq	MEK920		KTC-A4100/16	(Kit)	217915-001	£76	£89.30
Compaq	MEK921		KTC-A4100/32	(Kit)	217916-001	£147	£172.73
Dell	MEK300	Dimension XPS 486, Optiplex 486's	KTD-LMT/4	(Mod)	310-3325	£17	£19.98
Dell	MEK872	Netplex 486	KTD-LMT/16	(Mod)	310-3327	£57	£66.98
Dell	MEK922	Dimension p133v, p166v,p200v	KTD-SDRAM/8	(Mod)	n/a	£48	£56.40
Dell	MEK334	Dimension XPS p133s, p166s, p200s	KTD-SDRAM/16	(Mod)	n/a	£71	£83.43
Dell	MEK545		KTD-SDRAM/32	(Mod)	n/a	£133	£156.28
Dell	MEK923		KTD-CXPRO/16	(Mod)	n/a	£81	£95.18
Dell	MEK321	Optiplex GXPRO series	KTD-CXPRO/32	(Mod)	n/a	£152	£178.60
Dell	MEK924		KTD-CX1/64	(Mod)	n/a	£352	£413.60
Dell	MEK925		KTD-CXPRO/128	(Mod)	n/a	£699	£821.33
Digital	MEK501	Digital Hinote VP 520, 525, 535	KTV-VP500/8	(Kit)	FR-PCP9M-BB	£48	£56.40
Digital	MEK506		KTV-VP500/16	(Kit)	FR-PCP9M-BB	£81	£95.18
Digital	MEK511		KTV-VP500/32	(Kit)	FR-PCP9M-BC	£157	£184.48
H/Packard	MEK926	Pavilion 7270, 7275z, 7280P,	KTH-VL4/8	(Kit)	D3646B	£33	£38.78
H/Packard	MEK532	7285, 7295V	KTH-VL4/16	(Kit)	D3647B	£67	£78.73
H/Packard	MEK927		KTH-VL4/32	(Kit)	D3648B	£114	£133.95
H/Packard	MEK928		KTH-VL4/64	(Kit)	D4543A	£228	£267.90
IBM	MEK929	Aptiva M30, M31, M40, M41, M50, M51	KTM-APTV/4	(Mod)	92G7539, 070N04Y	£17	£19.98
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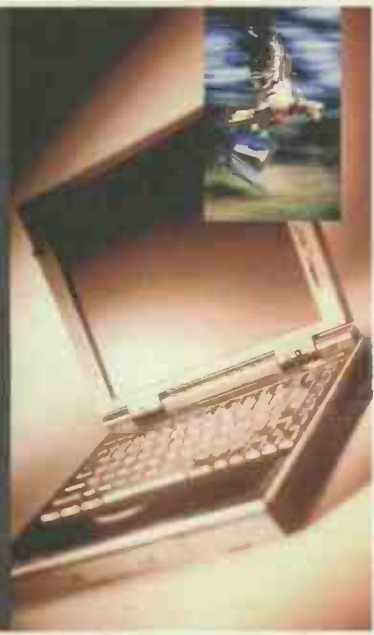
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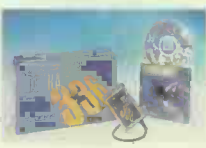
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MO50	SMILE 17" CA1716CL 0.26DP	£375.00	£440.63
MO60	SMILE 20" CA2011 0.28DP	£680.00	£799.00
MO62-D	SMILE CA2111 0.28DP	£799.00	£938.83
SONY MONITORS			
MO400	CPD 100 5X15" MONITOR	£194.00	£227.95

MO401	CPD 100 SFT15" TCO	£224.00	£263.20
MO402	CDP 200 5X 17" MONITOR	£359.00	£421.83
MO403	CDP 200 5FT 17" TCO	£382.00	£448.85
MO404	CDP 300 SFT520" TCO	£899.00	£1056.33
MO405	CDP 17 SE2T5 17" TCO 95	£560.00	£658.00
MO406	GDM 20 SE2T5 20" TCO 95	£999.00	£1173.83
MO408	GDM W900 SUPER WIDE 24" MONITOR TCO 95	£2350.00	£2761.25
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MOW400	EXTEND PACK A 3 YEARS ON SITE 15"	£49.00	£57.58
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MOW404	EXTEND PACK C 3 YEARS ON SITE 20"	£109.00	£128.08
TAXAN MONITORS			
MOS12	ERGOVISION 430LR LR14"	£113.00	£132.78
MOS02	ERGOVISION 530 TCO15"	£227.00	£266.73
MOS11	ERGOVISION 550 TCO95 15"	£218.00	£256.15
MOS03	ERGOVISION 730 TCO17"	£370.00	£434.75
MOS04	ERGOVISION 740 TCO 17"	£446.00	£524.05
MOS05	ERGOVISION 750 TCO 95	£461.00	£541.68
17" DIAMONDTRON			
MOS09	ERGOVISION 2040 TCO 20"	£664.00	£780.20
MOS10	ERGOVISION 2040 TCO 95 20"	£683.00	£802.53
MOS08	ERGOVISION 2150 TCO 95	£949.00	£1115.08
21" DIAMONDTRON			
TRUST MONITORS			
MO17	CN25280 14"	£109.00	£128.08
MO38-P	PRECISION VIEWER 15"	£159.00	£186.83
MO48-P	PRECISION VIEWER 17"	£309.00	£363.08
MO48-V	VISUALSOUND 17"	£299.00	£351.33
MO48-T	PRO VISUAL 17"	£325.00	£381.88
MO61	CM 5031 20" MONITOR	£515.00	£605.13
VIEWSONIC MONITORS			
MO800	E645 14"	£118.00	£138.65
MO801	E655 15"	£190.00	£223.25
MO31	V15E515"	£199.00	£233.83
MO33	GRAPHIC 15G515"	£235.00	£276.13
MO47	GRAPHIC 17G5 17"	£395.00	£464.13
MO48	V17EA 17"	£376.00	£441.80
MO36	MULTIMEDIA 15CA15"	£259.00	£304.33
MO49	MULTIMEDIA 17GA 17"	£449.00	£527.58
MO44	PROFESSIONAL 17PS17"	£449.00	£527.58
MO803	PROFESSIONAL P81021"	£965.00	£1133.88

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MO102 PRO17 **£439** £515.83

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- 17" FST MONITOR
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- 0.28mm dot pitch

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- On Screen Display
- 3 Year on-site "swap out" warranty

MO902 PROSCAN 175X **£399.00** £468.83

15" 1569MS

MO609 **£199** £233.83

14" 1451ELR

MO610 **£109** £128.08

CTX

ERGOVISION 430 L

TAXAN

The Ergovision 430LR is an excellent quality 14" monitor with 13.1" viewable.

MO511 430LR **£113.00** £132.78

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TAXAN

The Ergovision 550TCO 95 displays a crisp clear picture with its 15" screen

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TAXAN

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MO914 14" **£89.00** £104.58

15" VFM MONITOR

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- 260x195mm display size
- 12 Month RTB Guarantee

MO915 **£135.00** £158.63

17" VFM MONITOR

- 17" Flat Sq. Tube
- 0.28mm dot pitch
- 1024x768 (Flicker Free) NI res.
- 12 Month RTB Guarantee

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MO525 Microscan 4P 15" (1024 x 768 @ 85Hz) £165.00	MO19 Microscan 6P 19" (1600 x 1200 @ 75Hz) £579.00
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Monitors - Motherboards

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NEC-2	MULTISYNC XP29 PLUS29"; 0.6 DOT PITCH; 1600 X 1200@75 HZ; DYNAMIC FOCUS	£2799	£3288.83
NEC-3	MULTISYNC XM37 PLUS37"; 0.85 DOT PITCH; 1024 X 768@75 HZ; DYNAMIC FOCUS	£4899	£5756.33
NEC-4	MULTISYNC XP37 PLUS37"; 0.85 DOT PITCH; 1600 X 1200@75HZ; DYNAMIC FOCUS	£5899	£6931.32
LCD PROJECTORS			
NEC-5	MULTISYNC MT810TFT; 600 ANSI LUMENS; 200:1 CONTRAST RATIO; 800 X 600	£4899	£5168.83
NEC-6	MULTISYNC MT100TFT; 550 ANSI LUMENS; 200:1; 1024 X 768, MAX 300" IMAGE	£5999	£7048.83
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SAN-2	PLC8805XGA PORTABLE LCD MULTIMEDIA	£5995	£7044.13
OPTIONS FOR THE NEC PROJECTORS			
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NEC-8	LAMPLAMP FOR THE MT 810 AND MT 1000 NEC PROJECTORS	£199	£233.83
NEC-9	SOFT CASESOFT CASE FOR THE MT 810 AND THE MT 1000	£99	£116.33
NEC-10	HARD CASEHARD CASE FOR THE MT 810 AND THE MT 1000	£179	£210.33
NEC-11	MOUNTING KITCEILING MOUNTING KIT FOR THE MT RANGE	£179	£210.33
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NEC-12	M/SYNC LCD 400 S/FINE14.1" 1024 X 768 MAX	£1899	£2231.33
NEC-13	M/SYNC LCD 2000 S/FINE20.1" 1280 X 1024 MAX	£5699	£6696.33



NEC-5 MT810 **£4399** £5168.83
 NEC-6 MT100 **£5999** £7048.83

Motherboards

PC CHIPS MOTHERBOARDS

M100-V	OPTI VIPER P75-166Mhz	£29	£34.08
M47	486 PCI	£29	£34.08
M37	486 VLB - LIMITED STOCK	£29	£34.08
M99-2	VX CHIPSET	£45	£52.87
CM2-VX	256K CACHE MODULE FOR M99-2	£10	£11.75
CM3	512K CACHE MODULE FOR M99-2	£15	£17.63
M210	VX PRO CHIPSET 512K PLB cache baby AT£49	£69.33	£69.33
M220	TX PRO CHIPSET 512K PLB cache baby AT£59	£81.08	£81.08
M300	Intel TX CHIPSET 512K PLB cache baby AT£69	£105	£123.37
M101	PENTIUM PRO 440FX	£105	£123.37
QDI MOTHERBOARDS			
M203	QDI JUMPERLESS LEGEND I - ATX SINGLE PII INTEL LX + AGP - 233-333	£159	£186.83
M202	QDI JUMPERLESS TX CHIPSET	£75	£88.13
GIGABYTE MOTHERBOARDS			
M92-HX5	GIGABYTE 512K HX CHIPSET	£85	£99.88
M92-TX	GIGABYTE 512K TX CHIPSET	£95	£111.63
M92-UX	GIGABYTE 512K HX CHIPSET (ATX Format) £99	£116.33	£116.33
ELITE MOTHERBOARDS			
M810	P5-TX-A 430HX - ATX - 512K	£92	£108.10
M820	P5-TX-A Pro 430TX - ATX - 512K	£99	£116.33
M897	P55JA SIS5582 ATX - USB UDMA 33 - 512K£79	£92.83	£92.83
M830	PGKFA PII 440FX - ATX - 512K	£159	£186.83
M870	PLX-A PII Single Slot 440LX - ATX	£159	£186.83
M880	PLX-A UWSCSI PII Single Slot 440LX - ATX£239	£280.83	£280.83
M890	PLX-A UWSCSI PII Dual Slot 440LX - ATX£299	£351.33	£351.33
M840	P5TX-AR 430TX - ATX - 512K	£145	£170.38
M850	TX-B-512 430TX - 3/4Baby AT - 512K£85	£99.88	£99.88
M860	VX-BE-512 430VX - 3/4Baby AT - 512K£89	£104.58	£104.58
CM2-96	256K CACHE FOR ELITE 256K M/B	£12	£14.10
M895	PLX-A Single Slot Bare Bones System £239	£280.83	£280.83
ASUSTEK MOTHERBOARDS			
M400	TX97-E 430TX-512K-Baby AT format £125	£146.87	£146.87
M410	TX97-E 430TX-512K-ATX	£129	£151.57
M415	TX97-XE + Creative Labs sound on board £155	£182.12	£182.12
M420	PJI-P55T2P4 HX-512K-Baby AT format £105	£123.37	£123.37
M530	P2L-97 - Pentium II LX ATX	£169	£198.58
MICRONICS MOTHERBOARDS			
M500	M7S-HI HX 512K ATX + C/Labs vIbra £129	£129	£151.58
M505	M75Tw Twister TX 512K baby AT	£99	£116.33
M510	M75Tw Twister TX 512K ATX	£99	£116.33

M515	W6-LI-Dual Pentium Pro + Adaptec LW SCSI	£299	£351.33
M520	M1 Sfw Stingray Pentium II ATX	£177	£207.98
M525	M1 Dfd Fortress Dual Pentium II	£266	£312.55
M530	M1SLT Tigercat Pentium II ATX 440LX £239	£239	£280.83
SUPERMICRO MOTHERBOARDS			
M240	P5MMA98 Intel 430TX P75-233 - 512K - ATX	£118	£138.65
M250	P5MMS98 Intel 430TX P75-233 - 512K - AT	£121	£142.18
M260	P6DNE Dual P-Pro 440FX - Baby AT . £219	£257.33	£257.33
M270	P6DKS Dual PII 200 - 300 Mhz 440FX - ATX	£299	£351.33
M280	P6SLE Single PII 200-300 Mhz 440LX - ATX	£159	£186.83
M290	P6DLE Dual PII 200-300 Mhz 440LX - ATX	£319	£374.83
M295	P6DLS as above with UW-SCSI onboard£365	£428.83	£428.83
TYAN MOTHERBOARDS			
MT100	S1571 TITAN TURBO AT-2 P75-233 512K - INTEL TX	£89	£104.58
MT110	S1573 TITAN TURBO ATX-2 P75-233 512K - INTEL TX	£93	£109.28
MT120	S1692S TIGER ATX SINGLE PII P75-233 - INTEL LX + AGP	£169	£198.58
MT130	S1696DLUA THUNDER 2 ATX DUAL PII - P75-233 - INTEL LX + AGP + U/WIDE SCSI	£359	£421.83
STOCK CLEARANCE MOTHERBOARDS			
M94	INTEL VX 75-133Mhz-256K- LIMITED STOCK	£39	£45.83
M98-H	CHAINTCH INTEL HX 256K	£55	£64.63
M98-V	CHAINTCH INTEL VX 256K	£55	£64.63
M47-E	486 WITH CYRIX 586 100Mhz ON BOARD	£69	£81.08
M96	ELITE INTEL HX 75 - 166 - 256K	£69	£81.08
M96-V	ELITE INTEL VX 75 - 166 - 256K	£59	£69.33
M93	INTEL VX 75 - 133 - LIMITED STOCK	£32	£37.60

INTEL 233MMX

PC Chips TX Pro Motherboard with 512K Cache	£75.00	+vat
Intel Pentium 233 MMX CPU	£199.00	+vat
2Mb MediaForce S3 Virge Video Card	£35.00	+vat
Heavy Duty Heat Sink & Fan	£8.00	+vat
Total Individual Cost	£317.00	+vat
Total Bundle Cost	£295.00	+vat

SAVE **£25.86** £295.00 + VAT

INTEL PII 233

Elite P6KFA Motherboard PII 440FX Chipset - 512K ATX	£159.00	+vat
Intel Pentium PII 233 CPU	£309.00	+vat
Hercules Terminator 3D DX 4Mb Video Card	£62.00	+vat

Total Individual Cost	£530.00	+vat
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MICRONICS

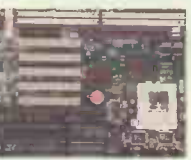
M1-SLT TIGERCAT 440LX



- Supports Intel PII 233-300 Mhz VRM integrated.
- Intel 440LX chipset
- ATX form factor with PS2 style keyboard/mouse connectors

M530
£239.00
 £280.83

M7-STw 430TX CHIPSET



- Supports Intel 75-200mhz, Intel MMX 166-233 (integrated VRM), Cyrix, AMD K5 / K6
- Intel 430TX chipset

M505 AT/M510 ATX
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 £116.33

M1-Dfd 440FX CHIPSET



- Supports Dual Intel Pentium PII 233-300Mhz
- Intel 440FX chipset
- Max memory 1024Mb

M525
£266.00
 £312.55

M1-Dfd STINGRAY



- Single Intel Slot 1 supports 233/266 MHz Pentium II processor
- Integrated VRM
- Intel 440FX chipset

MO525
£259.00
 £304.33

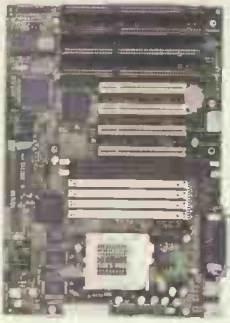
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- 512k pipelined burst synchronous cache
- 8MB to 256MB EDO, SDRAM or FPM
- 2 Ultra DMA EIDE, 1 floppy
- 1 ECP/EPP parallel, 2 UART 16550 serial
- 2 USB, 1 infrared port

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C200-I	200MMX	£100	£117.50
C233-I	233MMX	£169	£198.58

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QDI TX JUMPERLESS MOTHERBOARD

Intel 82430TX Chipset

- CPU Supports Intel/Cyrix/AMD K5/6 - P75 - 233Mhz
- Supports Intel MMX™
- Architecture 4 PCI Slots and 3 ISA Slots
- Cache 512K Cache as Standard
- Supports: 4 IDE Devices & 2 Floppy D/Drives PIO Mode 4 & DMA Mode 2 Ultra DMA/33
- Memory Uses 72-pin SIMM modules x 4 auto-banking in multiple configuration up to 256Mb.
- BIOS Supports both Fast Page Mode & EDO DRAM Two 168 Pin DIMM Sockets Supports Flash ROM, PnP, Green Feature, NCR810 SCSI Bios.
- Size 22cm x 25cm

M202 **£75.00** £88.13

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Intel 440LX Chipset

- CPU Supports Intel Pentium II 233 - 333Mhz
- Architecture 4 PCI Slots and 3 ISA Slots
- VGA Bus 1 x AGP (Accelerated Graphics Port)
- I/O Spec Supports: 4 IDE Devices & 2 Floppy D/Drives PIO Mode 4 & DMA Mode 2 UDMA 33 2 USB Ports on board PS2 Mouse & Keyboard Connectors
- Memory 4 x 168 pin DIMM Supports up to 512Kb SDRAM or 1Gb EDO
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M203 **£159.00** £186.83

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M100-V OPTI VIPER P75-P166 **£29.00** £34.08

M220 **£59.00** £69.33



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- Cache 512K Cache as Standard
- I/O Spec 4 IDE Devices & 2 Floppy D/Drives Supports: PIO Mode 4 & DMA Mode 2 Ultra DMA/33 2xUSB Ports (ready)
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U-A1	BackUPS Pro 280PNP - c/w PowerChute Pro	£105 £123.38
U-A2	BackUPS Pro 420PNP - c/w PowerChute Pro	£159 £186.83
U-A3	BackUPS Pro 650PNP - c/w PowerChute Pro	£189 £222.08
U-A35	BackUPS Pro 1000PNP	£289 £339.58
U-A40	BackUPS Pro 1400PNP	£374 £439.45
U-A45	SmartUPS 2501	£155 £182.13
U-A50	SmartUPS 4501	£215 £252.63
U-A55	SmartUPS 7001 NET - c/w PowerChute Plus	£245 £287.88
U-A60	SmartUPS 10001 NET - c/w PowerChute Plus	£299 £351.33
U-A65	SmartUPS 14001 NET - c/w PowerChute Plus	£399 £468.83
U-A70	SmartUPS 22001 NET - c/w PowerChute Plus	£625 £740.38
U-A80	SmartUPS 700RM rack mount	£345 £405.38
U-A90	SmartUPS 1000RM rack mount	£489 £574.58
U-A100	SmartUPS 1400RM rack mount	£659 £774.33
U-A110	SmartUPS 2200RM rack mount	£979 £1150.33
U-A120	SmartUPS 3000RM rack mount	£1179 £1385.33
U-A130	SmartUPS 700XL extended run	£379 £445.33
U-A140	SmartUPS 1000XL extended run	£469 £551.08
U-A150	SmartUPS 2200XL extended run	£899 £1056.33
U-A160	SmartUPS V/S 420	£159 £186.83
U-A170	SmartUPS V/S 650	£195 £229.13
U-A180	SmartUPS V/S 1000	£319 £374.83
U-A190	SmartUPS V/S 1400	£388 £455.90
TRUST		
N88	32 S/UPS	£69 £81.07
N87	52 S/UPS	£99 £116.32
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N12	E/Link III 3C5098 ISA RJ45 Bare Card	£55 £64.63
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N151	E/Link III 3C5098 ISA RJ45 Card Retail	£65 £76.38
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N154	E/Link III 3C5098 ISA Combi 5 Pack	£309 £363.08
N104	E/Link III 3C900 PCI Combi Bare Card	£79 £92.83
N140	E/Link III 3C900 PCI RJ45 Card Retail	£69 £81.08
N141	E/Link III 3C900 PCI Combi Card Retail	£79 £82.83
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N157-8	EtherLink III 3C589 PCMCIA Combi (Retail Box)	£109 £128.08
N142	EtherLink III 3C589 PCMCIA RJ45	£95 £111.63
N143	Token Link 3C619C ISA 16 Bit	£165 £193.88
N144	PCMCIA 3C529C BNC	£149 £175.08
3COM HARDWARE		
N410	As N400 +1 BNC +SNMP	£349 £410.08
N430	12 Port Hub TP 3C16670C	£345 £405.38
N440	24 Port Hub TP 3C16671C	£479 £562.83
N451	6 Port Fibre Hub 3C1665A	£99 £117.25
N452	24 Port Telco 3C16672A	£675 £793.13
N453	12 Port Managed TP Hub 3C16673B	£609 £715.58
N454	48 Port System Solution 3C16674B	£1598 £1877.65
N455	48 Port System Solution 24 3C16675B	£1480 £1739.00
N457	Hub 100 TX 3C250A/TX-1	£1185 £1392.38
N458	Hub 100 Managed 3C215A	£1155 £1357.13
N459	TR 12 Port TP 3C510510B	£865 £1016.38
N461	TR 24 Port TP 3C510511B	£1145 £1345.38
N462	Link Cable	£29 £34.08
N463	Switch Hub 12 Port TP 3C16405	£99 £117.25
N464	Switch Hub 24 Port TP 3C16406	£1029 £1209.08
N465	Switch Hub Cascade Cable 30cm	£22 £25.85
N466	Switch Hub Cascade Cable 1m	£29 £34.08
N467	Switch Hub Cascade Cable 3m	£39 £45.83
N468	Switch Hub Hot Swap Cascade Unit	£99 £116.33
N802	Switch 2200 3C22000A	£3909 £4593.08
N803	Switch 2700 MultiModule 3C32700A	£4319 £5074.83
N804	Switch 2700 DS-3 ATM 3C32710A	£4659 £5474.33
N805	Switch 2700 Singlemode ATM	£6289 £7389.58
N806	Switch 3000 FX 3C16940A	£5419 £6367.33
N807	Switch 3000 TX 3C16941A	£1849 £2172.58
3COM SUPERSTACK II HUBS AND ROUTERS		
NR100	SuperStack II PS hub 40 12x100BaseT 3C16405	£228 £267.90
NR110	SuperStack II PS hub 40 24x100BaseT 3C16406	£396 £465.30
NR120	S/Stack II PS hub 50 12x100BaseT, 1x100BaseTX	£696 £817.80
NR130	SuperStack II cascade cable	£23 £27.03
NR140	S/Stack II hub 100 12x 100BaseTX 3C250 B-TX	£719 £844.83
NR150	S/Stack II hub 100 T4 12x 100BaseT4 3C250-T4	£799 £938.83
NR160	S/Stack II hub 100 Management mode 3C215A	£369 £433.58
NR170	SuperStack II hub 100 expansion cable 3C219	£42 £49.35
NR180	SuperStack II hub 100 12x 100BaseTX Transceiver module 3C252-TX	£719 £844.83
NR190	SuperStack II hub 100 12x 100BaseFX Fibre transceiver module 3C252-TX	£719 £844.83
NR200	SuperStack dual speed hub 10/100 12port 3C16590	£729 £856.58
NR210	SuperStack dual speed hub 10/100 24 port 3C16591	£1169 £1373.58
NR220	SuperStack II Switch 1000 12x100BaseT, 1x100BaseTX 3C16901A	£989 £1162.08
NR230	SuperStack II Switch 1000 24x100BaseT, 1x100BaseTX 3C16900A	£1379 £1620.33
NR240	SuperStack II Switch 3000 12x 100BaseT, 2x100BaseTX 3C16460A	£599 £703.83
NR250	SuperStack II Switch 3000 12x 100BaseTX auto sense 3C16942A	£1429 £1679.08
NR260	SuperStack II Switch 3000 5x 100Base FX 3C16940A	£3799 £4463.83
3COM SMALL OFFICE HUBS, SWITCHES AND ROUTERS - OFFICE CONNECT		
NR270	Hub/4TP 4x 100BaseT 3C16704	£45 £52.88
NR280	Hub/4TPC 4x 100BaseT, 1x BNC/AUI 3C16703	£65 £76.38
NR290	Hub/8TP 8x 100BaseT 3C16700	£59 £69.33
N400	Hub/8TPC 8x 100BaseT, 1x BNC 3C16701	£77 £90.48
NR310	Hub/TP16C 16x BNC 10/100 ethernet 3C16702	£150 £176.25
NR320	Fast ethernet hub/TP100 8x100BaseTX 3C16720	£409 £480.58
NR330	OfficeConnect Switch 140 6x100BaseT, 1x 100BaseTX 3C16730	£435 £511.13
NR340	Remote 510 ISDN Router (data/voice) 3C410000	£360 £423
NR350	Remote 520 ISDN Router (data/voice) 3C410005	£485 £569.88

NR360 Remote 531 ISDN Router (data/voice/WAN)		
3C410010		£675 £793.13
NR370 ISDN Gateway 535 1.net access Router 3C410011		
£880	£1034	
CISCO ROUTERS - ALL CISCO PRO		
CIS500	CPA751 IRO (BRI) 1 RJ45/BNC 4 users	£715 £840.13
CIS110	CPA751 IRO ISDN (BRI) 1 RJ45/BNC unlim. users	£1069 £1256.08
CIS520	CPA1003 ISDN (BRI) 1 RJ45 PCMCIA Flash mem.	£1129 £1326.58
CIS530	CPA1005DB-60 1 RJ45 PCMCIA Flash mem	£1129 £1326.58
CIS540	CPA2501 DB-60 1 RJ45 Aux. 1 AUI	£1549 £1820.08
CIS550	CPA2503 DB-60 1 RJ45 Aux. 1 AUI, 1 ISDN(BRI)	£2049 £2407.58
CIS560	CPA2514 DB-60 1 RJ45 Aux. 2 AUI	£1919 £2254.83
CIS570	CPA2509 DB60, 8 RJ45, 1 AUI	£1919 £2254.83
CIS580	CPA2511 DB60, 16 RJ45, 1 AUI	£2349 £2760.08
CIS590	CPA2507 DB60, 1 RJ45 AUX,16 RJ45	£2349 £2760.08
CIS600	CPA2516 DB60, 1 RJ45 AUX, ISDN (BRI), 14 RJ45	£2749 £3230.08
D-LINK		
N-D-5	DE220PT PnP ISA Network Card RJ45	£19 £22.33
N-D-6	DE220PT 6 Pack	£115 £135.13
N-D-7	DE220PT PnP Combi ISA Network Card	£21 £24.68
N-D-8	DE220PT 6 Pack	£99 £116.33
N-D-9	DE220CAT PnP ISA Combi c/w AUI	£30 £35.25
N-D10	DE220CT Pocket LAN Adaptor Combi	£79 £92.83
N-D11	DE220TP Pocket LAN Adaptor RJ45	£69 £81.08
N-D12	6 Parallel Port extension cable	£15 £17.63
N-D15	DE530T + PCI Card RJ45	£29 £34.08
N-D16	DE530T 6 Pack	£159 £186.83
N-D17	DE530CT + PCI Combi Card	£33 £38.78
N-D18	DE530CT + 6 Pack	£169 £198.58
N-D19	DE528CT PCI Slave Card	£35 £41.13
N-D20	DE650CT PCMCIA Combi	£69 £81.08
N-D25	DT-220 + Token Ring Card	£229 £269.08
N-D50	DE-805TP Hubby 5 Port +K/ board Port Power	£43 £50.53
N-D51	Kit Inc. 1xHubby, 2xDE220PT, 2x6mtr cable	£85 £99.88
N-D52	DE-809TP 9 Port RJ45 Hub	£48 £56.40
N-D55	DE-809TC 8 Port RJ45 Hub With 1 BNC Hub	£49 £57.58
N-D56	DE-809TAC 8 Port With 1 BNC + 1 AUI Hub	£79 £92.83
N-D58	DE-812TP 12 Port Hub 12 RJ45 +BNC +AUI Hub	£99 £116.33
N-D60	DE-816TP 16 Port Hub 16 RJ45 +BNC +AUI	£119 £139.83
N-D61	DE-816TAC Mini Hub as above	£129 £151.58
N-D65	DE-824TP 24 RJ45 + BNC + AUI	£149 £175.07
N-D70	DFE500TX PCI 100base TX Card	£42 £49.35
N-D71	DFE500TX 6 Pack	£229 £269.08
N-D100	DE-802 Repeater 2 Port BNC/AUI	£175 £205.63
N-D105	DE-804 Repeater 4 Port BNC/AUI	£159 £186.83
N-D150	DES220S 5 Port Switch 4x100BaseT, 1x100TX	£479 £562.83
N-D155	DES220S 8 Port Switch 6x100BaseT, 2xExp.	£749 £880.08
N-D160	DES220TX 100TX module for DES220S	£239 £280.83
N-D200	DES320S 5 Port 10/100 auto Managed Hub	£1199 £1408.83
N-D205	DES320S 8 Port N/Way FDX/HDX	£1049 £1232.58
N-D250	DPE808TX 8 Port 100BaseTX Hub	£345 £405.38
N-D255	DPE816 16 Port 100BaseTX Hub	£559 £656.83
N-D260	DPE817 27x+ Stackable 12 Port 100BaseTX	£499 £586.33
N-D300	DE950 Print Server for Novell(Combi 2Par, 1Ser)	£149 £173.90
N-D305	DE960 Multi Protocol Ethernet Print Server	£239 £280.83
N-D255	DP100 Multi Protocol Print Server	£255 £299.63
SMC Network Cards		
N-55	SMC EtherEZ ISA RJ45	£55 £64.63
N-510	SMC EtherEZ ISA BNC	£55 £64.63
N-515	SMC EtherEZ ISA Combi	£61 £73.94
N-520	SMC EtherEZ RJ45 5 Pack	£235 £276.13
N-525	SMC EtherEZ BNC 5 Pack	£235 £276.13
N-530	SMC EtherEZ Combi 5 Pack	£255 £299.63
N-535	SMC EtherPower PCI Card RJ45 10/100	£55 £64.63
N-540	SMC EtherPower PCI Card Combi	£79 £92.83
N-545	SMC EtherPower PCI Card Combi 5 Pack	£219 £257.32
N-5100	SMC Tiger Hub TP6 6 Port	£105 £123.37
N-5105	SMC 3812 14 Port Hub	£495 £581.63
N-5110	SMC EZSwitch 6x 6 Port Combi	£629 £739.08
HEWLETT PACKARD - ADVANCE STACK		
N-H5	Hub 8 RJ45 Ports	£119 £139.83
N-H10	Hub 16 RJ45 Ports	£270 £317.25
N-H15	Hub 12 RJ45 + 1 BNC Ports	£334 £392.45
N-H20	Hub 24 RJ45 + 2 Telco + 1 BNC	£625 £734.38
N-H25	Hub 48 RJ45 + 4 Telco + 1 BNC	£1175 £1380.63
N-H30	Hub 12 RJ45 + SNMP Module	£570 £669.75
N-H35	Hub 24 RJ45 + SNMP Module	£860 £1010.50
N-H40	100VG 7 RJ45 Hub	£380 £446.50
N-H45	100VG High Speed 7 RJ45 Hub	£460 £540.50
N-H50	100VG 14 RJ45 Hub	£995 £1159.13
HEWLETT PACKARD - Jet Direct		
N-H55	Ext.Print Server 1 Printer RJ45/BNC Parallel Port	£195 £229.13
N-H60	Ext.Print Server 3 Printer RJ45/BNC	£285 £334.88
N-H65	Jet Direct Token Ring Print Server	£299 £351.33
N-H70	Jet Direct External 100VG Print Server	£349 £410.08
N-H80	Jet Direct Internal 100BaseT Print Server	£215 £252.63
N-H85	J/Direct Internal BNC RJ45 Print Server	£239 £280.83
N-H90	J/Direct Internal Token Ring / RJ45	£359 £421.83
MICRODYNE - NOVELL		
N5	Novell NE2000 Plus 16 Bit BNC	£45 £52.88
N-10	Novell NE2000 Plus 16 Bit RJ45	£45 £52.88
N-115	Novell NE2000 Plus 16 Bit Combi	£49 £57.58
N-120	Novell NE2000 Plus 16 Bit RJ45 5 Pack	£225 £264.38
N-125	Novell NE2000 Plus 16 Bit BNC 5 Pack	£225 £264.38
ALLIED TELESYN INTERNATIONAL		
N-T5	8 Port 100BaseT Concentrator With AUI + BNC	£99 £116.33
N-T10	12 Port 100BaseT Concentrator AUI + BNC	£215 £252.63
N-T15	16 Port 100BaseT Concentrator AUI + BNC	£265 £311.38
N-T20	24 Port 100BaseT Concentrator AUI + BNC	£385 £452.38
N-T50	2 Port Repeater AUI/RJ45	£185 £217.38
N-T55	2 Port Repeater BNC/BNC	£209 £245.58
N-T60	2 Port Repeater BNC/RJ45	£199 £233.83
N-T65	4 Port Repeater 4 BNC + 1 AUI	£385 £452.38
N-T70	8 Port Repeater 8 BNC + 1 AUI	£499 £586.33
N-T100	Slimline Transceiver BNC	£19 £22.33
N-T105	Slimline Transceiver RJ45	£19 £22.33
N-T110	Micro Transceiver BNC/AUI	£34 £39.95
N-T115	Micro Transceiver RJ45/AUI	£34 £39.95
KINGSTON TECHNOLOGY		
N202	EtherRx PnP ISA Combi Card	£22 £25.85
N205	EtherRx PCI Combi Card	£29 £34.08
N205-100	EtherRx PCI 10/100 Combi Card	£59 £69.33

N207	EtherX PCMCIA Combi Adapters	£75 £88.13
N210	EtherX 8 Port Workgroup Hub	£79 £92.83
N215	EtherX 8 Port Stackable Hub	£95 £111.63
N220	EtherX 16 Port Workgroup Hub	£139 £163.33
N212	EtherX 8 Port 100TX Hub	£385 £452.38
XIRCOM PC CARD (PCMCIA) PRODUCTS PERFORMANCE SERIES		
XIR100	C/card ethernet adaptor 10BaseT CE2-10BT/M	£80 £94
XIR110	C/card ethernet adaptor 10Base2 CE2-10B2/M	£90 £116.33
XIR120	C/card ethernet adaptor Combo CE2-10BC/M	£109 £128.08
FAST ETHERNET AND FAST ETHERNET UPGRADEABLE		
XIR130	C/card e.net adaptor 10/100 U/G10BaseT CE3-10BT/M	£80 £94
XIR140	C/card ethernet adaptor 10/100 upgradeable 10BaseT+10Base2 CE3-10BC/M	£107 £125.73
XIR150	Credit card ethernet adaptor 10/100 ready 100BaseTX CE3-10BTX/M	£99 £116.33
XIR160	10/100 upgrade for CE3 10Mbps models	£Call £Call
XIR170	C/Bus 32 bit eth. adaptor 10/100 100BaseTX	£99 £116.33
XIR180	Token Ring Performance series Credit card T.R. Ad. Ipsi. 4/16Mbps UTP/STP PS-C2-16CTP/E	£169 £198.58
GLOBAL ACCESS		
XIR190	C/card e.net + 336 Modem 10BaseT CEM-33BT/M	£169 £198.58
XIR200	C/card e.net + 336 Modem 10BaseT/ 10Base2 CEM-33BC/M	£189 £222.08
XIR210	Credit card Token ring + 336 Modem UTP/STP CTM-33CTP/E	£299 £351.33
XIR220	Credit card Modem 336 only	£115 £135.13
XIR230	Credit card ethernet 10/100 + 56K modem + GSM CEM56-100BTX/M	£239 £280.83
XIR240	Credit card ethernet 10/100 + 56K modem + GSM + MiniDock CEM56-100MD/M	£239 £280.83
XIR240	MiniDock connector system for 56K	£29 £34.08
XIR250	Upgrade kit for GSM connection to 56k models. Ericsson CA318/CH338/CF388 GSMCK-56ER-1	£79.00 £92.83
XIR280	Upgrade kit for GSM connection to 56k models. Philips Fizz GSMCK-56PHI-1	£79 £92.83
XIR290	Upgrade kit for GSM connection to 56k models. Philips Stark GSMCK-56PHI-2	£79 £92.83
XIR300	Upgrade kit for GSM connection to 56k models. Philips Genie GSMCK-56PHI-3	£79 £92.83
XIR310	Upgrade kit for GSM connection to 56k models. Siemens 54/Sony CMD-100, CMD-200 GSMCK-56SIE-1	£79 £92.83
XIR320	Upgrade kit for GSM connection to 56k models. Siemens 54/Sony CMDX-1000 GSMCK-56SIE-2	£79 £92.83
ISDN		
XIR330	Credit card ISDN adaptor (28+ adaptors)	£40 £47
PARALLEL PORT PRODUCTS		
XIR250	Pocket ethernet adaptor 10BaseT PE3-10BT/GB/E	£169 £198.58
XIR260	Pocket ethernet adaptor 10BaseT/10Base2	£189 £222.08
MEDIA FORCE		
N08	ISA PnP Combo card	£12 £14.10
N09	ISA RJ45 only	£11.50 £13.51
N40	PCI Combo Card	£14 £16.45
N900	10/100 PnP Network Card	£39 £45.83
N25	PCMCIA combo	£55 £64.63
N20	Pocket LAN adaptor parallel port combo	£55 £64.63
N100	4 Port Hub (4x RJ45)	£35 £41.13
N105	8 Port Hub (8x RJ45 + 1x BNC)	£49 £57

N1120	E/Express PRO 100+ PCI 100BaseTX/10BaseT	£48	£56.40
N1130	E/Express PRO 100+ PCI 100BaseTX/10BaseT 5 pack	£230	£270.25
N1140	E/Express PRO 100+ PCI 100BaseTX/10BaseT 20 pack	£850	£998.75
N1150	E/Express PRO 100 PCI Server	£479	£562.83
N1160	E/Express PRO 10/100 PCMCIA 16 bit	£100	£117.50
N1170	E/Express PRO 10/100 PCMCIA Cardbus 32bit	£100	£117.50
N600	Netport Express Pro Multi Protocol Ext Print Server 3 port PC/LA2153	£219	£257.33
N610	N/Express Pro Multi Protocol Int Print Server M10 PC/LA3152	£153	£179.78
N620	N/Express PRO/100 Multi Protocol 3 port Ext Print Server EPLCA2453	£229	£269.08
N630	Express 100BaseT stand alone hub 8 port. EE100x8	£299	£351.33
N640	E/Express 12 port 10/100BaseTX, 2 expansion slots EE110TX12W	£639	£750.83
N650	E/Express 24 port 10/100BaseTX. EE110TX24W	£999	£1173.83
N660	E/Express SNMP management module for use with 12 port hubs.	£449	£527.58
N670	EtherExpress cascade cable	£49	£57.58
N800	E/Express 24 port Switch with pre-installed 100meg module. ES10T24	£1129	£1326.58
N810	As N800 with layer 3 switching capability and full RMON support. ES10T24PLUS	£1549	£1820.08
N680	E/Express 10/100BaseTX switching hub, 8 ports + 4 expansion ports. ES101TXW	£1299	£1526.33
N690	E/Express 8 port Fibre Fast ethernet switch with layer 3 capability. ES100FX	£4899	£5756.33
N700	10/100BaseTX expansion module ES101MATX	£599	£703.83
N710	100BaseFX expansion module. ES101MAFX	£1199	£1408.83
N720	Cascade cable. EC100CC	£39	£45.83
N820	Express 9100 Router, X.25 and Frame Relay Support - Encrypted. ER9100C	£549	£645.08
N830	Express 9100 Router, as above with no encryption - ER9100C	£549	£645.08
N840	Express 9201 Router, ISDN Support + modem slot for analogue - Encrypted. ER9201W	£549	£645.08
N850	Express 9201 Router, as above but with no encryption. ER9201WC	£549	£645.08
N860	Express 9300 Router, RJ45 and AUI only - ISDN Encrypted. ER9300W	£549	£645.08
N870	Express 9100 Router, as above with no encryption. ER9300WC	£549	£645.08
MAYFLEX / PLANET			
Lan Ethernet Adaptors (E/A)			
NM100	PCI 10/100 E/Ad. 10BaseT/100BaseTX ENW-9502	£45	£52.88
NM110	PCI 10/100 E/Ad. 10BaseT/100BaseTX + DEC11240 ENW-9501	£49	£57.58
NM120	ISA PNP E/Ad. NE2000 compatible BNC/10BaseT ENW-2400P-IT	£16.75	£19.68
NM150	Boot Rom for 2400 series	£5	£5.88
NM130	PCI E/Ad. NE2000 compatible BNC/10BaseT		

ENW-8300-2T	£23	£27.03	
NM140	boot Rom for 8300 series	£5	£5.88
NM160	High Performance 2-in-1 Ethernet Pocket Lan card BNC/10BaseTEN-EPP-CT	£75	£88.13
NM170	2-in-1 E.net PCMCIA card BNC/10BaseT ENW-3500-2T	£65	£76.38
SOHO Series Ethernet Hub			
NM180	5 port palm 4x10BaseT/1xBNC, metal EH-500	£39	£45.83
NM190	5 port palm 5x10BaseT, plastic EH-501	£39	£45.83
NM200	8 port mini hub 8x10BaseT/1xBNC EH-800	£49	£57.58
NM210	8 port un-managed hub 8x10BaseT/1xBNC/1xAUIEH-802	£69	£81.08
NM220	16 port mini hub 16x10BaseT/1xBNC/1xAUI EH-1600	£99	£116.33
Rack Mountable un-managed 10BaseT Hubs			
NM230	16 port 16x10BaseT/10BaseT uplink x 1/2xBNC/2xAUI EH1602R	£129	£151.58
NM240	24 port 24x10BaseT/10BaseT uplink/2xBNC/2xAUI EH-2400	£199	£233.83
NM250	32 port 32x10BaseT/10BaseT uplink/2xBNC/2xAUI EH-3200	£249	£292.58
Ethernet transceivers			
NM260	AUI to BNC ET506	£18	£21.15
NM270	AUI to 10BaseT ET-507	£18	£21.15
NM280	AUI to ST (fibre) ET-108A	£94	£110.45
NM290	10BaseT to BNC ET-509	£79	£92.83
Coax Repeaters			
NM300	2 port 2xAUI/BNC ER-200	£99	£116.33
NM310	4 port rack mountable 4x AUI/BNC ER-400R	£199	£233.83
100BaseTX Fast Ethernet Stackable Standard Hubs			
NM320	5 port palm top stackable FN-500	£239	£280.83
NM330	8 port palm top stackable FN-800	£319	£374.83
NM340	4 port stackable with bridging port FNB-400	£259	£304.33
NM350	8 port stackable with bridging port FNB-800	£469	£551.08
NM360	12 port stackable with bridging port FNB-1200	£599	£703.83
NM370	Fibre-Optic module for FNB series (SC type)	£235	£276.13
NM380	Fibre-optic module for FNB series (ST type)	£235	£276.13
NM390	8 port stackable 10/100 100BaseTX FH-801	£439	£515.83
NM400	16 port stackable 10/100 100BaseTX FH-1601	£719	£844.83
NM410	100BaseFX Fibre-Optic module (ST type)	£259	£304.33
NM420	10BaseT bridging module FH-10T	£179	£210.33
10/100 Ethernet/Fast Ethernet Switching Hubs			
NM430	8 port 10/100BaseTX FNSW-8080	£1199	£1408.83
NM440	2 port 10/100BaseTX, 8 port 10BaseT FNSW-1020	£949	£1115.08
NM450	2 port 10/100BaseTX, 16 port 10BaseT FNSW-1820	£1099	£1291.33
NM460	1 port 100BaseTX, 1 port 100BaseFX, 8 port 10BaseT FNSW-1021F	£1129	£1326.58
NM470	1 port 100BaseTX, 1 port 100BaseFX, 16 port 10BaseT FNSW-1821F	£1329	£1561.58
10/100 Desktop Express Switching Hubs			
NM480	4 port 10/100BaseTX FHSW-4040A	£599	£703.83
NM490	8 port 10/100BaseTX FHSW-8080A	£1049	£1232.58

NM500	2 port 100BaseTX, 8 port 10BaseT FHSW-1020N	£679	£797.83
10/100 MicroSwitch Hubs			
NM510	2 port 10/100BaseFX FS-2020A	£549	£645.08
NM520	1 port 10/100BaseTX, 1 port 100BaseFX FS-2020AF	£call	£call
Intelligent 10/100 Network solution			
NM530	32 port e.net 10BaseT SNMP master hub EH-3200M	£829	£974.08
NM540	16 port e.net 10BaseT SNMP master hub EH-1600M	£499	£586.33
NM460	32 port e.net 10BaseT SNMP slave hub EH-3200S	£609	£715.58
NM470	16 port e.net 10BaseT SNMP slave hub EH-1600S	£359	£421.83
NM480	8 port ethernet 10BaseT SNMP slave hub EH-800S	£189	£222.08
NM490	PlanetVerm Win. based SNMP management S/W	£299	£351.33
Intelligent 10/100 network solution			
NM500	12 port 100BaseTX FHSW-1212	£2299	£2701.33
NM510	2 port 100BaseTX, 10 port 10BaseT FHSW-1202	£1219	£1432.33
NM520	2 port 100BaseTX, 24 port 10BaseT in 4 switching cluster FHSW-2602	£999	£1173.83
NM530	1 port 100BaseTX, 24 port 10BaseT with 1 switching module slot FHSW-2602A	£1349	£1585.08
Ethernet Print servers and Internet Router			
NM540	1 port direct attached Print Server (IPX/SPX, NDS, SMB) PS-3N-D	£149	£175.08
NM550	1 port direct attached Print Server (IPX/SPX, TCP/IP, Apple, SMB) PS-5P-D	£185	£217.38
NM560	2 parallel/1 serial Print Server (IPX/SPX, NDS, SMB) PS-3N-M	£229	£269.08
NM565	3 parallel Fast Ethernet Print Server (IPX/SPX, NOS, TCP/IP, Apple, SMB) PS-5P-M	£279	£327.83
NM570	Single port ethernet router with 1xBNC/10BaseT, 1 port DB-9 RT-101	£239	£280.83
NM575	4 Port Internet sharing hub IH-400	£199	£233.83
Soho IntranetWare Networking Kits			
NM580	5 user Novell Intranetware for Small Businesses (Netware 4.11) with EHS01 hub and 5 x ENW-2400P-2T ISA (10BaseT) network cards INW-055P-I	£449	£527.58
NM590	5 user Novell Intranetware for Small Businesses (Netware 4.11) with EHS00 hub and 2 x ENW-2400P-2T ISA (10BaseT) network cards INW-025M-I	£409	£480.58
NM600	5 user Novell Intranetware for Small Businesses (Netware 4.11) with EHS01 hub and 5 x ENW-8300-2T PCI (10BaseT, BNC) network cards INW-055P-P	£469	£551.08
IntranetWare Upgrade Licences			
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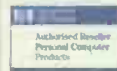


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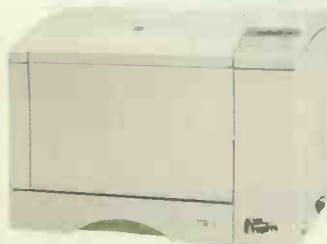


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FBIII 30-BIT COLOR



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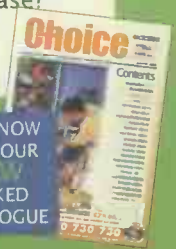
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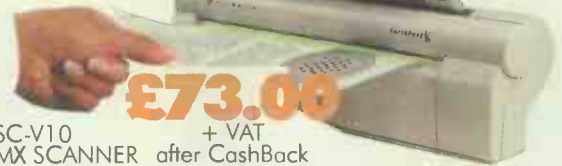
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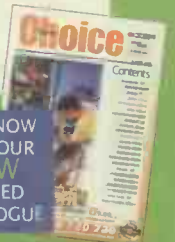
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V303	S3 VIRGE 3D EDO DRAM 4MB	£45.00	£52.88
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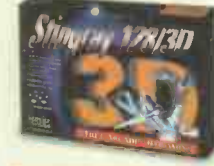
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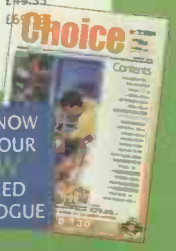
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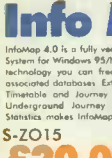
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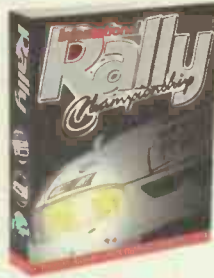
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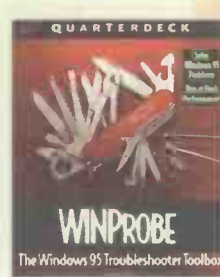


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S-L5	LOTUS ORGANISER FOR V.2	£70	£82.25
S-L15	LOTUS WORD PRO FOR 3.X	£81	£95.18
S-L20	LOTUS WORD PRO FOR WIN 95	£79	£92.83
S-R20	PLANIT BUSINESS PLAN V3	£59	£69.33
S-R25	PLANIT HEALTH AND SAFETY	£85	£99.88
S-R30	PLANIT LEGAL LETTERS	£25	£29.38
S-R35	PLANIT LETTERS	£19	£22.33
S-R190	PLANIT STAFF APPRAISER	£68	£79.90
S-R40	POWERDESK FOR WINDOWS 95	£25	£29.38
S-R275	PLANIT CD KIT	£19	£22.33
S-R280	PLANIT COMPLETE TAX KIT	£19	£22.33
S-R285	PLANIT LTD COMPANY FORMATION	£19	£22.33
S-R290	PLANIT EMPLOYERS GUIDE	£19	£22.33
S-R295	PLANIT JOB DESCRIPTIONS	£79	£92.82
S-R300	PLANIT MARKETING PLAN	£79	£92.82
S-R305	PLANIT SALES LETTERS	£19	£22.33
S-R200	PLANIT CONTRACTS AND AGREEMENTS	£88	£103.40
S-R205	PLANITSUITE	£199	£233.83
S-GSP30	INSTANT CV WRITER	£14	£16.45
S-GSP35	INSTANT FORMS	£14	£16.45

TERMS & CONDITIONS

All orders are subject to our full terms and conditions of sale which are available on request.

PLACING AN ORDER.

All prices will be charged at the published price list current at the date of order, and VAT will be charged at the current rate of 17.5%. No charge is made to a consumer for credit card payments. Goods paid for by cheque will be dispatched 7 working days after receipt of the cheque subject to bank clearance. Orders by Purchase Order are accepted by fax or post for Govt. Departments, Educational establishments, MOD, and Health Authorities, all subject to status. Goods ordered by post, telephone or fax will be priced at the current price on the day they are received.

WARRANTY

All goods carry a 12 months warranty covering mainland UK only, unless otherwise stated, effective from date of purchase. In case of faulty goods please contact our technical support line to obtain a returned Goods Authorisation (RGA) number. Goods are not sold on a trial basis, please ensure that goods ordered are compatible with your systems by checking with your manufacturer. Goods returned as faulty must be complete, where no fault is found by our technical staff a 20% handling charge will be imposed. Such arrangements may involve dealing with the manufacturer directly.

FORCE MAJEURE

Neither party shall be liable for any default due to any act of God, war, strike, lock-out, industrial action, fire or other event beyond the reasonable control of either party.

LAW

All disputes arising out of this contract shall be subject to the jurisdiction of the Courts of England and Wales.

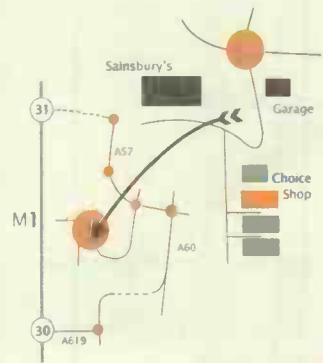
DELIVERY

If your order is received by 8pm and the item/s is/are in stock we will ship the same for next working day delivery, subject to credit card clearance, locally and excluding system failure. In the case of goods purchased by credit card, those goods can only be shipped to the credit card holders address (in order to protect you, we carry out extensive checks to ensure that your card is not being used fraudulently) and must be signed for on delivery. Next day delivery is only available in mainland UK and excludes the Scottish highlands where 2 day delivery is available. N.Ireland, Eire, Channel Islands and Scottish Isles delivery is 2-3 days. International charges are available on request. Delivery times are only estimates.

SPECIAL OFFERS

All special offers are subject to availability. Errors & omissions excepted.

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You, our customers, wanted a FREE call number, these are now available and are shown below.



We offer prices and specifications to suit all budgets with a wide range of financial packages for both business and personal use. We supply an extensive range of furniture and accessories to complement our PCs. Workstations start from only £39.00 plus VAT, our sales staff will be more than happy to advise you on the most suitable option for your needs.

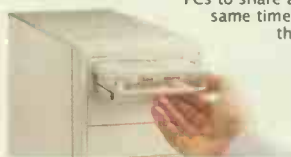
If you do not see the PC system you want - we offer the ultimate flexibility. Call

NEW THIS MONTH AN EXABYTE NEST IN EVERY EXPRESS MICRO PC



Exabyte's revolutionary Eagle Nest IDE family offers Windows 95 PCs a wide selection of cordless, portable storage peripherals. Incorporating the Eagle Nest universal storage bay, the IDE family allows multiple PCs to share a single drive. At the same time, it gives a single PC the capability to use a variety of plug in storage modules.

This innovative approach provides today's best value in PC back-up and data storage.



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ZIP + LS120 + SUPERDISK + TRAVAN 4 + HDD =
Never Ending Storage Technology (NEST)

BUY AN EXABYTE NEST READY DRIVE WHEN YOU BUY AN EXPRESS MICRO PC

Installed in your PC is an IDE Nest which accepts any Nest IDE storage peripheral, such as a tape drive, super floppy & removable hard-drive from the list below. Add Eagle Nest ready storage devices as needed & choose the best storage technology for a particular task. Need back-up? install the Eagle TR-4i

Tape Drive. Doing file transfer or archiving? plug in The Eagle Nest LS-120 or Zip. Want additional on-line storage? insert the Eagle Nest HDD.



IDE NEST READY DRIVES

TEX70	IDE TR-4 TAPE DRIVE	£199.00	£233.83
TEX80	IDE ZIP DRIVE	£129.00	£151.58
TEX90	IDE LS120 DRIVE	£129.00	£151.58
TEX100	IDE 1.4GB HARD DRIVE	£269.00	£316.08

our sales team who have over 2000 product lines for you to design your own unique specification around.

We are easy to contact by telephone, fax or Email or visiting our retail outlet here in Worksoy, details of our products and special offers are available on our Web Site. Our friendly, highly trained sales and technical support teams are available for you 7 days a week.

Express Micro manufactures a comprehensive range of award winning PCs in our modern factory, with state of the art assembly and test areas. Current factory capacity is in excess of 2000 systems per month, allied to this is our group purchasing power which enables us to pass on benefits of top quality components at the lowest possible prices.

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- Delivery within 5 working days of order (subject to clearance of funds)
- One months free Internet access with Force9 (on all systems purchased with a fax modem)
- All PC's are year 2000 compliant
- Latest technology
- Top Brand components
- FREE Exabyte Nest in all systems

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OPTION 1

- 30W Speakers
- 16X CD ROM
- 16bit Sound Card
- Joystick

OPTION 2

- 50W Speakers
- 24X CD ROM
- 16bit S/Blaster PnP Sound Card
- Joystick
- Choice of any software bundle from those below

£75.00

£88.13

£179.00

£210.33

ALL PRICES FOR M/M BUNDLES INCLUDE INSTALLATION INTO YOUR NEW PC

SOFTWARE PACKAGES

ALL BUNDLES ARE OEM VERSIONS AND COME ON CD. NO MANUALS ARE INCLUDED

YOU CHOOSE

Add any of the bundled software packages below to your purchase when you buy your machine. Simply choose the one that suits you best and tell our sales operators your choice when placing the order.

- 1 THE FAMILY BUNDLE
 - Corel Draw 4
 - Multilingual
 - Professor for Win 95
 - Great Artists
 - Plant Contracts & Agreements
 - People & The Environment

£49.00
£57.58
- 2 THE GAME PACK
 - X-Wing Vs The Fighter
 - FIFA 97
 - MDK
 - International Rally
 - DK Encyclopedia Science
 - World Natural Disasters

£59.00
£69.33
- 3 THE BUSINESS BUNDLE
 - Quicken 6
 - Wincheckit & Rescue Me
 - Plant Contracts & Agreements
 - ACT
 - Creator
 - Zoner Bundle (inc. AG AntiVirus, InfoMap, Callisto Graphics)

£49.00
£57.58

STRIVING TO BE THE BEST

VALUE ADDED EXTRAS AT UNBELIEVABLE PRICES ARE THE FOUNDATION ON WHICH EXPRESS MICRO HAS GROWN TO BE ONE OF THE LARGEST SYSTEM BUILDERS IN THE UK, QUITE SIMPLY WE CARE ABOUT THE MACHINES WE BUILD.

EVERY SYSTEM IS CAREFULLY TESTED BEFORE IT IS DISPATCHED



Stringent testing procedures and quality installation of components; ensures little problems on receipt of your PC.

- FREE Technical Support lines
- FREE Labour Upgrades
- Every system has a 12 month guarantee

In the unlikely event of a problem - we'll put you directly in contact with the technician responsible for the assembly & configuration of your system.

EVERY SYSTEM IS CAREFULLY ADVISED UPON BY OUR KNOWLEDGEABLE SALES STAFF BEFORE PURCHASE



Ensuring you buy the right system for your requirements is the goal for every Express Micro Sales Adviser. Knowledgeable, friendly staff are on hand 7 days a week to answer any questions you have.

Buying an Express Micro PC is just the start of what we see is a long term relationship

Contacting us is easy and FREE - sixty 0800 telephone lines have been installed as well as 0800 numbers for Technical Support and General Enquires.

Delivery of your system is quick and reliable - from clearance of your purchase, we'll deliver the system within 5 working days.

Support once you have purchased is ongoing. Again 0800 numbers have been installed should you have any problems. We do not see why you should pay when you need help. Indeed we also think that any future upgrades of your system should also be FREE of any labour charges whilst you still own it.

SPECIAL OFFER

Olivetti JP170
£95 + VAT
Inc. Mono Cartridge
- colour cartridge
£39+Vat extra



RAPIER ELVALUE



ADI

UPGRADE THIS SYSTEM

MEMORY		
16Mb to 32MB	£27.00	£31.73
16Mb to 64MB	£81.00	£95.18
ADI MONITOR		
15" Monitor	£40.00	£47.00
17" 5P	£216.00	£253.80
17" 5G	£306.00	£359.55
21" 5G	£689.00	£809.58
MODEMS - with 1Mth FREE Internet Access with Force9		
56K Internal Modem	£57.00	£66.98
MOUSE		
Microsoft Mouse	£15.00	£17.62

- Pentium TX Chipset Motherboard - 512K
- 16Mb EDO RAM - Exp. to 128Mb
- 1.6Gb Hard Disk Drive
- ADI 14" MicroScan E30 Colour Monitor
- 2Mb S3 64-bit DRAM Video Card
- Floppy Disk Drive 1.44Mb 3.5"
- Windows 95 Pre-loaded with discs
- 105 Key Windows Keyboard & Mouse
- Choice of Desktop or Minitower case
- 12 Months ExpressCare Warranty

Below are full system prices with CPU options

	Intel	AMD
P200MMX	£615.00	£599.00
P233MMX	£699.00	£689.00

RAPIER FAMILY98

ADI



Ref: 19-02

UPGRADE THIS SYSTEM

MEMORY		
32Mb to 64MB	£54.00	£63.45
32Mb to 128MB	£162.00	£190.35
ADI MONITOR		
15" Monitor	£40.00	£47.00
17" 5P	£216.00	£253.80
17" 5G	£306.00	£359.55
21" 5G	£689.00	£809.58
MODEMS - with 1Mth FREE Internet Access with Force9		
56K Internal Modem	£57.00	£66.98
MOUSE		
Microsoft Mouse	£15.00	£17.62

- Pentium TX Chipset Motherboard - 512K
- 32Mb EDO RAM - Exp. to 128Mb
- 3.0Gb Hard Disk Drive
- ADI 14" MicroScan E30 Monitor
- 4Mb S3Virge EDO RAM V/Card
- Floppy Disk Drive 1.44Mb 3.5"
- Windows 95 Pre-loaded
- 105 Key Windows Keyboard
- Mouse
- Choice of Desktop or Minitower
- 12 Months ExpressCare Warranty

Below are full system prices with CPU options

	Intel	AMD
P200MMX	£725.00	£709.00
P233MMX	£799.00	£799.00

RAPIER PRO98



Ref: 019-03

UPGRADE THIS SYSTEM

MEMORY		
32Mb to 64MB	£54.00	£63.45
32Mb to 128MB	£162.00	£190.35
ADI MONITOR		
15" Monitor	£40.00	£47.00
17" 5P	£216.00	£253.80
17" 5G	£306.00	£359.55
21" 5G	£689.00	£809.58
MODEMS - with 1Mth FREE Internet Access with Force9		
56K Internal Modem	£57.00	£66.98
MOUSE		
Microsoft Mouse	£15.00	£17.62

- Elite P6KFA Pentium II 440FX Motherboard
- 32Mb EDO RAM - Exp. to 128Mb
- 3.0Gb Hard Disk Drive
- ADI 14" MicroScan E30 Colour Monitor
- 4Mb S3 Virge - EDO RAM Video Card
- Floppy Disk Drive 1.44Mb 3.5"
- Windows 95 Pre-loaded with discs
- 105 Key Windows Keyboard & Mouse
- Choice of Desktop or Minitower case
- 12 Months ExpressCare Warranty

Intel		
P11 233	£725.00	£851.88
P11 266	£799.00	£938.83
P11 300	£1229.00	£1444.08

Left are full system prices with CPU options



ADI

FLEXIBLE PAYMENTS

FROM 0% TO 6 MONTHS PAYMENT HOLIDAY

CHOOSE FROM THE FOLLOWING OPTIONS TO HELP YOU BUY YOUR SYSTEM

Every Express Micro system comes with a payment option to suit every type of pocket.

- Interest Free Payment
- Spread Payment Option from 18.9% APR
- 6 months payment holiday
- Business Leasing

INTEREST FREE

Unbelievable but true - Choose any system on this page, pay a 10% deposit and spread the remaining cost over the next 6 months free of any interest payments.

LONGER TERM PAYMENTS

Spread the cost of your PC over 12, 24 or 36 months, with repayments from 18.9% APR.

6 MONTH PAYMENT HOLIDAY

Again available on all machines - pay a 10% deposit - pay nothing further for 6 months and then continue your payments over 24 or 36 months at 23.6% APR.

BUSINESS LEASING

A full range of Business Leasing Options are available through Newcourt Credit of Canada. Call us now for individual options on any of the above schemes. Written quotations are available on request and all schemes are offered subject to status.

Business Lease payments are all subject to VAT at the current rate.

JUST THE BOX? OUTSTANDING VALUE FOR MONEY



Ref: 019-04

- AMD K6 PR166 Processor
- PC Chips TX Motherboard - 512K
- 8Mb EDO RAM - Exp. to 128Mb
- 1.6Gb Hard Disk Drive
- 2Mb Graphics Card
- Floppy Disk Drive 1.44Mb 3.5"
- Midi Tower option + £20 + VAT
- Windows 95
- 12 Months Warranty

£369

£433.58 inc

- AMD K6 PR233 Processor
- PC Chips TX Motherboard - 512K
- 32Mb EDO RAM - Exp. to 128Mb
- 2.1Gb Hard Disk Drive
- Diamond Stealth 2Mb Graphics Card
- Floppy Disk Drive 1.44Mb 3.5"
- Desk Top option
- Windows 95
- 12 Months Warranty

Ref: 019-05

£579

£680.33 inc



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credit of Canada
Business
& Technology Finance



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60 SALES LINES OPEN 8AM - 8PM MONDAY TO FRIDAY & 9AM - 6PM WEEKENDS

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GREEN PAGES



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Aries **Networking Solutions**

see page
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Watford

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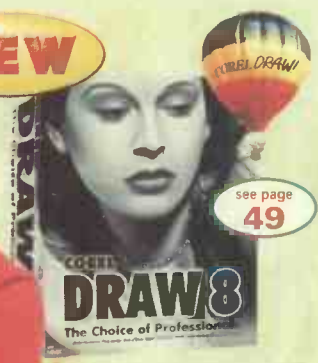
www.watford.co.uk

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24hrs, 7 days
per week.
Order On-Line
NOW!

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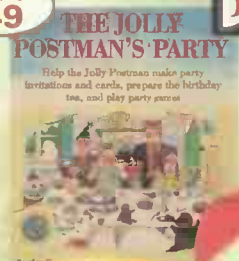


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NEW



Sales Hotline: 01582 745555

 **Watford Electronics Ltd** **Aries**

JANUARY '98

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Aries Welcome

to the January 98 issue of Watford Electronics Green Pages



Who to call, and when:

Sales	9am - 7pm / Sat 9am - 6pm	Tel: 01582 745555	Fax: 01582 488588
Customer Services	10am - 6pm / Sat 10am - 1pm	Tel: 01582 745545	Fax: 01582 745541
Technical Support	10am - 6pm / Sat 10am - 4pm	Tel: 01582 745500	Fax: 01582 745541
Technical Support Aries PC systems only	10am - 6pm	Tel: 01582 745525	Fax: 01582 745541
Credit Control	9am - 6pm	Tel: 01582 745515	Fax: 01582 488588
Switchboard	9am - 6pm	Tel: 01582 487777	Fax: 01582 488588
Corporate Sales	9am - 7pm / Sat 9am - 6pm	Tel: 01582 745566	Fax: 01582 745523

e-mail - sales@watford.co.uk

Where to find us:

Luton HQ & Retail Store (see map)
Jessa House, Finway, off Dallow Road,
Luton, LU1 1TR (4 min. from M1 Junc.11)

Watford Retail Store

250 Lower High Street, Watford, WD1 2AN
(A411 - Near Watford Springs)

(Free private customer parking
and wheelchair access available
at both sites.)



Selection of FREE CD software with every order:

OFFER 1

- ▲ Serif PagePlus v2 DTP Pack
- ▲ Personal organiser, Desk Diary Software Pack
- ▲ Tel-Me 30 days
- ▲ Introduction pack with £30 Credit
- ▲ Learn to program in Visual Basic
- ▲ SuperScope



OFFER 2

- ▲ TurboCAD - Full version Graphics CAD Pack



OFFER 3

- ▲ Mystery Prize - Call now for today's Mystery Software FREE Gift



**FREE SOFTWARE ONLY
AVAILABLE WHEN
ORDERING SO DON'T
FORGET TO ASK**

Offers valid while stocks last. Alternative CD software may be supplied at our discretion.

ORDERING FROM WATFORD ELECTRONICS



By Phone: Call us on 01582 745555. Lines are open from 8.30am - 7pm Mon-Fri and 9am - 6pm on Saturday. Payment can be made using Visa, MasterCard, Switch or Delta cards. Note: Your Credit/Debit card will not be charged until goods are despatched. All salesline calls are recorded in order to monitor and improve service levels.



By Fax: Fax us on 01582 488588, 24 hours a day. When placing a Credit Card order, please ensure you give the name on the card, credit card number, expiry date and billing address. Delivery will be made to the billing address unless stated otherwise.



By Post: Send your order and cheque (cost of goods + delivery +17.5% VAT) to the Luton office (address at foot of page 3). Please call Sales to confirm the delivery price and allow five working days for cheque clearance.



Official Orders: Orders received from the Public Sector, Educational Establishments and approved companies are welcomed. To open an account please call Corporate Sales on 01582 745566. Official Purchase orders can be faxed on 01582 745523



Carriage Charges (inc. insurance & packaging). Standard delivery is normally despatched within 24 hours from placing the order, subject to items being in stock. The delivery charge is based on weight, destination and number of items but is subject to a

minimum of £6.95, with higher charges for outside of the UK mainland and Scotland. Next Working Day delivery is optional for orders to destinations in England and Wales placed before 5.30pm, subject to stock availability with charges from £8.00. Saturday delivery is also available, please telephone for details and costs. Please note that in the event of late delivery, any refund will be at our discretion and subject to a maximum of the difference between the carriage actually paid and our Standard carriage cost. Claims for compensation or consequential loss will not be accepted.



WARRANTY & RETURNS
All goods supplied, except software, mice, joysticks and clearance offer items, carry a minimum of 12 months return to base warranty (unless stated otherwise). For certain products a warranty may entail dealing direct with the manufacturer. Watford Electronics reserves the right to repair or replace an item which becomes faulty after 14 days of the invoice date. If, within 14 days of the invoice date, but before using the product, or opening the software package, you realise that the product is unsuitable, please call Customer Services on

01582 745545 to obtain a Returns Authorisation Number and we will be happy to refund the cost of the item. Please note that in these circumstances there will be a handling fee of £10 or 15% of the cost (whichever is the higher). Where items are returned to us for repair under warranty, we do not provide goods on loan under any circumstances. Under no circumstances will Watford Electronics accept the return of opened, non-faulty software. All manufacturers 'money-back' guarantees are dealt with by the relevant manufacturers and you should contact them to arrange the return and refund.



IMPORTANT NOTICE

All items, offers, specifications and prices are correct and believed, in good faith, to be available at the time of going to press, but this may change due to circumstances beyond our control.

Any free gift offered must be requested at the time of placing your order. Goods are not sold on a trial basis. Please check the suitability of the products with your system and/or the manufacturer before ordering. Photographs of products featured in the catalogue may be for illustration and identification purposes only. Goods are sold subject to our full terms and conditions of sale which are available on request from our Customer Services on 01582 745545.



0% FINANCE OFFER 0% Finance offer. Finance available subject to status. Written details available upon request.

All trademarks are acknowledged. E&OE.

PRICE PROMISE

We will match the advertised price of our competitors (including delivery) subject to not selling below our cost price. We reserve the right not to beat prices of liquidated, end of line or OEM items and will not match prices that have been printed incorrectly. The price guarantee is only available at the time of ordering and is available for Mail Order purchases only.

FREE CD & SPECIAL OFFER SOFTWARE

CD software is subject to availability, and may be in promotional packaging (packaging may refer to boxes, manuals, etc.). Software pack shots are for illustration purposes only. Don't forget to ask for your free CD software when ordering. If no software is specified, none will be sent.

ALL PRICES QUOTED IN THIS ADVERT ARE EFFECTIVE FROM 1.12.97. Some specifications may change after 31.12.97.

Some prices may change due to circumstances beyond our control. Whilst we endeavour to provide pricing which is correct at the time of going to press, please confirm prices at the time of ordering.

These statements do not affect and are in addition to the customers statutory rights. **Prices exclude carriage and VAT @ 17.5% except where shown.**

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XMAS SPECIAL BUY NOW PAY NOTHING UNTIL JUNE 1998

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0%*
Interest Free Credit
- No Deposit
See Payment Option 2

Aries POWER MEDIA '97 PC

Free Colour Printer, Modem & Internet Connection*

Ideal PC System for Education, Family and Small Business

6 YEAR
UNIQUE WARRANTY

FREE
with Aries Power Media '97 PC system

Colour Inkjet Printer
Olivetti/Triumph Adler

3 Years Warranty - 1st year On-Site Swap Out

While stocks last




NO DEPOSIT
3 Methods of Payment
Example - Cyrix PR200+ System

- 1) Pay with order**
Pay the whole amount by credit card/cheque. Total Price £859 + £20 carriage & VAT = £1032.83.
- 2) 0% - 6 Months Interest Free Credit***
No payments for 6 months, and then pay the difference of £1032.83. Total Price = £1032.83 inc VAT. Interest Free Credit. APR 0%.
- 3) 3 Years Credit* - APR 17.9%**
Pay £36.61 per month for 3 years (36 months). Total Price = £1317.76 inc VAT. APR 17.9%.

ARIES POWER MEDIA '97 PC

- ▲ Intel or Cyrix Processor
- ▲ 32Mb RAM
- ▲ Bios is year 2000 compliant
- ▲ 3.2Gb 11ms Hard Disk Drive
- ▲ 14" SuperVGA Low Radiation 1024x768 0.28mm Digital Colour Monitor
- ▲ 24X MAX Speed CD ROM Drive
- ▲ PC Joystick
- ▲ 16 bit 3D SoundBlaster Compatible sound card
- ▲ HiFi Mains Powered Speakers (not shown)
- ▲ 64 bit PCI Fast Graphics Accelerator card with 2Mb RAM
- ▲ Mini Tower Case + PSU (CE appr.)
- ▲ 1.44Mb 3.5" Drive
- ▲ IDE Controller Card
- ▲ Aries 105 key Win 95 Keyboard
- ▲ Full Support & 6 Year Warranty - 1st year return to base, parts & labour - then 5 years labour only
- ▲ Microsoft Compatible Mouse
- ▲ Microsoft Windows 95
- ▲ CD Software Bundle (see details opposite)
- ▲ FREE Internet Starter Kit - 14.4K Fax/Modem & 30 day Internet access**
- ▲ Optional upgrade to K56 - 5600 VOICE Internal/Fax/Modem for £49.95 (valid only at time of purchase)
- ▲ FREE Olivetti/TA Colour Inkjet Printer

SOFTWARE BUNDLE PACK*

Lotus SmartSuite 97
Consisting of:
▲ Lotus 1+2+3
▲ Lotus Approach
▲ Lotus ScreenCam
▲ Lotus WordPro
▲ Lotus Freelance
▲ Lotus Organizer

Plus Compton's Multimedia CDs
Consisting of:
▲ Encyclopedia 97
▲ World Atlas 97
▲ Genius of Edison
▲ Interactive Cookbook
▲ Battles of the World

Plus the following selected titles
▲ Luckmans Zip™
▲ Luckmans Web Edit Pro
▲ Bodyworks 5
▲ Luckmans Uninstaller
▲ Europress Treasure Island
▲ Luckmans Best of the Web



Option 2 0% APR
Option 3 17.9% APR
Finance is available subject to status. Be sure you can afford the payments prior to entering into an agreement. Written details available upon request.

Internet connection for 30 days via Pipex/AOL. While stocks last (Special Promotion). Some items may be replaced with equivalent or imitative software. Offer while stocks last.

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FROM
£899

Cyrix M2 P200MX
£939
£1103.33 inc. VAT

Cyrix M2 P233MX
£999
£1173.83 inc. VAT

Intel P166 MMX
£899
£1056.33 inc. VAT

Intel P200 MMX
£969
£1138.58 inc. VAT

Intel P233 MMX
£1029
£1209.07 inc. VAT

Sales Hotline: 01582 745577

FAX: 01582 488588

FOR ORDERING INFORMATION SEE PAGE 2

Prices exclude carriage & VAT @ 17.5% except where shown.



Aries AWARD WINNING,

All ARIES PCs Include:

- ▲ 1.44Mb 3.5" Drive
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- ▲ Enhanced EPP/ECP Parallel Ports
- ▲ Dual Hi-Speed Serial Ports
- ▲ Aries 105 key Win 95 Keyboard
- ▲ MS Compatible Mouse
- ▲ MS Windows 95

For Complete Network Solutions See Pgs 38-39

NO DEPOSIT FINANCE
(APR 17.9%)

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"For speed demons, we recommend Watford's Aries Perfecta ELS. The dependable 3Com Etherlink rounds off a fairly impressive server from Watford"
PC Advisor, Nov '97



"Want a well specified PC for less than £1,000.00 Inc VAT? The Aries Perfecta fits the bill"
PC Pro, Nov '97



"The fastest PC on test is also remarkably well rounded, displays on a damned fine monitor driven by the best video card going"
Computer Buyer, Oct '97



"The Aries PC... it does leave you wanting for ver ver, which is no mean feat at this price"
PC Pro, July '97



"A well specified system, at a competitive price"
Computer Shopper, June '97



"A well thought out machine... lots of software nicely put together"
PCW, July '97

Full Network Services and Installation MS Windows NT & Novell Netware
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MS Office 97 Professional Offer

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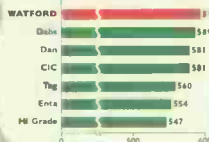


"If you buy from Watford you won't be disappointed The Aries flies along; it's the fastest machine in the test" Dec 97

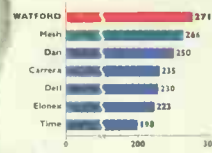
PC Direct

"At the time of writing, the Aries TX97 is the fastest Pentium we have tested, with a Winstone rating of 50.5."

Computer Buyer Labs Sept 97



What PC? Dec 97



ARIES SYSTEMS SOFTWARE BUNDLE PACK

All ARIES Systems* Include:

Lotus SmartSuite 97

Consisting of:

- ▲ Lotus 1-2-3
- ▲ Lotus Approach
- ▲ Lotus ScreenCam
- ▲ Lotus WordPro
- ▲ Lotus Freelance
- ▲ Lotus Organizer

Plus Compton's Multimedia CDs

Consisting of:

- ▲ Encyclopedia 97
- ▲ World Atlas 97
- ▲ Genius of Edison
- ▲ Interactive Cookbook
- ▲ Battles of the World

* Except where specified otherwise
† When purchased with any PC on these 2 pages



ANY SYSTEM - Made to Measure... customised systems available on request

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Internal Iomega 100 Mb ZIP Drive



£76

£89.30 Inc VAT



Picture for illustrative purposes only

When purchased with any Aries PC advertised on these pages



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- ▲ Intel or Cyrix Processor
- ▲ 16Mb EDO RAM expandable to 128Mb
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- ▲ Bios is year 2000 compliant
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- ▲ Multimedia Ready - See below
- ▲ Software Bundle Pack (see details page opposite)
- ▲ 6 YEAR WARRANTY includes 1st year On-Site parts & labour, 5 years return to base labour only
- ▲ Mini Tower Case + PSU (CE approved)

Multimedia Specification

- ▲ 24X MAX Speed CD ROM Drive
- ▲ 16 bit Stereo Sound Card with Enhanced OPL3 Stereo Music Synthesiser and CD Quality Audio
- ▲ 25W Mains Powered Speakers

ARIES PERFECTA VX '97

WINNER - TOP 50 Computer Buyer-Oct 97

FROM £829

- ▲ Intel Advance Triton II VX chipset PCI Motherboard
- ▲ Intel Pentium Processor
- ▲ 16Mb EDO RAM expandable to 128Mb
- ▲ 512K Pipeline Burst Cache Memory
- ▲ Bios is year 2000 compliant
- ▲ 3.2Gb 11ms Hard Disk Drive
- ▲ Matrox Mystique 2Mb SGRAM Video Card
- ▲ 15" SuperVGA Low Radiation 1280x1024 NI 0.28mm Digital Colour Monitor (12 months Swap-Out Warranty)
- ▲ Aries K56 56600 VOICE Internal Fax/Modem with 30 days Internet Access
- ▲ Multimedia Ready - See below
- ▲ Software Bundle Pack (see details page opposite)
- ▲ 6 YEAR WARRANTY Includes 1st year On-Site parts & labour, 5 years return to base labour only
- ▲ Mini Tower Case + PSU (CE approved)

Multimedia Specification

- ▲ 24X MAX Speed CD ROM Drive
- ▲ Creative Labs SoundBlaster AWE64 sound card with Enhanced OPL3 Stereo Music Synthesiser and CD Quality Audio
- ▲ 80W Mains Powered Speakers

PERFORMANCE ★★★★★
Processor, hard disk and graphics.
Computer Buyer October '97

ARIES PROFESSIONAL SE

WINNER - VALUE AWARD PC PRO Labs, July 97

FROM £799

- ▲ Intel Advance Triton II TX chipset PCI Motherboard
- ▲ Intel Pentium Processor
- ▲ Bios is year 2000 compliant
- ▲ 32Mb EDO RAM expandable to 128Mb
- ▲ 512K Pipeline Burst Cache Memory
- ▲ 2.1Gb 10.5ms Hard Disk Drive
- ▲ Matrox Mystique 2Mb SGRAM Video Card
- ▲ 15" SuperVGA Low Radiation 1280x1024 NI 0.28mm Digital Colour Monitor (12 months Swap-Out Warranty)
- ▲ Multimedia Ready - See below
- ▲ Software Bundle Pack (see details page opposite)
- ▲ 6 YEAR WARRANTY includes 1st year On-Site parts & labour, 5 years return to base labour only
- ▲ Mini Tower Case + PSU (CE approved)

Multimedia Specification

- ▲ 24X MAX Speed CD ROM Drive
- ▲ Creative Labs SoundBlaster AWE64 sound card with Enhanced OPL3 Stereo Music Synthesiser and CD Quality Audio
- ▲ 80W Mains Powered Speakers

CHOOSE YOUR OWN PROCESSOR

XTMAS SPECIAL	CYRIX M2 P200MX 200MHz Processor	CYRIX M2 P233MX 233MHz Processor
	£639 £750.83 inc. VAT	£729 £856.58 inc. VAT
	EasyPlan Finance (APR:11.9%) Monthly Payment £27	EasyPlan Finance (APR:11.9%) Monthly Payment £30
	INTEL P166MMX 166MHz Processor	INTEL P200MMX 200MHz Processor
	£599.99 £703.83 inc. VAT	£669 £786.08 inc. VAT
	EasyPlan Finance (APR:11.9%) Monthly Payment £25	EasyPlan Finance (APR:11.9%) Monthly Payment £30
	INTEL P233MMX 233MHz Processor	
	£759 £891.83 inc. VAT	
	EasyPlan Finance (APR:11.9%) Monthly Payment £34	EasyPlan Finance (APR:11.9%) Monthly Payment £34

CHOOSE YOUR OWN PROCESSOR

CYRIX M2 P166MX 166MHz Processor	CYRIX M2 P200MX 200MHz Processor	CYRIX M2 P233MX 233MHz Processor
£829 £974.08 inc. VAT	£909 £1068.08 inc. VAT	£969 £1138.58 inc. VAT
EasyPlan Finance (APR:11.9%) Monthly Payment £32	EasyPlan Finance (APR:11.9%) Monthly Payment £35	EasyPlan Finance (APR:11.9%) Monthly Payment £37
INTEL P166MMX 166MHz Processor	INTEL P200MMX 200MHz Processor	INTEL P233MMX 233MHz Processor
£869 £1021.08 inc. VAT	£939 £1103.33 inc. VAT	£999 £1173.88 inc. VAT
EasyPlan Finance (APR:11.9%) Monthly Payment £34	EasyPlan Finance (APR:11.9%) Monthly Payment £36	EasyPlan Finance (APR:11.9%) Monthly Payment £39

CHOOSE YOUR OWN PROCESSOR

CYRIX M2 P166MX 166MHz Processor	CYRIX M2 P200MX 200MHz Processor	CYRIX M2 P233MX 233MHz Processor
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EasyPlan Finance (APR:11.9%) Monthly Payment £34	EasyPlan Finance (APR:11.9%) Monthly Payment £34	EasyPlan Finance (APR:11.9%) Monthly Payment £36
INTEL P166MMX 166MHz Processor	INTEL P200MMX 200MHz Processor	INTEL P233MMX 233MHz Processor
£839 £985.83 inc. VAT	£909 £1068.08 inc. VAT	£969 £1138.58 inc. VAT
EasyPlan Finance (APR:11.9%) Monthly Payment £33	EasyPlan Finance (APR:11.9%) Monthly Payment £35	EasyPlan Finance (APR:11.9%) Monthly Payment £37

ARIES PRO MEDIA TX '97

FROM £899

- ▲ Intel Advance Triton II TX chipset PCI Motherboard
- ▲ Intel/AMD Processors
- ▲ 32Mb EDO RAM expandable to 128Mb
- ▲ 512K Pipeline Burst Cache Memory
- ▲ Bios is year 2000 compliant
- ▲ 3.2Gb 11ms Hard Disk Drive
- ▲ Matrox Mystique 2Mb SGRAM Video Card
- ▲ 15" SuperVGA Low Radiation 1024x768 0.28mm Digital Colour Monitor (12 months Swap-Out Warranty)
- ▲ Aries K56 56600 VOICE Internal Fax/Modem with 30 days Internet Access
- ▲ Multimedia Ready - See below
- ▲ Software Bundle Pack (see details above)
- ▲ 6 YEAR WARRANTY includes 1st year On-Site parts & labour, 5 years return to base, labour only
- ▲ Mini Tower Case + PSU (CE approved)

Multimedia Specification

- ▲ 24X MAX Twenty Four Speed CD ROM Drive
- ▲ Creative Labs SoundBlaster AWE64 sound card with Enhanced OPL3 Stereo Music Synthesiser and CD Quality Audio
- ▲ 80W Mains Powered Speakers

ARIES PERFECTA-II '97

WINNER - RECOMMENDED AWARD WHAT PC?, Dec 97

FROM £1199

- ▲ Intel Advance Triton II 440FX chipset PCI, and Intel Slot One for processor upgrades - ATX
- ▲ Intel Pentium II Processor
- ▲ Bios is year 2000 compliant
- ▲ 32Mb EDO RAM expandable to 256Mb
- ▲ 512K Pipeline Burst Cache Memory
- ▲ 3.2Gb EIDE Hard Disk Drive
- ▲ New Diamond Viper 330 4Mb Graphics Card
- ▲ 15" SuperVGA Low Radiation 1024x768 0.28mm Digital Colour Monitor
- ▲ Multimedia Ready - See below
- ▲ Software Bundle Pack (see details above)
- ▲ 6 YEAR WARRANTY Includes 1st year On-Site parts & labour 5 years return to base, labour only
- ▲ Midi Tower ATX Case + PSU (CE approved)

Multimedia Specification

- ▲ 24X MAX Twenty Four Speed CD ROM Drive
- ▲ Creative Labs SoundBlaster Compatible 16-bit 3D sound card
- ▲ 80W Mains Powered Speakers

ARIES PERFORMA-II '97

WINNER - RECOMMENDED AWARD WHAT PC?, Dec 97

FROM £1699

- ▲ NEW - Intel 440LX - AGP chipset and Intel Slot One for processor upgrades - ATX
- ▲ Intel Pentium II Processor
- ▲ 64Mb SDRAM expandable to 384Mb
- ▲ 512K Pipeline Burst Cache Memory
- ▲ Bios is year 2000 compliant
- ▲ 6.4Gb Ultra ATA, DMA/33 10ms Hard Disk Drive
- ▲ Iomega 100Mb ZIP DRIVE - Internal
- ▲ New Diamond GL100 8Mb 128bit Fire Pro AGP Graphics Card
- ▲ 17" SuperVGA Low Radiation 1600x1200 0.28mm Digital Colour Monitor
- ▲ Aries K56 56600 VOICE Internal Fax/Modem with 30 days Internet Access
- ▲ Multimedia Ready - See below
- ▲ Software Bundle Pack (see details above)
- ▲ 6 YEAR WARRANTY includes 1st year On-Site parts & labour, 5 years return to base labour only
- ▲ Midi Tower ATX Case + PSU (CE approved)

Multimedia Specification

- ▲ 24X MAX Twenty Four Speed CD ROM Drive
- ▲ Creative Labs SoundBlaster AWE64 sound card with Enhanced OPL3 Stereo Music Synthesiser and CD Quality Audio
- ▲ 80W Mains Powered Speakers

CHOOSE YOUR OWN PROCESSOR

AMD K6-166 MMX Enabled Processor	AMD K6-200 MMX Enabled Processor	AMD K6-233 MMX Enabled Processor
£899 £1056.33 inc. VAT	£959 £1126.82 inc. VAT	£1029 £1209.08 inc. VAT
EasyPlan Finance (APR:11.9%) Monthly Payment £35	EasyPlan Finance (APR:11.9%) Monthly Payment £37	EasyPlan Finance (APR:11.9%) Monthly Payment £40
INTEL P166MMX 166MHz Processor	INTEL P200MMX 200MHz Processor	INTEL P233MMX 233MHz Processor
£929 £1091.58 inc. VAT	£999 £1173.83 inc. VAT	£1059 £1244.33 inc. VAT
EasyPlan Finance (APR:11.9%) Monthly Payment £36	EasyPlan Finance (APR:11.9%) Monthly Payment £39	EasyPlan Finance (APR:11.9%) Monthly Payment £41

CHOOSE YOUR OWN PROCESSOR

INTEL PENTIUM II 233 233MHz Processor	INTEL PENTIUM II 266 266MHz Processor	INTEL PENTIUM II 300 300MHz Processor
£1199 £1408.83 inc. VAT	£1299 £1526.33 inc. VAT	£1439 £1690.82 inc. VAT
EasyPlan Finance (APR:11.9%) Monthly Payment £46	EasyPlan Finance (APR:11.9%) Monthly Payment £50	EasyPlan Finance (APR:11.9%) Monthly Payment £55
PENTIUM II 333 333MHz Processor	NO DEPOSIT FINANCE Finance calculation example: Cash Price: £999 + Carriage & VAT = £1187.33 = 36 equal monthly payments of £42.48 - Total Price = £1529.28. Finance is available subject to status. Be sure you can afford the payments prior to entering into an agreement.	
£1499 £1761.33 inc. VAT	APR 17.9%	
EasyPlan Finance (APR:11.9%) Monthly Payment £57	EasyPlan Finance (APR:11.9%) Monthly Payment £76	

CHOOSE YOUR OWN PROCESSOR

INTEL PENTIUM II 233 233MHz Processor	INTEL PENTIUM II 266 266MHz Processor	INTEL PENTIUM II 300 300MHz Processor
£1699 £1996.33 inc. VAT	£1799 £2113.83 inc. VAT	£1939 £2278.32 inc. VAT
EasyPlan Finance (APR:11.9%) Monthly Payment £65	EasyPlan Finance (APR:11.9%) Monthly Payment £69	EasyPlan Finance (APR:11.9%) Monthly Payment £73
PENTIUM II 333 333MHz Processor	Ultra ATA Hard Disk The new Ultra ATA interface offers the fastest IDE hard disk performance yet. ▲ Quantum Fireball ST 6.4Gb Ultra ATA hard disk ▲ 10ms average access time ▲ Up to 33Mb/sec burst data transfer rate (up to 50% faster than standard EIDE).	
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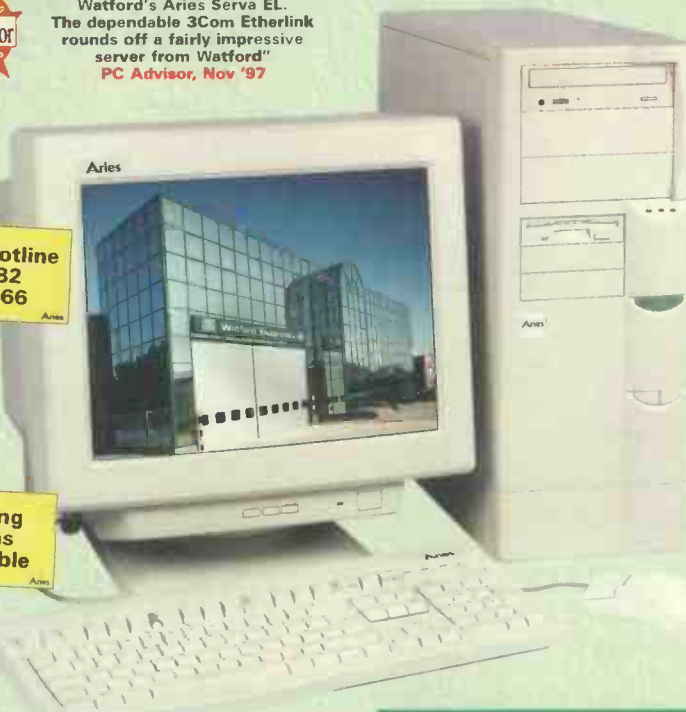
Aries Networking Solutions



"For speed demons, we recommend Watford's Aries Serva EL. The dependable 3Com Etherlink rounds off a fairly impressive server from Watford"
PC Advisor, Nov '97

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FACT: Over 60% of businesses that suffer from major data loss go bankrupt in the following year!

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OPERATING SYSTEMS

MS Windows NT Server

MS BackOffice Small Business Server contains the essential services that small businesses need to easily run their operations and communicate with customers and partners in new and more efficient ways. Designed for businesses with up to 25 PCs, Small Business Server addresses the cost and complexity issues that have blocked small businesses from tapping the power of the Internet and intranet computing previously.

MS BackOffice Small Business Server Includes:

- ▲ MS Windows NT Server v4.0
- ▲ MS Outlook
- ▲ MS Exchange Server v5.0 including
- ▲ MS SQL Server v6.5
- ▲ MS Internet Information Server

Product	Code	Price	Inc. VAT
MS BackOffice Small Business Server + 5 Clients	18796	£925.00	£1086.87
MS BackOffice Small Business Server + 25 Clients	18787	£1525.00	£1791.87
Additional Client Licences (max 25 per server)	18798	£195.00	£229.13

Novell IntraNetWare

Novell NetWare is the ideal platform for your business, whether you are just starting out or have hundreds of users. Providing all the features you would expect from a product of this calibre, including level C2 security, fault tolerance, management facilities and lots more. Also included are Multiprotocol Router, WAN extensions, FTP services, NetWare Webserver and Netscape Navigator.

Product	Code	Price	Inc. VAT
IntraNetWare 5 User	17791	£450.00	£528.75
IntraNetWare 10 User	17799	£850.00	£998.75
IntraNetWare 25 User	17800	£1405.00	£1650.87
IntraNetWare 50 User	17801	£2000.00	£2350.00
IntraNetWare 100 User	17802	£2820.00	£3313.50
IntraNetWare - Additional 10 Users	17819	£535.00	£628.62
IntraNetWare - Additional 25 Users	17792	£1220.00	£1433.50
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SFT III Options available for total fault tolerance. Call for a competitive quotation.

SCO OpenServer

SCO OpenServer is the next generation of server operating systems that make it easier to build powerful business critical solutions. It is no doubt the most robust Unix environment available for Intel platforms, and together with its user friendly GUI environment make SCO the perfect choice. The latest version also has built in Internet support, security to C2 level and full interoperability with other networking systems such as IPX/SPX, NFS and MS Windows 95/NT.

Product	Code	Price	Inc. VAT
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SCO OpenServer v5.0.4 Development Tools	14284	£445.95	£523.49
SCO OpenServer v5.0.4 Additional 10 Users	14571	£284.95	£334.82
SCO OpenServer v5.0.4 Additional 25 Users	14572	£606.95	£713.16

Other SCO products available, please call for details and pricing.

Aries Serva EL

- ▲ Intel Advance Triton TX chipset PCI Motherboard
- ▲ Intel P233MMX - 233Mhz Processor
- ▲ 512K Pipeline Burst Cache Memory
- ▲ Bios is year 2000 compliant
- ▲ 32Mb EDO RAM expandable to 128Mb
- ▲ 3.2Gb 11ms Hard Disk Drive
- ▲ 14" Aries SuperVGA Low Radiation Colour Monitor
- ▲ 16X IDE CD ROM Drive
- ▲ 2Mb PCI Video Accelerator Card
- ▲ 3.5" 1.44Mb Floppy Disk Drive
- ▲ Aries Advanced 105 Key Keyboard
- ▲ 3 Button Microsoft compatible Mouse
- ▲ IEC Mains Power Lead
- ▲ Seagate 3.2Gb Travan Int. Backup unit
- ▲ 12 months RTB warranty parts and labour
- ▲ Etherlink III 3C905B UTP/ISA Combo
- ▲ Midi-Tower case + PSU (CE approved)

INTEL P233MMX
233Mhz PROCESSOR

£999

£1173.83 inc. VAT

Aries Serva ML

- ▲ Intel Advance Triton II 440FX chipset PCI - Slot one -ATX
- ▲ Intel Pentium II 233 - 233Mhz Processor
- ▲ 512K Pipeline Burst Cache Memory
- ▲ Bios is year 2000 compliant
- ▲ 32Mb EDO RAM expandable to 128Mb
- ▲ 4.3Gb SCSI-II 10ms Hard Disk Drive
- ▲ 2940AU PCI SCSI Controller
- ▲ 14" Aries SuperVGA Low Radiation Colour Monitor
- ▲ 16X SCSI CD ROM Drive
- ▲ 2Mb PCI Video Accelerator Card
- ▲ 3.5" 1.44Mb Floppy Disk Drive
- ▲ Aries Advanced 105 Key Keyboard
- ▲ 3 Button Microsoft compatible Mouse
- ▲ IEC Mains Power Lead
- ▲ HP Surestore 5000I 5.0Gb Int. SCSI Backup unit
- ▲ 12 months RTB warranty parts and labour
- ▲ Etherlink III 3C905B UTP/ISA Combo
- ▲ Midi-Tower case + PSU (CE approved)

INTEL PENTIUM II
233Mhz PROCESSOR

£1799

£2113.83 inc. VAT

Aries Serva XL

- ▲ Intel Advance Triton II LX chipset PCI - Slot one -ATX
- ▲ Intel Pentium II 300 - 300Mhz Processor
- ▲ 512K Pipeline Burst Cache Memory
- ▲ 64Mb SDRAM 3.3v expandable to 256Mb
- ▲ Bios is year 2000 compliant
- ▲ 2 x 4.3Gb SCSI-II 10ms Hard Disk Drive
- ▲ 2940AU PCI SCSI Controller
- ▲ 14" Aries SuperVGA Low Radiation Colour Monitor
- ▲ 16X SCSI CD ROM Drive
- ▲ 2Mb PCI Video Accelerator Card
- ▲ 3.5" 1.44Mb Floppy Disk Drive
- ▲ Aries Advanced 105 Key Keyboard
- ▲ 3 Button Microsoft compatible Mouse
- ▲ IEC Mains Power Lead
- ▲ SONY STD-5000 4Gb Dat Int. SCSI Backup unit
- ▲ 12 months RTB warranty parts and labour
- ▲ Intel Etherexpress Pro 100 server card - with the NEW i960 controller
- ▲ Midi-Tower case + PSU (CE approved)

INTEL PENTIUM II
300Mhz PROCESSOR

£2699

£3171.33 inc. VAT



Watford Electronics

www.watford.co.uk

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- | | |
|--|--|
| <p>Processor</p> <ul style="list-style-type: none"> ▲ Intel Low Powered Pentium Processor ▲ Intel Pentium Processors upgradable to 200MHz MMX using ZIF socket <p>Memory</p> <ul style="list-style-type: none"> ▲ 16Mb RAM on-board expandable to 48Mb ▲ 256K Level 2 Write-Back Cache, Pipeline Burst SRAM <p>Storage</p> <ul style="list-style-type: none"> ▲ 1.4Gb Removable Hard Disk Drive ▲ 1.44Mb 3.5" Floppy Drive <p>Multimedia - CD ROM Drive/Sound System</p> <ul style="list-style-type: none"> ▲ 16X Speed CD ROM Drive ▲ 16 bit Stereo Sound System ▲ Sound Blaster, Sound Blaster Pro and MS Sound System - Windows compatible ▲ Built-in Microphone ▲ Built-in Stereo Speakers <p>Display/Video System</p> <ul style="list-style-type: none"> ▲ 12.1" Super VGA 800 x 600 - 65,000 Colours Dual Scan DSTN or Active Matrix TFT LCD Screen ▲ Supports up to 1024 x 768 - 256 Colours mode on external monitor ▲ Simultaneous display of both screen & external video ▲ Windows GUI accelerator ▲ Full power management ▲ PCI Bus Colour Graphics Interface with 2Mb Video RAM ▲ Software MPEG drivers <p>Pointing Device/Keyboard</p> <ul style="list-style-type: none"> ▲ Latest technology TouchPad with ALPS drivers ▲ Both external PS/2 mouse (optional) and integral TouchPad can work concurrently ▲ Windows 95 86 Key Keyboard | <p>I/O Ports</p> <ul style="list-style-type: none"> ▲ Infra Red Communication Port - IrDA standard ▲ Built-in TV Port ▲ MIDI/Game Port ▲ PCMCIA Slot - 2 x Type II OR 1 x Type II and 1 x Type III ▲ 16550 UART HI-Speed Serial Port ▲ EPP/ECP HI-Speed Parallel Port ▲ External auto-sensed PS/2 keyboard/mouse port ▲ Jacks for Stereo Line In/Line Out & Ext. Microphone <p>Power Management</p> <ul style="list-style-type: none"> ▲ Multiple-mode power management scheme ▲ APM 1.1 support ▲ Static Suspend ▲ Suspend to HDD ▲ Modern ring and any key triggered resume ▲ Battery gas gauge support ▲ Suspend or warning on low battery <p>Security</p> <ul style="list-style-type: none"> ▲ Kensington Security Cable Lock Anchor ▲ MASTER Password support ▲ Password protection for Set-Up entry screen <p>Notebooks Supplied with:</p> <ul style="list-style-type: none"> ▲ Carrying case ▲ AC/DC Adaptor <p>Optional</p> <ul style="list-style-type: none"> ▲ Microsoft Windows 95 (with manual/CD) ▲ Optional MS DOS v6.22/Windows v3.11 ▲ Optional MS NT Workstation upgrade <p>Weight & Dimensions</p> <ul style="list-style-type: none"> ▲ 3.2Kg/7lbs approx ▲ 299(w) x 230(d) x 56(h)mm |
|--|--|



DESCRIPTION	PRICE	FINANCE PER WEEK FROM	DESCRIPTION	PRICE	FINANCE PER WEEK FROM
Dual Scan 12.1" Colour Display	£1149	£10.77	TFT Active Matrix 12.1" Colour Display	£1499	£14.06
	£1350.08 inc. VAT			£1761.33 inc. VAT	
				£1239	£11.62
				£1455.83 inc. VAT	
				£1589	£14.90
				£1867.08 inc. VAT	

Corporate Sales Fax Number 01582 745523

All MediaBook Notebooks are supplied with an AC Adaptor, user guide, drive disks and a Carrying Case. The Notebook weighs approximately 3.2Kg and is 299mm(w) x 230mm(d) x 56mm(h).
 3 years warranty consists of 12 months Return to Base and 2 years Return to Base Labour only warranty.

UPGRADE OPTIONS

	Price	Inc VAT
16Mb to 32Mb RAM Upgrade	£99	£116.33
16Mb to 48Mb RAM Upgrade	£179	£210.33
Upgrade 1.4Gb to 2.1Gb Hard Disk	£129	£151.58
Upgrade 1.4Gb to 3.2Gb Hard Disk	£269	£316.08
PCMCIA V34 33,600 Fax/Modem	£99	£116.33
PCMCIA GSM Fax/Modem* 33600	£149	£175.08
PCMCIA Ethernet Card (BNC/UTP)	£69	£81.08
Microsoft Windows 95	£56	£65.80
Removable HDD Kit	£35	£41.13
NiMH Battery Pack	£85	£99.98
Lithium Ion Battery Pack	£125	£146.88
Upgrade NiMH to Lith Ion Battery	£44	£51.70
Additional Power Charge/Adaptor	£65	£76.38
External Charger Unit	£45	£52.88
Car Lighter Adaptor	£48	£56.40
Seculock - Kensington Lock System	£45	£52.88

*Requires telephone adaptor

Aries MediaBook® 800

BIG Screen TFT Notebook Computer

- ▲ 32 Mb RAM
- ▲ 3.1 Gb Hard Disk
- ▲ 13.3" XGA 1024 x 768 TFT Screen
- ▲ PCI and Cardbus Architecture



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FAX: 01582 488588

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PHILIPS VELO 1

Now you can run Windows® anywhere and everywhere. The Velo 1 handheld PC runs Microsoft® Windows® CE and "pocket" versions of Windows applications you already know, like Word™ and Excel™. Besides that, it has everything you need to be into corporate e-mail, send faxes and browse the Internet. And that is just the beginning. You can organise your files, track your schedule, record notes and yes, even play Solitaire... in places you never could before.

- ▲ High-performance 3.3V 32-bit MIPS R3910 RISC processor @ 36.864 MHz. Designed for fast access and high throughput of Windows CE applications.
- ▲ Fast on-board memory. Standard 4MB EDO DRAM that can be easily expanded, and 8MB Fast Page Mode ROM.
- ▲ Quick Start Keys (10). You can jump-start all your applications with the touch of a key on the Velo 1 61-key QWERTY keyboard.
- ▲ Velo Voice Memo. You can record up to 16 minutes (per MB of storage) of thoughts
- ▲ Telephone line connector. V.32 bis/ter data/fax modem to fax, e-mail or access the World Wide Web.
- ▲ GSM connection. Make a connection to your GSM phone and enter the world of wireless communication.
- ▲ High-speed I/O. RS-232 serial port up to 230 Kps., for easy synchronisation with your PC.
- ▲ IrDA infrared transceiver (up to 115 Kbps). You can send files or messages to other handheld PCs or IrDA-compatible devices.
- ▲ Backlit, non-glare touchscreen display. Grayscale LCD (480x240 pixels, .24mm dot pitch, .23mm dot size) & on-demand backlighting, complete with a contrast dial.
- ▲ International Keyboard. Enter accented characters and other special characters in an easy way.
- ▲ Audio speaker. For .wav file playback.
- ▲ Miniature Card slots. Two industry-standard expansion slots for more DRAM, Flash memory or even ROM software upgrades.
- ▲ Room for Type II PC Card. Simply add an optional Type II PC Card V-module for global positioning systems or custom applications.
- ▲ Power (battery compartment). Runs for about 15 hours on two AA batteries or a NiMH rechargeable battery pack.



Built-in Software

Microsoft Pocket Word, Pocket Excel and Pocket Internet Explorer, HPC explorer, Fax, World Clock, Solitaire, Calculator, Contacts, Tasks and Calendar. Microsoft Schedule + 7.0a. Inbox, complete with Microburst Virtual Courier™, Personal Edition, ties you directly into cc:Mail or MS Mail. Allpen® Mobile Forms Database.

Supplied Accessories

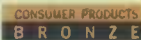
Telephone line Connectivity Kit, AC adapter, two AA batteries, CR2032 lithium backup battery, stylus, 9-to-25 pin adapter, pouch and the Velo Dock.

Optional Velo 1 Accessories

2MB DRAM Miniature Card, 4MB DRAM Miniature Card, 2MB Flash memory Miniature Card, 4MB Flash memory Miniature Card, Type II PC Card V-Module, Velo Dock, Velo to PC Travelling Cable, NiMH Rechargeable Battery Pack, Wireless Connectivity Kit, Travelling AC adapter and the Velo Carrying case.

Warranty

One years parts and labour. 24 hour replacement within Europe.



From
£499
 inc. VAT £586.33
 18691

Product	Price	Inc. VAT
Velo Dock	£69.99	£82.24
4Mb DRAM	£179.99	£211.49
4Mb Flash	£169.99	£234.99
R Batteries	£39.99	£46.99
V-Module	£99.99	£117.49
8Mb DRAM	£299.99	£352.49
Carry Case	£49.99	£58.74
UK/AC Adaptor	£34.99	£41.12



The New HP 300 Series Palmtop PCs

From only £395+VAT



Hewlett-Packard & Microsoft have jointly developed the smallest PC that fits in the palm of your hand - and yet it has a full-width screen, just like a PC.



New Wide Screen

- ▲ **Familiarity of Microsoft Windows 95 & NT 4.0**
Microsoft Windows CE is designed with the look and feel of Microsoft Windows 95 and Windows NT 4.0.
- ▲ **Stay in Touch**
Access the latest up-to-the-minute information via fax, email, worldwide web from the HP 300 Series palmtop PCs, wherever you may be.
- ▲ **Get in Synch!**
Fast and easy synchronization between your palmtop PC and your desktop PC.

- ▲ **Expandability**
The HP 300 Series palmtop PCs are designed to allow for easy software & hardware upgradeability.
- ▲ **Comfortable Keyboard**
The keyboard is ergonomically designed with a wide spacing to facilitate easy typing.
- ▲ **Direct Printing**
Print directly to a PCL printer via the infra-red port.

HP SUPPORT PACK
3 YEAR - NEXT DAY UNIT EXCHANGE
 ANS

Product	Code No.	HP Part No.	Price	Inc. VAT
Palmtop PC's				
HP 320LX Palmtop PC 4Mb	17863	F1221A	£395.00	£464.13
Accessories				
HP 300 Series Palmtop AC Adaptor	17864	F1218A	£19.00	£22.33
HP 300 Series Palmtop Connectivity Cradle	17865	F1224A	£19.00	£22.33
HP 300 Series Palmtop Leather Case	17866	F1227A	£44.00	£51.70
HP 300 Series Palmtop Synch Cable	17868	F1223A	£10.00	£11.75
HP 300 Series Palmtop Spare Pens (Pack of 3)	17869	F1225A	£6.00	£7.05
HP Compact Flash 2Mb & PCMCIA Adaptor for the Palmtop	17870	F1229A	£63.00	£74.02
HP Compact Flash 4Mb & PCMCIA Adaptor for the Palmtop	17871	F1231A	£94.00	£110.45
Support Pack				
HP Support Pack - 3 Year Next Day Unit Exchange	17867	H5465A	£59.00	£69.32

Software Built into ROM Operating System

- ▲ Microsoft Windows CE
- Applications**
- ▲ Microsoft Pocket Word
- ▲ Microsoft Pocket Excel
- ▲ Microsoft Pocket Internet Explorer
- ▲ Microsoft Pocket H/PC Explorer
- ▲ Tasks
- ▲ Calendar
- ▲ Contacts
- ▲ Calculator
- ▲ World Clock
- ▲ Inbox (e-mail client)
- ▲ bFAX PRO: send & receive faxes (HP 320LX)
- ▲ Terminal application (TTY, VT-100 emulation)
- ▲ Remote Networking (for connecting to remote access servers)
- ▲ Solitaire
- ▲ Direct printing from HP Palmtop PC to HP PCL printers (from Pocket Word and Information Manager)
- ▲ Any 320LX bought after 2nd September now has V2.0 software



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Fast Upgrades For Compaq, IBM & Toshiba Notebooks

- NOVA Data-Trans Transfer Device**
- ▲ Allows the transfer of data swiftly and safely
 - ▲ WIN95 'plug and play' compatible
 - ▲ Type II PCMCIA socket required
 - ▲ Full step by step instructions included
 - ▲ Safer than floppy disk backup transfer
 - ▲ Valuable hardware tool that can be used repeatedly
 - ▲ Full 3 year manufacturers warranty



- NOVA Max Hard Drive Solutions**
- ▲ 1.0 Gb, 1.4 Gb, 2.1 Gb and 3.0 Gb available
 - ▲ Micro-code software ensuring compatibility
 - ▲ Removable and replacement options
 - ▲ Full step by step instructions
 - ▲ Disk management software included
 - ▲ Free technical support
 - ▲ All backed by 3 years manufacturers warranty

- NOVA Motion 16x PCMCIA CD-ROM**
- ▲ A true 16 speed portable PCMCIA CD-ROM
 - ▲ WIN95 'plug and play'
 - ▲ Built-in CIS taking advantage of WIN95 ATAPI support
 - ▲ 16-bit data access, transfer rate upto 3Mb/sec
 - ▲ Low power consumption and APM management compatibility
 - ▲ Full operating instructions and external power supply
 - ▲ All backed by full 12 months manufacturers warranty



Product	Price	Inc. VAT
Data Trans Transfer	Ecall	Ecall
PCMCIA CD-ROM	Ecall	Ecall
Replacement 1.0 GB	£144.00	£169.20
Replacement 1.4 GB	£220.00	£258.50
Replacement 2.1 GB	£384.00	£451.20
Removable 1.0 GB	£240.00	£282.00
Removable 1.4 GB	£294.00	£345.45
Removable 2.1 GB	£458.00	£538.15

- ALL NOVA DRIVES INCLUDE:**
- ▲ Disk Management Software
 - ▲ Leading Manufacturer Technology
 - ▲ Micro-Code Software
 - ▲ Free Technical Support
 - ▲ Data Recovery Discount Voucher
 - ▲ 3 Year Warranty
 - ▲ Step by Step Instructions
 - ▲ Removable & Replacement Options

Call the Sales Hotline on 01582 745555 to confirm removable options for your model

OPTI Portable PC Carry Cases

Opti's range of high-quality carry cases, are designed to provide practical lightweight protection for your portable PC, against the rigours of travelling. When you are carrying the best portable computing equipment available, you need a high-quality case to transport it. Opti offer a range to suit every storage need and budget. Opti cases offer the best possible protection against the elements, made from strong, durable materials these cases are both lightweight and hard wearing. You can rely on Opti carry cases to provide years of hardwearing and reliable service. Protect your investment.



Opti Professional Carry Case

High quality construction. Stylishly designed, hard wearing, completely portable and lightweight with dedicated storage for CD's, floppy disks, adapter, cables, PC Cards and all other portable peripherals, the Opti Professional is the ultimate mode of transport for your portable PC. Comes complete with detachable, matching mobile telephone case and padded shoulder strap.

Professional
£39
£45.83 inc. VAT

Opti Executive Carry Case

Stylishly designed semi-rigid carry case made from ABS material allowing optimal balance between weight and stiffness. Complete with shock-absorbing rubber feet, double-secured handle, detachable padded shoulder strap and multi-functional designated storage facilities.

Executive
£72
£84.60 inc. VAT



Opti Impact Carry Case

Specially designed to transport your portable PC and LCD Flat Screen display in complete safety with dedicated pockets for CD's and floppy disks as well as ample space for your power supply/adapter and accessories. Comes complete with detachable, padded shoulder strap.

Impact
£172
£202.10 inc. VAT

Opti Office Carry Case

The mobile office solution for your portable PC and printer. By lowering the front panel of this custom-designed, durable case, your printer will be readily accessible and ready to start working. With ample room for your PC, printer, documents and accessories this case represents the professional solution and the ultimate in portable office portability.

Office
£220
£258.50 inc. VAT

OPTI Picture MAGIC

Sound and Vision



Opti Picture Magic
£289
£339.58 inc. VAT

The Picture Magic from Opti has made affordable, high resolution photographs possible. Whether for business, Web Site development or entertainment the Picture Magic Digital Camera combines both quality images with sound capture facilities

The Opti Focus is supplied complete with the highly acclaimed Adobe PhotoDeluxe

- ▲ Hi Res. Camera with Sound Capture Capabilities
- ▲ True Colour/Sharper Images (1000x800 Max.)
- ▲ Built-In Microphone for 5 seconds Audio per image
- ▲ Stores up to 89 (1000x800) or 133 (500x400) images
- ▲ RS-232 Port connects directly to your computer
- ▲ Bundled with 2MB removable Photo Memory Card

OPTI IMAGE

The Opti Image 13.8" TFT Flat Screen Panel is just one in the new range of space-saving, high resolution innovative monitors from Opti International. In addition to the 13.8" series, Opti have available the ultimate in size and quality, the amazing 17"-er. What would be wishful thinking to most busy executives has now become reality with Opti International.



Opti Image
£1555
£1827.12 inc. VAT

- ▲ 13.8" TFT LCD Screen
- ▲ 1024 x 768 High-Quality Resolution
- ▲ Sleek, slimline design
- ▲ Distortion-free image
- ▲ Vivid High-Brightness Colour Image

OPTI FREEDOM

No Strings Attached!



Opti Freedom
£49
£57.58 inc. VAT

Not just a clever name! The Opti 'Freedom' allows true freedom in two respects. Firstly, giving you the opportunity to work away from your desk (up to 23ft away!) in true comfort and secondly freeing space on your desk. No more troublesome wires, mouse and mouse pad. Fully compliant with Windows95 - a true multimedia accessory with integrated controls for all your multimedia needs.

- ▲ Infrared Wireless Keyboard
- ▲ Operates from up to 23ft away
- ▲ 14 Programmable Function Keys
- ▲ I-Point™ Stick and Click Buttons built-in



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FAX: 01582 488588

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UltraPad Series

Graphics Tablets for CAD and DTP Professionals



Pressure Sensitive Pens



The natural way to use your computer for all CAD and DTP professionals

It's as easy, as comfortable, and as natural as using a pen. Whether you're painting in Painter, retouching in Live Picture or Photoshop, or working with a host of other programs, a Wacom cordless pen and graphics tablet can significantly enhance your creativity and ease of working. Pressure-sensitive pens allow you to vary line thickness, colour density or other characteristics, depending on the application. Already the most widely used graphics tablets for professional electronic artwork production, Wacom's innovative features combine ergonomics with lifelike simulation of traditional graphics tools.

You can customise your graphics tablet to match your personal style or specific requirements. There are UltraPens designed specially for handwriting recognition; UltraPens with ink or pencil lead so you can record on paper what you're drawing on screen; and pens with thick barrels and an extra-soft feel for using with painting software.



Star of the UltraPen series is the UltraPen Eraser

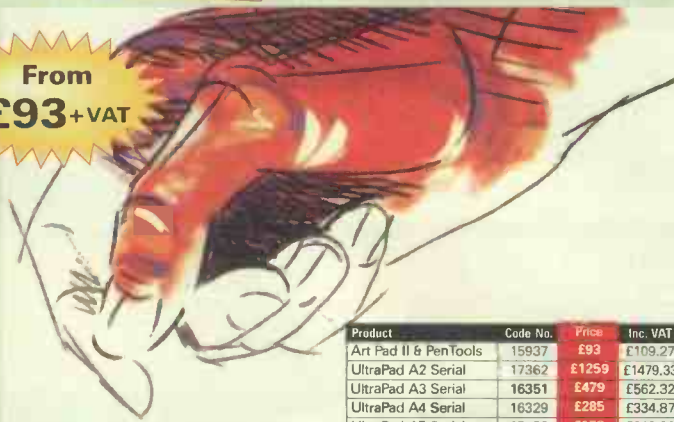
The first dual-function, pressure-sensitive pen. Simply flip the pen and erase, or assign the spongy eraser tip to a drawing function such as Photoshop's Dodge and Burn. All Wacom tablets are supplied with an Ultra Pen Eraser and spare nibs. Various UltraPen Pucks (cursor) are also available, which are ideal for CAD use.

Star of the UltraPen series is the UltraPen Eraser

The first dual-function, pressure-sensitive pen. Simply flip the pen and erase, or assign the spongy eraser tip to a drawing function such as Photoshop's Dodge and Burn. All Wacom tablets are supplied with an Ultra Pen Eraser and spare nibs. Various UltraPen Pucks (cursor) are also available, which are ideal for CAD use.

For CAD and All DTP Professionals

From **£93+VAT**



ArtPad II

ArtPad II is Wacom's smallest graphics tablet and is ideal for educators, hobbyists and children to quickly create compelling, original artwork. Ideal as a creative input device for space conscious professionals or simply for anyone in need of a mouse alternative.

Features

- ▲ Ideal for DTP, graphics, sketching and drawing where desk space is limited.
- ▲ Active surface area of 4"x5"
- ▲ 256 levels of pressure
- ▲ Comes complete with UltraPen Eraser
- ▲ Comes bundled with PenTools Photoshop Software

Product	Code No.	Price	Inc. VAT
Art Pad II & Pen Tools	15937	£93	£109.27
UltraPad A2 Serial	17362	£1259	£1479.33
UltraPad A3 Serial	16351	£479	£562.32
UltraPad A4 Serial	16329	£285	£334.87
UltraPad A5 Serial	15936	£179	£210.32

CH Racing System

Leave your competition in the dust with CH Products' wheel and pedal combination. The CH Racing System comes complete with a high-performance racing wheel with 160 degree range of motion, four push buttons and foot pedals for acceleration and brake. Built for speed and designed for comfort, the CH RACING WHEEL gives you the winning edge to burn rubber and leave the competition in the dust.

Become a road warrior with the system that was built for speed and durability. Adjust the sturdy clamps and convert your desk space into a driving machine. The CH RACING SYSTEM is built with the highest quality components and comes with an unbeatable three-year warranty.

Racing Wheel
£49
 18670
 £57.58 inc. VAT

NEW

FEATURES

Wheel:

- ▲ 160 Degree range of motion: Total freedom to manoeuvre the road.
- ▲ Four push buttons: For quick response. Rated to 10 million presses each!
- ▲ Sturdy base: For a comfortable ride!
- ▲ Adjustable Clamps: Mounts easily to desktop.
- ▲ 7 Foot cable: For greater reach.
- ▲ With CH Pedals and Pro Pedals from CH.

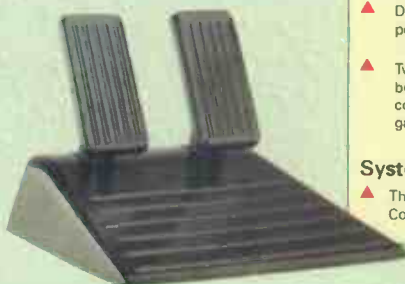


Pedals:

- ▲ Durable Construction: High performance pedals to accelerate and brake.
- ▲ Two-Mode selector switch: Choose between two pedal modes to assure compatibility with DOS and Windows®95 games.

System:

- ▲ Three-year warranty
- Compatible: Windows®95 and DOS games.



Pedals and Wheel
£75
 18669
 £88.13 inc. VAT

Force FX

Have you ever wanted to truly feel the game you are playing? How about fighting the vibration of your tank traversing rough terrain or struggling as you pull seven Gs in your jet? Well hang on tight because CH Products has revolutionised gameplay with the first ever joystick equipped with the power of force-feedback. The FORCE FX is the product of choice for those of you tough enough to take on what a game was really meant for.....reality.

CH products FORCE FX is guaranteed to knock your socks off with six built in effects you can experience through the stick in many variations of magnitude, duration, direction and repetitiveness. Each variation is determined through your favourite I-FORCE supported game. Feel your vehicle shift gears and experience what happens when you run into a wall with Jolt motion. Vector FORCE yanks your arm as you struggle to pull G's in your jet. Hold on as X & Y Vibration motion comes alive as you drive over bumpy roads and rev engines. With SPRING effect in FORCE FX you can feel stiff airplane throttle; and recoiling gunfire with button reflex. BUFFETING motion reacts in your hand as you experience an explosion and air turbulence.

FEATURES

- ▲ Offers six built-in force-feedback effects: JOLT, VECTOR FORCE, X&Y VIBRATION, SPRING, BUTTON REFLEX and BUFFETING; each having limitless variations and combinations of magnitude, duration, direction and repetitiveness.
- ▲ F-16 JET GRIP: An authentic look, modelled after the F-16 Fighting Falcon.
- ▲ TWO 4-WAY SWITCHES, FIVE FIRE BUTTONS, TRIGGER and TRIM CONTROLS: Add increased control and precision during game-play. Provides 14 functions as a stand-alone stick.
- ▲ Ideal to use in conjunction with the PRO THROTTLE: Provides games with 34 functions, 14 from FORCE FX and 20 from the PRO THROTTLE.
- ▲ 7-FOOT CABLE ASSEMBLY: High-quality, metal connector mounts easily to the gameport using thumbscrews.
- ▲ HIGH QUALITY CONSTRUCTION and DESIGN: Potentiometers rated to 2 million cycles; push buttons rated to 10 million presses; 4-way switches rated to 1 million presses each direction.
- ▲ 6-MONTH WARRANTY

NEW



FORCE FX is guaranteed to knock your socks off

Joystick
£99
 18668
 £116.33 inc. VAT



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www.watford.co.uk

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RICOH

DIGITAL SOLUTIONS

RICOH RDC-300 DIGITAL CAMERA

RDC-300 Features at a glance:

- ▲ 640 X 480 pixels
- ▲ Close focusing to 1cm
- ▲ Compact & lightweight
- ▲ JPEG & PAL compatibility
- ▲ 4mb internal memory
- ▲ TFT monitor for preview & playback
- ▲ Auto flash, Auto exposure, Auto white balance
- ▲ Supplied with Photo Studio Lite editing Software (PC or Mac)



RDC-300
£309
£363.08 inc. VAT

RICOH RXP-10 PHOTO PRINTER

RXP-10 Features at a glance:

- ▲ Print directly from your Ricoh digital camera
- ▲ Connect via your computer
- ▲ A6 Dye sublimation
- ▲ PC or MAC compatible
- ▲ Automatic paper feeding tray
- ▲ Supplied with trial paper pack (25 sheets & ink ribbon cassette), Connection cables & Driver software



RXP-10
£339
£398.33 inc. VAT

SPECIAL OFFER

RDC-300 Digital Camera and the RXP-10 Photo Printer Bundle
£625 £734.38 inc. VAT

RICOH RDC-2E DIGITAL CAMERA

RDC-2E Features at a glance:

- ▲ High quality resolution: 768 X 576 pixels
- ▲ Close focusing to 1cm
- ▲ Compact & lightweight
- ▲ Auto focus
- ▲ Auto exposure
- ▲ 2Mb internal memory - accepts optional PCMCIA memory cards
- ▲ TFT monitor for preview & playback
- ▲ Supplied with Photo Studio editing Software (PC or Mac format)



RDC-2E
£449
£527.58 inc. VAT

RICOH RDC-2L DIGITAL CAMERA

RDC-2L Features at a glance:

- ▲ High quality resolution: 768 X 576 pixels
- ▲ Close focusing to 1cm
- ▲ Compact & lightweight
- ▲ Auto focus
- ▲ Auto flash
- ▲ Auto exposure
- ▲ 2mb internal memory - accepts optional PCMCIA memory cards
- ▲ TFT monitor for preview & playback
- ▲ Twin lens - equivalent to 35mm & 55mm
- ▲ Audio facility - up to 10 seconds with each image
- ▲ Supplied with Photo Studio editing Software (PC or Mac format)



Supplied with Photo Studio

RDC-2L
£559
£656.83 inc. VAT

DIGITAL CAMERAS & ACCS

AGFA	
16870 E-Photo 307 Digital Camera	£209
CANON	
17858 PowerShot 350 Digital Camera	£379
15842 PowerShot 600 Digital Camera	£532
16980 PowerShot 170Mb Ram Card	£325
CASIO	
17694 QV11-1 PC Digital Camera	£189
— QV70-1 PC Digital Camera	£210
15585 QV100 Digital Camera (4Mb)	£279
— QV200-1 PC Digital Camera	£252
14874 QV300 Telephoto/Normal Lens Camera	£344
— QV700 Digital Camera + Compact Flash	£339
15409 QG100 Printer for above Cameras	£125
CHINNON	
16872 ES3000 Digital Camera	£675
COMPRO	
16874 Digital Camera - Motion & Still Image Capture	£99
EPSON	
15838 PhotoPC 500	£271
— Photo PC600	£529
15839 LCD Monitor for PhotoPC 500	£135
15840 Optional Power Supply	£55
FUJI	
— DX-5 Digital Camera	£214
15938 DS-7 Digital Camera	£265
— DX-7 Digital Camera	£295
16875 Fuji Film Smart Media Image Memory Card for DS-7 (3 Pack)	£122
16876 Fuji Film PC Card Adaptor Kit for DS-7	£68
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15195 DC20 Digital Camera	£112
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18255 P-150E Digital Color Printer	£295
17923 C-400 Digital Camera	£255
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17932 KXL-D50 1.8" TFT Colour LCD Monitor	£189
14451 KXL-D52 4MB Memory Card	£99
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— Silver Fox	£99
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17678 RDC-2L PC Digital Camera	£673
17888 RDC - 2E Digital Camera	£425
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17683 Software Photostudio (PC) CC-2	£80
17684 Flash Memory ATA Card 5Mb	£300
17685 Flash Memory ATA Card 10Mb	£450
17686 Flash Memory ATA Card 20Mb	£700
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17725 VPC G200 Digital Camera 4Mb Ram	£319
16896 VPC-G1 Image Digital Camera	£292
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17728 DSC-F1 Digital Camera	£525
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VIDEOLABS	
16901 Flexcam Desktop TV Camera	£349

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PhotoPC 500
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LCD Monitor
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Prices exclude carriage & VAT @ 17.5% except where shown.

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The Shinho AV2 range of colour monitors are designed for quality and reliability, and built to world leading manufacturing standards on ISO9001 production lines. Low power consumption, automatic powersave, accurate digital controls and distinctive ergonomics make the AV2 range one of the most reliable, user and ecologically friendly quality monitors available worldwide.

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- ▲ Ergonomic Design
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- ▲ Plug & Play Compatible

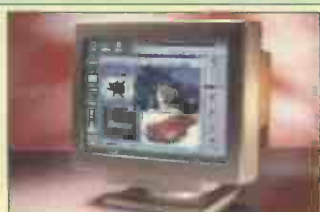
iiyama Vision Master Monitors THE IMAGE OF PERFECTION

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- ▲ 17" 0.26mm FST colour
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- ▲ Colour Balance Control
- ▲ VESA & Energy Star Power Saving
- ▲ MPRII, TUV & CE Compliance

MF-8617T
£399
£468.83 inc. VAT



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- ▲ Colour Balance Control
- ▲ VESA & Energy Star Power Saving
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MultiSync A500 - 15" Colour Monitor for the cost conscious user

- ▲ 15" FST Dot Trio Desktop Monitor
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- ▲ ES VGA Capability (1024 x 768 at up to 80Hz)
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- ▲ MPR-II Compliant for Low Radiation and Static Emissions
- ▲ Digital Controls and On-Screen Display for Easy Set-up
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- ▲ MPR-II Compliant for Low Radiation and Static Emissions
- ▲ Digital Controls and On-Screen Display for Easy Set-up
- ▲ VESA Power/Asset Management to cut running costs
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- ▲ 3 year parts and labour warranty
- ▲ OptiClear™ Anti-Glare, Anti-Reflection, Anti-Static Screen Coating
- ▲ TCO'95 Compliant for ultra-low radiation and environmental safety
- ▲ Digital Controls and On-Screen Display for Easy Set-up
- ▲ VESA Power/Asset Management to cut running costs
- ▲ Fully IBM Compatible, Apple Mac support up to 1152 x 870

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- ▲ 50-100Hz Vertical freq.
- ▲ 1024 x 768 Max Resolution
- ▲ Vertical/Horizontal, position, size, brightness, contrast
- ▲ 7 User Programmable Modes



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- ▲ 15" CRT
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- ▲ Digital control
- ▲ 7 User Programmable Modes



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- ▲ On screen display
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- ▲ Plug and Play



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17" Energy Pro

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- ▲ 30 - 65kHz horizontal freq.
- ▲ 50 - 120Hz vertical freq.
- ▲ 1280 x 1024 Max Resolution
- ▲ Digital control
- ▲ Windows Plug & Play
- ▲ EPA, MPRII, CE




3 YEAR UNIQUE WARRANTY
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 19074
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- ▲ 50-120Hz Vertical freq.
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- ▲ 7 User Programmable Modes



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10074	17" EnergyPro LR 0.28mm 1280x1024 NI£285
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	1600x1200 NI£329
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15435	1765S 17"£349
17704	1769MS 17" Multimedia£349
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15678	1785XA 17"£429
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15436	2095KE 20"£699
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16431	MF8617ES 17" INC SPEAKERS£435
14436	MF9017E 17"£439
17445	MT9017T PRO 17"£399
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17576	447X1 17"£439
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15503	417TV 17" - with Speakers & Built in TV£535
15153	445X1 21"£940
17711	445XAV 21" - with Speakers, Sub Woofer & Microphone£1,250
17712	445XAVC 21" - with Speakers, Sub Woofer, Microphone & Camera£1,280
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16958	17" PT770 Pro. 1600 x 1280 0.25"£486
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- ▲ 30-54kHz (Horizontal Scan Freq.)
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PC Pro 'A' List, PCW Highly Commended, May 1997

550 TCO 95
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Ergovision 550 TCO 95

- ▲ 15" FST (13.7" Viewable)
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Max resolution:	4800 x 4800 dpi interpolated
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Bit tone:	1 bit per pixel
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Software interface:	TWAIN compatible
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Weight:	Only 4.9 Kg
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Warranty:	1 Year return to base

- ▲ Parallel connector - Scan-it Pro doesn't require an interface, the computer doesn't need to be opened so it's very easy to install and your printer connects to the scanner
- ▲ Colour, single pass scanner at 4800 dpi
- ▲ Copy function - press a button on the scanner and the image will be sent direct to your printer
- ▲ Fax function - press a button on the scanner and the software supplied allows you to dial the number and the image is sent direct
- ▲ OCR function - press a button on the scanner and the OCR supplied software will read the text straight into your chosen word processing software



Scan-it Pro 4830P
£79
£92.83 inc. VAT



"The Scan-It Pro is a fantastic tool... a very snazzy compact scanner... easy to set up... the software is excellent"



Computer Shopper, March 1997

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The OpticPro 9630P color flatbed scanner is a feature-packed product at a very affordable price. Not only does it share the specifications of many high-end scanners - such as single-pass scanning, a cold-cathode lamp and up to 9600dpi resolution - it also installs in minutes without any additional hardware or tools. Add to that a unique collection of software offered only by Plustek! Software for Optical Character Recognition (OCR), image editing and multifunction document processing like faxing and copying. You've never seen so much scanning power in such a simple package: the OpticPro 9630P.

Aries Optic Pro[®] 9630P

9600dpi & a billion colours in one clean sweep!

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- ▲ 30 Bit colour
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18661
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* Interpolated

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- ▲ Compatibility: Windows & Macintosh

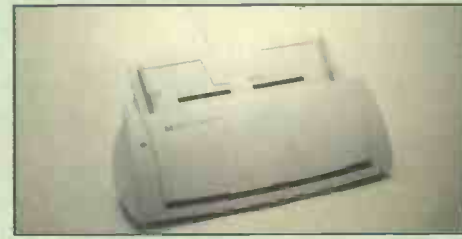
ScanJet 6100c
£440
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Transparency Adaptor
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Auto Document Feeder
£279
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ScanJet 5s



- ▲ Type: Sheetfed, colour/greyscale
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- ▲ Compatibility: Windows & Macintosh

ScanJet 5s
£132
17932
£155.10 inc. VAT

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with all Scanners on this page

ScanJet 5p

- ▲ Type: Flatbed, Colour
- ▲ Resolution: 300 dpi, Enhanced 1200 dpi
- ▲ Interfaces: SCSI
- ▲ Compatibility: Windows & Macintosh

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14241
£76.37 inc. VAT

ScanJet 5p
£146
£171.55 inc. VAT



The HP Scanjet Family are a range of affordable colour flatbed scanners. Compact in design, you can conserve precious desk space. HP have built in energy-saving features

that will significantly reduce the amount of power the scanners consume, minimising cost of ownership and impact on the environment. The HP Scanjet family provides an easy and

convenient way to scan your images and text, enabling you to change the look of your documents, Streamline communications and eliminate time - consuming typing.

Warranty: 1 year HP Express Exchange (most of Europe), 1 year Technical support.

Options: HP SupportPack for 2 years additional coverage. HP First - Fax information Retrieval System by phone



Sales Hotline: 01582 745555

FAX: 01582 488588

FOR ORDERING INFORMATION SEE PAGE 2

Prices exclude carriage & VAT @ 17.5% except where shown.



UMAX The Astra 610 and 1200 Series

The Affordable 30-bit Desktop Scanner and High Quality Scanner for the Office



BEST BUY

Trans. Adaptor
£199
£233.82 inc. VAT
Astra 1200S
£299
£351.32 inc. VAT

The Astra Series were created for those of you who are looking for an easy, affordable way to put the sizzle into all of your everyday documents. Together with UMAX VistaScan software and New "Bit Enhancement" Astra series are simple enough for a novice to use at home or in the office. Yet it provides the detail and crispness that a professional graphic designer would appreciate.

AMAZING LOW PRICE

Astra 600s
£129
£151.58 inc. VAT
Astra 610P incl. Photo Deluxe
£84
£98.70 inc. VAT



Trans. Adaptor 600s only
£199
£233.82 inc. VAT

Intelligent Scan Driver

VistaScan offers automatic scanning control settings. Like a snapshot camera, even novice can get professional quality scans.

Bit Enhancement Technology

Astra 1200S uses the "Bit Enhancement" Technology to provide the optimum scanned image quality.



Accurate Color Scans

VistaScan driver includes MagicMatch color Management System. With a click of a button, users can get consistent colors from scan, display to print.

Superior 30-bit Color Quality

With a 30-bit single-pass color CCD, Astra 600 series bring out the richness and details of any image. Resolutions can be extended to a maximum 4800dpi. The Astra 1200S uses a 30-bit single-pass colour CCD with a maximum 9600dpi

Large Legal-Size ScanArea

The Astra 600 series scan photographs, artworks, publications, newspapers, or any document up to A4.

UMAX Copy Utility

The UMAX Copy Utility software turns your scanner and printer into a copy machine.

Est. 2 Yr Warranty for 600 & 600P
£29.95
£35.19 inc. VAT

Plug-and-Play Connections

Set up of the Astra 600P is incredibly easy. Just plug it into your parallel printer port, you are ready to scan under Win 3.1 or Win 95/NT.

Feature-Rich Presto!

Astra 600 series comes with Presto! PageManager Software, which fully utilises the computer to handle documents efficiently.

The Next Generation in Prepress Scanning Power

With a true optical resolution of 600 x 1200dpi (achieving a maximum resolution of 9600 x 9600dpi via software interpolation) the PowerLook II leads the field with a dynamic range of 3.3D. MagicScan intelligent scanner control software and MagicMatch (which incorporates Kodak's colour management software) ensures consistent high quality results and increased productivity.

A4 Size
Large scan area for accommodating A4-size or multiple originals

Smart Frame Holders
For high productivity, automatic scans in the multiple and batch scanning modes

3.3D High Dynamic Range
Captures more details for professional scans

Direct CMYK Scans
For increased productivity

From £749
inc. VAT £880.07

Adjustable Lamp Intensity
Yields high image quality scans for all types of images.

Product	Code No.	Price	Inc. VAT
Scanner Including Adobe Photoshop FE	17998	£899.00	£1056.32
Powerbook Colour			
Studio 11	17997	£749.00	£880.07
Transparency Adaptor	14439	£250.00	£218.74



*Includes MagicScan & MagicMatch



The Art of Being Unique

The Infinity line of scanners brings the latest technology to your tabletop at the most affordable price. Utilising Cold Scan single pass technology, which uses a Xenon glow lamp to give lower running cost, Relisys scanners don't require a warm up time and have an automatic shut off feature. In fact, Relisys has developed the Infinity series with total upgradeability in mind, perhaps making it the last scanner you'll ever buy.

FREE
CALYPSO GRAPHIC DESIGN SOFTWARE
with all Scanners on this page

Benefits of Relisys Infinity Series Scanners

- Green Scanner**
The Infinity Series uses a technology called Cold Scan which incorporates a Xenon glow lamp that has excellent temperature characteristics and does not require ventilation, therefore lamp life and energy is conserved. Relisys scanners do not require a warm up time and have an auto-shut off feature when not in use, making the Infinity a true "Green Scanner".
- Upgradeable System**
Buffer Size can be easily upgraded by the user to 4M maximum to significantly improve the scanning speed. Image pixel depth can also be upgraded to 36 bits per pixel in the future if desired.
- Dust Free and Power Savings**
Dust interference is eliminated with a sealed chassis. No cooling fan is needed due to cold scan technology.
- Easy Maintenance**
Main board can be easily pulled out from rear side for maintenance.



Scorpio Scanner **£139**
£163.33 inc. VAT
Taurus Scanner **£199**
£233.83 inc. VAT

Relisys 2000 Camera "Simple to use, Easy for Fun"

- ▲ No film needed: unlimited image storage
- ▲ Shoot and store
- ▲ Easily connect to your computer
- ▲ Enhancing, editing, and organising images
- ▲ Extend your creativity for business or fun
- ▲ Display, print or communicate via Internet

Silver Fox Camera
£99
£116.33 inc. VAT

Features

- ▲ High quality 24 bit images up to 16.88 million colours
- ▲ Standard resolution (320x240 pixels)
- ▲ Fine resolution (640x480 pixels)
- ▲ Unlimited storage expandable with RFM cards (Replaceable Flash Memory cards)
- ▲ Focus free from 0.4m to ∞
- ▲ Built-in auto flash light



Specifications	Relisys Infinity Series TAURUS	Relisys Infinity Series SCORPIO
Scanner Type	Flatbed, single pass color image scanner	Flatbed, single pass color image scanner
Subscanning Mode	Movement of the scanning head	Movement of the scanning head
Light Source	Xenon glow lamp	Xenon glow lamp using cold scan technology
Effective Scanning Area	8.5" x 13" (216mm x 330mm)	8.5" x 14" (216mm x 356mm), A4
Scanning Resolution	Optical: 600 x 1200dpi in increments of 1 dpi Maximum: 9600 x 9600 dpi by software interpolation (The horizontal and vertical resolution can be changed independently)	Optical: 300 x 1200 dpi in increments. Maximum: 4800 x 4800 dpi by software interpolation (The horizontal and vertical resolution can be changed independently)
Image Data	Color: 30 bits per pixel, 1 billion colors. Gray Scale: 10 bits per pixel, 1024 levels. Bi-Tone: 1 bit per pixel	Color: 30 bits per pixel, 1 billion colors. Gray Scale: 10 bits per pixel, 1024 levels. Bi-Tone: 1 bit per pixel
Raw Scanning Speed	135 seconds for A4 size document (600 dpi, color)	40 seconds for A4 size document (300 dpi, color)
Interface and Platform	SCSI-2 for PC, Macintosh	SCSI-2 for PC, Macintosh

Watford Electronics
www.watford.co.uk

MAIL ORDER & RETAIL STORE: JESSA HOUSE, FINWAY, OFF DALLOW ROAD, LUTON LU1 1TR
RETAIL STORE: 250 LOWER HIGH STREET, WATFORD WD1 2AN TELEPHONE: 01923 237774

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• ALL THE TIME •
"That's the Watford Promise"

REFER TO TERMS & CONDITIONS ON PAGE 2

HP DeskJet 670C

Incredible printer at an incredible price!

Easy to use
Achieving great quality with affordable costs has never been easier: the HP DeskJet 670C has two built-in cartridges - one for colour and one for black - which means there is no need to switch cartridges.
Great results, even on plain paper
The HP DeskJet 670C comes with HP's RealLife Imaging system for true-to-life images. Your printed documents are given maximum appeal with crisp black text and photo-quality colour: professional-standard printing - on plain paper! And you can use HP's exclusive built-in ColorSmart technology to produce spectacular colour - automatically.

- ▲ Print technology: Plain paper drop-on-demand thermal inkjet printing.
- ▲ Black print speed: Microsoft® Windows® EconoFast mode 4 pages per minute; Normal mode 2.5 pages per minute.
- ▲ Colour print speed: Microsoft® Windows® EconoFast mode 1.5 pages per minute.
- ▲ Warranty: One Year

DeskJet 670C
£121
17745
£142.18 inc. VAT



HP DeskJet 870Cxi Professional Series

Premium performance to increase office productivity

DeskJet 870Cxi
£202
14071
£237.35 inc. VAT

HP's Professional Series is tailored to the specific printing needs of business professionals, providing small businesses and home office users with superior performance and



- ▲ Vivid colours and sharp-edged black text with HP's precision technologies and new inks on any media. Over 150 professional fonts give business communications a polished professional look.
- ▲ Premium Performance: Fast black output at up to 8 pages per minute, fast colour output at up to 4 pages per minute
- ▲ Print Technology: InkJet
- ▲ Resolution: Black 600 dpi, Colour 600 x 300 dpi
- ▲ Warranty: One Year

HP DeskJet 890C Professional Series

Outstanding print quality at unrivalled speed



The HP DeskJet 890C Professional Series printer delivers:

DeskJet 890C
£255
18476
£299.63 inc. VAT

- ▲ Outstanding print quality: The HP DeskJet 890C Professional Series printer incorporates PhotoREt II, HP's latest technological innovation, to deliver photo-quality output, even on plain paper.
- ▲ Professional printing without the waiting: Prints at up to 9 pages per minute in crisp, sharp black and up to 5 pages per minute in vibrant colour.
- ▲ Business connectivity: Can be used with Win 95, Win NT 4.0, Win 3.x or DOS systems.
- ▲ Print Technology: Plain paper drop-on-demand thermal inkjet printing
- ▲ Warranty: One Year

HP LaserJet 5/5M/5N High-performance, user friendly printing for a variety of needs

The HP LaserJet 5, 5M and 5N printers combine improved performance with a range of features and options particularly suited to the varied needs of small workgroups.

HP LaserJet 5 - the expandable solution. The HP LaserJet 5 is supplied with a 12 page-per-minute engine, Accelerated Printing technologies, HP PCL 6 and 4 Mbytes RAM. Memory can be expanded to 52 Mbytes and an HP JetDirect card be added for network connectivity. Features 45 built-in scaleable TrueType fonts plus HP FontSmart for font management and for 65 additional TrueType fonts for Windows®. Also comes with HP JetAdmin printer management software.

HP LaserJet 5N - the network-ready solution. In addition to the standard features of the HP LaserJet 5, the HP LaserJet 5N is supplied network ready with an HP JetDirect Card for Ethernet 10Base-T.

HP LaserJet 5M - the mixed-environment solution. The HP LaserJet 5M includes 6 Mbytes RAM, an HP JetDirect card for LocalTalk and Ethernet, Adobe PostScript Level 2 printer language, 35 built-in PostScript fonts plus HP FontSmart with a further 75 PostScript fonts.



- ▲ Speed & Throughput: 12-pages-per-minute
- ▲ Resolution: 600 x 600 dpi with Resolution Enhancement technology (RET)
- ▲ Memory: 4 Mbytes standard RAM with Memory Enhancement technology (MET)
- ▲ Paper Handling: Up to 4 input bins with a total capacity of 850 sheets and 75 envelopes
- ▲ Warranty: One Year

LaserJet 5
£674
10590
£711.95 inc. VAT

HP OfficeJet 590

All-in-One • Colour Printer • Fax • Copier • Scanner

The All-in-One product that makes it easy to do your work

- ▲ All-in-One: Printing, Faxing, Copying, Scanning in one product
- ▲ Great colour images and black text printing
- ▲ Easy to use software that lets you move between functions with a single mouse click
- ▲ Superior hardware/software integration
- ▲ Industry leading printing technology
- ▲ Built with HP's leading quality and reliability

Colour Printer

- ▲ Print Resolution: Black 600 x 600 dpi, Colour 600 x 300 dpi
- ▲ Print Technology: Inkjet with ColorSmart technology
- ▲ Print Speed: 4ppm Black, 1ppm Colour

Fax

- ▲ Paper Type: Plain
- ▲ Memory: 65 pages
- ▲ Transmission/Reception: HP OfficeJet or PC
- ▲ Send Resolution: Standard, Fine, 300 dpi, Photo
- ▲ Speed Dialing - Compatibility: 100 numbers - CCITT/ITU Group 3
- ▲ Phone Line: Able to share line with telephone & answering machine; automatic fax/answering machine switching

Copier

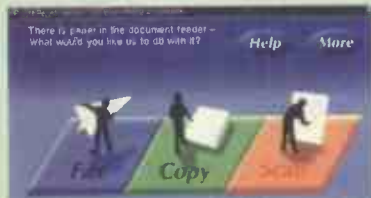
- ▲ Copier Resolution: 600 x 300 dpi text, 300 x 300 dpi image resolution
- ▲ Number of Copies: Up to 99
- ▲ Copy Speed: 50 seconds per page

Scanner

- ▲ Scanner Resolution: 600 dpi enhanced, 300 dpi optical
- ▲ Interface: TWAIN
- ▲ Optical Character Recognition: Includes OmniPage Limited Edition™ software from Caere

General

- ▲ Warranty: One Year



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Products

OfficeJet 590
£339
14553
£398.32 inc. VAT

LaserJet 5N
£847
14607
£995.23 inc. VAT

LaserJet 5M
£997
10001
£1171.48 inc. VAT



Sales Hotline: 01582 745555

FAX: 01582 488588

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Add A Splash Of Colour To Your Life!

Introducing The Lexmark 1000 ColorJetprinter

The affordable Lexmark 1000 Colour Jetprinter offers big colour results for anyone from 8 to 80. It delivers high quality colour documents at up to 600 dpi in both black and colour. With the Lexmark 1000, you'll be able to produce colourful school and business reports, make fun birthday banners and party invitations, even create and print customised designs for T-shirts! Perfect for kids, students, mums and dads, anyone who wants to add a splash of colour to their life!



Lexmark 1000
18571
£101
£118.68 inc. VAT

- ▲ Get Big Colour On A Small Budget
- ▲ Ultra Small Footprint Saves Valuable Desk Space
- ▲ 600 x 600 dpi Resolution In Both Colour & Black
- ▲ One-Year, Next Business Day Exchange Warranty

PRINTERS

9 PIN MATRIX PRINTER

13629	Citizen 120D+ Parallel 80col	£98
13559	Citizen 120D+ Serial 80col	£109
10026	Epson FX870 80col	£247
13379	Epson FX2170 132col	£395
13372	Epson LX300 80col	£97
10036	Epson LX1050+ 132col	£200
13367	Panasonic KXP1150 80col	£87
16873	Panasonic KXP3200 80col	£169
10010	Panasonic KXP3696 132col	£255
18474	Star LC1511 Mono 132col NEW	£199

24 PIN MATRIX PRINTERS

17493	Citizen ProDot 450 L 106col	£599
17494	Citizen ProDot 810 X 136col	£853
13658	Epson DLQ3000 132col	£331
10035	Epson LQ300 80col	£115
10049	Epson LQ570+ 80col	£216
14418	Epson LQ670	£230
13378	Epson LQ870	£377
14072	Epson LQ2070 132col	£330
10048	Epson LQ2170 132col	£468
13363	Panasonic KXP2023 80col	£108
10030	Panasonic KXP2135 Colour 80col	£122
10053	Panasonic KXP3626 132col	£255

INKJET PRINTERS

18518	Brother MC3000 Colour Printer/Copier/Scanner NEW	£449
14468	Canon BJC250 Colour	£102
14188	Canon BJC620 80col	£169
15825	Canon BJC4200 80col	£129
15672	Canon BJC4550 80col	£230
16997	Canon BJC5500 164col	£448
13384	Citizen Printiva 600C 80col	£285
17489	Citizen Printiva 1700C Scanner/Printer 80col	£305
18197	Epson Stylus 300 Colour	£121
14294	Epson Stylus 400 Colour 80col	£133
16402	Epson Stylus 600 Colour 132col	£169
16403	Epson Stylus 800 Colour 132col	£243
13403	Epson Stylus 1000 132col	£242
14295	Epson Stylus 1520 132col	£593
17843	Epson Stylus 3000 Colour A2	£1,118
17918	Epson Stylus Photo 80col	£308
10040	Epson Stylus Pro XL+ 132col	£446
15370	HP DeskJet 340 Colour 80col	£144
14552	HP DeskJet 400L NEW	£86
17746	HP DeskJet 670 Colour 80col	£121
17745	HP DeskJet 690 Plus Colour 80col	£150
14070	HP DeskJet 820 CXI Colour 80col	£153
14071	HP DeskJet 870 CXI Colour 80col	£202
18476	HP DeskJet 890C NEW	£285
14548	HP DeskJet 1100C NEW	£255
13710	HP DeskJet 1600 Colour 80col	£871
10007	HP DeskJet 1600M Colour 80col	£1,280
14175	HP OfficeJet 350	£416
14553	HP OfficeJet 590 NEW	£339
14356	HP OfficeJet LX 1150 C	£491
18571	Lexmark 1000 Colourjet NEW	£101
17723	Lexmark 2030 ColourJet	£127
15478	Lexmark 2050 ColourJet	£169
14157	Lexmark 3000 ColourJet	£145
14456	Lexmark 7000 ColourJet	£229
10059	QMS WinWriter 2070 600x600dpi 80col	£242
18487	QMS Magicolor CX 40Mb 1200dpi NEW	£4,295
17544	Ricoh Multi Purpose Ink Fax / Colour Printer	£291

RIBBONS/INK CARTRIDGES

18523	Brother MC3000 Black Cartridge NEW	£13
18522	Brother MC3000 Cyan Cartridge NEW	£5
18521	Brother MC3000 Magenta Cartridge NEW	£5
18520	Brother MC3000 Yellow Cartridge NEW	£5
11342	Canon BJ10ex/BJ10sx	£13
11422	Canon BJC70/BJC70 Black Cart. 3Pack	£8
11432	Canon BJC200/210/230/240 Black Ink	£14
15322	Canon BJC200/210/230/240 Colour Ink	£18
11343	Canon BJC300/BJC300	£9
11423	Canon BJC70 Ink Tank Black Ink	£10

11424	Canon BJC70 Ink Tank Colour Ink	£14
11420	Canon BJC70/BJC30 Black Cart.	£22
16679	Canon BJC240 Fluorescent Ink Cartridge - BC09F	£21
16616	Canon BJC240 Photo Ink Cartridge - BC06	£20
11646	Canon BJC600 - Black	£4.50
13683	Canon BJC600 - Cyan	£4.50
11608	Canon BJC600 - Magenta	£4.50
11607	Canon BJC600 - Yellow	£4.50
11581	Canon BJC800 - Black	£13
13727	Canon BJC800 - Cyan	£17
11584	Canon BJC800 - Magenta	£17
13729	Canon BJC800 - Yellow	£17
11405	Canon BJC4000/4100/4200/4550/5550 Colour Ink Tank	£12.00
11406	Canon BJC4000/4100/4200/4550/5550 Ink Tank	£5.00

16680	Canon BJC4200/4550 Fluorescent Ink Cartridge	£21
14289	Canon BJC4200/4550 Photo Ink Cartridge	£27
11321	Citizen 120D+	£4
14024	Citizen Printiva 600C Black Ink Cart.	£4
11548	Citizen Printiva 600C Cyan Ink Cart.	£5
11552	Citizen Printiva 600C Magenta Ink Cart.	£5
11554	Citizen Printiva 600C Yellow Ink Cart.	£5
15139	Citizen Printiva 600C Metallic Cyan Ink Cart.	£12
11558	Citizen Printiva 600C Metallic Gold Ink Cart.	£13
11556	Citizen Printiva 600C Metallic Magenta Ink Cart.	£12
17495	Citizen ProDot 450 L Black Ribbon	£6
17497	Citizen ProDot 810 X Black Ribbon	£22
17498	Citizen ProDot 810 X Colour Ribbon	£40
11338	Citizen Swift 24/200/240/ABC Black Ribbon	£4
13653	Citizen Swift 24/200/240/ABC Colour Ribbon	£11
11378	Citizen Swift 24X Black Ribbon	£6
11377	Citizen Swift 24X Colour Ribbon	£16

18456	Epson DXF5000+/8000 Black Ribbon NEW	£13
18457	Epson DXF5000+/8000 Ribbon Refill NEW	£12
18460	Epson DLQ3000 Black Film Ribbon NEW	£16
11408	Epson DLQ3000 Black Ribbon	£14
11409	Epson DLQ3000 Colour Ribbon	£20
11322	Epson EX800/1000 Black Ribbon	£4
11310	Epson EX800/1000 Colour Ribbon	£9
18454	Epson FX/LQ2170/LQ2070 Black Ribbon NEW	£13
13733	Epson LQ100 Black Ribbon	£3
13689	Epson LQ150 Colour Ribbon	£14
11443	Epson LQ200/300/400/450/500/570/800/850/870 Black Film Ribbon	£8
11544	Epson LQ300 Colour Ribbon	£15
11442	Epson LQ570/LQ870 Black Ribbon	£3
11323	Epson LQ1000/1050/1070/1170 Black Film Ribbon	£9
11444	Epson LQ1070/LQ1170 Black Ribbon	£3
18457	Epson LQ1500 Black Ribbon NEW	£5
11334	Epson LQ2550 Black Ribbon	£5
13737	Epson LQ2550 Colour Ribbon	£12
11445	Epson LX86/80, GX80 Black Ribbon	£4
13732	Epson LX100	£3
11466	Epson LX300 Black Ribbon	£12
18459	Epson LX300 Colour Ribbon NEW	£13
11466	Epson LX1050/FX1170/1050/1000/105/100/MX800/LX400/LX850	£2
11324	Epson MX/RX100/LX1050/1000/105/100	£3
18435	Epson SQ2500 Black Ink NEW	£17
11471	Epson SQ850/2550 Black Ink	£17
15369	Epson SQ870/SQ1170 Black Ink	£16
18458	Epson TLQ4800 Black Ribbon NEW	£14
13771	Epson Stylus 200/500	£18
11586	Epson Stylus 300 Black Ink	£15
13772	Epson Stylus 400/500/600 Black Ink	£13
11592	Epson Stylus 400/800+/1000 Black Ink	£5
13760	Epson Stylus 400/800+/1000 Double Black Ink	£14
11671	Epson Stylus 1500 Black Ink	£28
16404	Epson Stylus Colour 400/600/800/1520 Black Ink	£16

16405	Epson Stylus Colour 800/1520 Black Ink	£16
11532	Epson Stylus Colour 820/115 Black Ink	£13
11535	Epson Stylus Colour 820/115 Colour Ink	£19
18436	Epson Stylus Colour 3000 Black Ink NEW	£36
18437	Epson Stylus Colour 3000 Cyan Cartridge	£38
18439	Epson Stylus Colour 3000 Magenta Cartridge	£38
18440	Epson Stylus Colour 3000 Yellow Cartridge	£38
11396	Epson Stylus Colour/Pro/Pro XL Tri Colour	£20

13708	Epson Stylus Colour Pro XL+ Tri Colour	£21
11395	Epson Stylus Colour/Pro/XL/XL+ Black Ink	£10
17919	Epson Stylus Photo 5 Colour Ink	£13
11400	HP DeskJet 310/320/340 Black Ink	£14
11348	HP DeskJet 350 / 400 / 500 Black Ink	£15
11347	HP DeskJet 350 / 400 / 500 Colour Ink	£16
11519	HP DeskJet 600/660/690 Black Ink	£16
11522	HP DeskJet 600/660/690 Colour Ink	£16
14192	HP DeskJet 690 Photo Colour	£22
11502	HP DeskJet 820/850/870 Colour Ink	£18
15128	HP DeskJet 1200/CopyJet/DesignJet650	£16
11600	HP DeskJet 1200/1600/CopyJet - Cyan	£19
11598	HP DeskJet 1200/1600/CopyJet - Magenta	£19
11599	HP DeskJet 1200/1600/CopyJet - Yellow	£19
11601	HP PaintJet XL300	£13
11602	HP PaintJet XL300 - Cyan	£14
11603	HP PaintJet XL300 - Magenta	£14
11604	HP PaintJet XL300 - Yellow	£14
15224	Kaga KP810 Ribbon	£5
11674	Lexmark 150C/1020C Black Ink	£19
15554	Lexmark 150C/1020C Colour Ink	£26
14209	Lexmark 2050 Black Ink	£19
14210	Lexmark 2050 Colour Ink	£26
14150	Lexmark 2070 Black Ink	£24
14151	Lexmark 2070 Colour Ink	£26
16681	NEC P30/P320	£25
13750	NEC P62/P72/P90 Black Ribbon	£8
11301	Panasonic 1123 / 1124 / 2023	£5.50
11265	Panasonic 1150/1170/1180	£5
11384	Panasonic 1624/2624	£7
11339	Panasonic 2180/2123/2124/2135 Black Ribbon	£27
11559	Panasonic 3696/3626	£10
11567	Star LC10/LC20/LC100 Black Ribbon	£4
11331	Star LC10/LC20/LC100 Colour Ribbon	£6
11349	Star LC240 Black Ribbon	£5
11379	Star LC200 Colour Ribbon	£11
11385	Star LC240 Col LC2430 Black Ribbon	£7
11386	Star LC240 Col LC2430 Colour Ribbon	£10
18473	Star LC1511/LC1521 Black Ribbon (5 pack) NEW	£23
11413	Star SJ144 Black Ribbon	£6
13762	Star SJ144 Black Ribbon	£8

CUT SHEET FEEDERS (CSF)

10981	Canon BJ10ex/BJ10sx CSF - White	£40
15111	Canon BJ330 CSF	£86
10979	Canon BJC300 CSF	£96
15132	Epson LQ570+/LQ870/300 CSF	£47
11149	Epson LQ1070+/LQ1170 CSF	£89
10964	Epson LX400 CSF	£69
16712	HP DeskJet 1600 Optional 500 Sheet Paper Tray	£29
13602	Kyocera FS400 Paper Feeder	CALL
15133	Kyocera FS1550/3400/1600/3600/6500 + Universal Feeder	£199
17547	Kyocera FS1700/FS3700 500 Sheet Paper Feeder	£259
14381	Kyocera FS1700/FS3700 Paper Path Feeder	£28
15249	Panasonic KXP1150/2023/2135 CSF (PT12)	£30

ACCESSORIES

13744	Canon BJ370/Battery Pack & Adapter	£47
11112	Epson LQ100 Pushy Tractor Unit	£28
15164	Epson LX300 Colour Kit	£29
17841	Epson Ethernet Interface for Stylus 1520 Printer	£279
17842	Epson Local Talk Interface for Stylus 1520 Printer	£105
14195	Epson Stylus 200 Colour Kit	£32
15193	Epson Stylus 820 Colour Kit	£29
16713	HP DeskJet 320/340 Battery Pack	£29
16714	HP DeskJet 320/340 Colour Kit	£28
16715	HP DeskJet 320/340 Infra Red Adapter	£32
11649	HP DeskJet 600 Colour Kit (C4534A)	£28
14182	HP DeskJet 690C Photo Colour Kit (C4584A)	£30
17548	Kyocera FS1700/FS3700 Paper Path Adapter	£25

PRINTER LEADS

1.8 METRE		
12332	1.8m 18wire PC Parallel	£3
12385	1.8m 25wire PC Parallel Enhanced EPP	£5
12360	1.8m 25 Male 'D' to 25 Female 'D'	£4
12356	1.8m 25 Male 'D' to 25 Male 'D'	£4
12340	1.8m Centronics Male to Centronics Male	£7
5 METRE		
12343	5m 18wire PC Parallel	£8
12383	5m 25wire PC Parallel Enhanced EPP	£10
12365	5m 25 Male 'D' to 25 Female 'D'	£8
12370	5m 25 Male 'D' to 25 Male 'D'	£8
12375	5m Centronics Male to Centronics Male	£8
10 METRE		
12346	10m 18wire PC Parallel	£13
12384	10m 25wire PC Parallel Enhanced EPP	£15
12368	10m 25 Male 'D' to 25 Female 'D'	£12
12372	10m 25 Male 'D' to 25 Male 'D'	£12
12378	10m Centronics Male to Centronics Male	£11

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11311	9.5x11" Fanfold Paper - 1000shts	£6
11313	9.5x11" Fanfold Paper - 2000shts	£11
11315	A4 70g Fanfold Paper - 2000shts	£15
11450	A4 80g White Laser Paper - 500shts	£5
11595	A4 90g White Laser Paper - 500shts	£7
15146	A4 720dpi Epson Stylus Coated Paper - 100shts	£11
16736	A4 DeskJet Cut Sheet Paper - 200shts	£15
16743	Canon BJC4000 Coated Paper - 200shts	£18

16741	Canon BJC4000 High Gloss Film - 50shts	£29
16742	Canon BJC4000 Transparencies - 50 Shts	£31
14313	Canon BJC4550 Coated Paper A3 - 200shts	£25
16740	Canon BJC4550 Print Film A3 - 200shts	£46
11673	Epson A2 360dpi Ink Jet Paper - 30shts	£17
18443	Epson A2 Photo Quality Glossy Paper - 20shts NEW	£32
14307	Epson A2 Stylus Photo Quality Ink Jet paper - 30shts	£22
18442	Epson A3 Photo Quality Glossy Paper - 20shts NEW	£16
11672	Epson A4 360 dpi Stylus Coated Paper - 100shts	£6
16737	Epson A4 High Gloss Paper for Stylus 15shts	£20
18441	Epson A4 Photo Quality Glossy Paper - 20shts NEW	£32
16738	Epson A4 Transparencies for Stylus 30shts	£6
14298	Epson A4 Stylus Photo Quality Ink Jet Paper - 100shts	£8

LABELS

11480	70mm x 37mm A4 Laser Labels-2400	£15
11317	89mm x 36mm Single Row Fanfold Labels-1000	£5
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15072	Group 1 - LQ100+/Stylus 820/Stylus 11S	£37
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15181	Group 3 - FX870/LQ170/570+/870/Stylus1000/EP15500W/EP15500	£95
15182	Group 4 - FX2170/LQ2170/GT8500/GT9000	£145
15183	Group 5 - DXF5000+/DLQ3000/Stylus1500	£195
15184	Group 6 - DXF8000/Pro XL	

LASER PRINTERS

14133	Brother HL730 6ppm	£219
15366	Brother HL760 6ppm	£247
14470	Brother HL760 (5Mb) 6ppm	£263
14239	Brother HL1060 10ppm	£449
15121	Brother HL1260 12ppm	£639
16648	Brother HL1260EX 6Mb 12ppm	£659
14268	Brother HL1660E (4MB) 16ppm	£769
16650	Brother HL1660EX (10MB) 16ppm	£785
17859	Canon LBP660 6ppm	£184
15658	Canon LBP1260 + 12ppm	£698
10023	Epson EPL5500 1Mb 5ppm	£274
14107	Epson EPL5500 2Mb 5ppm	£319
14233	Epson EPL5500 PS 5Mb 5ppm	£570
17901	Epson EPL-N1200 12ppm	£593
17902	Epson EPL-N1200EN 12ppm	£791
17903	Epson EPL-N1200PS 12ppm	£986
17904	Epson EPL-N2000 20ppm	£1,278
17905	Epson EPL-N2000PS 20ppm	£1,582
15168	HP LaserJet 4MV 16ppm	£1,724
10000	HP LaserJet 5 12ppm	£674
10003	HP LaserJet 5 Colour 10ppm	£2,861
10001	HP LaserJet 5M 12ppm	£997
10004	HP LaserJet 5M Colour 10ppm	£3,600
10002	HP LaserJet 5N 12ppm	£847
14607	HP LaserJet 5N Colour NEW	£3,142
14134	HP LaserJet 5Si 24ppm	£1,649
16652	HP LaserJet 5Si MX 24ppm	£2,249
17628	HP LaserJet 6L 6ppm	£232
14169	HP LaserJet 6MP 8ppm	£592
15368	HP LaserJet 6P 8ppm	£480
17629	HP LaserJet Companion NEW	£115
14604	HP PhotoSmart Photo NEW	£319
14464	Kyocera FS600 6ppm	£239
10024	Kyocera Ecosys FS1550+ 10ppm	£679
14273	Kyocera Ecosys FS1700 12ppm	£695
15894	Kyocera Ecosys FS3400+ 18ppm	£965
17517	Kyocera Ecosys FS3700 18ppm	£985
16608	Kyocera Ecosys FS6500 13ppm A3	£1,175
10012	Lexmark Optra C (8Mb, 600dpi) 12ppm	£4,554
10013	Lexmark Optra E Model A 6ppm	£299
16655	Lexmark Optra Lxi+ Postscript 16ppm	£1,554
16656	Lexmark Optra Lxn+ Postscript 16ppm	£1,809
10014	Lexmark Optra R+ Postscript 16ppm	£839
16653	Lexmark Optra Rt+ Postscript 16ppm	£987
14075	NEC SuperScript 860 8ppm	£248

14235	Oki OKIPAGE 16N 16ppm	£629
13560	Oki OL600ex (300dpi, 1Mb) 6ppm	£219
10037	Oki OL610ex (300dpi, 2Mb) 6ppm	£284
10038	Oki OL810ex (600dpi) 8ppm	£399
14040	Panasonic KXP6300 6ppm	£172
13366	Panasonic KXP6500 6ppm	£235
14407	Panasonic KXP7200 20ppm	£1,175
18506	QMS 2060EX A4/A3 (48Mb) 20ppm NEW	£3,599
18500	QMS 2060GX A4/A3 (16Mb) 20ppm NEW	£2,249
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18501	QMS Magicolor CX EX Ethernet Printer NEW	£3,899
18429	QMS Magicolor WX Colour 3-6ppm NEW	£2,499
17511	Sharp JX9460 6PPM	£539
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LASER RAM UPGRADES

12480	1Mb Oki OL400e	£108
12482	1Mb Panasonic KXP4400 - PEM3	£45
13783	1Mb Panasonic KXP4410/4430 (Add On Chip to Ram Card - 13777) - P445	£99
13777	1Mb Panasonic KXP4410/4430 (Ram Card with 1Mb) - P444	£99
16717	2Mb Oki OL400e	£118
12481	2Mb Panasonic KXP4400/5400	£110
14089	2Mb Panasonic KXP4410/4430	£110
12470	4Mb HP LaserJet 4/4M/4S/4SIMX	£99
15471	4Mb HP LaserJet 4P/4MP/5/5M/5MP/6P/6MP	£39
13809	4Mb HP LaserJet 5L	£59
16716	4Mb Panasonic KXP4400/5400 - PEM2	£165
16432	8Mb HP LaserJet 4P/4MP/4+ /4M+ /5P/5MP/ 6P/6MP/5/5M/5N	£65

LASER CONSUMABLES

11416	Brother HL600 Series Drum	£99
11415	Brother HL600 Series Toner	£19
14222	Brother HL730/760 Series Toner	£19
17645	Brother HL1060 - TN300 Toner	£19
11307	Canon LBP4/Star LP4/ HP IIP Plus/ HP IIP Toner	£45
11308	Canon LBP8/ HP/II/ HP/III/ HP/IV Toner	£63
15468	Epson EPL3000 Toner	£73
11593	Epson EPL4000/4100/4300 Drum	£112
11573	Epson EPL4000/4100/4300 Toner	£86

11304	Epson EPL5000/5200 Toner	£92
15163	Epson EPL5500 Drum	£42
11653	Epson EPL5500 Toner	£30
11529	Epson EPL5600 Toner	£78
11614	Epson EPL7100/7500/8100 Toner	£131
18463	Epson EPL9000/PS Imaging Cartridge NEW	£151
18464	Epson EPLN2000 Imaging Cartridge NEW	£140
11430	Epson G05000/3500 Toner	£16
11436	Epson G05000/3500 Drum	£110
11477	HP 4/4+ /4M+ /4MP	£54
11216	HP 4L/4ML/4P/4MP Toner	£39
11418	HP 4V/4MV Toner	£84
11537	HP 5L Toner	£36
11526	HP 5P/5MP/6P/6MP Toner	£45
11426	HP 5SI Toner	£95
15192	HP IIS/4Si Toner	£72
14606	HP PhotoSmart Cartridge - Orange Star NEW	£24
14605	HP PhotoSmart Cartridge - Purple Moon NEW	£24
14234	Kyocera 800 Toner	£29
15927	Kyocera 3400/6500/1550 Toner	£44
11540	Kyocera FS400 Toner	£15
18471	Kyocera FS1700/3700 Toner Kit NEW	£60
16659	Lexmark Optra C Black Toner	£73
16674	Lexmark Optra C Cyan Toner	£85
16676	Lexmark Optra C Magenta Toner	£85
16675	Lexmark Optra C Yellow Toner	£85
11621	NEC 610/660/660i EP Toner	£73
15060	NEC S60/S62/S90 Toner	£117
14196	Oki 4W Toner	£18
13561	Oki OL400/410/800/810/830/840/ 850/870 Drum	£149
11429	Oki OL400/410/800/810/830/840/ 850/870 Toner	£17
15248	Oki OL400E/OL400W/410E/410EX/ 600EX/610EX/810EX Drum	£129
11482	Oki OL400E/OL400W/410E/410EX/ 600EX/610EX/810EX Toner (4851)	£15
11390	Panasonic KXP4400/5400 Drum	£55
13501	Panasonic KXP4400/5400 Toner	£9
11389	Panasonic KXP4410/4430/4440 Developer	£98
11388	Panasonic KXP4410/4430/4440 Drum & Ozone	£98
11577	Panasonic KXP4410/4430/4440 Toner	£28
11127	Panasonic KXP4420 Developer	£57
11333	Panasonic KXP4420 Drum	£57
11447	Panasonic KXP4420 Toner	£26
11219	Panasonic KXP4450/4450i/4451/4455 Developer	£60

15065	Panasonic KXP4450/4450i/4451/4455 Drum	£75
11214	Panasonic KXP4450/4450i/4451/4455 Toner	£20
11425	Panasonic KXP6100/6150 Toner	£12
11679	Panasonic KXP6300/6500 Toner	£12
18485	QMS 2060 Toner NEW	£165
18481	QMS DeskLaser 600 Toner NEW	£65
18493	QMS Magicolor CX/EX Developer - Black	£145
18494	QMS Magicolor CX/EX Developer - Cyan	£145
18495	QMS Magicolor CX/EX Developer - Magenta	£145
18496	QMS Magicolor CX/EX Developer - Yellow	£145
18489	QMS Magicolor CX/EX Microfine Toner - Black	£45
18491	QMS Magicolor CX/EX Microfine Toner - Cyan	£110
18490	QMS Magicolor CX/EX Microfine Toner - Magenta	£110
18492	QMS Magicolor CX/EX Microfine Toner - Yellow	£110
11332	Qume Crystalprint Toner Drum	£149
16613	Qume Crystalprint Toner Drum	£108
16615	Sharp Toner 9200/9210 (92BC) Drum	£51
16678	Sharp Toner 9660/9680 (96DC) Drum	£99
16677	Sharp Toner 9660/9680 (96DC) Toner	£95
11589	Star LS5 Toner	£68
11562	Star WinType 4000 Toner	£68

LASER ACCESSORIES

14471	Brother HL1060 Serial IV RS100M	£79
14419	Brother HL1660 Second Duplex Unit	£380
15716	HP LaserJet 4 JetDirect Ethernet Card	£235
10946	HP LaserJet 4 Lower Paper Cassette	£199
17502	HP LaserJet 5 Colour Postscript SIMM	£339
14379	Kyocera FS3700/FS1700 Duplex Unit	£345
14382	Kyocera FS3700/FS1700 Output Stacker - 500 sht	£105
11431	Panasonic KXP4420 Ozone Filter	£9
11326	Panasonic KXP4450/4455 Ozone Filter	£20
18484	QMS 2060 A4 Paper Cassette NEW	£100
18483	QMS 2060 Letter Paper Cassette NEW	£100
18498	QMS Magicolor CX/EX Fuser & Oil Cleaning Pad NEW	£30
18497	QMS Magicolor CX/EX OPC Belt Cartridge NEW	£250
18488	QMS Magicolor CX/EX Paper Cassette NEW	£105
18499	QMS Magicolor CX/EX Waste Toner Kit NEW	£110

KYOCERA FS600

NEW

Key Benefits:

- ▲ Very fast processor ensures rapid delivery of first page
- ▲ Robust design and construction
- ▲ Low-cost modular upgrade options
- ▲ Low-cost per page
- ▲ Ideal personal or shared printer

Basic Specifications:

- ▲ 600dpi, 6ppm laser printer
- ▲ Cartridge-free technology
- ▲ 50MHz Power PC processor
- ▲ IEEE 1284 parallel plus option port
- ▲ Internal 150-sheet cassette
- ▲ Optional 250-sheet cassette
- ▲ Ethernet/serial interface options



Product	Code No.	Price	Inc. VAT
250 Sheet Cassette	14479	£120	£141.00
RJ45 Network Card	14500	£142	£131.60
Serial Interface Card	14501	£25	£29.38
1YR Echoshield On Site Warranty	14502	£44	£51.70
3YR Echoshield On Site Warranty	14504	£99	£116.33
TK16 Toner	14503	£30	£35.25

FS600
£239
£280.83 inc. VAT

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HEWLETT PACKARD
new compatible Click-in system

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Click-In System £34.99
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CANON
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HP DESKJET 500/500C	HP51626A	TANKS	£17.00	£19.98
HP DESKJET 500/500C	HP51625A	SYSTEM	£35.00	£41.13
HP DESKJET 500/500C	HP51625A	TANKS	£19.00	£19.98
CANON BJC-400/4100	BCI-21	BLACK	£4.25	£4.99
CANON BJC-400/4100	BCI-21 COL	TRI COL	£7.00	£8.23
CANON BJC-600/610	BJI-201 BK	BLACK	£4.25	£4.99
CANON BJC-600/610	BJI-201 COL	CMY COL	£11.00	£12.93
EPSON STYLUS COL/PRO/PRO XL	SQ20034	BLACK	£7.00	£8.23
EPSON STYLUS COL/PRO/PRO XL	SQ20036	TRI COL	£15.00	£17.63
EPSON STYLUS COL I/HS	SQ20047	BLACK	£7.00	£8.23
EPSON STYLUS COL I/HS	SQ20049	TRI COL	£11.00	£12.93

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FAX: 01582 488588

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- ▲ 1440 dpi colour or true black printing with Epson Super MicroDot™
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- ▲ Epson AutoColour Function
- ▲ Quick-Dry Inks
- ▲ Optimised Printing of Video/Digital Camera Images
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- ▲ 1 year RTB Warranty
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Stylus Color 600
£169
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- ▲ Epson AutoColour function
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- ▲ Optimised Printing of Video/Digital Camera Images
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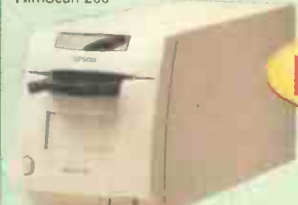
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Includes LivePix CD-ROM photo software and Lexmark Photo Collection CD



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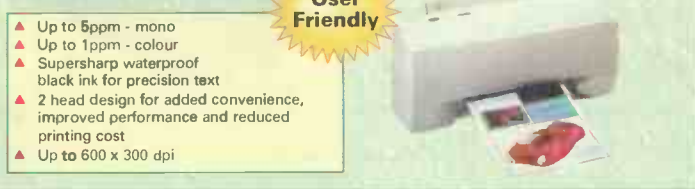
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Full color inkjet printer for business environments



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- Up to 600 x 300 dpi

Canon Get Real with PhotoRealism™

Canon BJC-250

The new BJC-250 is the successor to the BJC-240 printer. The new features of the BJC-250 are:- New Image Optimizer image processing technology which enables you to enlarge and print a low resolution image without jaggedness. This feature is added to the printer driver.

- Increased media support, T-Shirt transfer and Canon's new GP-201 Glossy Photo Paper.
- Improved Windows® 3.1/95 printer driver for better colour matching.
- Supports a wide range of media including high resolution paper
- Optional PhotoRealism™ & Fluorescent neon inks available
- 100 sheet built in sheet feeder
- FREE Software

FREE BC02 Mono Cart. Software worth £14.99
FREE Printmaster Gold Publishing Software worth £29.99

FREE Thomas Cook voucher worth £140

Product	Code No.	Price	Inc. VAT
BJC-250	14468	£104	£122.20
Black Cartridge	11432	£14	£16.45
Colour Cartridge	15322	£18	£21.15

Canon BJC-80

Travel around the world with the BJC-80, and you'll always have the facility for high quality A4 printing at your fingertips. Compact, lightweight and easily portable, it outputs bright, vivid colours at unrivalled colour quality for a portable in its class.

- 720 x 360 dpi Mono on plain paper with smoothing
- 4.5 ppm - Draft mode mono
- 1.9 ppm - High Speed colour graphics
- Incorporates new Image Optimizer technology - smooths away jagged edges!
- Optional Colour Image Scanner Cartridge - 360 dpi resolution
- Built in IRDA Sensor for auto infra-red communication



Product	Code No.	Price	Inc. VAT
BJC-80	14608	£143	£168.03
Black Cartridge	11420	£20	£23.50
Colour Cartridge	18829	£21	£24.68

Canon BJC-620

Top quality colour printing that improves your bottom line.

- 720 x 720dpi resolution on all media inc. plain paper, giving near photographic quality
- The ONLY printer in its class to use a 4 cartridge system. Maximises cost efficiency for colour printing
- High capacity black ink cartridge maximises cost efficiency for monochrome printing
- MS Windows™ Printing System means it is easy to use, increases print speeds and gives a faster return to application so you can continue working whilst it's printing
- Redemption voucher to claim a FREE set of cartridges

New Low Price



Product	Code No.	Price	Inc. VAT
BJC-620	14188	£170	£199.75
Yellow Cartridge	11607	£6.00	£7.05
Cyan Cartridge	13683	£6.00	£7.05
Magenta Cartridge	11608	£6.00	£7.05
Black Cartridge	11646	£8.00	£9.40

Canon BJC-4300

The BJC-4300 is equally at home in the study or office. For family and business use, from club newsletters to working at home, every document you produce will be in high quality, impressive colour.

- 720 x 360 dpi Mono on plain paper with smoothing
- Incorporates new Image Optimizer technology - smooths away jagged edges!
- Optional Colour Image Scanner Cartridge - 360 dpi resolution

FREE Thomas Cook voucher worth £140



FREE CATZ Software worth £14.99
FREE Printmaster Gold Publishing Software worth £29.99

Product	Code No.	Price	Inc. VAT
BJC-4300	14610	£141	£165.68
Black Cartridge	11402	£21	£24.68
Colour Cartridge BC21e	18828	£25	£29.38

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STAR FEATURES

- ▲ Compact Bubble Ink-Jet printer - with its small dimensions it fits in almost anywhere
- ▲ Autoswitch power saving - for ease of operation
- ▲ 'Plug and Play' compatible with Windows® 95 - for simple installation
- ▲ Oilchrome driver for Windows® - gives total control over final output

JP 170C	
Model	JP 170C
Columns	A4
Interfaces	Parallel Centronics (Serial Opt)
Cables	
Emulation	Desk Jet a/PCL3+Desk Jet 500C IBM PP4207
Resolution dpi	600x300 Mono - 300x300 Colour
Mono Print Speed	Up to 3 ppm Mono
Fonts	30 Bit Map Fonts
Paper Handling	Auto Sheet Feeder 40 Page
Dimensions (W x D x H)	376 x 200 x 165
Weight	3.0 kg
Warranty	12 months On Site/Exchange

JP 170C. COMPACT COLOUR PRINTER

A colour inkjet which prints beautifully and sits easily on your desk top. At last a printer that lives up to its claims.



JP 170C Printer
£95
 £116.25 inc. VAT

JP 90M BUBBLE INK-JET PRINTER

The award winning JP 90M's portability makes it a great choice for the mobile user - it is the smallest and lightest portable inkjet printer available.



JP 90M Black	
Model	JP 90M Black
Columns	B0
Mono Print Speed	2.2 ppm
Cables	
Emulation	PCL3+IBM PP.XL 24 - Epson LQ 850
Resolution dpi	600x300 Mono - 300x300 Colour
Fonts	30 Bit Map Fonts
Paper Handling	Auto Sheet Feeder A4
Dimensions (W x D x H)	300 x 132 x 67
Weight	1.1 kg
Warranty	12 months On Site/Exchange

JP 90M Printer
£114
 £133.95 inc. VAT

Smallest Bubble Ink-Jet Available

JP 790 BUBBLE INK-JET PRINTER

To give you top-quality printing every time, Olivetti has come up with a truly brilliant solution. Five colours instead of four: the usual cyan, magenta and yellow, plus two black inks. "Graphical black", which has been developed specifically for use with the other colours, gives an excellent chromatic quality on

details and enhances image sharpness. And "jet black", a deep, saturated ink which is ideal for maximising contrast on text or on graphics with large monochromatic areas.



Top Quality Printing Everytime

JP 790C Printer
£158
 £185.65 inc. VAT

JP 790C	
Model	JP 790C
Columns	A4
Interfaces	Parallel Centronics (Serial Opt)
Cables	
Emulation	PCL III+
Resolution	600x600 Mono - 600x600 Colour
Mono Print Speed	Up to 6 ppm Mono
Colour Print Speed	Up to 3 ppm Colour
Fonts	42 Resident Fonts
RAM	512KB - 32KB Buffer
Paper Handling	120 Sheets - 25 Envelopes
Dimensions (W x D x H)	465 x 465 x 236
Weight	3.0 kg
Warranty	12 months On Site/Exchange

The Multifunctional plain - paper fax machines

OFX 1200 LINK FAX

A perfect compact communications machine. The versatile and economical entry level plain paper multi-functional fax machine high quality inkjet printing, which comes with an integrated hand set and telephone answering machine. A fully multi-functional communication tool.



OFX 1200 Fax
£349
 £410.08 inc. VAT

OFX 3200 LINK FAX

The perfect business machine for the more demanding user. The OFX 3200 delivers a huge

range of user functions with the advantage of handling A3

Now available! OFx 3200 For isdn



format transmissions. It also benefits from a fast 14,400 Bps modem designed to significantly reduce running cost. This machine retains its "Best Buy" for fast faxing, large memory and excellent paper handling. (AS QUOTED in "What to Buy for Business 1997")

OFX 3200 Fax
£469
 £551.08 inc. VAT

OFX 2200 LINK FAX

A superb multi-functional fax. The OFX 2200 is a comprehensively featured multi-functional professional fax machine. Perfect for the small office or departmental user. A wide variety of functions are available at your fingertips, including deferred transmission and speed dialing.



OFX 2200 Fax
£399
 £468.83 inc. VAT

"Superb Multi-functional Fax"

Model	OFX 1200	OFX 2200	OFX 3200
Print Technology	Inkjet	Inkjet	Inkjet
Group Compatibility	ITU - T Group 3	ITU - T Group 3	ITU - T Group 3
Resolution	300 dpi	300 dpi	300 dpi
Fax/Phone Switch	Yes	Yes	Yes
Answerphone Built-In	Yes	No/TAD Connector	No
One Touch Dialing Keys	10 Phone 10 Fax	16 Phone 16 Fax	30 Phone 30 Fax
Quick Dial	32 Phone 32 Fax	100 Phone 100 Fax	100 Fax
Dual Access	No	Yes	Yes
Interface	Bi Directional Parallel	Bi Directional Parallel	Bi Directional Parallel

Model	OFX 1200	OFX 2200	OFX 3200
Software Compatibility	Win 95 - 3.11 - 3.1	Win 95 - 3.11 - 3.1	Win 95 - 3.11 - 3.1
Document Feed Capacity	10 Page Auto Feeder	25 Page Auto Feeder	25 Page A4-15 Page A3
Handset	Yes	No	No
Dimensions (W x D x H)	395 x 325 x 230	340 x 325 x 230	340 x 421 x 288
Weight	6.5	8.5	8.5
Paper Tray	70 Sheets	200 Sheets	200 Sheets
Consumables	Refillable Ink Cartridge	Refillable Ink Cartridge	Refillable Ink Cartridge
Warranty	12 Mths On Site/Exchge.	12 Mths On Site/Exchge.	12 Mths On Site/Exchge.

MEMORY - Based on ITU - T Test Chart No.1

OPTIONS - Wordcraft Lazer Fax 3 Software



Watford Electronics

www.watford.co.uk

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brother
More than just features

HL-730

The award winning, low-cost printing solution.

The ideal desktop printer, providing the 'best of both worlds' by allowing you to print directly from Windows and DOS.

- ▲ Windows and direct DOS printing
- ▲ True 600dpi print resolution
- ▲ 6 pages per minute print speed
- ▲ Straight paper path technology
- ▲ Easy to set up and use
- ▲ Low running costs
- ▲ Microfine toner included
- ▲ 200 sheet adjustable paper tray



TONER FOR ABOVE
£19
E22.32 inc. VAT

HL-730
£199
E233.83 inc. VAT

HL-760

The professional printing solution

The high quality, affordable laser printer offering superb output - up to 1200dpi, network connectivity options and multi-emulations for professional documentation.



- ▲ Windows and direct DOS printing
- ▲ True 1200dpi print resolution
- ▲ 6 pages per minute print speed
- ▲ Straight paper path technology
- ▲ Auto interface/emulation switching
- ▲ 200 sheet adjustable paper tray
- ▲ PCL 5e compatible
- ▲ Multiple emulations
- ▲ Low running costs

HL-760
£229
E267.08 inc. VAT

MC-3000

The NEW three-in-one colour printer, copier and scanner

Printer

- ▲ 720x720dpi resolution
- ▲ 2.5 colour or 5 monochrome pages per minute
- ▲ 200 sheet capacity

Copier

- ▲ Reproduce colour documents direct from your desk

- ▲ 720x720dpi A4 copy

- ▲ Automatic colour matching software

Scanner

- ▲ 24bit technology
- ▲ 1200dpi final resolution
- ▲ Software includes - Xerox OCR 'Textbridge', Visioneer 'PaperPort' and Unleaded Systems iPhotoExpress'

3 in 1



MC-3000
£449
E527.58 inc. VAT

HL-1060

High quality print at a surprisingly low price

A laser printer that makes high quality, high speed and high capacity highly affordable.

- ▲ Up to 1200 x 600 dpi printing
- ▲ 10 pages per minute print speed
- ▲ Dual bin as standard
- ▲ Straight paper path
- ▲ Multiple emulations
- ▲ Auto interface switching
- ▲ Network connectivity option
- ▲ 2Mb RAM



TONER
£20
E23.50 inc. VAT

HL-1060
£399
E468.83 inc. VAT

HL-1260e

Stunning graphic and text reproduction

Incorporating Brother's own high speed 12ppm engine and 1200dpi, the Brother HL-1260e delivers superb quality output with stunning graphic and text reproduction, for professional documentation.

- ▲ PCL5e/BR-Script
- ▲ True 1200 x 600 dpi
- ▲ 650 sheet paper input
- ▲ 2Mb memory upgrade to 66Mb

What is Straight Paper Path Technology?



- ▲ Reduces annoying jams and curls
- ▲ Prints envelopes reliably
- ▲ Prints on a wide variety of stocks and sizes
- ▲ Less paper path distance, faster throughput
- ▲ Multiple emulations
- ▲ Auto interface switching
- ▲ Network connectivity option

HL-1260e
£693
E814.27 inc. VAT

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The Ultimate in Affordable Quality wherever you are!

HP HEWLETT PACKARD

Authorised Reseller
Personal Computer
Products

The Laserjet 6L

The HP LaserJet 6L printer is just right for the individual business user working at home or at the office. It offers high print speed, great output quality, exceptional media versatility and compatibility with popular operating systems. It is also compact, quiet and reliable.

- ▲ Fast and efficient personal laser printing.

A 6-page-per-minute engine and 18 seconds for first-page-out ensure rapid results. A patented instant-on fuser eliminates the delays associated with slow warm-up. Improved I/O handling means even faster return-to-application.

- ▲ Ideal for the individual user.

Space-saving and affordable, the HP LaserJet 6L printer puts out fast, high-quality laser printing well within the reach of the individual user in any size office.

- ▲ Rapid results with 6-ppm engine

- ▲ Razor sharp text and crisp graphics thanks to a true 600x600 dpi, HP RET and microfine toner

- ▲ Able to print on envelopes, labels, postcards and transparencies

- ▲ Compatible with major IT platforms

- ▲ Compact, affordable and reliable



Fastest personal laser printing for professionals

Laserjet 6L
£232
E272.60 inc. VAT

The NEW HP Laserjet Companion

The NEW HP LaserJet companion HP's small personal LaserJet printer accessory adding copy, fax, file and read capabilities.

- ▲ Expands the functionality of your personal HP LaserJet printer, allowing you to

- Copy. Convenience copies at the touch of a button, even with the PC switched off.
- File. Storage of many types of documents on PC.
- Read. Conversion of hardcopy documents to editable text.
- Fax. Send faxes in conjunction with a PC fax modem.

- ▲ Easy to use thanks to intuitive 2-button control and auto-launch software with drag-and-drop functions

- ▲ Light-weight & compact, fits between your PC & printer

- ▲ Can be employed with any HP LaserJet 4,5 or 6 Series printer

- ▲ 4 additional functions for just one low price

- ▲ 4 high-quality functions, one low price. The HP LaserJet companion is great value for money, providing 4 extremely useful functions at exceptionally low cost. It makes an ideal addition to any personal HP LaserJet printer, taking up the minimum of desk space.



Read it, Copy it, File it, Fax it!

HP Laserjet C Comp.
£115.50
E135.71 inc. VAT

The HP 670C Deskjet

- ▲ Black & Colour ink cartridges work together, so no switching from one to the other.

- ▲ Print speed (1-4 PPM black, 0.3-1.5 PPM colour).

- ▲ Hassle free printing on a wide variety of paper, including cards, envelopes, transparencies & labels.

- ▲ Automatically feeds up to 20 envelopes or 30 index cards.

- ▲ HP's RealLife Imaging for true-to-life images.

- ▲ Crisp black text and photo quality colour printing.

- ▲ Spectacular colour automatically with HP ColourSmart.

- ▲ No special paper required. • Quick and easy installation.

- ▲ Compatible with Win3.1, Win95, and DOS.



HP 670C DESKJET
£121
E142.18 inc. VAT

For more information on any of the Hewlett Packard range, call our Sales Specialists on 01582 745555



Sales Hotline: 01582 745555

FAX: 01582 488588

FOR ORDERING INFORMATION SEE PAGE 2

Prices exclude carriage & VAT @ 17.5% except where shown.



EPSON

EPSON Stylus Color 300

New low cost 4 colour inkjet printer, ideal for both education and at home



NEW

INK CARTRIDGES FOR STYLUS 400/600/Photo

BLACK **£12**
£14.10 inc. VAT

COLOUR **£19**
£22.32 inc. VAT

Aries

- ▲ Affordable four colour inkjet
- ▲ Up to 720dpi colour & true black printing
- ▲ Photo Real colour as standard
- ▲ Single four colour (CMYK) ink cartridge
- ▲ Up to 3ppm black and 1.2ppm colour
- ▲ Designed exclusively for Windows
- ▲ Epson AutoColour function
- ▲ Epson Quick-Dry Inks
- ▲ Windows '95 ICM Colour Matching
- ▲ 1 year RTB warranty with optional 3 year on-site warranty

Stylus Color 300
18197

£121
£142.18 inc. VAT

COLOUR INK CART.
£15
£17.62 inc. VAT

BLACK INK CART.
£13
£15.28 inc. VAT

EPSON EPL-5500

The little **BIG** laser from Epson.

Just half the size of other conventional lasers, the EPL-5500 is compact enough for any desktop.



- ▲ World's most compact 6ppm Laser - 5Kg, small footprint
- ▲ True 600 x 600dpi - with BiRIch and MicroGray Technology
- ▲ HP PCL5e, GL2 - Optional PostScript, Epson FX and LQ, IBM, WPS emulations
- ▲ 1Mb (upg. to 32Mb) - with Epson's Memory Improvement Technology
- ▲ SparcLite 22.5 MHz RISC CPU - very fast printing
- ▲ 150 Sheet Paper Tray - Optional 250 Sheet Paper tray available

EPSON COVER plus + **£65**

Product	Price inc. VAT
1Mb	£174.00
2Mb	£312.00
5Mb PS	£70.00

EPSON COVER plus +

- Epson CoverPlus is a new extended warranty service designed to offer a flexible and comprehensive service for all Epson printers, scanners and video projectors. It gives customers the option with the product to cover them for extra entitlement should their product develop any fault. Peace of mind through reliability.
- ▲ 3 year extended warranty service available on all Epson printers, scanners and video projectors.
 - ▲ Flexible cover - 4 or 8 hour on-site response packages
 - ▲ Product history known as own product is repaired not replaced
 - ▲ Warranty is transferable if product is sold on
 - ▲ Epson trained engineers and Epson spares used
 - ▲ Options also covered if included with registered product
 - ▲ Refer to specific product for price

EPSON Stylus Color 400

UNBELIEVABLE VALUE

Low cost easy to use advanced 720 dpi colour printer. Photo-real output at 720 dpi without any additional options



- ▲ 720 dpi printing in colour & mono with Epson MicroDot™
- ▲ Photo Real Colour & Laser Sharp Mono Printing as standard
- ▲ Up to 3ppm Colour, 4ppm Mono printing on plain paper
- ▲ 1 year RTB warranty with optional 3 year on-site warranty
- ▲ Epson CoverPlus 3 year extended warranty service available - £65

EPSON COVER plus + **£65**

Stylus Color 400
14294

£133
£156.28 inc. VAT

EPSON Stylus Color 600

1440dpi colour & true black printing PhotoReal colour

- ▲ Photo-Real colour as standard
- ▲ Up to 4ppm colour 6ppm mono printing
- ▲ Advanced dual ink cartridge system with Epson Quick Dry Ink.
- ▲ Optimised printing of video/digital camera images
- ▲ 1 year RTB warranty with optional 3 year on-site warranty



EPSON COVER plus + **£65**

Stylus Color 600
16407

£169
£xx inc. VAT

Personal Computer World
EDITOR'S CHOICE

EPSON Stylus Color 800

Ultra fast - up to 8ppm mono & 7ppm colour 1440dpi printing

- ▲ Photo-Real colour as standard
- ▲ High capacity dual ink cartridge system
- ▲ Optimised printing of video/digital camera images
- ▲ Optional Postscript & network capability
- ▲ 1 year RTB warranty with optional 3 year on-site warranty

EPSON COVER plus + **£65**

Stylus Color 800
16405

£221
£259.67 inc. VAT

COLOUR INK CART.
£15
£17.62 inc. VAT

BLACK INK CART.
£15
£17.62 inc. VAT

EPSON PhotoStudio

EPSON Stylus Photo

EPSON Stylus Photo Studio has been designed as a dedicated photo printer for home, business or professional users.

- ▲ Photo Reproduction Quality output (PRQ)
- ▲ Optimised for photo reproduction (can also print text as usual)
- ▲ Prints 4" x 6" format and enlargements to A4 size
- ▲ Normal and light colour QuickDry Inks (6 colour printer)
- ▲ Up to 720 x 720 dpi resolution
- ▲ From 2 minutes per 4" x 6" photo size print
- ▲ Windows and Macintosh Compatible
- ▲ Comes bundled with Software including LivePix for Windows 95 and Macintosh



NEW

Personal Computer World
Highly Recommended

Stylus Photo
£308
£361.90 inc. VAT

BLACK INK CART.
£12
£14.10 inc. VAT

COLOUR INK CART.
£19
£22.32 inc. VAT

EPSON COVER plus + **£65**

EPSON FilmScan 200

EPSON Photo Studio FilmScan 200 is a dedicated film scanner for high quality scanning of 35mm positive, negative, mounted slides or the new Advanced Photo System format if the optional Advanced Photo System cartridge holder is installed.

- ▲ Affordable high quality scanning
- ▲ 1200 dpi optical resolution up to 4800 dpi with interpolation
- ▲ 30 bit per pixel image processing in colour single pass scanning
- ▲ Optical Advanced Photo System cartridge holder
- ▲ Batch scanning capability - up to 6 images, simultaneously
- ▲ Fully TWAIN compliant
- ▲ PC and Mac compatible (both parallel and SCSI versions available)
- ▲ Bonus Pictureworks PhotoEnhancer and Presto Photo Album software included

Scanner for MAC
£326
£383.05 inc. VAT

SCSI Scanner Windows
£326
£383.05 inc. VAT



Watford Electronics

www.watford.co.uk

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Panasonic

KXL-783A

- ▲ Connects to a Notebook Computer through a standard PCMCIA Type II Card (PCMCIA Type II Card and Cable are Included).
- ▲ 8x Speed External Drive.
- ▲ Windows 95, Windows 3.1, Windows 3.11, Windows NT 3.51, OS/2 Warp V3 Ready.
- ▲ Operates on Compact and Lightweight AC Adaptor. Six (6) "AA" LR6" Size Alkaline Batteries (not supplied).
- ▲ Supports Many CD-ROM Formats.
- ▲ SPATIALIZER-delivers 3-Dimensional Surround Sound. Expands the sound from two conventional speakers.
- ▲ lays Audio CD's.
- ▲ Built-in Stereo Speakers and Headphone Jack. - Use as a Portable Audio CD Players - Great for Music and Game Play!
- ▲ SCSI-2 Command Compatible. Easy to Install Software. Helpful 3.5" Setup Disk Included.



▲ Power Save Feature. Drive enters "sleep mode" after 4 minutes to Extend Battery Life.

Ask for your FREE Software when ordering

KXL-783A
16935
£244
£286.70 inc. VAT

NI-CD BATTERY
17730
£39
£45.82 inc. VAT

IDE CD ROM DRIVES

SIXTEEN SPEED

16777	Aries 16X IDE CD ROM Drive	£43
18155	Hitachi CDR-8130 16X	£48
16809	Mitsumi FX140 16X	£43
17854	Philips 16x	£52
17692	Toshiba XM56002B 16x MAX	£49



TWENTY FOUR SPEED

14442	Aries 24x IDE CD ROM Drive	£46
18259	Aztech Zeta 24x	£69
18478	CDR585B Creative Blaster24x	£52
18260	Goldstar 24x	£55
18156	Hitachi CDR-8330 24X	£55
17889	Mitsumi FX240 24X	£49
18261	Pioneer DR511 24x	£55
17693	Panasonic CR585 - 3600Kbs Max 128K Cache 85ms	£49
18262	Teac CD524E 24x	£55

SCSI CD ROM DRIVES

SIXTEEN SPEED

17807	Teac CD-516S 16x MAX	£79
18263	Toshiba XM3801B 16x Internal	£89

TWENTY SPEED

17698	Plextor PX20TS1 20 Speed MAX Internal	£99
17699	Plextor PX20TSE20 Speed MAX External	£132

TWENTY FOUR SPEED

18264	Pioneer DRU24x 24x Internal	£89
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THIRTY TWO SPEED

—	Plextor PX32TS1 32 Speed MAX Internal	£125
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JUKEBOX CD ROM DRIVES

15850	Nakamichi MJ5.16 16x 5CD SCSI Internal	£265
16470	Pioneer DRM-624X Quad Speed 6 Disk Jukebox 150ms 1800KB/s	£369

PARALLEL CD ROM DRIVES

13690	Amacom EZCD 4x	£115
15760	Amacom EZCD 4x with Sound	£179
15763	Amacom EZCD 8x	£135
15762	Amacom EZCD 8x Sound	£195
14509	Amacom EZCD x16	£149
14510	Amacom EZCD x16 with Sound	£212
15555	Backpack 8S	£179
15556	Backpack 8S - with Sound	£190
16830	Backpack PD/CD	£425
16831	CD Shuttle P - 8X CD Rom	£229

PCMCIA CD ROM DRIVES

16584	Amacom EZCD Card x4 - Quad Speed	£129
16585	Amacom EZCD Card x8 - Eight Speed	£145
17770	Amacom EZCD Plus - Eight Speed CD-Rom /Audio	£169
—	Amacom EZCD Plus - Sixteen Speed CD-Rom /Audio	£205
—	Amacom EZCD x16 - Sixteen Speed	£165
15666	Freecom Power CD/8S PCMCIA	£109
15847	FREEDOM POWER x12 CD Rom	£195
16936	Panasonic Travelspin KXL-783A - Eight Speed	£250
17730	Panasonic Rechargeable NiCad Battery - KXL-030 for KXL-783A	£39

READ/WRITE CD ROM DRIVES (CD-R/CD-RW)

ARIES

17892	Compro 8x R 4x W SCSI Incl. Card	£379
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HEWLETT PACKARD

18427	Surestore 7100i CD-RW 2x2x6 Internal IDE	£232
18428	Surestore 7100e CD-RW 2x2x6 External Parallel	£285

MITSUMI

16794	CR2600 CD-Recorder 6x Read, 2x Write E-IDE	£189
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NOMAI

17897	680.RW Internal EIDE 6x Read, 2x Write	£265
17893	680.RW External Parallel 6x Read, 2x Write	£342
17894	680.RW External SCSI Incl. Card 6x R, 2x W	£359
17895	680.RW Internal SCSI Incl. Card 6x R, 2x W	£309
17896	680.RW Internal SCSI Bare 6x Read, 2x Write	£299

PHILIPS

—	CD0266CR Internal 2x 2x 6x SCSI Drive	£259
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PLASMON

17700	CDR480i-S1 Internal 8xR 4xW	£375
17701	CDR480i-S1-PC Int 4x W, 8x R Adaptec I/F	£445
17702	CDR480E-S1 - External 4X Write 8X Read	£405
17703	CDR480E-S1-PC - Ext 4x W/8x R inc Adaptec I/F	£469

RICOH

17808	MP6200 CD-RW/CD-R Int 6x Read 2x W BARE	£299
17844	MP6200 CD-RW/CD-R Int 6x Read 2x W KIT	£342
17845	MP6200 CD-RW/CD-R External 6x Read 2x Write	£385

SONY

17846	CD-Rom Writer Int (CDU-928E) 8xR, 2xW EIDE	£221
17847	CD-Rom SCSI Writer Int (CDU-926S) Bare + SW	£289
17848	CD-Rom SCSI Writer Kit Int (CDU-926S) Kit	£303

16821	Teac CD-R504S 4xWrite CD-Writer	£399
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TRAXDATA

16345	CDR2604EL 6x Read 2x Write Entry Level	£209
16285	CDR2604 6x Read 2x Professional Kit	£239
—	CDR2604 6x Read 2x Professional Kit External	£269
16346	CDR4604EL 6x Read 4x Write Entry level	£329
16347	CDR4604 6x Read 4x Professional Kit	£369
—	CDRW2260 6x 2x 2x Professional Kit	£249
—	CDRW2260EL 6x 2x 2x Entry Level	£219
—	CDRW4260 6x 4x 2x Professional Kit	£419
—	CDRW4260EL 6x 4x 2x Professional Entry level	£389
—	YAMAHA CDR200T 2x6x Internal S/W & SCSI Card	£195

—	CDR200TX 2x6x External S/W & SCSI Card	£235
17898	CDR400T 4x Write 6x Read Internal S/W & SCSI Card	£339
13657	CDR400C 4X Int FULL KIT Caddy Loading	£389
17809	CDR400TX 4X External Tray Loading + Software	£349
—	CDRW4001T 4x 2X 6x Internal IDE Tray load + software	£399
—	CDRW4001 4x 6x Internal EIDE Kit	£379

DIGITAL VIDEO DISK DRIVES (DVD)

18477	Creative DVD Encore Kit	£255
17513	Hitachi DVD 4.7Gb Int Bare Drive ATAPI - GD2000	£259
17245	Toshiba DVD 4.7Gb Internal IDE Bare Drive ATAPI - SD-M 1002	£210
17744	Sony DVD 4.7Gb Internal	Call

OPTICAL DRIVES

16832	Plasmon DW260 2.6Gb External	£1,295
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MULTIMEDIA KITS

17644	KTX Work & Play 12X Multimedia Kit	£139
—	Creative Blaster 24X Discovery Kit	£105
16806	Diamond Ultrakit 12000 12x Multimedia Kit	£195

SOUND / MIDI DEVICES

ARIES

13920	16 Bit 3D PnP Sound Card (SB Compatible)	£29
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AZTECH

10446	Sound Galaxy Waverider Pro 32 3D (I) PnP	£34
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CREATIVE LABS

10482	Sound Blaster 16 Value PnP	£34
17851	Sound Blaster AWE64 Value	£55
16807	Sound Blaster AWE64 GOLD	£105
17833	4MB Ram Upgrade for AWE64	£29
—	3DD Blaster Game Player	£195

DIAMOND

—	Monster Sound 3D	£99
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EVOLUTION ELECTRONICS

15852	Commodore MK10 Keyboard Pack	£39
15851	Commodore MK149 Keyboard Pack	£92

GRAVIS

16839	UltraSound ACE Wavetable Add In Card	£75
14014	UltraSound MIDI Kit	£39
10460	UltraSound PnP	£109
14013	UltraSound PnP PRD	£129

ORCHIO

14031	NuPanel	£19
10721	Wavebooster 2Mb	£19

TYPHOON

16842	Gold PnP	£25
16843	Wave Star 32 3D	£25
16844	FM Radio Card	£25

SPEAKERS & ACCESSORIES

16364	SP261 15W HiFi Plus Speakers	£25
10699	SP681 10W HiFi Speakers	£19
10747	SP868 80W Power Speakers	£25
10200	Stereo Speakers	£9
10185	Screen Microphone	£8
10128	Stereo Headphones	£5
16846	Typhoon Desktop Adjustable Microphone	£7
16847	Typhoon Headset with Microphone (Full Duplex)	£9
16845	Typhoon Lapel/Monitor-Mount Mini Microphone	£5

CD MEDIA & ACCESSORIES

11966	Writeable Blank CD Media (CD-R Disks)	£1.79
—	Writeable Blank CD Media (CD-R Disks) 10 Pack	£15
—	Writeable Blank CD Media (CD-R Disks) 50 Pack £92.50	£16
18016	ReWriteable Blank CDRW Media	£16
16348	Traxdata Press-it CD Labelling Kit	£17
17247	CD Cleaning Kit - Polish, Lens Cleaner, Cloth etc.	£20
—	Traxdata Audio Accessories Recording Kit	£49

17251	Traxdata Press itPack of 50 White Labels	£9
17252	Traxdata Press it Pack of 50 Blue Labels	£13
17253	Traxdata Press it Pack of 50 Yellow Labels	£13
17254	Traxdata Press it Pack of 50 Red Labels	£13
17255	Traxdata Press it Pack of 50 Gold Labels	£13
17256	Traxdata Press it Pack of 50 Silver Labels	£13
17257	Traxdata Press it Pack of 50 Clear Labels (Laser Printer)	£22
17258	Traxdata Press it Pack of 50 Clear Labels (Inkjet Printer)	£22

CONTROLLER CARDS

16-BIT ISA BUS

10348	AT Multi I/O - 2S/P/G	£9
10351	AT Multi I/O - IDE/FDD/2S/P/G	£11
10392	AT Multi I/O - 2S(16550)/P	£18
10349	2xIDE/2xFDD Controller	£9
17217	Promise EIDEmax 4EIDE (LBA Interface f or up to 8.4Gb Drives)	£27
—	Promise EIDEpro 4 EIDE 2S/1P 16550 LBA	£35
13870	Single RS232 (16550) Serial Card	£15

VESA LOCAL BUS

10389	VL Multi I/O - IDE/FDD/2S/P	£12
10385	VL Multi I/O - IDE/FDD/2S(16550)/P	£26
17219	Promise EIDE 2300Plus 4HDD/2FDD 2S (16550), 1P, 1G	£35
10354	Promise EIDE 4030Plus 4HDD/2FDD 2S (16550), 1P, 1G - OK Cache	£99

ADAPTEC

17220	EIDE - AT 32 VP Kit	£25
17221	EIDE - AT 42 VP Kit (Inc Floppy Controller)	£34
17222	EIDE - AT 52 VP Kit (Inc Floppy & serial/parallel)	£41

PCI BUS

10384	Enhanced IDE Controller	£16
17223	Promise DC5030 4HDD IDE (Bus Master) OK Cache	£105
18035	Promise Ultra ATA PCI 4ATA/IDE	£59

SCSI CARDS

ADAPECT BARE BOARD

17225	1542CP ISA SCSI Bare	£112
17226	2940AU PCI Ultra SCSI Bare	£129

SCSI KITS

—	AAA-113 PCI to Wide Ultra SCSI Array	£570
10381	1460 PCMCIA SCSI Kit	£105
10499	1505 Total CD Kit	£32
10395	1542CP ISA SCSI Controller Kit	£152
13936	2742 EISA SCSI Controller Kit	£219
17229	2825 Total Advantage VL Kit	£75
—	2910B PCI SCSI Kit	£65
10488	2920 PCI SCSI Controller Kit	£89
10399	2940AU PCI SCSI Controller Kit	£149
13074	2940UW PCI Ultra Wide SCSI Controller Kit	£175
10483	358 Mini SCSI Plus Enhanced Parallel	£79
10487	3940 PCI Multi-Channel SCSI Controller Kit	£254
17230	3940UW PCI SCSI Ultra Wide Multi Channel Kit	£293
15748	3985 PCI Raid Kit	£445

BUS LOGIC

17231	KT 930C PCI ULTRA SCSI Adaptor Kit	£115
17232	BT 930C PCI ULTRA SCSI (Card Only)	£95
17233	KT 950C PCI ULTRA WIDE SCSI Adaptor Kit	£165
17234	BT 948 PCI SCSI Adaptor	£149
17235	KT 445C VLB 32 Bit SCSI Adaptor	£95
17236	KT 545C ISA 16 Bit SCSI Adaptor	£129
—	CMO 17238 6500 PCI SCSI Host Adaptor	£148
17239	6520 PCI SCSI (OK) Expandable to 64Mb	£195

SYMBIOS LOGIC

17735	SYM8150S SCSI Card	£75
17736	SYM8251S Wide SCSI Card	£105
17737	SYM8750SP Ultra SCSI Card	£95
17738	SYM8751SP Ultra Wide SCSI Card	£95
—	PROMISE Promise SCSI Plus 7 x SCSI Devices PCI	£69
—	Promise SCSI Max 15 x SCSI Devices PCI Fast/Wide	£95
—	Promise SCSI-Ultra 20 x SCSI Devices SCSI 1	£95

PCMCIA CARD ADAPTORS

17243	Psion Gold Drive PCMCIA Card Reader	£89
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FAX: 01582 488588

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Prices exclude carriage & VAT @ 17.5% except where shown.



TRAXDATA®

Record your own CD's
MUSIC • DATA • VIDEO

CD RECORDERS • CD REWRITABLE CD-R MEDIA

CD-R MEDIA

High Quality 74 Minute CD-R, and CD-RW Media suitable for Recording, Re-Writing and playback.



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INTERNAL CD-R KIT

CDR2600EL

CDR2600EL
£179
18345
£210.33 inc. VAT

CDR2600EL includes:

- Internal 2x 6x Recorder
- Win 3.11, '95 NT Software
- Win '95 IPW Software
- 2x CD-R Media
- SCSI Cable, Power Cable, Screws
- CD Marker Pen



EXTERNAL PARALLEL PORT CD-R KIT

CDE2600ELP

CDE2600ELP
£269
18509
£316.08 inc. VAT

CDE2600ELP includes:

- External 2x 6x Recorder
- Parallel to SCSI Converter Cable
- Win 3.11, '95 NT Software
- Win '95 IPW Software
- 2x CD-R Media
- Power Cable and CD Marker Pen



INTERNAL CD-RW KIT

CDRW2260

CDRW2260
£229
18510
£269.08 inc. VAT

CDRW2260 PLUS includes:

- Internal 2x 2x 6x IDE CD-RW
- Windows Authoring Software
- Win '95 IPW Software
- IDE Cable, Power Cable, Screws
- CD Marker Pen



CD-RW MEDIA

CD-RW Discs

FROM £15
(£17.63 inc. VAT)



**NEED MORE INFORMATION?
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**IDE CD-RW!!
SCSI also available
please call**

CDRW4260

CDRW4260
£369
18016
£433.58 inc. VAT

CDRW4260 PLUS includes:

- Internal 4x 2x 6x IDE CD-RW
- Windows Authoring Software
- Win '95 IPW Software
- IDE Cable, Power Cable, Screws
- CD Marker Pen



NEED A SCSI CARD FOR YOUR CD-R?

SCSI ACCESSORY KITS

ACC001/2
£44
18331
£51.70 inc. VAT

ACC001/2 (please specify) includes:

- Bus Mastering ISA or PCI SCSI Card
- Internal and External Connectors
- On-Board Bios
- SCSI Interrogator Software
- SCSI Cable, Power Cable
- 1x CD-R Media
(ACC001=ISA, ACC002=PCI)



BRING MUSIC TO YOUR EARS!

JUST AUDIO™ RECORDING STUDIO

ACC004
£39
18343
£45.83 inc. VAT

ACC004 includes:

- Just Audio™ Recording Studio Software
- 2m Audio Lead - 2 x Phono Plugs (Red/White) to 3.5mm Stereo Plug
- 1.2m Audio Lead, 3.5mm Stereo Plug to 3.5mm Stereo Plug
- Adapter 3.5mm Stereo Socket to 6.3mm Stereo Plug



WANT TO LABEL YOUR OWN CD'S?

PRESSIT CD LABELLER

PressIT CD Labeller includes:

- PressIT CD Label Placer • PC / MAC Templates
- DesignXpress Software • 20 Labels

Product	Price	Inc. VAT
White	£9	£10.58
Gold, Blue, Red, Yellow, Silver	£13	£15.28
Clear InkJet	£22	£25.85
Clear LaserJet	£22	£25.85

CD Labeller
£14.99
16348
£17.62 inc. VAT



BUY TRAXDATA CD-R MEDIA
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RETAIL STORE: 250 LOWER HIGH STREET, WATFORD WD1 2AN TELEPHONE: 01923 237774

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Flip disk

The Flip Disk is a revolutionary, new portable data storage device that is smaller, faster and offers greater capacity than anything else on the market

- ▲ Powered directly from your Notebook or PC
- ▲ No need for external power supplies or batteries
- ▲ No Interface cable required
- ▲ Up to 6.4GB of data storage capacity (using data compression)
- ▲ 2.5" industry standard hard drives used
- ▲ MTBF rating of 300,000 power-on-hours
- ▲ Built-in shock absorbers for added reliability

Key Features

Connects via PCMCIA/Parallel Ports Unique Design High Build Quality & Reliability Includes 'Novadisk' Backup Software



2.8GB £349 18574 £410.07 inc. VAT	4.2GB £439 18575 £515.83 inc. VAT	6.4GB £CALL 18576 £CALL inc. VAT
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EZCD PLUS

Portable 8 & 16 speed PCMCIA CD-Rom & Mobile CD PLAYER

- ▲ Connects to PCMCIA equipped portables & desktops
- ▲ Mobile Audio CD player
- ▲ Draws power from the PC
- ▲ Fully hot swappable
- ▲ Maximum performance - 1.2 MB sustained data transfer rate
- ▲ Small, lightweight & very attractive design
- ▲ Easy to install software driver included
- ▲ Multisession photo CD mode 1 & 2 compatible.



£175
£205.52 inc. VAT

Product	Code No.	Price	Inc. VAT
PCMCIA 4X	16584	£135	£158.62
PCMCIA 8X	16585	£155	£182.12
PCMCIA 8X CD/Audio	17770	£175	£205.63
PCMCIA 16X	16785	£175	£205.63
PCMCIA 16X CD/Audio	-	£199	£233.83
Parallel 4X	13690	£115	£135.12
Parallel 8X	15763	£139	£163.32
Parallel 16X	14509	£162	£190.35
Parallel & Sound 4X	15760	£160	£188.00
Parallel & Sound 8X	15762	£175	£205.63
Parallel & Sound 16X	14510	£190	£223.25

FREE LIFETIME TECHNICAL SUPPORT

NOMAI 750.C

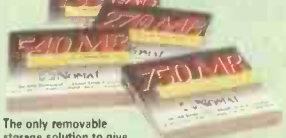
Removable Disk/ Hard Drive

www.nomai.fi

SCSI Dock
£25
£29.37 inc. VAT

NT COMPATIBLE

- ▲ SYQUEST, EZ135 and EZ270 COMPATIBLE
- ▲ Fast: hard disk performance in a 3.5" removable format
- ▲ Reliable: proven quality of typical fixed hard drives
- ▲ More than 600 times the capacity of the standard floppy
- ▲ Unlimited capacity: Use one disk per project, account or client
- ▲ Easy to use and carry: the most compact design in high capacity devices
- ▲ Endless high capacity mobile storage at a very attractive cost per megabyte
- ▲ Choose NOMAI 750,540 or any 270 or 135 MB SyQuest™ compatible disks



The only removable storage solution to give you the choice of using 4 capacities of media

Product	Price	Inc. VAT
135 Mb Disk	£12.00	£14.10
270 Mb Disk	£28.00	£32.90
540 Mb Disk	£29.00	£34.07
750 Mb Disk	£39.00	£45.82

Product	Price	Inc. VAT
Internal SCSI	£159.00	£186.83
External SCSI	£185.00	£217.38
Parallel Kit	£30.00	£32.50
Parallel External	£209.00	£245.58
ISA SCSI Kit	£29.00	£34.08
PCI SCSI Kit	£69.00	£81.08

Specifications:

Technology: Winchester Magnetic Hard Drive
Capacity per media: 750MB, 540MB, 270MB, 135MB
Interface: SCSI 2 or Parallel Port
Reliability - MTBF: 250,000 hours
Cache size: 512 k
Average Seek Time: 10 msec
Disk Data Transfer Rate: up to 8.8 MB/sec (Maximum with SCSI 2)
Sustained Transfer Rate: up to 3.8 MB/sec (Maximum with SCSI 2) (Write and Read)
1 Year warranty
5 Year warranty
Physical Characteristics of External Unit: Height 33 mm Width 109 mm Depth 180 mm Weight 735 gms



NOMAI 680.RW

CD-Recordable/Rewritable Compact Disc Drive

3 DRIVES IN ONE

Unique multi-function concept combining 6X CD-ROM reader, 2X CD-Recorder and the world's first 2X CD-ReWritable drive! The NOMAI 680.RW is a 6X CD reader which play any CD type (CD-ROM, CD-AUDIO, CD-VIDEO,...). In addition to recording information on low cost CD-Recordable (CD-R) media, the NOMAI 680.RW is also the first drive on the market to write and rewrite newly standardised CD-Rewritable (CD-RW) discs.



- ▲ Drag and drop your files (UDF standard file management) and create your own CD
- ▲ Easy to use and carry
- ▲ Easy to Install



Free CD Labelled Software Supplied

Endless high capacity mobile storage at a very attractive price:

Use CD-Recordable or CD-ReWritable, depending on the task at hand.

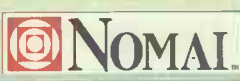
- ▲ CD-R media offers the advantages of low cost and worldwide compatibility with the installed base of CD equipment.
- ▲ CD-RW media means disc space can be re-used over and over again thereby bringing down cost of disc ownership. The CD-RW media is also suited for the new MultiRead compatible CD-ROM drives, plus MultiRead DVD-ROM drives.

Product	Code	Price	Inc. VAT
External Parallel	17893	£342.00	£401.85
External SCSI Inc. Card	17894	£399.00	£468.83
Internal EIDE	17897	£265.00	£311.38
Internal SCSI Inc. Card	17895	£309.00	£363.08

Specifications:

Capacity: 680 MBytes
Average access time (1): 290 msec
Max. access time (1): 550 msec
Transfer rate (mode 2) (Zoned 6 speed): 1146 KB/sec (read only)
Transfer rate (mode 2) (Double speed): 352.6 KB/sec (reading or writing)
Transfer rate (mode 2) (Single speed): 176.4 KB/sec (reading or writing)
Form factor: 5.25" half height built-in
Dimensions (internal drive): Height 41.5 mm Width 146 mm Depth 206 mm
1 Year warranty on all drives and media

CD-R £2.99 £3.51 inc. VAT	CD-RW £14 £16.45 inc. VAT
--	--



OPTI Byte-Fly

If you are looking for a fast reliable way to increase the hard drive storage of your Portable PC, do fast file transfers or backup with direct access to disk retrieval plus have mobile disk storage that goes where you go, then we have developed a fantastic solution. Users can travel between office and home without exposing their expensive portable PC to risk of damage or theft. You can use the Opti Byte-Fly to transport data from work to home, office to remote location and on clients calls where security of data is important.



The Opti Byte-Fly is a fast, compact 2.5" hard drive that puts anything between one and five gigabytes of data in the palm of your hand. The Byte-Fly connects to the PCMCIA slot of any portable PC or compliant PC and is powered from the PCMCIA interface.

External HDD 1.6GB £270 £317.25 inc. VAT	External HDD 3.2GB £520 £611.00 inc. VAT
---	---

- ▲ Small, 150mm x 76mm x 30mm
- ▲ Lightweight, less than 200g (including Hard Disk)
- ▲ PCMCIA connection
- ▲ Powered by PCMCIA interface
- ▲ Auto configurable of Hard Disk types
- ▲ High Shock Resistance
- ▲ High Capacity, up to 5GB - 2.5" high specification drives
- ▲ Windows 95 Plug & Play, DOS, DR-DOS and OS/2 2.X Support

OPTI Battery Bank

The best companion for the portable PC user external, rechargeable battery bank



The Opti Battery Bank is the perfect battery run-time solution for high performance portable PC's, Pentium CPU, TFT LCD, high capacitance memory and CD-Rom. The Opti Battery Bank fits most portable PC's and increases run-time by up to four hours. Ideal for out of date notebooks - customers still need a battery source even if they can no longer find or buy any more internal battery.

Battery Bank
£73
£85.78 inc. VAT

- ▲ Increase you portable PC's run-time by up to four hours
- ▲ Includes a NiMH battery, rechargeable up to 1000 times
- ▲ Includes a fast charge circuit which can be recharged anywhere
- ▲ On-line swapping, without switching off PC. No more lost data. No more interruption
- ▲ Easy to plug and charge/recharge
- ▲ Light, totally portable and elegantly designed, only 600g.
- ▲ Easy to carry, with scratch-proof and anti-vibration casing
- ▲ Ergonomically designed
- ▲ Available to fit most current portable PC's. Including Toshiba™, Compaq™ and Olivetti™.



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FAX: 01582 488588

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BACKUP/ HDD/ CDR

Virgin

The complete range from the brand you can trust

FROM **£2.40** +VAT



All Virgin Diskettes are guaranteed to be supplied virus free, certified 100% error free and subject to a lifetime guarantee.



Virgin 1/4" Data Cartridge range - superior performance features include; high speed operating capacity and anti-heat distortion baseplate technology.



Helical scan recording on 4mm & 8mm tape represents state of the art technology in recording capacity.

FROM **£3** +VAT

Product	Price	inc. VAT
3.5 HD IBM Diskettes (10 pack)	£2.40	£2.82
3.5 HD Unf Diskettes (10 pack)	£2.40	£2.82
3.5 HD IBM Diskettes (22 pack)	£4.80	£8.64
6150 Data Cartridge	£6.50	£7.64
6250 Data Cartridge	£8.50	£9.99
6525 Data Cartridge	£8.79	£10.33
9120 Data Cartridge	£14.25	£16.74
9250 Data Cartridge	£16.60	£19.51
9500 Data Cartridge	£21.25	£24.97
2120 Unf Data Cartridge	£3.00	£5.53
2120XL Form Data Cartridge	£6.00	£7.05
3000XL Form Data Cartridge	£10.69	£12.56
500MB QIC 80 Travan	£17.40	£20.45
2.2GB QIC 3020 Travan	£20.50	£24.09
4mm 60mtr Dat Tape	£3.50	£4.11
4mm 90mtr Dat Tape	£3.20	£3.76
4mm 120mtr Dat Tape	£10.89	£12.44
8mm 112mtr Dat Tape	£3.50	£4.11
8mm 160mtr Dat Tape	£7.59	£8.92
74Min 700MB Gold back	£2.89	£3.40
74Min 700MB Green back	£2.10	£2.47
5.25 650MB Optical	£20.00	£23.50
5.25 594MB Optical	£20.00	£23.50
3.5 128MB Optical	£5.20	£6.11
3.5 230MB Optical	£6.25	£7.34
5.25 650MB Optical	£20.00	£23.50

Virgin Magneto Optical - the ideal solution for increasing storage requirements for today's applications which include imaging, CAD, medical, animation, pre-press, multimedia or general datastorage.

Quality products you can rely on

HP SureStore CD - Writer Plus 7100i/e

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Products

TAKE COVER
Buy HP Support Pack

Simple as a floppy with all the qualities of a CD!

The HP SureStore CD-Writer Plus 7100 uses revolutionary CD-rewritable technology to enable you to write, update, erase and rewrite up to 650MB of data on a single CD-RW disc. Now you can use CDs just like a floppy for dynamic storage applications such as multimedia presentations, audio and photographic projectors which can then be easily transported to other users. For maximum versatility the HPSureStore CD-Writer Plus is compatible with both CD-RW and existing CD-R media.

Internal & External Models Available



Win 95 and Win NT 4.0 Compatible

Easy to install and use

- ▲ Install Assistant enables customers to install their HP CD-Writer Plus quickly and easily. The new software scans the users system to check for other IDE devices and available resources; it then recommends the best installation of the HP SureStore CD-Writer Plus. This gives customers peace of mind and it ensures optimal performance of the CD solution.
- ▲ New standard, CD-UDF, provides drive-letter access so users can simply 'drag and drop' files from the drive to the CD.
- ▲ DirectCD, an Adaptec software package for Windows'95 and Windows NT, enables users to write directly to CD from applications.

Totally Versatile

- ▲ Both drive and media use rewritable technology, enabling users to write, update, erase and rewrite up to 650MB of data on a single CD up to 1000 times per second per disc.
- ▲ Compatible with write-once CD-R media.
- ▲ Internal and external versions meet customers needs of cost, space and portability.

HP service and support

- ▲ One-year warranty guarantees the best services.
- ▲ HP's European Customer Support Centre provides technical information via telephone directly with online agents who are trained to assist with setup, configuration, startup and troubleshooting of HP products.

Pack 450 floppy disks onto one CD!

Internal £232 £272.60 inc. VAT	External £285 £334.88 inc. VAT	3 Pk. CDR Media £45 £52.88 inc. VAT
--------------------------------------	--------------------------------------	---

- ▲ Transfer rates (based on 150 KB/second): 1x read/write, 2x read/write, 6x read only.
- ▲ Write methods: track at once, disc at once, incremental and MultiSession.
- ▲ Write verification: automatic power control to dynamically adjust laser write power.
- ▲ Format and ECC standard: red, yellow, orange and green books.
- ▲ Recording format: UDF and ISO 9660.
- ▲ Media: HP CD-RW and HP CD-R discs.
- ▲ Media capacity: up to 680MB.
- ▲ Connectivity: parallel port connection for external model.

One year warranty - best service guaranteed

For more information on the new HP SureStore CD Writer Plus 7100i/e and all HP Products visit our World Wide Web site at <http://www.hp.com/go/cdr>.



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www.watford.co.uk

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DAT/TAPE & ZIP BACKUP DRIVES

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16962 2/4Gb External DAT Parallel & SCSI	£699
16963 4/8Gb External DAT Parallel & SCSI	£899
16964 4/8Gb External TR-4 Parallel & SCSI	£469
BACKPACK	
16966 8000T TR-4 (4Gb)	£415
16965 800TD TR-1 (800Mb)	£99
DANMERE	
6770 Danmere Backer (Video Cassette) Win/Win95	£34
HP COLORADO (INTERNAL)	
15715 Travan 3.2Gb Internal (T3000)	£109
18425 Travan 5Gb Internal (C4354A) IDE	£127
15345 Travan 8Gb Internal SCSI (#4000s)	£222
HP COLORADO (EXTERNAL)	
15735 Travan 8Gb External SCSI (T4000es)	£279
18426 Travan 5Gb External (C4361A) Parallel	£157
HEWLETT PACKARD (INTERNAL)	
16969 HP C1533 4/8Gb DAT OEM Internal	£525
16967 HP C1534 2Gb DAT OEM Internal	£349
16968 HP C1536 2/4Gb DAT OEM Internal	£379
HEWLETT PACKARD (EXTERNAL)	
16972 HP C1533/E 4/8Gb DAT OEM External	£659
16970 HP C1534/E 2Gb DAT OEM External	£469
16971 HP C1536/E 2/4Gb DAT OEM External	£529
HP SURESTORE	
15190 SureStore 2000e 2.0Gb External SCSI	£519
15189 SureStore 2000i 2.0Gb Internal SCSI	£439
15237 SureStore 5000e 5.0Gb External SCSI	£542
10782 SureStore 5000i 5.0Gb Internal SCSI	£475
15186 SureStore DAT 8e 8.0Gb External SCSI	£669
10815 SureStore DAT 8i 8.0Gb Internal SCSI	£613
17814 SureStore DAT 8u 8.0Gb External SCSI	£689
16913 SureStore DAT 24xe 24Gb Autoloader	
DAT External SCSI	£2,199
15736 SureStore DLT30E 30Gb External SCSI	£1,985
15737 SureStore DLT40E 40Gb External SCSI	£2,859
18635 SureStore DLT71E 70Gb External SCSI	Call
16434 SureStore T4i 8Gb Internal SCSI	£249
HEWLETT PACKARD DATPACK	
16973 DATpack HP Surestore 5000i/Arcade NT	£785
16974 DATpack HP Surestore 5000e/Arcserve	
Network	£815
16975 DATpack HP Surestore 5000e/Arcade NT	£855
16976 DATpack HP Surestore 5000e/Arcserve	
Network	£885
HEWLETT PACKARD EXTENDED WARRANTIES	
16977 Support Pack for Surestore 12000 Dat Drives	£118
16978 Support Pack for Surestore 6000 Dat Drives	£66
16979 Support Pack for Surestore 2000/5000	
Dat Drives	£47
16981 Support Pack for Surestore T4i Tape Drives	£40
16982 Support Pack for Surestore DLT30e Drives	£140
16983 Support Pack for Surestore DLT40e Drives	£192
ACCESSORIES	
15194 HP Colorado ISA External Kit (KE10)	£59
10366 HP Colorado ISA Fast Tape Controller (FC20)	£44
13449 HP Colorado ISA Fast Tape & H/W Comp. (TC15)	£109
11995 HP Colorado Windows Backup Software (SK7)	£39
OMEGA STORAGE SOLUTIONS	
BUZ- Multimedia	£149
15560 Ditto 2Gb External Parallel Port	£89
15559 Ditto 2Gb Internal	£59
10795 Ditto 3200Mb External Tape Drive	£119
10794 Ditto 3200Mb Internal Tape Drive	£99
18431 Ditto MAX 7Gb Internal	£99
18430 Ditto MAX 7Gb External	£129
18433 Ditto Max Pro 10Gb Internal	£189
18432 Ditto Max Pro 10Gb External	£189
16909 Ditto Cleaning Kit	£15
16985 Ditto Dash 2Mb/Sec Controller	£35
13082 Jaz 1Gb External SCSI	£228
13081 Jaz 1Gb Internal SCSI	£175
16992 Jaz Carry Case	£26
16991 Jaz Jet Interface	£69
— Iomega zip C1248100Mb EIDE Internal	£69
10800 ZIP 100Mb External SCSI	£88
10787 ZIP 100Mb Parallel Port	£87
15883 ZIP 100Mb SCSI Internal	£88
18434 ZIP Plus	£149
16908 ZIP Card PCMCIA to SCSI Adapter	£69
15885 ZIP Zoom Card	£25

MEMORY TECHNOLOGY - SCSI / PARALLEL	
16994 DATShuttle 4000 2GB/4GB, 20MB/min parallel, 35MB/min SCSI	£705
16995 DATShuttle 8000 4GB/8GB, 20MB/min parallel, 40MB/min SCSI	£923
MEMORY TECHNOLOGY - PARALLEL	
16993 TapeShuttle 3200MC - 1.6GB/3.2GB TR-3, 9MB/min parallel	£315
EXABYTE	
17130 Eagle TR-3 Internal Floppy Tape Backup Solution (Up to 4.4Gb)	£95
SEAGATE TAPESTOR - INTERNAL	
10809 3.2Gb Travan Internal (TST3200) TR3	£106
15562 8000 INT SCSI TST8000S-SBET (TR4)	£205
15564 8Gb TR-4 Falcon Internal IDE TST8000	£205
SEAGATE TAPESTOR - EXTERNAL	
15563 8000 EXT SCSI TST8000ES-SBET - TR4	£265
17134 3.2Gb Travan Parallel Port (TST3200) TR3	£109
SEAGATE DAT	
17135 4Gb DAT Drive External SCSI (DDS-DC)	£429
17136 8Gb DAT Drive External SCSI (DDS-2)	£555
17131 2Gb DAT Drive Internal SCSI (DDS-1)	£329
17132 4Gb DAT Drive Internal SCSI (DDS-DC)	£395
17133 8GB DAT Drive Internal SCSI (DDS-2)	£495
SONY	
17137 TSL-7000 DDS Auto Loader Internal	£1,459
17138 TSL-7000 DDS Auto Loader External	£1,659
17139 STD-5000 4Gb-16Gb DSS2 Internal	£425
TANDBERG DATA (INTERNAL)	
17140 TDC-3660 250Mb Bare Drive	£261
17149 TDC-3820 525Mb Bare Drive	£320
17142 TDC-4120 1.2Gb Bare Drive	£395
17143 TDC-4220 2.5Gb Bare Drive	£455
17144 TDC-4222 5.0Gb Bare Drive	£485
17145 Panther 5540 2.0Gb Internal Kit	£355
17146 Panther 6528 4.6Gb Internal Kit	£405
TANDBERG DATA (EXTERNAL)	
17147 Panther 8884 250Mb Kit	£382
17148 Panther 8885 525Mb Kit	£455
17149 Panther 9934 1.2Gb Kit	£545
17150 Panther 5098 2.5Gb Kit	£595
17151 Panther 5519 5.0Gb Kit	£620
17152 Panther 5541 2.0Gb Kit	£445
17153 Panther 6528 4.6Gb Kit	£500
DATA CARTRIDGES	
13983 100Mb ZIP Disk	£9
14001 100Mb ZIP Disk 6-Pack	£47
13186 1Gb Jaz Disk	£55
17154 1Gb Jaz Disk 3-Pack	£165
15651 2Gb DITTO TAPE	£13
15878 2Gb DITTO TAPE 3PK	£38
11941 4mm DAT 2.0Gb 5pk	£39
11939 8mm DAT 2.3Gb	£8
11830 DC2120	£7
11982 DC2120XL	£11
11828 DC6250	£12
16771 HP 8Gb/16Gb 4mm Dat Tape 125 Metre (ODS-C) C1517A	£99
11978 MC3000XL	£15
11985 Travan TR1	£15
17525 Travan TR1 XTRA 1GB	£17
11969 Travan TR3	£21
16095 Travan TR3 XTRA 4.3GB	£18
15359 Travan TR4	£25

DAT/TAPE & ZIP BACKUP DRIVES

NOMAI	
17914 NomaI 750.c Parallel Port External	£209
17915 NomaI 750.c SCSI External	£185
17917 NomaI 750.c SCSI Internal Bare	£159
SYQUEST	
15739 EZFlyer 230Mb External Parallel Port	£92
15738 EZFlyer 230Mb External SCSI	£92
18636 EZFlyer 230Mb Internal IDE	£100
16098 Syjet 1.5Gb External SCSI	£245
10346 Syjet 1.5Gb Internal IDE	£188
16096 Syjet 1.5Gb Internal SCSI	£186
16097 Syjet 1.5Gb Parallel	£247
SYQUEST MEDIA	
11954 SQ800 5.25" 88Mb Cartridge for SQ5110c & SQ5110	£29
11974 135Mb Cartridge	£13

17156 230Mb EZFlyer Cartridge 3-Pack	£53
17157 230Mb EZFlyer Cartridge 5-Pack	£76
15740 230Mb EZFlyer Cartridge Single	£19
11964 SQ2000 5.25" 200Mb Cartridge for SQ5200	£35
11959 SQ310 105Mb Cartridge for SQ3105A & SQ3105S	£35
11960 SQ327 270Mb Cartridge for SQ3270	£39
11938 SQ400 5.25" 44Mb Cartridge for SQ555	£29
16099 Syjet Cartridge	£75
17166 Syjet Cartridge 3-Pack	£189
PANASONIC	
17168 PD Drive (LF1004B)	£279
17169 PD Drive Internal (LF1004BS)	£299
17170 PD Drive Kit Internal (LF1004BK)	£305
15270 PD Drive Internal Kit (LF1004BKS)	£340
17171 PD Drive External (LF1000HB)	£369
17172 PD Drive External Kit (LF1000HBK)	£420
17849 PD Drive E IDE 6x / Optical (LF-1195)	£199
11976 PD Media 650Mb	£20
EXTERNAL SCSI CASES	
11918 External SCSI Hard Drive case	£99
17177 Removable SCSI Hard Drive Rack	£29

3.5" IDE HARD DISK DRIVES

WATFORD SPECIAL PRICED IDE HARD DRIVES	
15311 AR1600MB 1.7Gb	£82
15741 AR2000MB 2.1Gb	£98
AR3200MB 3.2GB	£115
AR4300MB 4.3Gb	£135
AR6400MB 6.4Gb	£205
FUJITSU - COVERED BY 3 YEAR WARRANTY	
15671 MPA3017AT 1.7Gb ATA3 5400RPM 128K Cache	£89
16464 MPA3026AT 2.6Gb ATA3 10ms 5400RPM 128K Cache	£104
18266 MPA3035AT 3.5Gb ATA3 10ms 5400RPM 128K Cache	£129
18267 MPA3052AT 5.2Gb ATA3 10ms 5400RPM 128K Cache	£164
IBM - COVERED BY 3 YEARS WARRANTY	
00K0400 4.3Gb EIDE/Ultra ATA 9ms	£149
09J0308 6.4Gb EIDE/Ultra ATA 9ms	£219
00K0394 8.4Gb EIDE/Ultra ATA 9ms	£359
MAXTOR - COVERED BY 3 YEAR WARRANTY	
DIAMOND MAX RANGE	
81750D4 1.7Gb EIDE/Ultra DMA ATA 10ms	£87
82560D3 2.5Gb EIDE/Ultra DMA ATA 10ms	£109
83240D4 4.3Gb EIDE/Ultra DMA ATA 10MS	£121
84320D4 4.3Gb EIDE/Ultra DMA ATA 10ms	£147
85250D6 5.2Gb EIDE/Ultra DMA ATA 10ms	£175
87000D8 7.0Gb EIDE/Ultra DMA ATA 11ms	£225
MICROPOLIS - COVERED BY 3 YEARS WARRANTY	
18637 M425 2.5Gb EIDE 11ms 5400RPM 128K Cache	£102
18638 M5450 4.0Gb EIDE 11ms 5400RPM 128K Cache	£129
18639 M4550 5.0Gb EIDE 11ms 5400RPM 128K Cache	£172
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17780 Fireball Stratus 1.6Gb 10ms	£85
17781 Fireball Stratus 2.1Gb 10ms	£105
17782 Fireball Stratus 3.2Gb 10ms	£125
17505 Fireball Stratus 4.3Gb 10ms	£152
17504 Fireball Stratus 6.4Gb 10ms	£212
18165 Pioneer 2.1Gb 11ms Eide	£109
SEAGATE - COVERED BY 3 YEAR LIMITED WARRANTY	
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15955 ST31722A Medalist 1.7Gb Ultra ATA 12ms 4500RPM	£82
10338 ST32122A Medalist 2.1Gb Ultra ATA 12.5ms 4500RPM	£102
16063 ST323531A Medalist Pro 2.5Gb 12ms 5400RPM 128K Cache	£103
17569 ST33232A Medalist Pro 3.2Gb Ultra ATA 12ms 4500RPM	£121
16280 ST34342A 4.3Gb Ultra ATA 12ms 4500RPM	£149
ST36450A 6.4Gb 10ms 512K cache	£211
WESTERN DIGITAL - COVERED BY 3 YEAR WARRANTY	
10335 AC21200 1.2Gb 10ms 5200RPM 128K Cache	£95
10326 AC21600 1.6Gb 10ms 5200RPM 128K Cache	£99

AC22100 2.1Gb Ultra ATA 12ms 5200RPM	£112
AC22500 2.5Gb Ultra ATA 12ms 5200RPM	£120
15358 AC33200 3.2Gb 12ms 5200RPM	£132
18561 AC34300 4.3Gb Ultra ATA 12ms 5200RPM	£159
18560 AC35100 5.1Gb Ultra ATA 12ms 5200RPM	£205
18559 AC36400 6.4Gb Ultra ATA 12ms 5200RPM	£225

2.5" IDE HARD DISK DRIVES

HITACHI	
15353 DK211a-51 540Mb 12ms 4464RPM 128K Cache	£79
15569 DK213A14 1.4Gb 12ms 4464RPM 128K Cache	£115
16885 DK225A21 2.1Gb 12ms 4464RPM 128K Cache	£165
17530 DK226A32 3.2Gb 12ms 128k cache	£285
TOSHIBA	
15498 MK1401MAV 1.4Gb 13ms 128K Cache 12.5mm high	£120
17586 MK2103MAV 2.1Gb IDE Hard Disk	£169
17850 MK3003MAN 3.0Gb IDE Hard Disk 19mm	£291

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FUJITSU - COVERED BY 5 YEAR WARRANTY	
16100 M2952SY 2.2Gb 10ms 7200RPM 512K Cache Ultra	£299
16487 M2952QA 2.2Gb 10ms 7200RPM 512K Cache Ultra Wide	£339
16101 M2954SY 4.3Gb 10ms 7200RPM 512K Cache Ultra	£445
16488 M2954QA 4.3Gb 10ms 7200RPM 512K Cache Ultra Wide	£459
16102 M2949SY 9.1Gb 10ms 7200RPM 512K Cache Ultra	£699
16489 M2949QA 9.1Gb 10ms 7200RPM 512K Cache Ultra Wide	£699
MICROPOLIS - COVERED BY 5 YEAR WARRANTY	
15900 4345 Tomahawk 7200rpm 4.3Gb 8.8ms	£345
16493 4345WS Tomahawk 4.3Gb U/W 7.9ms	£359
16494 4345AV 4.3Gb 7.9ms	£380
16495 4345WAV 4.3Gb 7.9ms	£385
16492 3391 Tomahawk 7200rpm 9.1Gb 8.9ms	£499
16496 3391WS Tomahawk 9.1Gb U/W 7.9ms	£599
16497 3391AV 9.1Gb 7.9ms	£655
16498 3391WAV 9.1Gb 7.9ms	£629
QUANTUM - COVERED BY 2 YEAR WARRANTY	
16491 Fireball Stratus 2.1Gb 10ms SCSI Fireball Stratus 3.2Gb 11ms SCSI	£179
18297 Fireball Stratus 4.3Gb 10.5ms SCSI	£199
14486 Fireball Stratus 6.4Gb 10ms SCSI	£272
10334 Atlas II 4.5Gb 8ms SCSI Narrow	£399
16490 Atlas 9.1Gb 8ms SCSI Narrow	£590
SEAGATE - ABOVE 1.2GB = 5 YEAR WARRANTY	
16503 ST52160N Medalist Pro 2.1Gb ULTRA 11ms 5400RPM 128K Cache	£139
18641 ST32272N Barracuda 2.1GB ULTRA 9ms 7200RPM 512K Cache	£272
18642 ST32272W Barracuda 2.1GB ULTRA Wide 10ms 5400RPM 256K Cache	£295
18643 ST34572N Barracuda 4.5Gb ULTRA 9ms 7200RPM 512K Cache	£405
18644 ST34572W Barracuda 4.5Gb ULTRA WIDE 9ms 7200RPM 512K Cache	£439
16505 ST19101N Barracuda 9.1Gb ULTRA 9ms 7200RPM 512K Cache	£655
16506 ST19101W Barracuda 9.1Gb ULTRA WIDE 9ms 7200RPM 512K Cache	£672
ST34501N Cheetah 4.5Gb Ultra 8ms 10000RPM	£455
WESTERN DIGITAL - COVERED BY 3 YEAR WARRANTY	
16106 2.1Gb 8ms 7200RPM 512K Cache Ultra Narrow	£269
16107 2.1Gb 8ms 7200RPM 512K Cache Ultra Wide	£265
16109 4.3Gb 8ms 7200RPM 512K Cache Ultra	£396
16108 4.3Gb 8ms 7200RPM 512K Cache Ultra Wide	£393
PCMCIA HARD DRIVES	
PORTABLE ADD-ONS	
17180 Disk Mobile - 260Mb PCMCIA Type III	£295



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PORTABLE POWER ON THE PARALLEL & SCSI PORT

IDE and SCSI to Parallel Port A comprehensive range of portable back up solutions, easily connected via the parallel port, SCSI controller or PCMCIA slot. All products feature attractive shielded casings, carrying handle, internal power supply, documentation and software drivers.

	Ex. VAT	Inc. VAT
DAT Connect 2000 - DDS-1, 2GB Parallel & SCSI, includes Seagate Backup for Windows 3.X/95 and DOS	659	(774.33)
DAT Connect 5000 - DDS-1, 4GB Parallel & SCSI, includes Seagate Backup for Windows 3.X/95 and DOS	719	(844.83)
DAT Connect 10000 - DDS-2, 4-8GB Parallel & SCSI, includes Seagate Backup for Windows 3.X/95 and DOS	869	(1021.08)
Tape Connect 4000/8000 MB, TR-4 drive, Parallel & SCSI	509	(598.08)
PD Connect Panasonic PD drive, 650 MB optical and 4X speed CD-ROM, Parallel & SCSI	389	(457.08)
CD Connect 24X-P, 24X speed, parallel	239	(280.83)
CD-Rec Connect, 2X write/6X read, Parallel & SCSI, incl. Adapter Easy CD Creator/Direct CD & 2 CD-R Disks	449	(527.58)
CD-RW Connect-PS, 2X write/6X read, Parallel & SCSI, includes Easy CD Creator/Direct CD & 1 CD-RW Disk	509	(598.08)

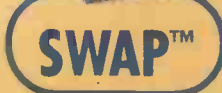


SCSI SOLUTIONS

The latest range of add on SCSI peripherals on the market housed in attractive desktop enclosures. All products feature SCSI in/out connections, SCSI ID, internal PSU. Tower solutions available for direct Network Connection.



	Ex. VAT	Inc. VAT
DAT Satellite external SCSI - DDS-1, 2GB, includes Seagate Backup for Windows 3.X/95 and DOS	509	(598.08)
DAT Satellite external SCSI - DDS-1, 2-4GB, includes Seagate Backup for Windows 3.X/95 and DOS	529	(621.58)
DAT Satellite external SCSI - DDS-2, 4-8GB, includes Seagate Backup for Windows 3.X/95 and DOS	659	(774.33)
DAT Satellite external SCSI - DDS-3, 12-24GB, includes Seagate Backup for Windows 3.X/95 and DOS	929	(1091.58)
PD Satellite, external SCSI Panasonic PD drive 650 MB optical + 4X speed CD-ROM	349	(410.08)
CD-RW Satellite, external SCSI CD-ReWritable 2X (ra)write, 6X read	419	(492.33)
CD-Rec. Satellite, external SCSI CD-Recorder 2X write, 6X read	339	(398.33)
MO Satellite, external SCSI - 640 MB rewritable optical	469	(551.08)



THE REVOLUTION IN DATA STORAGE

Works like a removable car stereo. The Swap Bay is installed into the 5.25" aperture of your computer and connected to the SCSI controller. The Internal SCSI Kit is available as a hard drive, Jaz drive, Zip Drive, SyJet drive Nomai drive and tape drive. Needless to say, other devices are possible and may be available on demand. All Swap drives are interchangeable in one universal Swap Bay.



CONVERT YOUR SWAP DRIVE INTO AN EXTERNAL DEVICE WITH A SWAP DOCK

With the optional Swap Dock you can convert your Swap drive with a simple 'click' into an external device that connects to the parallel port of every computer, or directly to a SCSI adapter. A PCMCIA adapter is available as an option for notebooks.



Also available in IDE version

CALL WATFORD ELECTRONICS ON 01582-745555

COMPUTER CONNECTIONS®
THE STORAGE COMPANY

	Ex. VAT	Inc. VAT
Swap Dock - PS, for external connection to the parallel port & SCSI controller (PCMCIA optional)	59	(69.33)
Swap Bay - PS, for internal connection (directly to SCSI controller)	19	(22.33)
Swap Disk Drive - PS, harddrive 2.1GB for use with Swap Dock or Swap Bay	229	(269.08)
Swap Disk Drive - PS, harddrive 4.3GB for use with Swap Dock or Swap Bay	319	(374.83)
Swap ZIP Drive - PS, 100MB for use with Swap Dock or Swap Bay	119	(139.83)
Swap JAZ Drive - PS, 1GB for use with Swap Dock or Swap Bay	199	(233.83)
Swap SyJet Drive - PS, 1.5GB for use with Swap Dock or Swap Bay	269	(316.08)
Swap Tape Drive - PS, 8GB TR-4 for use with Swap Dock or Swap Bay	329	(386.58)



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Cristie PROFESSIONAL BACKUP SPECIALISTS

BACKUP/HDD/CDR

Established for over 25 years, Cristie is a leading European specialist in the design and manufacture of data backup and storage systems for PC's and networks and is the world's longest established PC backup brand.

Cristie provide complete solutions covering the full range of drive technologies, software, consultancy, installation, training, maintenance and technical support. ISO9002 approved quality systems ensure that products are manufactured and supported to the highest standards.

TS5000 Series DAT Tape Drives



- ▲ Capacities from 6Gbytes to 24 Gbytes
- ▲ Parallel port and SCSI interfaces for ease of connection
- ▲ Internal and external versions available
- ▲ Read after write data verification for high data integrity
- ▲ Supports DOS; Windows 3.x, 95 & NT, OS/2 and Novell
- ▲ Compatible with most leading backup applications including Cristie's SDB and PC-BaX
- ▲ Two year warranty and unlimited telephone technical support on product registration
- ▲ ISO9002 quality assured manufacture and support

EXT SCSI
£950
C683.00
£116.25 inc. VAT

EXT SCSI
£1197
TS5824
£1406.48 inc. VAT

Specification	TS5000	TS5824
Name	TS5000	TS5824
Capacity - native / compressed	4Gb / 8Gb	12Gb / 24Gb
Speed per min - parallel / SCSI	20Mb / 44Mb	20Mb / 88Mb
Configuration	Portable	Portable
	Ext SCSI	Ext SCSI
Size (mm) (w x h x l)	118x85x300	118x85x300
Mains input	100-260V 50-60Hz	100-260V 50-60Hz
Weight (portable / external)	2.64Kg	2.64Kg
Media	4mm DAT DDS2 (120M)	4mm DAT DDS3 (125M)

Cristie and PC-BaX are registered trademarks of Cristie Electronics Limited. All other trademarks acknowledged.

OD1000 Series OPTICAL Disk Drives

The OD1640 is a 3.5 inch 640Mb removable Magneto-Optical disk drive. It is available as an internal SCSI-only drive or portable model featuring both parallel and SCSI interfaces. Each OD1640 comes complete with one MO disk.

Specification	
Name	OD1640
Capacity	640Mb
Access Time	35ms
Interface	Parallel & SCSI
Configuration	Portable
	Int SCSI
Size (mm) (w x h x l)	118x85x300
Mains input	100-260V 50-60Hz
Weight (portable / external)	3.75Kg
Media	3.5" 640Mb Optical Disk

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- ▲ 640Mb removable Magneto-Optical disk drive
- ▲ Parallel port and SCSI interfaces for ease of connection
- ▲ Operates as a logical drive or as a backup device
- ▲ Internal and external versions available
- ▲ Supports DOS; Windows 3.x, 95 & NT and OS/2
- ▲ Two year warranty and unlimited telephone technical support on product registration
- ▲ ISO9002 quality assured manufacture and support

EXT SCSI
£655
OD1640
£769.63 inc. VAT



PC-BaX Backup and Recovery Software for Windows 95

Cristie PC-BaX for Windows 95 is a fully featured 32-bit multi-threaded backup and recovery application designed to give optimum performance and portability.

It fully supports Windows 95 file systems and backs up all Local Registry, Security and long file names.

The user interface, data format and command script language are common across OS/2, Windows 95 and NT enabling easy migration between platforms.

**FULL
ON-LINE
SUPPORT**

NEW

System Requirements	
PC-BaX for Windows 95	
Operating System	Windows 95 or later
Memory	8Mb RAM
Disk Space	2Mb

Cristie, PC-BaX and PowerChanger are trademarks of Cristie Electronics Limited. All other trademarks acknowledged.

- ▲ Supports Windows 95 including Registry and long file name support
- ▲ Easy to use configurable graphical interface and full on-line help
- ▲ Fully featured Media Library
- ▲ Scheduler with full integration into Windows 95 System Agent
- ▲ Command Line support for integration with other system processes
- ▲ Supports a wide range of Tape, Disk and Autochangers
- ▲ Common tape format for DOS, Windows 3.x, 95 & NT, and OS/2
- ▲ Support for software and hardware data compression for increased capacity and performance



WINDOWS 95
£51
£59.93 inc. VAT



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Removable Storage Made Easy

Insuring your data has never been easier

DITTO 2Gb Bundle Backup Tape Drive

NEW LOW PRICING

- ▲ Ditto 2Gb external tape drive including iomega software and starterpack
- ▲ Ditto Carry Case
- ▲ Ditto 2Gb Media (three)
- ▲ Ditto NT driver



Ditto Max Bundle
£125
 £146.88 inc. VAT

Cleaning Kit
£15
 £17.63 inc. VAT

ZIP DRIVE - 3 drives in one



- ▲ Expand your hard drive without limits (100Mb at a time)
- ▲ Take it with you (Zip drive & disks are portable)
- ▲ Insure your hard drive (fast and easy)
- ▲ Increase your storage quickly, easily and economically - as you need it.
- ▲ With 100Mb Zip disks you can add as many disks as you need.
- ▲ The best way to move your information - Zip drive and disks are small, light and convenient. Zip drive weighs about 450g and fits easily in your hand, bag or briefcase.

Zip PC Parallel
£89
 £104.58 inc. VAT

Zip Mac SCSI
£89
 £104.58 inc. VAT

Zip Drive SCSI
£91
 £106.93 inc. VAT

Zip PC Internal
£91
 £106.93 inc. VAT

6 Zip Disks PC/Mac
£47
 £55.23 inc. VAT

Single Pack PC/Mac
£9
 £10.57 inc. VAT



JAZZ DRIVE - the ultimate choice in hard drives

- ▲ Faster than most hard drives (works as fast as you do!)
- ▲ Provides 1GB of disk space on each compact cartridge (enough to backup your entire hard drive!)
- ▲ Insure your hard drive (fast and easy)



Internal 1Gb SCSI
£179
 £210.33 inc. VAT

External 1Gb SCSI
£227
 £266.73 inc. VAT

Jazz Disk
£55
 £64.63 inc. VAT

Yamaha

CRW4001

Once again, Yamaha has broken new ground in CD recording. The CRW4001 is the only CR-ReWritable in the world which is capable of 4x write speed. The CRW4001 is actually three CD drives in one; a reader at 6x speed, a writer at quad speed and a re-writer at double speed. CD-RW is both the logical progression from, and the ultimate companion to CD-R; and in a field where speed is crucial, drives which write at less than 4x speed are simply not worth considering. As the consistent pace-setters in CD technology, Yamaha now brings blistering speed, total reliability and outstanding compatibility to a CD-RW drive - the CRW4001.



- ▲ 3 Drives in 1 - 6x Read, 4x Write 2x Re-Writer
- ▲ No other CDRW drive writes data as fast
- ▲ Supports seven variants of the CD format - the only truly cross platform medium
- ▲ Multi-Read capability allows almost any conceivable format of CD to be read
- ▲ Delivers high capacity drag & drop storage on a reliable, cost effective re-usable media

CRW4001 Value Kit ships with industry standard pre-mastering and packet writing software - accessing the full power of the drive through a straightforward operating system.

CRW4001
£399
 £468.83 inc. VAT

HP Colorado 5GB and 5GB External

HEWLETT PACKARD
 Authorised Reseller
 Personal Computer Products

Breakthrough performance for full system protection
 Looking for a PC backup solution that won't keep you waiting? The new HP Colorado 5GB and 5GB external deliver extremely high performance and high capacity at an astonishingly low price.



Both models provide an impressive capacity of up to 5GB on a single data cartridge and store data at a rate of up to 2GB in well under an hour. Weighing in at less than a kilo, the external model makes an ideal companion for your portable PC.

Product	Price	inc. VAT
HP Colorado 5GB (inc. tape) Internal	£137.00	£160.98
HP Colorado 5GB (inc. tape) External	£174.00	£204.45
HP Colorado 5GB (no tape) Internal	£127.00	£149.22
HP Colorado 5GB (no tape) External	£156.00	£183.30

- ▲ Disaster recovery for Windows 95 with full system protection
- ▲ 2.5GB native capacity, up to 5GB compressed
- ▲ Backup at up to 2GB in less than an hour
- ▲ Includes Colorado Backup by Cheyenne for Windows 95, Windows and DOS
- ▲ Supports Windows NT 4.0 backup utility
- ▲ HP's unique Install Assistant software for easy installation and configuration of internal drives
- ▲ Low cost HP Colorado 5GB media

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Elsa Quickstep 1000

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- ▲ ISDN Communication at 64Kbps
- ▲ Fax Group 3
- ▲ Comprehensive Windows 95 Software
- ▲ Virtual Com port
- ▲ Full CE approvals and technical support

Quickstep 1000
£99
 17660 £116.33 inc. VAT

Elsa Microlink ISDN TL V.34

- ▲ External ISDN adaptor and V.34 28.8 modem for simple PC connection
- ▲ V.42 Data compression for transfer up to 230,499 BPS
- ▲ Automatic Inbound detection for ISDN, Modem, fax and Voice
- ▲ Personal voicemail
- ▲ Group 3 Fax

ISDN TL V.34
£245
 17661 £287.88 inc. VAT

Elsa Microlink ISDN TI Pro

- ▲ External ISDN adaptor, as Microlink TL V.34 but excluding modem capability

ISDN TI Pro
£244
 17663 £286.70 inc. VAT

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FAX/MODEMS

ARIES

- 15592 V34 33.6 Internet/Comms Pack - Internal ...£35
- 15591 V34 33.6 Internet/Comms Pack - External ...£45
- 17664 V34 56.6 Internet/Comms Pack - Internal ...£55
- 17665 V34 56.6 Internet/Comms Pack - External ...£62



APEX DATA

- 16764 Clipper Com World PCMCIA Fax/Data Modem V34 ...£149

DIAMOND

- 15571 Supra Express 33.6 Internal + Voice ...£39
- 17899 Supra Express 33.6 External + Voice ...£46
- 18265 Supra Express 56.6 External + Voice ...£84

HAYES

- 14249 Accura 33.6 Internet Kit Deluxe - Internal ...£83
- 14262 Accura 33.6 Message Modem - Internal ...£95
- 14250 Accura 33.6 Message Modem - External ...£95
- 17499 Accura 56K Voice Modem - Internal ...£95
- 17500 Accura 56K Voice Modem - External ...£97
- 14248 Optima 33.6 Business Modem ...£163
- 14319 Optima 33.6 Fax PCMCIA Card ...£134
- 14320 Optima Panasonic GSM Kit ...£89
- 14321 Optima Alcatel GSM Kit ...£89
- 16755 ESP High Speed Serial Card 1 Port ...£55



MICROCOM

- 17323 Office Porte 33.6 Voice Fax Modem ...£119

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- 15062 Bit Surfer Pro ISDN Fast Internet Modem ...£212
- 16760 Premier 33.6 Data/Fax Modem ...£169
- 17835 PCMCIA Pro 33.6 Data/Fax Modem ...£123
- 17837 Voice Surfer 56k FLASH - with Voice INT ...£92
- 17838 Modern Surfer 56k Internet Solution Fax Modem EXT ...£82
- 17839 Voice Surfer 56k Home/Office Solution - with Voice EXT ...£95

PSION DACOM

- 15708 Surfer 33.6 Data/Fax Modem ...£79
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- Goldcard 56K Global PCMCIA ...£192

PACE

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- 13188 Linnet Message Desk V34 28.8 - Internal ...£119

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- 14265 Sportster 33.6 Winmodem ...£68
- 14028 Sportster Voice 33.6 - Internal ...£96
- 14027 Sportster Voice 33.6 - External ...£96
- 14264 Sportster FLASH 56.6 ...£106

- 12325 Courier V34 28.8 - Internal ...£195
- 12376 Sportster 28.8 Xjack PCMCIA ...£107

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BRITISH TELECOM

- 12204 Ignition ISDN Terminal Adaptor 64K ...£299

DIAMOND

- 17900 Supra ISDN Netcommander ...£32

ELSA

- 17660 Quickstep 1000 Plug and Play ISDN ...£99
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- 17663 Microlink ISDN TL PRO ...£244

HAYES

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US ROBOTICS

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- 14260 Courier I V34 Analogue or ISDN - External ...£259
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- 12360 25 Male - 25 Female 2m ...£7
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- 15868 Avro Pacific International Kit ...£39
- 15871 Avro Pacific Six Piece Kit ...£25
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SPORTSTER ISDN TA

Sportster ISDN TA is a low-cost, easy to use Terminal Adapter for ISDN connectivity. Sportster ISDN TA is a complete communications solution, enabling high-speed data transfer, remote access to office LANs plus capabilities for data-intensive SOHO users and Internet access.



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Sportster ISDN TA
£98
 £115.15 inc. VAT

- ▲ High-Speed Data Transfer
- ▲ Remote LAN Access
- ▲ Homeworking
- ▲ Internet Access

SPORTSTER FLASH

56Kbps Ready External Faxmodem with Personal Voice Mail

Download from the Internet at an amazing 56kbps with the New Sportster Flash faxmodem - the first x2 ready product from U.S. Robotics. Nearly 100% faster than the 28.8kbps speed currently available over ordinary telephone lines, Sportster Flash users will be able to flash upgrade their modem to x2 at no extra charge, simply by dialling into the U.S. Robotics Bulletin Board*. And with the Flash memory feature you'll be able to upgrade your modem as and when new technologies emerge - no other modem offers the same level of features or future-proofing than that of Sportster Flash.



Sportster Flash
£109
 14264 £128.08 inc. VAT

A SOUND CARD (WITH AUDIO CABLE), EXTERNAL SPEAKER OR HEADSET IS REQUIRED TO UTILISE ALL VOICE FEATURES INCLUDING THE HANDS FREE TELEPHONE FUNCTION

THE COURIER I

- ▲ Automatic Call Discrimination
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- ▲ Award Winning V.Everything*
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Internal and External versions available. Free Lifetime Technical Support. 5 Year Warranty.

RING SALES HOTLINE FOR NEW LOWER PRICING



Internal
£254
 14261 £298.45 inc. VAT

External
£259
 14260 £304.33 inc. VAT

SPORTSTER WINMODEM

33.6 Internal Faxmodem for Windows

SPORTSTER WINMODEM 33.6 FROM U.S. ROBOTICS, utilises the processing capabilities of your own PC and the functionality of Windows to give you a fully featured fax modem, that can even be upgraded with future developments* - simply by dialling into U.S. Robotics Bulletin Board Service.



- ▲ Internal and PCMCIA versions available
- ▲ Internet Ready and compatible at up to 33,600bps
- ▲ Full Duplex Speakerphone*
- ▲ Personal Voice Mail - Mailbox Voice Mail*
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- ▲ Call discrimination: voice/data/fax

- ▲ Remote Fax Retrieval
- ▲ Software Upgradeable**
- ▲ Fax-On-Demand - Faxes stored for distribution
- ▲ Remote Voice Message Retrieval*
- ▲ Voice/data/fax software
- ▲ Windows Plug and Play Support
- ▲ Free Lifetime Technical Support
- ▲ 5 Year Warranty
- ▲ BABT approved

Sportster Win-Modem
£69
 14765 £81.08 inc. VAT

Sales Hotline: 01582 745555

FAX: 01582 488588

FOR ORDERING INFORMATION SEE PAGE 2

Prices exclude carriage & VAT @ 17.5% except where shown.



Aries K56 Internal Fax/Modem with 12 months internet access only £129^{+VAT}

2 years Connect2Internet access from only £5.99 per month

If you want to get onto the Internet or send faxes from your PC then you need Aries Modems. Each modem is tested by our technicians and comes with Compuserve trial kit including 10 hour Free Internet access, Free Netscape World Wide Web Browser Software, Free 30 days unlimited access to the internet via Pipex or AOL plus full Superfax Voice data and fax software. Turn your PC into a Fast Moving Communications Centre by using an Aries Modem

- ▲ Models: Aries V34 Voice 33,600bps or Aries K56.6 Voice Fax/Modem, up to 56,600bps receive, flash-upgradable to ITU56K.
- ▲ Operational Modes: K56(up to 56600bps) or V34(up to 33600bps), V32bis(14400bps), V32(9600), V22bis (2400), V21(1200), V23(1200/75 asymmetric), V21(300) Async. full duplex data on dial-up lines. Also supports Autosync (TM), V80 (Synchronous Access Mode) and also PC-based DSVD. Modem has low-power sleep mode.
- ▲ Fax Operations: V21, V22bis(2400), V27ter(4800), V29(9600); V17(14400)
- ▲ Autodial by command. Tone and Pulse dial. Answering conforms to V25
- ▲ Data Compression: MNP-5 and V.42bis

- ▲ Handset Socket: BT socket on rear panel, wired in parallel with line connection.
- ▲ Voice Record Source: From Microphone or remotely from Telephone Line.
- ▲ Voice Replay: To Telephone Line, Internal Modem Speaker or External Speaker via rear panel connector.
- ▲ Mic Connector: 3.5mm Jack Socket on rear panel.
- ▲ Speaker Connection: 3.5mm Jack.
- ▲ PC Interface: ISA bus 16-bit slot. DIL switch selects COM 1,2,3,4 and IRQ 3,4,5 or 9 (or Plug&Play option).
- ▲ HAYES Compatible, Extended AT command set.
- ▲ Supplied with Supervoice software (for Windows 3.1 & 95), to provide Full Duplex Speakerphone, Answering Machine, Fax send/receive, faxback and file transfer.
- ▲ BAPT approved, CE marked.
- ▲ When refitted and as long as it is not a hardware modification



56K Voice Fax/Modems from £57

ARIES K56 Flash Upgradeable to ITU56K Global Standards



SUPER VOICE "PC Magazine Best Buy"

Aries PCMCIA 33,600 baud Fax/Modem

- ▲ 33.6 Operational modes: V.34 (up to 33.6bps), V.32bis (14400bps) V.32 (9600bps), V.22bis (2400), V.22 (1200), V.23 (1200/75), V.21(300) Asynchronous data, full duplex over dial-up lines
- ▲ Fax Interface: EIA 578 (Class 1), EIA 592 (Class 2)
- ▲ Auto-Dial: Tone dialling, Auto-senses speed of called modem
- ▲ PC Interface: PCMCIA (V2.01)
- ▲ Other features: BAPT approved, CE approved

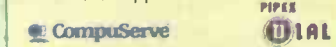


PCMCIA 33,600
£89
£104.58 inc. VAT

WINTER SPECIAL
While stocks last

All Fax/Modems supplied by Watford Electronics include:

- ▲ FREE 30 days unlimited access to Internet (via Pipex or AOL)
- ▲ FREE Netscape World Wide Web Browser software
- ▲ FREE Subscription to Compuserve includes £10 Credit
- ▲ Software supplied on CD



ARIES K56 56,600bps Voice Fax/Modem

Internal £57 £66.98 inc. VAT	External £67 £76.73 inc. VAT
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ARIES V34 33,600bps Voice Fax/Modem

External £49 £57.58 inc. VAT

Connect2Internet

(Fast, Easy and Affordable!) with Watford Electronics

Did you know that Watford Electronics is now an Internet Service Provider (ISP)? And, although we are the amongst the lowest priced, we offer one of the most comprehensive packages available!

From just £5.99* a month you get hi-speed connection to the Internet and much, much more.

- ▲ Watford provides hi-speed access at one of the lowest modem-to-user ratios in the country, which means that you are unlikely to not get connected at the busiest times
- ▲ Absolutely NO HIDDEN CHARGES
- ▲ Flat rate billing and unlimited access
- ▲ Unlimited email addresses
- ▲ Up to K56 56.6K modems and ISDN
- ▲ 100% UK coverage at local call rates
- ▲ Easy installation and use
- ▲ Both dial up and ISDN for the same price
- ▲ Free web space to create your own web site
- ▲ Free Microsoft Explorer web navigation software
- ▲ Back up and support from Watford Electronics
- ▲ We will be happy to refund the amount paid for outstanding months if you are not entirely satisfied



Monthly Subscription	£9.99
Quarterly Subscription	£8.99
Six Months Subscription	£7.99
Annual Subscription	£6.99
Two Year Subscription	£5.99

* All subscription prices are subject to VAT

Bundle Prices:
Extraordinary deals to get you into the fast lane of the Information Superhighway:

Aries 33.6K Internal Fax/Modem with 12 months Internet access	£115
Aries 33.6K External Fax/Modem with 12 months Internet access	£125
Aries 33.6K Internal Fax/Modem with 2 years Internet access	£189
Aries 33.6K External Fax/Modem with 2 years Internet access	£199
Aries K56 Internal Fax/Modem with 12 months Internet access	£129
Aries K56 External Fax/Modem with 12 months Internet access	£139
Aries K56 Internal Fax/Modem with 2 years Internet access	£205
Aries K56 External Fax/Modem with 2 years Internet access	£215

Internet Connection from £5.99

Connect2Internet

"We guarantee one of the best connections in the UK!"



"We will refund your outstanding balance, subject to period elapsed, if you are not 100% satisfied"

Watford Electronics
www.watford.co.uk

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RETAIL STORE: 250 LOWER HIGH STREET, WATFORD WD1 2AN TELEPHONE: 01923 237774

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Aries MULTIMEDIA BUNDLES



"Your Complete Multimedia Solution...."



The Ultimate in Sound Technology

- ▲ SoundBlaster 16bit compatible sound card
- ▲ 16x IDE CD Rom Drive
- ▲ 10W Magnetically Shielded Speakers

Multimedia Bundle
£72
18021 £84.60 inc. VAT

- ▲ SoundBlaster 16bit compatible sound card
- ▲ 24x IDE CD Rom Drive
- ▲ 10W Magnetically Shielded Speakers

Multimedia Bundle
£83
18022 £97.53 inc. VAT

- ▲ 16-bit 3D Stereo CD-quality Recording and Playback
- ▲ Support MSDOS, Microsoft® Windows 3.1/3.11/NT/95
- ▲ Plug & Play Ready
- ▲ MPU-401 UART & MIDI Interface
- ▲ Game Port Interface
- ▲ OPFM™ Synthesizer
- ▲ Support Sound Blaster™ Pro and MPC Compatible Games and Applications



EASY INSTALLATION



Unbeatable Value

- ▲ SoundBlaster Compatible 16bit 28 Voice Wavetable sound card
- ▲ 16x IDE CDx Rom Drive
- ▲ 25W Magnetically Shielded Speakers

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- ▲ SoundBlaster Compatible 16bit 28Voice Wavetable sound card
- ▲ 24x IDE CD Rom Drive
- ▲ 25W Magnetically Shielded Speakers

Multimedia Bundle
£89
18373 £104.58 inc. VAT

Choose any 3 FOR ONLY £15 ex VAT

When ordering any Aries Multimedia Bundle

THE GENIUS OF EDISON, THE COMPLETE COOKBOOK, LUCKMAN'S ZIP™, LUCKMAN'S WEB EDIT PRO, COMPTON'S WEB ATLAS, COMPTON'S WORLD ATLAS, THE SAFE WAY TO CLEAN MINORS GUARANTEED, UNINSTALLER, BODYWORKS 50, COMPTON'S ENCYCLOPEDIA, BATTLES OF THE WORLD, BATTLES OF THE WORLD 5.

Yamaha Speakers

YST-M15
Powered Speakers



- ▲ Amplifier Output 10 Watts/Channel
- ▲ Frequency Response 70HZ - 20KHZ plus or minus 3dB
- ▲ Driver Unit 8cm Full-range cone, magnetic shielding
- ▲ Dimensions (WxHxD) 94x245x155mm

YST-M15
£45
£52.88 inc. VAT

YST-MS25
Powered Speakers



- NEW**
- ▲ Amplifier Output 25 total power
 - ▲ Frequency Response 40HZ - 20KHZ plus or minus 3dB
 - ▲ Driver Units 5cm Full-range cone (satellites) 13cm base cone (subwoofer), magnetic shielding
 - ▲ Dimensions (WxHxD) 80x70x120mm (satellites), 202x147x210mm (subwoofer)

YST-MS25
£65
£76.38 inc. VAT

YST-M20DSP
Powered Speakers



- ▲ DSP(Digital Surround Processing)
- ▲ Amplifier Output 10 Watts/Channel
- ▲ Frequency Response 70HZ - 20KHZ plus or minus 3dB
- ▲ Driver Unit 8cm
- ▲ Dimensions (WxHxD) 94x245x155mm

YST-M20DSP
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£57.58 inc. VAT



Sales Hotline: 01582 745555

FAX: 01582 488588

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DIAMOND

MULTIMEDIA

NOW AVAILABLE

Viper V330 Graphics Accelerator Card

- ▲ High-Resolution Graphics-Acceleration up to 1600 x 1200
- ▲ TrueColour with 1024 x 768, 120Hz
- ▲ High Performance 2D / 3D and Video Accelerator with 4MB SGRAM
- ▲ Supports DirectX 5 (incl. Direct3D and DirectDraw)
- ▲ High Quality Video X and Y Scaler

What the press says...
"This card ran 3D Winbench so fast, it finished before I could blink!" "Benchmarks don't tell the whole story though. Direct3D games ran very, very fast as well!"
 Computer Gaming World 11/97

Viper V330
Call

SupraExpress 56K External



K56 flex technology - plug and play ready

Benefits

- ▲ 56,000 bps: ideal for ultra high speed Internet and online surfing
- ▲ All-in-one: Internet, fax, home banking and data transfer
- ▲ Video phone ready
- ▲ Microphone and speaker jack

Features

- ▲ Rockwell K56 flex tech.
- ▲ 14,400 bps fax data transfer
- ▲ Plug & Play installation

56K External
£75
T6265
£88.13 inc. VAT

Monster Sound

3D Accelerator

Next Generation DirectSound™ 3D Accelerator

Benefits

- ▲ Uses the latest Windows® 95 sound standard
- ▲ Most realistic audio playback using Interactive positional
- ▲ 3D sound technologies
- ▲ Audio playback support for quad speakers
- ▲ Fully DirectSound™ compatible Multi-Stream audio support

Features

- ▲ Windows® 95, DirectSound™ support
- ▲ Easy Plug & Play installation
- ▲ Software wavetable synthesiser with hardware module (optional)
- ▲ Special effects supported (Reverb, Chorus, Pitch Shift)
- ▲ Multi-stream support for interactive real-time mixing of up to 24 different audio streams simultaneously (Mono/Stereo)
- ▲ Advanced speaker configuration tool(stereo, quad speaker, headphones etc.)
- ▲ Virtual Sound Blaster™, FM, MIDI and Joystick support (for Windows® 95)
- ▲ Windows® 95 drivers incl. Sound Blaster™ and MPU 401 emulation

DirectSound **Monster Sound** **3D Audio** **3D**

Monster Sound
£99
18658
£116.33 inc. VAT

Stealth 3D 2000 Pro

Powerful High-Speed Graphics & 3D Multimedia Accelerator

Stealth 3D 2000 Pro
£44
2Mb
£51.70 inc. VAT

Stealth 3D 2000 Pro
£52
4Mb
£61.10 inc. VAT

Benefits

- ▲ High-speed 2D, 3D and video acceleration for demanding applications
- ▲ Improved 3D performance
- ▲ Realistic games and multimedia through advanced built-in 3D features

Features

- ▲ High-performance 64 bit graphics accelerator with max.4Mb EDO DRAM
- ▲ TrueColor acceleration up to 1024 x 768 at 120Hz
- ▲ Flicker-free refresh up to 120Hz
- ▲ High-quality video playback
- ▲ DOS, Windows® 3.1x, Windows® 95 and Windows NT™ Support
- ▲ Supports DirectX™ and Direct3D™
- ▲ Version with PAL TV-Out available

Also Available

Stealth 3D 2000
£36
16845
£42.30 inc. VAT

Stealth 3D 2000
£45
16850
£52.88 inc. VAT

Fire GL 1000 Pro

Ultimate 2D and 3D Graphics for WindowsNT™

Benefits

- ▲ No-compromise 2D and 3D graphics for Windows®95 and Windows NT™ - supports Direct3D™ and OpenGL
- ▲ Professional 3D functionality in an affordable solution
- ▲ Double buffering, texture mapping and video hardware support
- ▲ Integrated geometry processing reduced CPU load and boosts 3D performance

Features

- ▲ Fast 3D graphics - up to 600k polygons/s (HighColor, textured and z-buffered)
- ▲ High-speed texturing - up to 30 Mill.pixels/s
- ▲ Ultra-high resolutions up to 1600 x 1200, 75Hz and HighColor
- ▲ TrueColor acceleration up to 1152 x 870, 75Hz
- ▲ OpenGL, HEIDI and Direct3D™ support for Windows NT™ and Windows®95 applications
- ▲ Drivers for Windows®95, Windows NT™ 3.51 and Windows NT™ 4.0 includes productivity tools for AutoCAD

Fire GL 1800 Pro
£122
18142
£149.15 inc. VAT

Supports 3D Studio Max

Apocalypse 3Dx

Dedicated 3D accelerator for arcade-level performance

- ▲ Advanced 3D realism & improved 3D image quality with bilinear texture filtering
- ▲ Accelerates PowerVR and Direct3D titles
- ▲ Five Free Games: Ultimate Race, Wipeout 2097, Tomb Raider*, Terricide*, MechWarrior II, Plus trial games CD (* denotes OEM version)
- ▲ Works with any Windows 95 Accelerator card via Microsoft DirectX 3.0
- ▲ NEC/VideoLogic PCX2 PowerVR 3D processor
- ▲ 4MB of high performance SDRAM texture memory on board
- ▲ Optimal platform P166 with 32MB RAM or above; min requirement P133 with 32MB RAM; 2MB or above graphics accelerator



Apocalypse 3Dx Press Awards to date

- ▲ PC Answers - Platinum Award, July 97
- ▲ PC Games (Germany) - Recommended Award, July 97
- ▲ Boot (US) - Kick Ass Award, May 97
- ▲ PC Guide - Best Buy, July 97
- ▲ What PC? - Five Star Award, July 97
- ▲ Games Mansion - Five Star Award, July 97
- ▲ PC Plus - Best Value Award, Oct 97
- ▲ PC Fun (France) - Recommended Award







3Dx
£69
18524
£81.08 inc. VAT

3Dx Value Pack
£49
18582
£57.58 inc. VAT

5D 6MB
£137
18275
£160.98 inc. VAT



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GRAPHICS CARDS

Table listing various graphics cards including ARIES, ATI, DIAMOND, and MATROX models with their prices.

Table listing 2Mb and 4Mb graphics cards from Grafixstar and Apocalypse.

MULTIMEDIA VIDEO/TV CARDS

Table listing multimedia video and TV cards from AIMS LABS, AZTECH, CONNECTWARE, CREATIVE LABS, and INTEL.

PROJECTOR UNITS

Table listing projector units from CHUNTEX, EPSON, SANYO, and SONY.

VIDEO CONFERENCING

Table listing video conferencing equipment from Connectix.

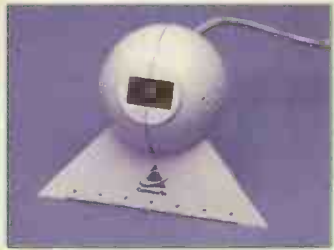


Table listing security devices like videophones and video capture cards.

SECURITY DEVICES

Table listing security devices including disk drive locks, mouse traps, and security alarms.



COMPUTER CASES WITH PSU

Table listing computer cases with power supplies from various brands.

HARD DRIVE ACCESSORIES

Table listing hard drive accessories like fixing kits and interface leads.

FLOPPY DISK DRIVES

Table listing floppy disk drives and interface cables.

CABLES & ACCESSORIES

Table listing various cables and accessories for computers.

3.5" EXCEL DISKETTES

Table listing 3.5 inch Excel diskettes with their prices.

ARIES COMPUTER FURNITURE

Table listing Aries computer furniture including workstations and computer centres.

STOCK CLEARANCE SALE

Table listing various hardware items on a stock clearance sale, including controllers, drives, mice, and printers.



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FAX: 01582 488588

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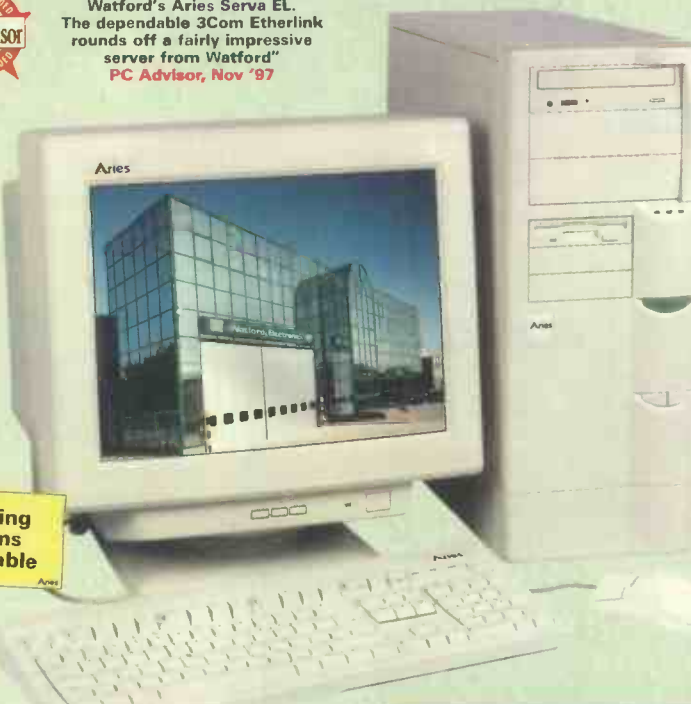
Prices exclude carriage & VAT @ 17.5% except where shown.



Aries Networking Solutions



"For speed demons, we recommend Watford's Aries Serva EL. The dependable 3Com Etherlink rounds off a fairly impressive server from Watford" PC Advisor, Nov '97



Leasing Terms Available

FACT: Over 60% of businesses that suffer from major data loss go bankrupt in the following year!

To ensure that this is only ever a meaningless statistic to you, Watford Electronics have launched a range of network servers centring on reliability and performance.

From small businesses to large corporations, Watford Electronics has a range of high performance servers designed to withstand the demands of each environment. With twenty-five years experience, Watford Electronics has the resources and expertise to design and implement a networking solution to your specification.

Using the latest technology to ensure the fastest possible performance and hardware options available such as RAID which, when used with the backup solution provided as standard, should ensure that your all important data will never be lost. Watford Electronics' servers are specifically designed for Windows NT, Netware and SCO Unix.

YOUR networking solution is only a phone call away.



OPERATING SYSTEMS

MS Windows NT Server

MS BackOffice Small Business Server contains the essential services that small businesses need to easily run their operations and communicate with customers and partners in new and more efficient ways. Designed for businesses with up to 25 PCs, Small Business Server addresses the cost and complexity issues that have blocked small businesses from tapping the power of the Internet and intranet computing previously.

MS BackOffice Small Business Server Includes:

- ▲ MS Windows NT Server v4.0
- ▲ MS Outlook
- ▲ MS Exchange Server v5.0 including
- ▲ MS SQL Server v6.5
- ▲ MS Internet Information Server

Product	Code	Price	Inc. VAT
MS BackOffice Small Business Server + 5 Clients	18796	£925.00	£1086.87
MS BackOffice Small Business Server + 25 Clients	18787	£1525.00	£1791.87
Additional Client Licences (max 25 per server)	18798	£195.00	£229.13

Novell IntraNetWare

Novell NetWare is the ideal platform for your business, whether you are just starting out or have hundreds of users. Providing all the features you would expect from a product of this calibre, including level C2 security, fault tolerance, management facilities and lots more. Also included are Multiprotocol Router, WAN extensions, FTP services, NetWare Webserver and Netscape Navigator.

Product	Code	Price	Inc. VAT
IntraNetWare 5 User	17791	£450.00	£528.75
IntraNetWare 10 User	17799	£850.00	£998.75
IntraNetWare 25 User	17800	£1405.00	£1650.87
IntraNetWare 50 User	17801	£2000.00	£2350.00
IntraNetWare 100 User	17802	£2820.00	£3313.50
IntraNetWare - Additional 10 Users	17819	£535.00	£628.62
IntraNetWare - Additional 25 Users	17792	£1220.00	£1433.50
IntraNetWare - Additional 50 Users	17820	£1850.00	£2173.75

SFT III Options available for total fault tolerance. Call for a competitive quotation.

SCO OpenServer

SCO OpenServer is the next generation of server operating systems that make it easier to build powerful business critical solutions. It is no doubt the most robust Unix environment available for Intel platforms, and together with its user friendly GUI environment make SCO the perfect choice. The latest version also has built in Internet support, security to C2 level and full interoperability with other networking systems such as IPX/SPX, NFS and MS Windows 95/NT.

Product	Code	Price	Inc. VAT
SCO OpenServer v5.0.4 Enterprise 5 User	14281	£693.95	£815.29
SCO OpenServer v5.0.4 Development Tools	14284	£445.95	£523.49
SCO OpenServer v5.0.4 Additional 10 Users	14571	£284.95	£334.82
SCO OpenServer v5.0.4 Additional 25 Users	14572	£606.95	£713.16

Other SCO products available, please call for details and pricing.

Aries Serva EL

- ▲ Intel Advance Triton TX chipset PCI Motherboard
- ▲ Intel P233MMX - 233Mhz Processor
- ▲ 512K Pipeline Burst Cache Memory
- ▲ Bios is year 2000 compliant
- ▲ 32Mb EDO RAM expandable to 128Mb
- ▲ 3.2Gb 11ms Hard Disk Drive
- ▲ 14" Aries SuperVGA Low Radiation Colour Monitor
- ▲ 16X IDE CD ROM Drive
- ▲ 2Mb PCI Video Accelerator Card
- ▲ 3.5" 1.44Mb Floppy Disk Drive
- ▲ Aries Advanced 105 Key Keyboard
- ▲ 3 Button Microsoft compatible Mouse
- ▲ IEC Mains Power Lead
- ▲ Seagate 3.2Gb Travan Int. Backup unit
- ▲ 12 months RTB warranty parts and labour
- ▲ Etherlink III 3C905B UTP/ISA Combo
- ▲ Midi-Tower case + PSU (CE approved)

INTEL P233MMX
233Mhz PROCESSOR
£999
£1173.83 inc. VAT

Aries Serva ML

- ▲ Intel Advance Triton II 440FX chipset PCI - Slot one -ATX
- ▲ Intel Pentium II 233 - 233Mhz Processor
- ▲ 512K Pipeline Burst Cache Memory
- ▲ Bios is year 2000 compliant
- ▲ 32Mb EDO RAM expandable to 128Mb
- ▲ 4.3Gb SCSI-II 10ms Hard Disk Drive
- ▲ 2940AU PCI SCSI Controller
- ▲ 14" Aries SuperVGA Low Radiation Colour Monitor
- ▲ 16X SCSI CD ROM Drive
- ▲ 2Mb PCI Video Accelerator Card
- ▲ 3.5" 1.44Mb Floppy Disk Drive
- ▲ Aries Advanced 105 Key Keyboard
- ▲ 3 Button Microsoft compatible Mouse
- ▲ IEC Mains Power Lead
- ▲ HP Surestore 5000i 5.0Gb Int. SCSI Backup unit
- ▲ 12 months RTB warranty parts and labour
- ▲ Etherlink III 3C905B UTP/ISA Combo
- ▲ Midi-Tower case + PSU (CE approved)

INTEL PENTIUM II
233Mhz PROCESSOR
£1799
£2113.83 inc. VAT

Aries Serva XL

- ▲ Intel Advance Triton II LX chipset PCI - Slot one -ATX
- ▲ Intel Pentium II 300 - 300Mhz Processor
- ▲ 512K Pipeline Burst Cache Memory
- ▲ 64Mb SDRAM 3.3v expandable to 256Mb
- ▲ Bios is year 2000 compliant
- ▲ 2 x 4.3Gb SCSI-II 10ms Hard Disk Drive
- ▲ 2940AU PCI SCSI Controller
- ▲ 14" Aries SuperVGA Low Radiation Colour Monitor
- ▲ 16X SCSI CD ROM Drive
- ▲ 2Mb PCI Video Accelerator Card
- ▲ 3.5" 1.44Mb Floppy Disk Drive
- ▲ Aries Advanced 105 Key Keyboard
- ▲ 3 Button Microsoft compatible Mouse
- ▲ IEC Mains Power Lead
- ▲ SONY STD-5000 4Gb Dat Int. SCSI Backup unit
- ▲ 12 months RTB warranty parts and labour
- ▲ Intel Etherexpress Pro 100 server card - with the NEW i960 controller
- ▲ Midi-Tower case + PSU (CE approved)

INTEL PENTIUM II
300Mhz PROCESSOR
£2699
£3171.33 inc. VAT



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REFER TO TERMS & CONDITIONS ON PAGE 2



100base T Ethernet Hubs

The 100base TX range of Fast Ethernet hubs can be used to create power workgroups and provide interconnection to centrally located servers.

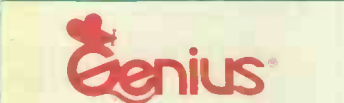
- 4 Port Hub**
£159
£186.83 inc. VAT
- 8 Port Hub**
£299
£351.33 inc. VAT
- 16 Port Hub**
£569
£668.58 inc. VAT

- ▲ 4, 8 or 16 UTP ports
- ▲ Compact size (16port model fits 19" rack)
- ▲ LED indicators for link and activity status
- ▲ Mains powered
- ▲ Standard RJ45 ports supporting Cat 5 cable

PeripheralVision

PeripheralVision enables the user to design and manage their network in a total graphical solution. It will 'discover' any device on a TCP/IP network and construct a map of the LAN.

- ▲ Ping any device on the network
- ▲ Graphically map out & manage the whole LAN
- ▲ Supports Windows 95 and Windows NT
- ▲ Analyses status of hubs, servers, PCs etc
- ▲ Requires MS TCP/IP



100MBS FAST ETHERNET HUBS

- 12168 GH4080 Mini 8pt, 1xBNC £43.95
- 12199 GH4160 Mini 16pt, 1xBNC, 1xAUI £94.95
- 14186 GH4160/R 19" Rack 16pt, 1xBNC, 1xAUI £128.95
- 100MBS FAST ETHERNET HUBS**
- 15627 GF4080TX 19" Rack 8pt £379.95
- 15628 GF4120TX 19" Rack 12pt £514.95
- ETHERNET PRINTSERVERS**
- 12430 GPS300 Pocket NetWare only - 1xPar £73.95
- 17856 GPS300 Pocket M/Protocol - 1xPar £112.95

Ethernet Cabling & Accessories

	1m	2m	3m	5m	10m	20m	30m	50m	100m	300m
RG58 Thin Ethernet Cable	£0.99	£1.15	£1.65	£2.50	4.95	7.5	9.95	12.95	£23.95	—
Category 5 UTP Cable	£0.95	£1.20	£1.85	£2.35	4.5	7.35	11.95	15.95	—	£73.27

SOCKETS & OUTLETS		CONNECTORS	
12089 BNC Outlet - Single Flush Mount	£2.10	12140 BNC Male Crimp Plug	£0.65
12090 BNC Outlet - Dual Flush Mount	£2.95	12143 BNC Female Barrel Connector	£0.99
15379 RJ45 Outlet - Single Flush Mount	£7.95	12141 BNC T Connector	£1.20
12088 RJ45 Outlet - Dual Flush Mount	£11.95	12142 BNC 50ohm Terminator	£0.95
17328 EAD Outlet - Dual Flush Mount	£19.95	12144 BNC 50ohm Terminator & Earth	£1.35
16534 Pattress Box for above outlets	£1.20	12748 RJ45 8P8C Crimp Plug	£0.25
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15197 24port 19" Patch Panel	£89.95	11760 Thin Ethernet Crimp Tool	£10.95
		11763 Thin Ethernet Cable Stripper	£6.95
		12084 RJ45 Crimp Tool	£11.95
		15073 Round UTP Cable Stripper	£10.95
		15217 Krone IDC Crimp Tool	£19.95

Bulk discounts available
Call for prices

10MBS ETHERNET ADAPTERS

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- 16319 EtherExpress Pro/10+ PCI BNC/TP £71.95
- 100MBS FAST ETHERNET ADAPTERS**
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- 18713 EtherExpress Pro/100 PCI Server Adaptor £302.95
- 18213 EtherExpress Pro/100 EISA TP only £157.95
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- 18654 EtherExpress Pro/100 Mobile 32bit Cardbus Call
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- 18718 Express 10/100 24pt £1,030.95
- 10/100MBS ETHERNET SWITCHES**
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The industry standard for Fast Ethernet. The Pro/100 is the first and rapidly emerging standard for Fast Ethernet. With its dual speed operation the Pro/100 will run in 10Mb mode and automatically switch to 100Mb when the network is upgraded. Intel provide the complete solution - network adapters for both workstations and servers, hubs, switches and print servers.

3Com

The Fast Etherlink 10/100 adapters sets the industry standard for performance. With 3Com's exclusive Parallel Tasking technology, you can get maximum speeds at both 10Mbs and 100Mbs. Installation is simplicity - the adapter autosenes the LAN speed, making upgrading easy. The perfect compliment is the range of OfficeConnect hubs and switches giving you a complete system from a name you can trust.

10MBS ETHERNET ADAPTERS

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- 11446 3C509B ISA BNC/TP * £41.95
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- 11479 3C589D 16bit PC Card BNC/TP £104.95
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- 11438 3C900 PCI BNC/TP * £77.95
- 17857 3C563 16bit PC Card BNC/TP & 33.6 Modem £189.95

100MBS ETHERNET HUBS

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- 17638 3C597TX EISA TP only £139.95
- 18210 3C575TX 16bit PC Card TP only * £89.95

* = 5 and 20 packs available call for latest pricing

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- 17295 3C16700 OfficeConnect 8/TP0 8pt 10Mb £49.95
- 18701 3C16702 OfficeConnect TP16C 16pt 10Mb £124.95
- 18702 3C16722 OfficeConnect TP800 8pt 100Mb Call
- 18703 3C16721 OfficeConnect TP1200 12pt 100Mb Call

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- 18706 3C250ATX SuperStack 100 12port £786.95

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10MBS ETHERNET ADAPTERS

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- 18202 DE660CT 16bit Cardbus BNC/TP £42.95

100MBS ETHERNET ADAPTERS

- 18072 DFE500TX 10/100 PCI TP only £28.95

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- 18216 DE816TAC Mini 16pt, 1xBNC, 1xAUI £114.95
- 18217 DE812TP 19" Rack 12pt, 1xBNC, 1xAUI £94.95
- 18218 DE816TP 19" Rack 16pt, 1xBNC, 1xAUI £104.95
- 18219 DE824TP 19" Rack 24pt, 1xBNC, 1xAUI £141.95

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- 18223 DE1824 19" Rack 24pt, 1xAUI Client £304.95

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- 18227 DFE1212TX 19" Rack 12pt Managed Client £672.95

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HEWLETT PACKARD

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- 18710 J3234A AdvanceStack 12TX 12pt £575.95

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Sales Hotline: 01582 745566 **FAX: 01582 745523**

FOR ORDERING INFORMATION SEE PAGE 2 Prices exclude carriage & VAT @ 17.5% except where shown.



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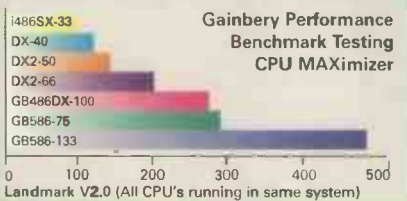
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Maximizer 586
15620
£85
£99.88 inc. VAT



Easy installation:
1. Power down your machine, and yourself to the metal frame
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3. Align pin 1 on the board and CPU MAXimiser, plug it in firmly
4. Close the case, plug in your machine and that's it



Choose the 586 CPU Maximizer that fits your system

CPU PRICE	MAXIMISER SYSTEM	YOUR CURRENT SYSTEM	EXT. CLOCK RATE
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		SX2-66, DX2-66, DX4-100	

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10625	1M x 32, 4Mb EDO	£8
10626	2M x 32, 8Mb EDO	£15
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15908	8Mb 168 Pin (1 x 64) 5v	£22
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16335	Pentium P166 MMX NEW	£76
16336	Pentium P200 MMX NEW	£139
17995	Pentium P233 MMX NEW	£189
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10666	Pentium Pro 200MHz - 256K Cache	£319
17366	Pentium Pro 200MHz - 512K Cache	£695
17906	Pentium II 233MHz	£262
17907	Pentium II 266MHz	£349
18572	Pentium II 300MHz	£519
18640	Pentium II 333MHz	£579
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17633	AMD K6-200	£115
17634	AMD K6-233	£153
18113	Cyrix M2-PR166	£74
18239	Cyrix M2-PR200	£111
18240	Cyrix M2-PR233	£255
	Cyrix Media GX	CALL
13565	SGS 486DX2-66	£19
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16933	Pentium P75/P90 to P125/P150 with MMX	£120
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15620	GB586-133	£85
EVERGREEN		
16600	486SX/DX to 586/133MHz	£99
KINGSTON		
17244	TurboChip 133	£99
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16604	Make-It 386SX - 486	£79
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10588	486DX Fan and Heat Sink	£4
18051	AMD K6 Fan and Heat Sink	£10
17635	Cyrix 6x86 Fan and Heat Sink	£8
10596	Pentium Fan and Heat Sink	£5
15899	Pentium Pro Fan and Heat Sink	£10

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ABIT		
18274	Pentium TX P75 - MMX 512k cache	£70
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17750	Pentium Pro Motherboard	£105
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17909	Pentium TX Chipset 512K Cache Motherboard	£99
17909	Pentium TX Chipset 512K Cache Motherboard ATX format	£129
17940	KN97X Pentium II Motherboard	£175
18310	Inell 440 LX chip set Pentium II	£195
	Intel 440LX chip set Dual PII Socket ELITE	£442
17912	TX Chipset 512K Cache Motherboard	£79
18053	VX Chipset 512K Cache Motherboard	£89
18645	PGLX-8 Intel LX Pentium II ATX	£155
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17913	TX Chipset 512K Cache Motherboard	£85
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17732	TX Pentium P75-MMX K6 5xPCI 4xISA (ATX Format)	£125

17731	TX Pentium P75-MMX K6 5xPCI 4xISA (AT Format)	£125
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16508	SnapScan Colour 310	£169
	SnapScan Colour 600	£279
16511	Studio Star Colour	£519
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13405	Scanafax - makes your fax machine into a scanner	£29
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14275	Canoscan 300	£129
14276	Canoscan 300 + SCSI	£259
14278	Canoscan 600	£454
14279	Canoscan 600 + SCSI	£515
18619	Film Adaptor for Canoscan 600	£355
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17927	FilmScan 200 SCSI	£326
13374	GTX5000 Flatbed Scanner - Parallel	£154
13375	GTX5000 Flatbed Scanner - SCSI	£246
10218	GTX8500 Flatbed Scanner - Parallel	£369
10219	GTX8500 Flatbed Scanner - SCSI AT/UF	£392
17946	GTI 8500 Flatbed Scanner - SCSI	£469
14185	GTX9500 Flatbed Scanner - Parallel	£446
14184	GTX9500 Flatbed Scanner - SCSI	£469
17796	GTI9500 Flatbed Scanner - SCSI	£538
GENIUS		
10232	Scanmate Colour Deluxe	£55
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18622	Color Page EP	£95
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18238	ScanJet 4C Graphics Pro	£445
13516	ScanJet 4Si Mono	£999
14328	ScanJet 5P Colour	£149
17952	ScanJet 5S Colour	£134
	ScanJet 1600C	£449
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14241	Support Pack for Scanjet 4S/4P/5P - HP5465A	£65
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15693	ScanMan Colour 2000	£75
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	PageScan Colour Pro	£129
	FreeScan Parallel	£122
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13494	ScanMaker E3 2400dpi 24 Bit A4 Colour Scanner + Software	£122
10239	ScanMaker E6 4800dpi 30 Bit A4 Colour Scanner + Software	£269
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17182	Coolscan II External	£645
17183	Coolscan II Internal	£560
17184	Coolscan II Internal Drivers	£55
16514	Scantouch AX-110	£189
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17185	Super Coolscan	£1,159
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17928	Astra 600S Colour Scanner	£129
17929	Astra 610P Colour Scanner	£84
17995	Astra 1200S Colour Scanner	£299
18623	Astra 1200P Colour Scanner	Call
17930	Astra Transparency Adaptor	£199
16515	PageOffice Colour Document Scanner	£69
17997	Powerlook Colour Studio II Scanner	£749
16524	Powerlook 2000 1000 x 2000 Optical dpi, 10,000 x 10,000 Max dpi	£2,799
16523	Powerlook II Pro 600 x 1200dpi Colour Scanner	£1,499
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17186	Visioneer Paperport iX Windows Scanner	£115
15783	Visioneer Paperport MX Windows Scanner	£119
18624	Visioneer Paperport 3000	£125
18625	Visioneer Paperport 6000	£195
18626	Visioneer Paperport Strobe	£165

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10141	HiPoint Notebook	£10
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17213	Trackman Marble	£42
18630	TrackMan	£69
10172	TrackMan Portable Serial & PS/2	£30
17215	Trackman Surfman	£45
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18257	MS Intellimouse Trackerball	£40

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ARIES		
13071	ERGONOMIC WIN 95	£27
10169	105 Key Windows 95 Keyboard	£12
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17206	G80-3000 Click Action	£35
17250	G80-3000HAU External Notebook Numeric Keypad	£59
17205	G81-3000 Soft Touch WIN95	£17
17207	G83-6105 Click WIN95	£18
10152	G83-6105LAMB Membrane	£19
17209	G84-4400 Trackball Notebook Keyboard	£199
MICROSOFT		
10155	Natural Keyboard	£45
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10920	PS/2 (Male) - AT (Female)	£5
16366	AT (Male) - PS/2 (Female)	£5

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PCMCIA		
13660	Game Card II	£45
CH PRODUCTS		
17191	F-16 Combat Stick (4 Button)	£54
17190	F-16 Flightstick (4 Button)	£35
10189	Flightstick	£26
10190	Flightstick Pro	£44
18670	Force FX	£99
17189	Jet Stick	£19
17192	Pro Pedals	£65
17193	Pro Throttle	£79
18668	Racing System	£75
13669	Virtual Pilot Pro Yoke	£60
10222	Virtual Pilot Yoke	£53
ROCKFIRE		
17689	QF-305X Fire/Weapon Control Pad	£14
17690	QF-606i Control Stick	£20
17691	QF-909i Fighter Stick	£30
GRAVIS		
13899	Advanced Game Pad	£17
13872	Analog Pro Joystick	£25
13868	Analog Joystick	£29
15700	Firebird Flight & Weapon Control System	£49
LOGITECH		
18631	CyberMan 2	Call
15702	Thunderpad	£14
10165	WingMan	£23
10175	WingMan Extreme Digital	£32
15203	WingMan Light	£49
15704	WingMan Warrior	£49
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15482	Sidewinder 3D Pro With Hellbender	£42
15705	Sidewinder Game Pad	£24
13901	Sidewinder Std.	£20
	Sidewinder Precision	£36
	Sidewinder Force Feedback Pro	£79
ACCESSORIES		
17204	Dual Joystick Splitter Cable	£9
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Elitegroup are one of the world's leading motherboard manufacturers and are the choice of many household PC manufacturers. Now you have an opportunity to own a product that has gained an enviable reputation for performance, quality and reliability. We can supply an Elitegroup motherboard that matches any of your specific requirements or alternatively we can offer a pre-built partial system then allowing you to select your ideal components from our leading vendors in this catalogue.

Barebone PC Systems

If you are looking to build your own PC an Elitegroup barebone system offers the ideal solution. Each system consists of a high quality case, power supply, motherboard and floppy disk drive. These systems offer the latest in motherboard and case technology and have been designed for easy assembly.

- ▲ Latest ATX case design complies to PC'97 standard
- ▲ Available in either midi or desktop format, manufactured in high-quality injection moulded plastic. Fitted with 3.5" FDD
- ▲ Latest motherboard design featuring either Intel 430TX (Pentium) or 440LX chipset (Pentium II)

Intel 430TX Pentium Barebone

P75 - P233 (MMX), 512KB L2 Cache
3 x DIMM Sockets for SD-RAM
UltraDMA support, 2 x USB
ATX Case with 3.3V PSU & 3.5" FDD
Desktop or Midi-Tower

Desktop
£145
18656
£170.38 inc. VAT

Midi Version
£145
18657
£170.38 inc. VAT

Intel 440LX Pentium II Barebone

PII233 - PII333 (MMX) with AGP Port
4 x DIMM Sockets for SD-RAM
Ultra DMA support, 2 x USB
ATX Case with 3.3V PSU & 3.5" FDD
Desktop or Midi-Tower

Desktop
£245
18659
£287.79 inc. VAT

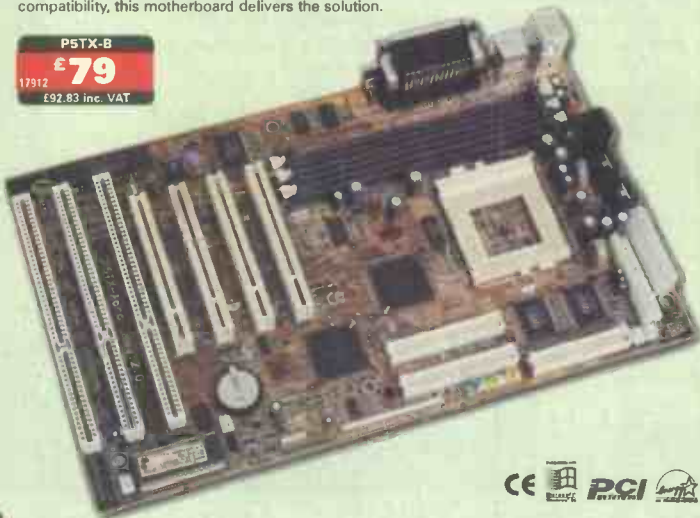
Midi Version
£245
18660
£287.79 inc. VAT

Product	Baby-AT	SIS "VX" Pentium, P75 - P233, 512KB PBS, 4 x SIMM	Price	Inc. VAT
18662	Baby-AT	SIS "VX" Pentium, P75 - P233, 512KB PBS, 4 x SIMM	£55	£64.63
18663	ATX	SIS "TX" Pentium, P75 - P233, 512KB PBS, 4 x SIMM, UltraDMA/33	£65	£76.38
18178	ATX	Intel TX Pentium, P75 - P233, 512KB PBS, 3 x DIMM, UltraDMA/33	£92	£108.10
18664	ATX	Intel TX Pentium, P75 - P233, 512KB PBS, 3 x DIMM, UDMA/33, LDCM	£99	£116.33
18665	ATX	Intel TX Pentium, P75 - P233, 512KB, 3 x DIMM, ATI 3D Video & Sound	£145	£170.38
18645	ATX	Intel LX Pentium II Single, P233 - P333, AGP, 4 x DIMM, UDMA/33	£146	£170.38
18666	ATX	Intel LX Pentium II Single, P233 - P333, AGP, Adaptec Ultrawide SCSI & RAID Port, Intel LDCM, 4 x DIMM, UDMA/33	£219	£257.33
18667	ATX	Intel LX Pentium II Dual, P233 - P333, AGP, Adaptec Ultrawide SCSI & RAID Port, Intel LDCM, 4 x DIMM, UDMA/33	£289	£334.88

P5TX-B (Baby-AT)

The motherboard is the heart of your system, if you want to utilise all the new technology now available then a motherboard upgrade is necessary. Look no further than the P5TX-B which has the new Intel 430TX chipset which is compatible with all CPU's from P75 - P233 and is enhanced for MMX, support for faster memory and hard-disk. If you demand more performance and compatibility, this motherboard delivers the solution.

P5TX-B
£79
17912
£92.83 inc. VAT



- ▲ Intel 430TX Chipset
- ▲ CPU Support for Intel, AMD and Cyrix (MMX), P75 - P233 Speeds
- ▲ 512KB level 2 Cache
- ▲ 4 x SIMM and 2 x DIMM socket for SD-RAM, 256MB total
- ▲ Support for UltraDMA/33 Hard Drives (33MB per sec)
- ▲ 2 x fast serial and 1 x fast parallel
- ▲ AT keyboard & PS/2 Mouse Connectors
- ▲ 2 x USB Ports
- ▲ Baby-AT Format (218mm x 281mm)

Aries Card 3DFx Voodoo

NEW

The new Aries 3DFx Voodoo Card is a hardware 3D graphics accelerator card that utilises the renowned 3DFx Voodoo Card chipset. The MM100PC3D works transparently in conjunction with an existing 2D or 2D/3D graphics adapter or accelerators via analogue pass through.



Voodoo Card
£99
£116.33 inc. VAT

3D Features

- ▲ Perspective correct textures
- ▲ Bi-linear and tri-linear filtering with detail
- ▲ Level of detail (LOD) MIP mapping
- ▲ Sub-pixel correction
- ▲ Polygon-based Gouraud shading and texture modulation
- ▲ 24-bit internal, 16-bit dithered RGB frame buffer
- ▲ Multiple format texture buffer (8-Bit and 16-Bit)
- ▲ 2 Mbyte of frame buffer memory
- ▲ 2 Mbyte of texture memory

ADDITIONAL FEATURES

- ▲ Anti-aliasing
- ▲ Depth buffering (16 bit)
- ▲ Alpha blending
- ▲ Per pixel special effects: fog, transparency, translucency
- ▲ Texture morphing, compositing, animation
- ▲ Linear frame buffer access

COMPATIBILITY

- ▲ Support for full-screen games under Windows 95, MS-DOS and Windows 3.1 using 3D APLs including Microsoft Direct 3D, Intel 3DR, Criterion Renderware, Argonaut bRender and more

System Requirements
Pentium processor 100 MHz (Recommended 133MHz), PCI 2D graphics card

VOODOO BUNDLE 3DFx £99

With its 128-bit "dedicated texture memory" architecture, the MM100PC3D has over 800 megabytes per second of memory bandwidth to deliver:

- ▲ 45M pixels/sec sustained fill rate for bi-linear or tri-linear filtered textures
- ▲ 550K Textured triangles/sec polygon performance

Aries Card TV Teletext

NEW

The best card currently available

Plug in our multimedia TV and Teletext card and watch TV on your PC.

Now you can have both PC and TV for a fraction of the cost of both and have lots more fun - the new Aries TV Teletext Card gives you true TV performance (in full screen or 'window' mode) and lets you capture screen shots of your favourite programmes and vide os, even from your camcorder!

Imagine having your favourite PC program and favourite TV gameshow running simultaneously on your screen then calling up Teletext for information on tomorrow's weather - the possibilities are endless.

Then, if you want to save a picture to disk, you can do what you want with it and create truly impressive stuff. The card even allows you to capture Teletext pages, including sub-titles, so you can drop the information straight into the document - handy for school projects, business reports, monitoring stock market shares etc.

Why didn't somebody invent this years ago?

"You can split your screen into a Teletext page, TV screen and PC"

Lets You Watch TV While You Are Working On Your PC



Teletext Card
£59
£69.33 inc. VAT

System requirements:
Pentium-90 with 8MB RAM (16MB preferred), 25MB spare disk space, 256-colour VGA display with 1MB linear buffer (PCI card), Direct-Draw Interface driver for VGA card, Windows-95

Sales Hotline: 01582 745555

FAX: 01582 488588

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Flight Simulator 98

Microsoft® Flight Simulator for Windows 95 provides the best way to experience the thrill and challenge of flying. The game delivers the most realistic flying simulations on a PC.

- ▲ Seven exciting aircraft, including the new Bell 2068 JetRanger III helicopter, Cessna's new 182 and the Learjet 4.5
- ▲ Realistic and absolutely accurate flight models.
- ▲ Realistic scenery and graphics incorporating support for the latest 3D acceleration cards and MMX™ technologies.
- ▲ High resolution instrument panels in all aircraft.
- ▲ A total of more than 45 3D detailed cityscapes from all over the world, and new photo-realistic areas such as Hong Kong.
- ▲ An online Airport and Facility Directory to help you fly with confidence into any of more than 3000 airports.
- ▲ New multiplayer options that put you in the sky with up to seven other planes.
- ▲ Exciting challenges and 18 new adventures test your piloting skills, whilst its easy to get help with 23 lessons (17 new).
- ▲ Force feedback support.



Flight Simulator
£30
 £35.25 inc. VAT



Sidewinder™ Game Pad



Microsoft® SideWinder™ game pad gives you more buttons, more functions, and more control!

Sidewinder GamePad
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 £29.38 inc. VAT

SideWinder Precision Pro Joystick

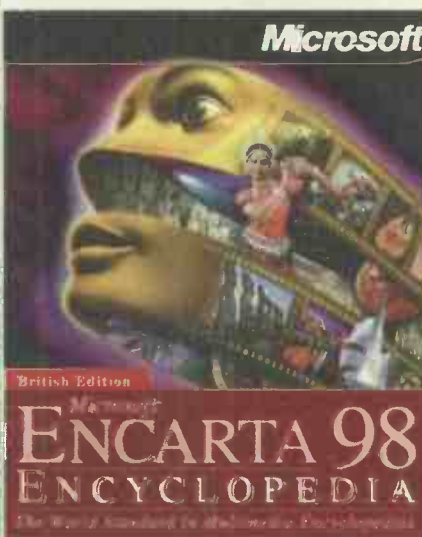
Make it your joystick, your strategy, your game



With its programmable button functions and fully-digital optical technology, The Microsoft® SideWinder® Precision Pro gives you the speed and accuracy to make every game your game.

Precision Pro
£39
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Encarta® 98 Encyclopedia



World English Edition

Everything a multimedia encyclopedia should be! Specially designed for the UK, Microsoft® Encarta® 98 Encyclopedia World English Edition, is an up-to-date and comprehensive source of reference information for the whole family. Bring a world of information to life with Encarta Encyclopedia's rich multimedia features, unique educational tools, and expanded content for 1998.

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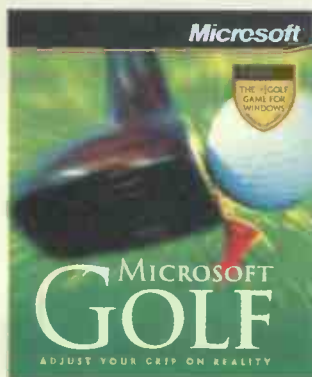
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Encarta 98
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The golf game that plays like you do

- ▲ Enhanced performance, amazing graphics, and more intense play on every shot.
- ▲ Championship courses are simulated hole-by-hole.
- ▲ Includes course fly-bys, customised stance and swing, and a panorama of camera angles.
- ▲ New Instant rendering of each hole means there's no waiting between shots.

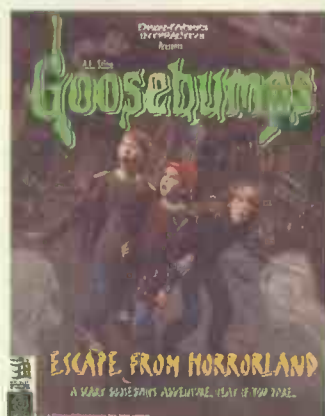


Golf 3.0
£19
 £22.33 inc. VAT

Goosebumps

Escape From Horrorland

Player beware! You're in for a scare! Escape From Horrorland, is designed to be the interactive sequel to the best-selling Goosebumps, novel One Day at Horrorland, written by R.L. Stine. As the action was filmed from a kids' perspective of 4.5 feet! the game is as real as it gets.



Goosebumps
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Enjoy 10 original games so challenging and addictive your brain will beg for more. Featuring games by Alexey Pajitnov, the Russian mastermind behind Tetris, you'll find they're easy to play yet tough to master!

Entertainment pack
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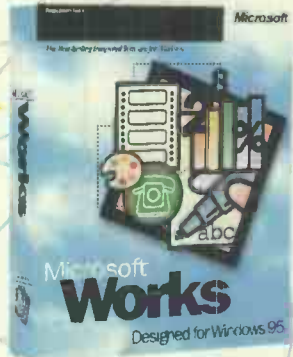


Microsoft® Word 97

The world's best-selling word processor for Windows® 95 gives you everything you need to easily create high-quality documents and share information, whether it's on the printed page or across the Internet.

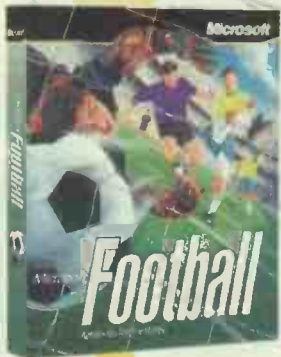
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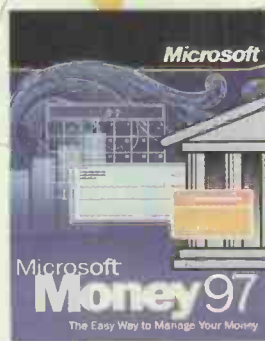


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Compete on a world-class pitch, hear the cheering crowd and play like a champion with Microsoft Football.

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Home Essentials
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The Microsoft Network

MSN™ The Microsoft Network

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Microsoft® Internet Explorer

The most exciting, easy-to-use browser on the market lets you personalise your experience and get the most out of the Internet.

Five 'Home Essentials' in One

System Requirements

- ▲ Multimedia computer with a 486DX/66 MHz or higher processor
- ▲ Microsoft Windows 95 operating system or later
- ▲ 16-bit sound card and speakers or headphones



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Microsoft Office 97 Professional

Get Organised, Get Connected and get great results fast!

Microsoft® Office 97, the world's best-selling office suite, now with the power of the Web. Microsoft® Office 97, Professional Edition. Now for a limited time and a special price you can get Microsoft® Office 97 Professional Edition with Bookshelf® Basics and IntelliMouse™

- Contains five powerful applications that work together and work alike; Microsoft® Excel 97 (spread sheet), Microsoft Word 97 (word processor), Microsoft PowerPoint® 97 (presentation graphics program), Microsoft Access 97 (database) and the newest addition to Office, the Microsoft Outlook™ 97 desktop information manager, which helps you manage your time, communications and documents; plus Bookshelf® Basics and IntelliMouse™
- CD-ROM contains thousands of clip-art images, plus .avi files and more. Microsoft® IntelliMouse™ with its innovative Wheel, puts the power to zoom and scroll at your fingertips so you get more done with less effort.
- Built-in, integrated tools let you easily create and publish content for the Web.

Microsoft IntelliMouse™

The IntelliMouse™ is similar to the popular Microsoft Mouse but now incorporates a wheel located between the two buttons to make navigating documents faster and easier. With the wheel, users can "zoom and scroll" within Office 97 applications, Microsoft Internet Explorer 3.0 and Windows 95. Functionality of the wheel is application dependent but is consistent across the Office suite.

Product	Code No.	Price	inc. VAT
Microsoft Office 97 Standard Edition	16289	£325.00	£381.88
Microsoft Office 97 Standard Edition Upgrade	16290	£149.00	£175.08
Microsoft Office 97 Standard Edition I-MLP	16396	£310.00	£364.25
Microsoft Office 97 Professional Edition with IntelliMouse	16286	£224.00	£263.20
Microsoft Office 97 Professional Edition	16287	£41.00	£492.33
Microsoft Office 97 Professional Edition Upgrade	16288	£205.00	£240.87
Microsoft Office 97 Professional Edition MLP	16398	£399.00	£468.82
Microsoft Office 97 Developer Edition	16443	£530.00	£622.75
Microsoft Office 97 Developer Edition Upgrade	16435	£390.00	£387.75
Microsoft Office 97 Developer Edition MLP	16440	£490.00	£575.75

- Microsoft Office 97 is supplied on CD only. 3.5" disks are available direct from Microsoft via Inbox coupon for a small charge.
- Microsoft Access 97 (database), Bookshelf, Basics and IntelliMouse are only available with Microsoft Office 97 Professional Edition

Microsoft® Office 97 Small Business Edition

NEW

New Office 97, Small Business Edition is the most effective way for small business to organize, promote and grow their business.

Microsoft Office 97, Small Business Edition is the first Office Suite specifically designed and targeted toward small business. The suite of applications -- Word 97, Excel 97, Publisher 97, new Outlook 97, Small Business Financial Manager 97 and AutoRoute and Internet tools that give small businesses everything they need to organize their office, expand their marketing capabilities and take advantage of the enormous business opportunities offered by the Internet.

Microsoft Office 97 contains:

- Word 97 (word processor)
- Microsoft Excel 97 (spreadsheet)
- Publisher 97 (desktop publishing)
- New Outlook 97 (desktop information manager)
- AutoRoute GB (Route Planner and Travel Guide)

- Small Business Financial Manager 97 (financial analysis tool)
- Internet tools and information.
- Includes the Microsoft Internet Explorer browser and 30 days of free Internet access time on MSNOffice 97
- Small Business Edition also takes full advantage of the new Microsoft IntelliMouse



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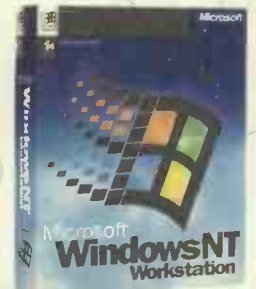
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16525	Tracker v2.0 5 User Network System	£589.00
16535	Tracker v2.0 1 User Network Licence	£115.00

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13782	Autodesk AutoCAD LT R2 upg from R1	£82.00
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15517	Imisi Turbocad Designer 2D/3D WIN	£24.00
11492	MathSoft Mathcad v6 WIN DK	£164.00
13812	MathSoft Mathcad Plus v6 WIN	£339.00
15960	RMG Drafrix Quick CAD 95 Win 95	£41.00
10934	RMG Drafrix Quick CAD v2.1 Win 3	£41.00
10567	RMG Drafrix Windows CAD Prof. Win 3.x Win 95 CD	£115.00
15959	RMG Drafrix Windows CAD Prof. Win 95 Win 3.x CD	£115.00
13800	RMG Planix Exterior Designer 3D	£25.00
13798	RMG Planix Win Office Management	£59.00

CLIPART, IMAGES & SOUND CLIPS

12786	Corel Artshow 6 Book & CD	£24.00
13819	Corel Gallery Clip Art CD	£19.00
13211	Corel Gallery Clip Art V2 CD	£32.00
16149	Corel 7 Mega Gallery + 110,000 Clip Art CD	£33.00
various	Core Prof. Photos CD-RDMS (Various)	£15.00
13160	Guidsoft Mega Graphics Pack CD	£19.00
17866	IMSI Master Graphics Converter 97 CD	£33.00
16330	IMSI MasterClips 35000 Win 3.x CD	£29.00
16413	"IMSI Masterclips 150,000 CD"	£59.00
15488	"IMSI MasterClips 101,000 CD"	£39.00
15518	Inso Image Stream CD	£38.00
10530	Lotus SmartPics ClipArt WIN DK	£75.00

COMMUNICATIONS

18585	Artisoft I Share V2.5 3 Session for Netware CD	£60.00
18586	Artisoft I Share v2.5 32 Session for Netware CD	£149.00
18584	Artisoft I Share v2.5 32 Session Upgrade CD	£85.00
15297	Artisoft CoSession Remote v7.0 Host & Viewer	£39.00
16156	Artisoft CoSession Remote v7.0 Host	£34.00
16157	Artisoft CoSession Remote v7.0 Viewer	£34.00
15298	Artisoft ModemShare v7.0 1 shared port	£11.00
15299	Artisoft ModemShare v7.0 2 shared port	£19.00
16307	Artisoft ModemShare v7.0 4 Shared Port	£210.00
11240	CompuServe Value Pack v2	£16.00
17218	Microcom Carbon Copy 32 Win 95/NT	£96.00
12258	Microcom Carbon Copy v7 Dos DK	£75.00
13129	QuaterdeckProcomm Plus v3 Win3.x/Win95 CD	£69.00
15524	QuaterdeckProcomm Plus v3 Win3.x/Win95 Upg.	£78.00
15970	RMG FastMove! 2	£28.00
15979	RMG IntelliSync	£32.00
17237	Stac Reachout Modem V7.0 Host/View	£78.00
11678	Symantec WinFax Pro v4.0 WIN DK	£54.00
11971	Symantec WinFax Pro v4.1 Ntwk Starter Pk (1 server 2 Users)	£175.00
13479	Symantec WinFax Pro v4.1 NW - 5 User Pack	£259.00
17380	Symantec WinFax Pro v8.0 Win 95 DK	£69.00
17361	Symantec WinFax Pro v8.0 Win 95 CD	£69.00
17382	Symantec WinFax Pro v8.0 Win 95 5-User DK	£295.00
17381	Symantec WinFax Pro v8.0 Win 95 5-User CD	£295.00

11081	Travelling Software Laplink WIN v6.0b Incl. Cable	£89.00
15166	Travelling Software Laplink Host WIN	£43.00
12085	Travelling Software Laplink v7.5 Win 95	£95.00
13496	Travelling Software Laplink V DOS Incl. Cable	£69.00
18010	Travelling Software Laplink for Windows NT CD	£95.00

DATABASES

11269	Alpha 5 Home & Business Edition	£35.00
13509	Alpha 5 WIN	£55.00
11293	Borland Visual dBase for WIN v5.5 DK	£195.00
13512	Borland Visual dBase Upg for WIN v5.5	£54.00
15512	Borland Visual dBase Professional Comp. Upg	£139.00
11913	Clarifilemaker Pro v3 WIN 3.x DK	£139.00
16299	MS Access 97 WIN 95 CD	£224.00
16390	MS Access 97 WIN 95 1 MLP	£205.00
16391	MS Access 97 WIN 95 Comp. + CCP Upg. DK	£88.00
11181	MS Access WIN v2.0 DK	£223.00
13531	MS Access WIN v2.0 1-MLP	£79.00
11713	MS Access WIN v2.0 CCP Upg. DK	£86.00
11711	MS Access WIN v2.0 Developer Toolkit DK	£235.00
11580	MS Access WIN v2.0 Trade-up Competitive Upg.	£115.00
15552	MS Visual FaxPro C/V Upg V5.0 Prof. Ed CD WIN 95	£199.00
18351	MS Visual FaxPro WIN95 V5.0 Prof. Ed CD	£334.00

DESKTOP PUBLISHING

11914	Adobe Framemaker v5.1 DK CD	£399.00
15924	Adobe Pagemaker v6.5 WIN95 Upg. CD	£89.00
15923	Adobe Pagemaker v6.5 WIN95 CD	£367.00
16161	Corel Ventura v7.0 CD Version	£350.00
16162	Corel Ventura v7.0 CD Version Upgrade	£139.00
18375	Design Intelligence I Publish V2.0 Win95/NT4 CD	£59.00
13587	GST Pressworks2 WIN	£22.00
11242	Digital Workshop Omamatica	£29.00
15405	MS Publisher 97 WIN 95 DK	£65.00
16810	MS Publisher 97 WIN 95 Upg DK	£39.00
15392	MS Publisher 97 WIN 95 CD	£65.00
16811	MS Publisher 97 WIN 95 Upg CD	£39.00
11047	MS Publisher v2.0 WIN	£65.00
11049	MS Publisher v2.0 WIN 1-MLP	£57.00
11183	Quark XPress WIN v3.32	£560.00
12697	Serif Page Plus Home Office Win 95 CD	£28.00
16142	Serif Draw Plus 3.0 Home Office Win 95 CD	£27.00
16141	Serif Page Plus v4.0 Win 95 CD	£39.00
16143	Serif Publishing Power Suite Win 3.1 Win 95 CD	£49.00

E-MAIL

16122	Artisoft XtraMail v1.0 Win 95	£169.00
16123	Artisoft XtraMail v1.0 Win NT	£239.00
16682	Electronic Frontier Mail 5 User	£574.00
16683	Electronic Frontier Mail Plus 5 User	£804.00
18168	Lotus Domino V4.51 Starter Pack	£860.00
18169	Lotus Domino R4.51 for Single Processor CD	£670.00
18170	Lotus Domino R4.51 for Multi Processor CD	£2,005.00
18171	Lotus Domino Additional Server Lic - Single Proce	£650.00
18172	Lotus Domino Additional Server Lic - Multi Proce	£1,950.00
18173	Lotus Domino Server Upg R4.51 for Single Processor	£495.00
18174	Lotus Domino Server Upg R4.51 for Multi Processor	£1,500.00
18175	Lotus Notes R4.51 Application Developer Pack	£27.00
16684	Lotus Notes R4.51 Client CD	£265.00
16685	Lotus Notes R4.51 Client 1LLP	£235.00
16686	Lotus Notes R4.51 Upgrade for Client CD	£204.00
16687	Lotus Notes R4.51 Upgrade for 1LLP for Client	£179.00
18118	Lotus Notes R4.51 Desktop Client CD	£74.00
16689	Lotus Notes R4.51 Desktop Client 1LLP	£61.00
16690	Lotus Notes R4.51 Upgrade for Desktop Client CD	£56.00
16691	Lotus Notes R4.51 Upgrade for 1LLP for Desktop Client	£46.00
16460	Lotus Notes R4.51 Notes Mail Client CD	£69.00
16692	Lotus Notes R4.51 Notes Mail Client 1LLP	£50.00
16694	Lotus Notes R4.51 Upgrade for Notes Mail Client CD	£52.00

16695	Lotus Notes R4.51 Upgrade for 1LLP for Notes Mail Client	£36.50
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GAMES

18317	EA Dungeon Keeper Win 95 CD	£25.00
15947	EA Fifa 97 Win 95 CD	£25.00
18316	EA Fifa Soccer Manager Win 95 CD	£25.00
18314	EA PGA Tour Pro Win 95 CD	£23.50
18318	EA Theme Hospital Win 95 CD	£25.00
18319	EA Theme Park Win 95 CD	£7.50
18533	Grimlin Actua Golf 2 Win95 CD	£32.00
13390	Microprose F1 Grand Prix 2 CD	£28.00
18326	MS Age of Empires Win95 CD	£25.00
18327	MS CART Precision Racing Win95 CD	£24.00
18325	MS Chaos Island Win95 CD	£19.00
18323	MS Close Combat - A Bridge Too Far 32-Bit Win95 CD	£25.00
18294	MS Flight Simulator 98 32-Bit CD	£30.00
15537	MS Flight Simulator v6.0 WIN95 CD	£28.50
13291	MS Fury 3 CD WIN 95	£23.00
15538	MS Golf WIN95 v3 CD	£19.00
18325	MS Goosebumps (Escape from Horrorland) Win95 CD	£19.00
18324	MS Goosebumps (Attack of the Mutants) Win95 CD	£19.00
15399	MS Monster Truck Madness CD	£25.00
15541	MS Return of Arcade DK	£13.00
15482	MS Sidewinder 3D Pro + Hellbender WIN95	£42.50
18336	MS The Neverhood Win 95 CD	£32.00
15948	Virgin Command & Conquer II Red Alert	£25.00
12574	Virgin Mortal Kombat 3 CD	£12.00
12534	Virgin Screamer 2 (High Performance Road Race) CD	£21.00
13168	Sierra Earth Siege 2 CD	£26.00
13166	Sierra Silent Thunder CD	£29.00

LANGUAGE/TRANSLATORS

15293	Berlitz Think & Talk French	£32.00
13385	Berlitz Think & Talk German	£32.00
12747	Berlitz Think & Talk Spanish	£32.00
18017	Edge Linkword Language Course 12 Lang. Win3.1/95CD	£39.00
10584	Globalink Language Assistant French WIN DK	£25.00
10498	Globalink Language Assistant German WIN DK	£25.00
10855	Globalink Language Assistant Italian WIN DK	£25.00
10586	Globalink Language Assistant Spanish WIN DK	£25.00
11690	Globalink Power Translator French WIN CD	£45.00
11689	Globalink Power Translator German WIN CD	£45.00
11692	Globalink Power Translator Spanish WIN CD	£45.00
16163	Globalink Power Translator Deluxe v5.1 CD 3 Lan	£89.00
13178	Globalink Power Translator v6 Win 95 CD 4 Lan	£129.00
13268	Imisi EZ Language v2.0 CD	£38.00
17990	IMSI Easy Language v3.0 17 Language Edition Win 95 CD	£19.00
17991	IMSI Easy Language Conversational Skills Win 95 CD	£19.00
15903	Transparent Read.Listen.Speak French CD	£39.00
15904	Transparent Read.Listen.Speak German CD	£39.00
15905	Transparent Read.Listen.Speak Italian CD	£39.00
15906	Transparent Read.Listen.Speak Spanish CD	£39.00

FONT & FONT MANAGERS

15914	Adobe Acrobat v3.0 CD	£139.00
15915	Adobe Acrobat v3.0 Upgrade Win 3.x Win 95 CD	£46.00
10690	Adobe Streamline WIN v3 CD	£89.00
11875	Fontware Face Pack 2 DK	£19.00

GRAPHICS - DRAWING & DESIGN

17936	Adobe Illustrator V7 WIN 95 CD	£255.00
15920	Adobe PhotoDeluxe v1 WIN WIN95 CD	£69.00
15917	Adobe Photoshop v4 WIN WIN95 CD	£375.00
15918	Adobe Photoshop v4 WIN WIN95 CD Upg.	£139.00
12894	Broderbund Print Shop Deluxe CD	£27.00
12905	Corel Draw v5 WIN CD	£135.00
13250	Corel Draw v6 WIN 95 CD	£68.00
16165	Corel Draw v7 Win95 CD	£259.00
15931	Corel Draw v7 Upgrade from any previous version Win95 CD	£139.00
18565	Core	

11849	Corel Xara WIN DK CD	£115.00
13866	Digital Workshop Paint Shop Pro V4 CD	£39.00
13796	IMSI Graphics Converter Gold WIN CD	£27.00
16315	Macromedia Freehand V7 Graphics Studio	£420.00
16316	Macromedia Freehand V7 Graphics Studio Comp Upg.	£199.00
13217	Micrografx Simply 3D for Windows CD	£52.00
13871	Micrografx Flowcharter v1 Win95 NT	£159.00
15643	Micrografx Flowcharter v7 upg	£99.00
13265	Micrografx Graphics Suite 2 Win95 NT CD	£199.00
13874	Micrografx Graphics Suite 2 Win95 NT C/UPG CD	£112.00
13873	Micrografx Designer Power Pack	£275.00
15799	Micrografx Windows Draw & Print Studio v5	£39.00
13934	Micrografx Windows Draw v5 Win95 NT Only CD	£30.00
13889	Micrografx Reality v2 for Windows CD	£93.00
15477	NBA PhotoWallet	£68.00
10568	RMG Inspiration for Windows	£84.00
15660	Sierra Print Artist CD	£16.00
18368	Softkey Photofinish V4.0 Win 95 CD	£39.00
13978	Visio Shapes - Adv. Elec. Engineering DK	£39.00
11659	Visio Shapes - Adv. Flowcharting DK	£39.00
11651	Visio Shapes - Adv. Network Diagrams DK	£39.00
13989	Visio Shapes - Adv. Space Planning DK	£39.00
11066	Visio Shapes - Biotechnology/Medicine DK	£39.00
11663	Visio Shapes - Chemical Engineering DK	£39.00
11085	Visio Shapes - Home Planning DK	£29.00
13881	Visio Shapes - Insurance DK	£39.00
11662	Visio Shapes - Marketing DK	£39.00
13882	Visio Shapes - Mechanical Engineering DK	£39.00
11236	Visio Shapes - Network Equipment DK	£69.00
11657	Visio Shapes - Software Diagrams DK	£39.00
15994	Visio Shapes - Chemistry Win 3.x DK	£39.00
18382	Visio V5 Professional Win 95 CD	£219.00
18383	Visio V5.0 Professional Upgrade Win 95 CD	£149.00
18384	Visio Technical V5 Win95 Win 95 CD	£219.00
18385	Visio Technical V5 Win95 Win 95 CD Upgrade	£129.00
18386	Visio V5 Win3.x/Win 95	£96.00
18387	Visio V5 Win3.x/Win95 Upg.	£58.00

GRAPHICS - PRESENTATION

13148	Asymetric 3D F/X CD	£69.00
17967	Lotus Approach 97 Win 3.x Win95 CD	£36.50
17968	Lotus Approach 97 Win 3.x Win95 DK	£36.50
17969	Lotus Approach 97 1-User Licence	£31.00
17970	Lotus Freelance Graphics 97 Win 3.x Win95 CD	£36.50
17971	Lotus Freelance Graphics 97 Win 3.x Win95 DK	£36.50
17972	Lotus Freelance Graphics 97 1-User Licence	£31.00
17824	Lotus ScreenCam 97 WIN 95 DK	£23.00
16296	MS Powerpoint 97 WIN 95 CD	£225.00
16397	MS Powerpoint 97 WIN 95 1 MLP	£89.00
16297	MS Powerpoint 97 WIN 95 Comp. + CCP Upg.	£89.00
11583	MS Powerpoint WIN v4	£224.00
11779	MS Powerpoint v4 CCP Upg.	£82.00
16174	MS Powerpoint WIN v4 1-MLP	£199.00
10893	RMG TrueSpace SE v1	£77.00
11906	RMG TrueSpace v2 CD	£362.00
15819	Scala MultiMedia MM100 CD	£99.00
16323	SPC Active Office Win 95 CD	£29.00
15487	SPC ASAP Wordpower	£86.00
11820	SPC Harvard Graphics WIN v3.0	£195.00
16175	SPC Harvard Graphics WIN v3 Comp.Upg.	£87.00
15681	SPC Harvard Graphics v4 WIN 95	£215.00
15682	SPC Harvard Graphics WIN95 v4Upg.	£95.00
11821	SPC Harvard Spotlight WIN v1.0	£89.00

HOME INTEREST & LIFESTYLE

18005	AA Virtual London Win3.1 Win 95 CD	£32.00
18006	AA Interactive Britain & Ireland Win3.1 Win 95 CD	£32.00
18007	AA Birds of Britain & Europe Win3.1 Win 95 CD	£32.00
10445	Adobe Premiere V4.2 WIN CD	£322.00
18320	Broderbund Family Tree Maker Basic Edition Win3.1/95 CD	£16.00
18337	Broderbund Family Tree Maker Std Edition Win3.1/95 CD	£28.00
18338	Broderbund Family Tree Maker Deluxe Edition Win3.1/95 CD	£43.00
17981	DK Family Health Encyclopedia Win 95 CD	£24.00
18018	Edge C.V. Maker Deluxe Win3.1 Win95 CD	£29.00
12072	Edge Family Ties v4 Win3.1 Win 95 DK	£19.00
12596	Europress BBC 3D Garden Designer 2 CD	£16.00
12599	Europress BBC 3D Interior Designer CD	£12.00
18027	Data Becker Techno Maker Win3.1/95 CD	£20.00
18508	Data Becker Techno Maker Plus Win3.1/95 CD	£10.00

18512	Data Becker Techno Maker/Plus Bundle Win3.1/95 CD	£22.00
13141	FastTrack 3D Landscape 2 CD	£30.00
13308	FastTrack Garden Encyclopaedia v1 CD	£15.00
16147	FastTrack Garden Encyclopaedia 2 Deluxe CD	£24.00
15691	FastTrack Visual Home CD	£34.00
18339	Magix Music Maker 3.0 CD	£30.00
18340	Magix Music Studio 3.0 CD	£30.00
18341	Magix Music Studio 3.0 Deluxe CD	£65.00
16448	Magix Music Painter DK	£21.00
16449	Magix Dance & House Wave Soundpool CD	£12.00
16450	Magix HipHop/P-Funk/Rap Wave Soundpool CD	£12.00
16451	Magix TripHop/Jungle Wave Soundpool CD	£12.00
16453	Magix Soul/R&B/Funk Wave Soundpool CD	£12.00
16458	Magix Ambient/Chill Wave Soundpool CD	£12.00
16384	MGI PhotoSuite Starter Kit Edition Win3.x Win 95 DK	£14.00
16385	MGI PhotoSuite Edition Win3.x Win 95 CD	£32.00
15820	MS Greetings Workshop Win 95 CD	£15.00
18289	MS Greetings Workshop Deluxe V2.0 32-Bit CD	£25.00
11363	Pinnacle Video Director Home v1.1 WIN	£42.00
11364	Pinnacle Video Director WIN Suite v2.5	£72.00
13110	GSP Geoff Hamilton Garden Designer CD	£15.00
15227	GuildSoft Family Lawyers CD	£22.00
13090	Guildsoft Family Origins	£18.00
11292	RMG Planix Home Architect 3D	£25.00
15958	RMG Planix Photo Landscape	£20.00
12622	SMC BodyWorks v5 CD	£10.00

INTEGRATED PACKAGES & BUNDLES

11365	Clarix Works v4 WIN 95	£86.00
13218	Corel Office Companion CD Win	£61.00
15407	Corel Office Professional v7 WIN 95 CD	£182.00
15406	Corel Office Professional v7 WIN 95 U/G CD	£118.00
15390	Corel Office Professional Win 3 U/G CD	£118.00
12896	Corel Office Professional Win 3 CD	£185.00
11884	Corel WordPerfect Suite v6 Win 3 3.5"	£189.00
13620	Corel WordPerfect Suite v6 Win 3 CD	£165.00
11888	Corel WordPerfect Suite v6 Win 3 Upg. 3.5"	£92.00
12912	Corel WordPerfect Suite v6 Win 3 Upg. CD	£63.00
18348	Corel WordPerfect Suite v7 Win 3.1x CD	£179.00
18349	Corel WordPerfect Suite v7 Upgrade Win 3.1x CD	£99.00
17764	Corel WordPerfect Suite v8 Win 95 CD	£189.00
17766	Corel WordPerfect Suite v8 Upgrade Win 95 CD	£99.00
17830	Corel WordPerfect Suite v8 Professional Win 95 CD	£249.00
17831	Corel WordPerfect Suite v8 Professional Comp Upg Win 95 CD	£149.00
16696	Lotus Smartsuite 97 Win 95/NT CD	£290.00
16697	Lotus Smartsuite 97 Win 95/NT Upgrade CD	£110.00
16698	Lotus Smartsuite 97 Win 95/NT 1LLP	£260.00
16699	Lotus Smartsuite 97 Win 95/NT 1LLP Upgrade	£117.00
16701	Lotus Smartsuite 97 Win 95/NT CD Media Pack	£16.00
16177	Lotus SmartSuite v4 (inc WordPro 96) 1-LLP	£284.00
11367	Lotus SmartSuite v4 (inc WordPro 96) DK	£290.00
12630	Lotus SmartSuite v4 (inc WordPro 96) CD	£290.00
11368	Lotus SmartSuite v4 competitive Upg. DK	£112.00
12629	Lotus SmartSuite v4 competitive Upg. CD	£112.00
16435	MS Office Developer Edition 1997 CV Upg	£330.00
16436	MS Office Developer Edition 1997 Disk Set	£48.00
16438	MS Office Developer Edition 1997 Doc. Set	£80.00
16439	MS Office Developer Edition 1997 Product Upg CD	£195.00
16440	MS Office Developer Edition 1997 1MLP	£490.00
16441	MS Office Developer Edition 1997 Version Upg 1MLP	£300.00
16442	MS Office Developer Edition 1997 Product Upg 1MLP	£178.00
16443	MS Office Developer Edition 1997 CD	£530.00
16749	MS Office 97 Small Business Edition CD	£325.00
16750	MS Office 97 Small Business Edition Upgrade CD	£149.00
16289	MS Office 97 for Windows 95 CD	£325.00
16396	MS Office 97 for Windows 95 1MLP	£310.00
16400	MS Office 97 CCP Upg. for Win 95 1-MLP	£145.00
16290	MS Office 97 CCP Upg. for Win 95 CD	£149.00
16287	MS Office Pro 97 + Bookshelf Win 95 CD	£419.00
16288	MS Office Pro 97 + Bookshelf CCP Upg. Win 95 CD	£205.00
16286	MS Office Pro 97 + Bookshelf CCP Upg. Win 95 CD + Mouse	£224.00

16398	MS Office Pro 97 Win 95 1 MLP	£399.00
16399	MS Office Pro 97 Win 95 CCP 1 MLP	£198.00
11254	MS Office v4.2 for Windows DK	£325.00
16401	MS Office v4.2 for Windows CD	£325.00
10544	MS Office v4.2 for Windows 1 MLP	£285.00
11255	MS Office v4.2 CCP Upg for Windows	£161.00
11255	MS Office v4.2 Comp. Upg for windows	£212.00
11169	MS Office Pro v4.3 for windows DK	£427.00
15228	MS Office Pro v4.3 for windows CD	£422.00
11781	MS Office Pro v4.3 1-MLP for windows	£355.00
15876	MS Office Pro CCP Upg for windows DK	£242.00
12906	MS Office Pro CCP Upg for windows CD	£242.00
11171	MS Office Pro v4.3 Comp.Upg for windows DK	£289.00
14054	MS Works for WIN 95 DK	£73.00

LANGUAGES & DEVELOPMENT TOOLS

16797	Borland C++ + Builder Client/Server V1.0 CD	£1,160.00
16798	Borland C++ + Builder Client/Server Upgrade CD	£1,005.00
16799	Borland C++ + Builder Professional V1.0 CD	£360.00
16800	Borland C++ + Builder Professional Upgrade V1.0 CD	£225.00
16802	Borland C++ + Builder V1.0 CD	£61.00
16803	Borland Learn to Program With C++ + Builder V1.0 CD	£35.00
12763	Borland C++ v5 CD	£199.00
12762	Borland C++ v5 Upg CD	£106.00
12759	Borland C++ v5 Development Suite CD	£285.00
12761	Borland C++ v5 Development Suite U/G CD	£166.00
17596	Borland Delphi V3 Standard NT/Win 95 CD	£75.00
17597	Borland Delphi V3 Professional NT/Win 95 CD	£371.00
17598	Borland Delphi V3 Professional Upgrade NT/Win 95 CD	£230.00
17600	Borland Delphi V3 Client/Server NT/Win 95 CD	£1,299.00
17601	Borland Delphi V3 Client/Server Upgrade NT/Win 95 CD	£999.00
15376	Borland IntraBuilder NT/WIN95CD	£59.00
16179	Borland IntraBuilder Professional NT/WIN95 CD	£289.00
16180	Borland IntraBuilder Professional Upg NT/WIN95 CD	£239.00
16181	Borland IntraBuilder Client Server NT/WIN95 CD	£1,159.00
18181	Borland JBuilder Standard WIN95 WIN NT CD	£84.00
18182	Borland JBuilder Professional WIN95 WIN NT CD	£399.00
18183	Borland JBuilder Professional Upg WIN95 WIN NT CD	£249.00
11271	Borland RAD Pack for Delphi DK	£123.00
11965	Borland Turbo Assembler DOS/WIN DK	£56.00
11090	Borland Turbo C++ + DOS v3	£53.00
15160	Borland Turbo C++ + WIN v4.5 CD	£52.00
11006	Borland Turbo Pascal DOS v7 DK	£73.00
11154	Borland Turbo Pascal WIN v1.5 DK	£77.00
10291	Borland Pascal & Objects v7.0	£215.00
11825	Borland Visual Solutions	£59.00
11152	MS Macro Assembler DOS v6.11	£95.00
17469	MS Visual Basic Enterprise 5.0 Win95 CD	£779.00
17471	MS Visual Basic Enterprise 5.0 Win95 V/UPG CD	£470.50
17473	MS Visual Basic Enterprise 5.0 Win95 MLP	£736.60
17474	MS Visual Basic Enterprise 5.0 Win95 V/UPG MLP	£423.50
17459	MS Visual Basic STD Edition 5.0 Win95 CD	£64.00
17460	MS Visual Basic STD 5.0 Win95 V/UPG CD	£36.00
17462	MS Visual Basic Pro 5.0 Win95 CD	£321.00
17463	MS Visual Basic Pro 5.0 Win95 C/UPG CD	£189.00
17464	MS Visual Basic Pro 5.0 Win95 V/UPG CD	£167.00
17465	MS Visual Basic Pro 5.0 Win95 V/UPG MLP	£151.50
17455	MS Visual C++ + Enterprise 5.0 Win95 CD	£819.00
17456	MS Visual C++ + Enterprise 5.0 Win95 V/UPG CD	£469.00
17458	MS Visual C++ + Enterprise 5.0 Win95 V/UPG MLP	£423.50
17446	MS Visual C++ + Learning Ed. 5.0 Win95 CD	£62.85
17448	MS Visual C++ + Pro 5.0 Win95 CD	£314.00
17450	MS Visual C++ + Pro 5.0 Win95 V/UPG CD	£213.00
17453	MS Visual C++ + Pro 5.0 Win95 V/UPG MLP	£191.75
17477	MS Visual Studio 97 Pro Win95 CD	£682.00
17874	MS Visual Studio 97 Pro Upgrade Win95 CD	£340.00
17478	MS Visual Studio 97 Enterprise Win95 CD	£987.00

17875	MS Visual Studio 97 Enterprise Upgrade Win95 CD	£682.00
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LEISURE & ENTERTAINMENT

18537	BBC Results - The BBC Sports Quiz Win95 CD	£24.00
18546	BBC Wallace & Gromit Cracking Animator	£15.00
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QUARTERDECK

Cleansweep 3.0

NEW

Whisk away unwanted files and get better performance!

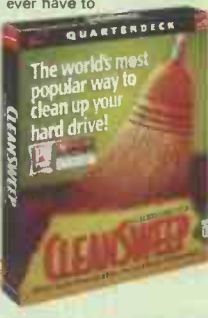
How often do you run out of disk space on your hard disk? Do you ever have to remove unwanted files or programs and find it time consuming? Are you ever unsure about which files are safe to delete - and which are not? CleanSweep's award winning cleaning power removes junk of every type - duplicate files, redundant DLLs, orphan files and even infrequently used files.

- ▲ The only file removal software that supports Windows95, NT and 3.1
- ▲ Exclusive SafetySweep protects against accidental deletion of important files
- ▲ CleanSweep automatically backs up every operation ensuring you never delete files you may need later

Cleansweep
11355
£25
£29.37 inc. VAT

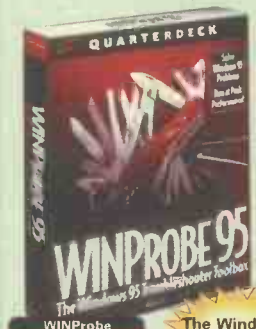


The worlds most popular way to clean up your hard drive.



WINProbe™ 95

Solve Windows95 problems - run at peak performance



WINProbe
13304
£32
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The Windows95 Troubleshooter Toolbox

The tool for the Power User! This advanced most powerful Windows95 Troubleshooter Toolbox enables you to solve Windows95 problems NOW and get your system running at peak performance.

- ▲ Non-destructive tests - really puts your hardware to the test
- ▲ Reduces tech support costs by offering solutions to problems automatically
- ▲ Shield your system from devastating crashes. CrashShield protects your valuable work automatically, and monitors your programs invisibly to prevent fatal errors
- ▲ Advanced recovery system lets you save all of the files necessary to quickly recover and restart Windows95

"Able to tidy and fine-tune even the messiest system.....There are loads of system maintenance utilities, but few work as well as claimed. WINProbe appears to be the exception." PC FORMAT November 1996

Partition-It

Optimise your drive and stop wasting space

NEW

Partition-It for both Windows95 and Windows 3.1 is a revolutionary new utility specifically designed for today's large hard drives. It optimises your computers storage capacity by dividing it into slimmer, more manageable sections; without backing up and, more importantly, without putting your data at risk.

- ▲ Includes the Move-It wizard which lets you move your data and applications between partitions with just a click of the mouse
- ▲ Scan your drive to calculate the optimal cluster size for maximum storage
- ▲ Easy to use and intuitive interface, to assist you with creating, deleting, re-sizing and moving partitions

Partition-It
13765
£29
£34.08 inc. VAT



Get more space from your hard drive - partition it



MAGNARAM 97



MAGNARAM
15489
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The 32 Bit Memory Optimiser

MagnaRAM dramatically improves Windows95 performance with its state of the art memory optimisation technology. MagnaRAM works behind the scenes to boost your memory and automatically recovers underused memory from the hard disk cache under Windows95 and Windows for Workgroups.

- ▲ MagnaRAM97 allows you to run more programs and larger programs
- ▲ Redesigned user interface sports a new look that gives you quick statistics on benefits at a glance
- ▲ MagnaRAM97 automatically save you time and helps you to be more productive

"If it weren't for the magic of Quarterdeck's new MagnaRAM97, I'd have uninstalled Word by now." ComputerScope December 1996

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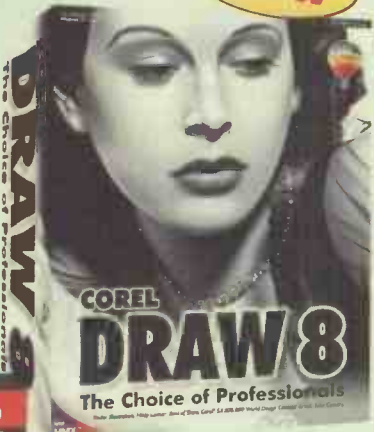
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CorelDRAW 8 is a comprehensive 32-bit graphics suite designed for Windows 95 and Windows NT 4.0. Building on the strength of its award-winning predecessors, CorelDRAW 8 is feature rich and streamlined for optimum performance. This suite includes tools for illustration, page layout, painting, photo editing, and 3D modelling and rendering. Several utilities are included to provide support for scanning, tracing, OCR, font management, screen capture, OLE scripting and more. Completing the suite are over 40,000 clipart images, over 1,000 TrueType and Type 1 fonts, plus hundreds of photos, Web backgrounds, animated GIFs, templates and more.

- Applications and features included:
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- Utilities**
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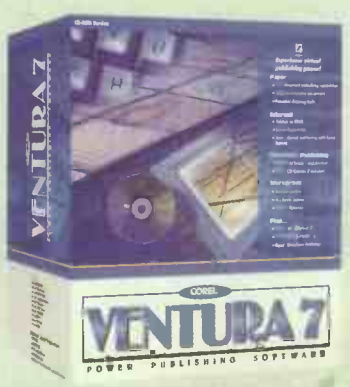
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Multi-User Licences Available

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CorelDRAW 6 for Windows 95	15049	£89.00	£104.57
CorelDRAW 5 for Windows 3.1x	15052	£89.00	£104.57
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Corel WordPerfect Suite 7 for WIN 95	14025	£39.00	£45.83
Corel WordPerfect Suite 6.1 for WIN 3.1x	15070	£29.00	£34.08
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Corel Ventura 7 for WIN 95	15158	£89.00	£104.57
Corel Web. Graphics Suite	16423	£53.00	£62.28



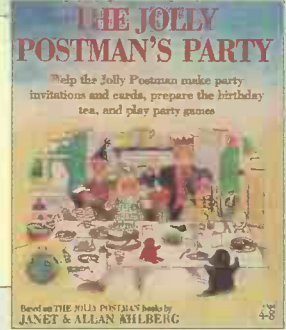
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Multimedia

Jolly Postman's Party

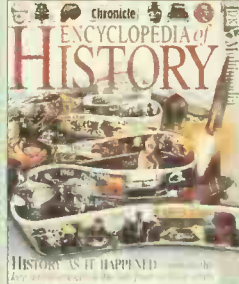
- ▲ This delightful CD ROM has all the excitement of a traditional birthday party, with The Jolly Postman and his friends as guests!
- ▲ Create your own party invitations and birthday cards from the selection of templates included, and send them to other users over the internet
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- ▲ Supports National Curriculum Art, Maths, English KS1



Jolly Postman's Party
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NEW

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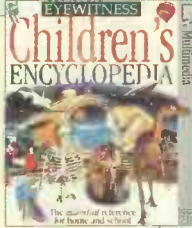


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- ▲ Look for specific articles or let the 3D Voyages in Time interface take you to a random place in history
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- ▲ Over 650,000 words, 6,500 images, 40 videos and much, much more
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Jolly Post Office

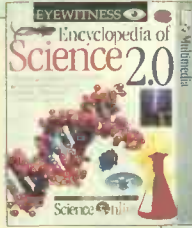
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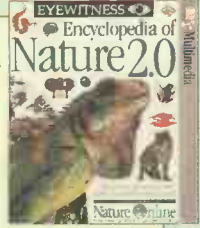


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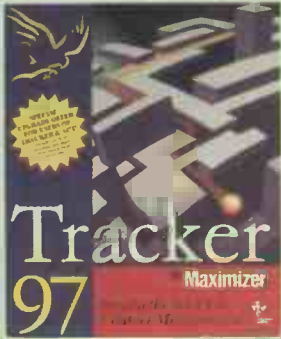




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Tracker 97 enables you to keep important information at your fingertips with databases, full contact histories and time management. This latest version of the award winning, Windows contact management program provides you with more than 200 new features, and has been designed specifically to help you to be more successful in business.

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Tracker 2 Upgrade and Act 3 Comp. Upgrade

Tracker '97

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- ▲ Blocks hostile Java applets and ActiveX controls



Guard Dog Deluxe

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Free On-Line Updates

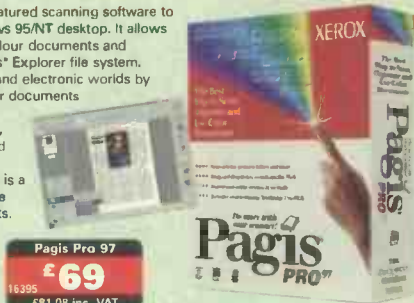
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The Best Way to Scan, Organise and Use Your Colour Documents

Pagis Pro 97 from Xerox is the first full-featured scanning software to be completely integrated into the Windows 95/NT desktop. It allows you to capture, organise and use your colour documents and incorporate them easily into the Windows Explorer file system. Pagis Pro 97 brings together your paper and electronic worlds by allowing you to store, locate and use your documents with existing desktop applications. With Pagis Pro, you can easily scan, copy, fax, find, print and drag-and-drop scanned documents to your preferred desktop applications. Scanning colour documents is a simple, one-touch operation that takes the guess work out of achieving quality results.

System Requirements
Windows 95 or Windows NT 4.0
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VGA, SVGA or Multisync colour monitor
16MB of RAM



Pagis Pro 97

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First Aid 98

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Amazingly Simple To Use

First Aid alerts you when it senses trouble, explaining problems in plain language. Just click "Autofix" and First Aid does the rest.

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First Aid automatically fixes tens of thousands of common problems PC users experience ever day.

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First Aid continuously protects against hard disk failure, crashes, software lock-ups and more! It can even reactivate your PC when your software stops responding.

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First Aid will examine your entire PC Internet set up (modem, browser, ISP) and reassemble portions that are broken.

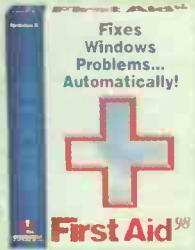
Its great value! the package is easily worth the modest price tag. Computer Shopper

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If your PC won't start up correctly, First Aid can fix the problem by either readjusting your system or reinstalling missing or damaged files.

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First Aid 98

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InfoMap 4.0



InfoMap 4.0

InfoMap 4.0 is a fully vectorised Geographical Information System for Windows 95/NT. Due to its superior design and technology you can freely manipulate map objects and associated databases. External modules such as British Rail Timetable and Journey Planner, Route Planner, London Underground Journey Planner, GPS, Distribution and Statistics makes InfoMap 4.0 a powerful tool suitable for both business and home use. Includes LONDON 1:5000 and GREAT BRITAIN 1:60,000

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- ▲ Move around - scroll the screen, centralise a point on the screen, go to co-ordinates
- ▲ Legend
- ▲ Floating menu for ease of operation
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- ▲ Macro Viruses
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Callisto 2.0

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Applications and features included:

Applications

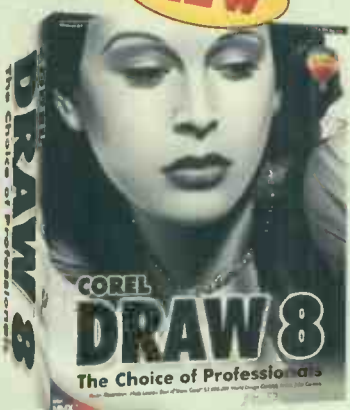
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Full Version
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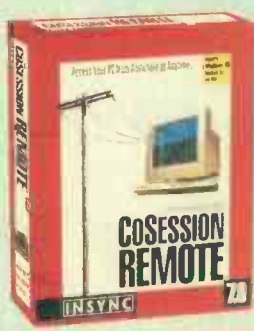
Product	Price	Inc. VAT
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i.share 3.0 32 Concurrent Users	£119.00	£139.83
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MasterClips
202,000
Premium Images With Exclusive Art From Around The World
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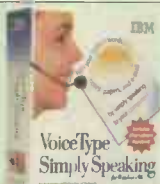
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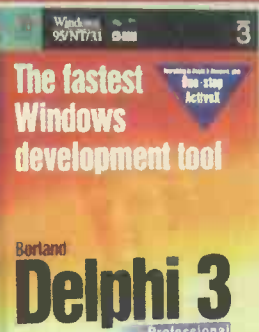
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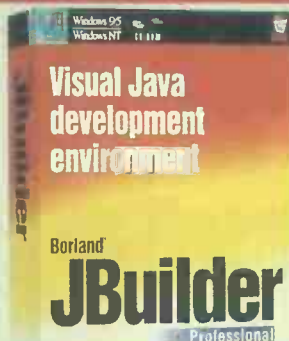


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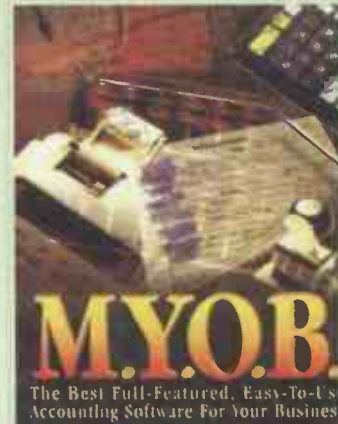
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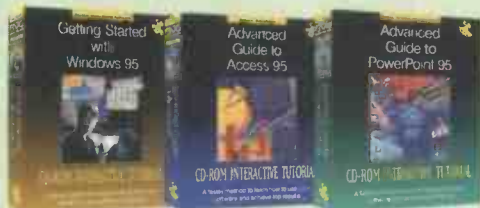
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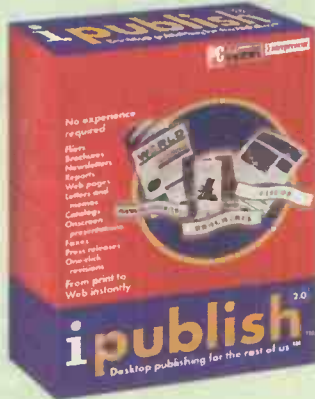
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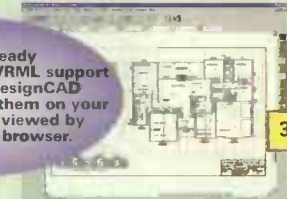
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"DesignCAD features fast performance, dependable tools and a customisable user interface."

-PC Magazine

DesignCAD 97
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System Requirements: Windows 95 or Windows NT



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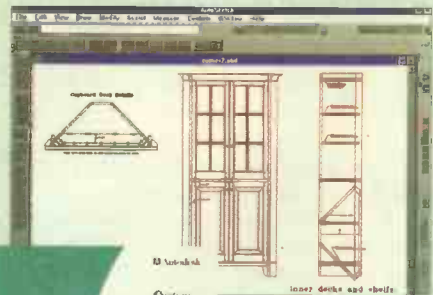
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- 2 Easy to use
- 3 DWG file compatibility and design sharing
- 4 Easy to learn

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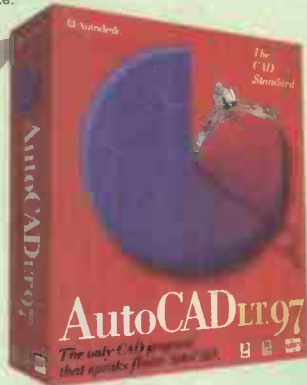
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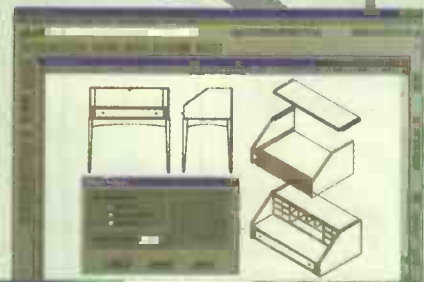
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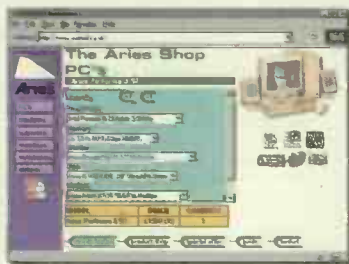
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The Home Page

2 Our site uses the latest security and animation features, your browser may not have the necessary plug-in installed. Our site will download and install these automatically. If this is the case your browser will display an initial 'splash screen' containing instructions and a 'continue' hot link. Once you have read the text click 'continue'!



Personal Computer Configuration

3 You may need to update your browsers Authenticode security certificates, you will be taken to Microsoft's Authenticode download area. Download the file 'auth2all.exe' and run it. Once installed quit your browser and the repeat step 1. Your browser will now launch our Home Page or ask you to install Macromedia Flash. If your browser supports ActiveX (Internet Explorer 3.0) the download will happen automatically, click 'Yes' on the authorisation certificate once it appears.

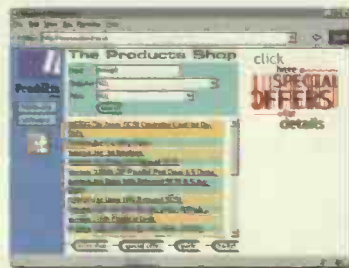
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5 Once you find the product you want, click the green button 'Add to Basket' to put that product in your personal shopping trolley. Continue to shop and add as many items as you like. Once you are ready to purchase click the 'Purchase' button and then follow the simple purchase procedure by entering your delivery and credit card details. If you need a further description of the shopping procedure or any aspect of the site it can be found in the sites interactive guide.



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PowerQuest - the hard drive utility experts

PartitionMagic 3.0

PartitionMagic is the revolutionary utility that lets you create, resize and move hard-disk partitions on the fly. Now, all the benefits of hard-disk partitioning can be yours without the hassles and risk of data loss.

Reclaim Wasted Disk Space

Partitions of over 1 GB you can have up to 40% of your hard drive completely wasted. PartitionMagic 3.0 allows you to reclaim a wasted space that comes from inefficient storage methods by shrinking large FAT partitions and restructuring cluster sizes.

Safely Run Multiple Operating Systems

PartitionMagic 3.0 makes it easy to run DOS, Windows 3.1, Windows 95 and NT on the same machine without compatibility problems. And switching between operating systems is easy using Boot Manager, from IBM, included with PartitionMagic 3.0.

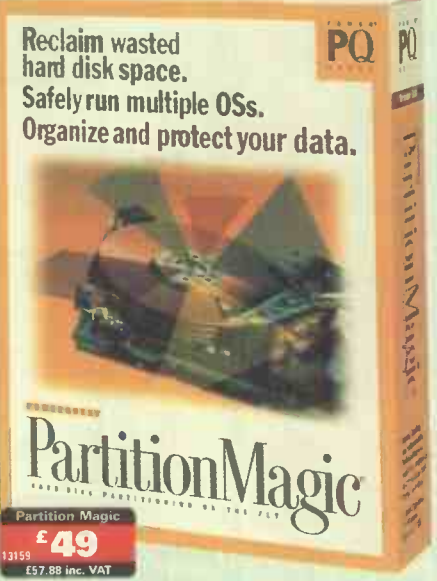
Organise and protect your data

Physically separate data, applications and operating systems into their own dedicated partition. This simplifies backups, especially devices like ZIP drives and the Uninstaller applications mover lets you move entire applications from one partition to another without losing a single setting or file.

PartitionMagic Tip to Speed Up Windows

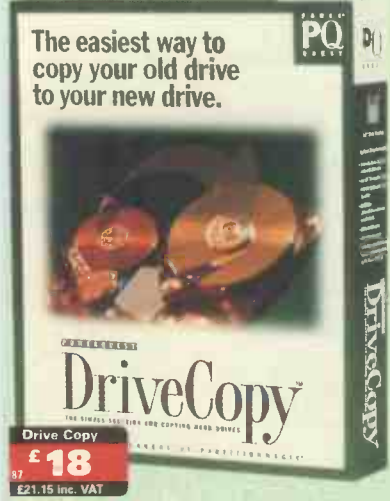
Improve Windows performance by creating a partition just for your swap file. Because you do not save anything into the partition it never becomes fragmented and your system never slows down.

Notes: "An invaluable product for the power user" Direct April '97 "A disk utility no office should be without" PC Advisor March '97 "It's Indispensable" PC Pro March '97
Unique dazzling and indispensable, PartitionMagic is a must have product in an era of larger and larger hard disks" Magazine US



DriveCopy

The safest, easiest, and most affordable way to copy everything from your old hard drive to your new hard drive.



- Star Features**
- ▲ Features a simple user interface
 - ▲ Easily and safely copies original drive to new drive
 - ▲ Supports every major operating system
 - ▲ Includes easy-to-follow user manual
 - ▲ Reduces a time-consuming process to a few simple steps

No re-installing, no data loss, no headaches

Safe and Easy data Migration

There was a time when upgrading to a new hard drive meant hours of downloading your data, applications, and operating systems to disk; then hours more of reinstalling everything to your new hard drive. If it all went well, you could be looking at a few days worth of work. Of course, there was always the risk of scrambling your data or losing it altogether in the process. Fortunately, now there's DriveCopy, from Powerquest®. With a few simple steps, everything from your old hard drive is automatically copied to your new one without losing a single preference, setting, or byte of data. No re-installing, no data loss, no headaches.

The price of a new hard drive is at an all time low. And now, with DriveCopy, so is the cost of actually upgrading your current drive. DriveCopy does away with all the hassles and prohibitive costs that were once associated with upgrading to a new hard drive. The process that used to take as much as several days to complete can now be done in a matter of minutes. And rather than paying a professional up to £150 to copy everything from your old drive to your new one, you can save yourself the trouble (and the cash) by using DriveCopy. So go ahead - update your dinosaur with a new high capacity hard drive. With DriveCopy, it's never been easier or more affordable.

Supports Every Major Operating System

With so many operating systems in use today, it doesn't make sense to limit the support of a data migration product to only one or two. Instead, DriveCopy supports all of the popular operating systems they use. Windows 95, Windows 95b, Windows 3.1, Windows NT, DOS, OS/2

Drive Image Everything you need to duplicate your hard drive.

Complete hard-drive imaging for fast backups, hard-drive upgrades, and system recovery.

- Star Features**
- ▲ Create a compressed 'Image File' of a partition - or an entire drive!
 - ▲ Store files on Jaz, Zip, CD-Rom, Hard Drives.
 - ▲ Download backed-up image files to new hard drive or for easy disaster recovery
 - ▲ Download to drives of different sizes or geometry.
 - ▲ Operating system independent.

Drive Image is a complete hard-drive imaging solution for fast backups, upgrades and system recovery. This is the easiest, fastest, and most comprehensive system for complete hard drive duplication we've seen, and a must for today's busy PC user. Drive Image lets you easily create a compressed image file of an individual partition or an entire hard drive. This file can be stored on a network, Jaz, Zip, CD-ROM, or other hard drive and then downloaded to make quick work of backups, disaster recovery, or upgrading to a new, larger capacity hard drive. With Drive Image, image files can be downloaded to drives of the same size or resized to fit drives of different size and geometry for maximum flexibility - a great feature. Drive Image uses innovative new "SmartSector™" technology (which copies only used sectors) rather than slower, file-based copying, so it is very fast and completely operating system independent, so it will work with any files you have. Just a couple of mouse clicks!

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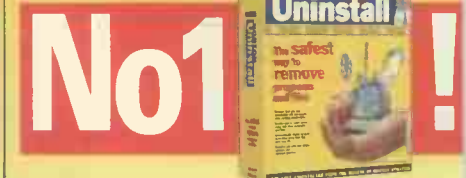
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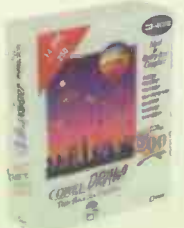
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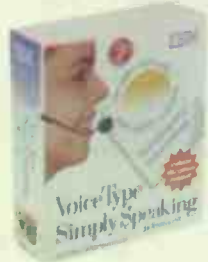
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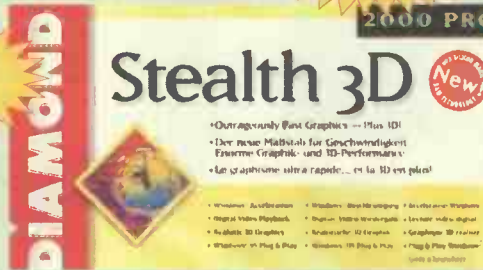
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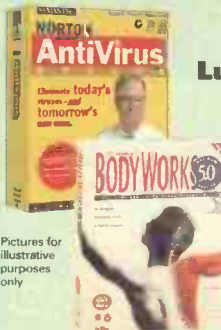
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Technomatic was established over 26 years ago and is a division of MicroWarehouse Inc, the world's largest mail order supplier of computer products, with operations in 13 countries world wide and a turnover in excess of £1bn. Everything we do stems from our commitment to total customer satisfaction, from our competitive pricing policy, easy ordering, and low delivery costs through to the breadth of products and quality of our sales people. Our business is built on relationships, both with our customers and our manufacturers. Our size means we have close relationships with every major manufacturer in the industry. We work together to bring you exclusive deals and to keep abreast of the latest products and technologies.



Configuration Service

Technomatic is now pleased to offer customers a configuration and installation service for any product you buy from us. We can provide a variety of services from installing extra memory in a notebook to the complete hardware and software configuration of a server. We have specialists for every major hardware and software product range, with accreditations recognising our commitment to providing the best support in the industry. Please speak to your sales contact for more details.



Welcome to our December offering of PC products. We have secured some exclusive and great value deals for you this Christmas, including the incredible Fujitsu multimedia PC, ideal for either home or office use, at an unbeatable price. We have only limited stocks of this unrepeatable offer so please hurry to place your order as we expect that these machines will be selling very quickly!



Once again this month we have reduced the prices on many of our top products, including many of the Toshiba notebook range, in order to offer you some of the best prices on the market today.

All of us at Technomatic would like to thank you, our valued customers, for your support during 1997 and the team and I wish you a very happy Christmas and we look forward to being of continued service to you throughout 1998.

Internet

The Internet provides Technomatic with the ideal tool to work closer with our customers, adding value in new and evolving ways. Our web site at www.technomatic.co.uk will give you quick access to a wealth of information with links to many manufacturer sites. You will be able to browse our product price list and interactively build your own product selections that you can send to us as orders via the Internet. You can also find details of our latest promotions, special offers, clearance bargains and hot new products. The site is constantly being developed and improved to meet your requirements and we welcome your input.



www.technomatic.co.uk



Quotes, Tenders & Special Projects

We pride ourselves on our low prices. For large orders or one-off projects, our Commercial Sales group can often apply further discounts, and put together a tailored quotation for you. We can also help complete projects within your budget by providing a number of options from various manufacturers. If the products you need are not in the catalogue, we can recommend alternatives, or order them specially for you. Our world-wide buying power and efficient operation allows us to be the most competitive quality supplier in the market.

ORDERING INFORMATION

Order by Phone:

Our highly trained sales staff are available to take your order from 8am to 7pm Monday to Friday or 9am to 5pm on Saturday.



Order by Fax:

Fax your order by 5pm during weekdays and in-stock items will be delivered next-day.



Official Orders:

Large organisations including, education establishments, government departments, PLC's and Multi-nationals can benefit from a credit account and a dedicated Corporate Account Manager. Our corporate sales team can advise on, and manage your day-to-day requirements including quotes, licensing, sourcing, product information, demonstrations and provide bulk discounts.



Next Day Delivery:

Place your order up to 5pm for next-day delivery for in-stock items by Parcelforce.

Carriage Charges

(These are for UK mainland only)

	Each 1st item	Each Additional
Single item up to 30kg	£8 (£9.40)	£6 (£7.05)
Large Laser Printers (4V/5Si)	£24 (£28.20)	£24 (£28.20)
Large Monitors (17"+ above) Servers	£24 (£28.20)	£24 (£28.20)
	Each 1st item	Each Additional
Plotters	£35 (£41.13)	£35 (£41.13)
Small accessory	£6.95 (£5.88)	£2 (£2.35)
Small Software package	£6.95 (£5.88)	£2 (£2.35)

CONTROLLABLE COSTS

All rental payments are fixed for the duration of the agreement, (3 years) allowing your organisation to budget accurately. There is no deposit required.

FUTURE PROOFING YOUR INVESTMENT

When the time comes, you have the flexibility to upgrade existing systems, or indeed change to new equipment for a simple adjustment to your rental payment

PEACE OF MIND

MicroWarehouse Business rental is arranged by Schroder Leasing Ltd, who are part of Schroders Plc, the international banking & investment group, and one of the longest established UK leasing companies.

MicroWarehouse Business Rental is available to businesses who have traded for 2 years or more, and in subject to acceptance by Schroder Leasing Limited. All rental figures are shown as a monthly value, and are given excluding VAT. Payments are collected quarterly by Direct Debit over a 3 year term. Full details of finance facilities are given when you call. Terms and conditions of the rental agreement will be sent to you before you sign

The carriage charges are based on the heaviest item being taken as the first item. Additional items will be charged at the rate shown for the category. Minimum charge of £5 will apply in all cases. For orders with a large number of items, or for overseas rates, please ask for a quotation.

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Incredible MX 200 Multimedia Bundle at an unbelievable £699!

FUJITSU

PCs • NOTEBOOKS • SERVERS

ONLY £699
 Including VAT (£821.33)



Just look at this exclusive deal ! We've used our worldwide buying power to put together an incredible multimedia bundle, in close partnership with leading brand Fujitsu. Compare this specification with any other PC at this price, and you'll wonder how we do it!

We have searched high and low to bring you the best possible deal this Christmas and we have done the impossible! We have combined outstanding power and performance coupled with an incredibly high multimedia specification at a price that we believe cannot be beaten. The Fujitsu Multimedia PC is the perfect machine for all the family and with its super fast 200Mhz processor both games and business applications will run at lightning speeds. You can also depend on the build quality and reliability that you'd expect from one of the world's largest PC manufacturers.

We have only limited stocks of this unrepeatabe offer so please hurry to place your order as we expect that these machines will be selling very quickly.

- ✓ Cyrix MX 200
- ✓ 16MB RAM
- ✓ 2.0GB Hard Drive
- ✓ 16X CD-ROM Drive
- ✓ 3.5" Floppy disk drive
- ✓ 2MB 3D VGA Graphics
- ✓ 16 BIT Aztec Sound Card
- ✓ Speakers
- ✓ Keyboard
- ✓ Mouse
- ✓ 14" Monitor
- ✓ Windows 95
- ✓ Microsoft Word
- ✓ /Works Bundle
- ✓ Formula One Grand Prix
- ✓ Fin Fin

CODE	MODEL	Price	Inc VAT
CP6268	Fujitsu Multimedia PC	£699	821.33

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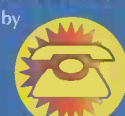


We will match prices on like for like products



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Plan for the future with the new range

In Touch with Tomorrow **TOSHIBA**

Satellite 220CS

Satellite notebook philosophy is simple: to combine outstanding value with top end performance. Now thanks to Toshiba's unique commitment to cascading technology, the Satellite 220CS notebook heralds a new generation of low cost mobile platforms that offer truly outstanding functionality and connectivity.

Lease for as Low as
£33.70
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Including VAT (£39.60)

NEW 230CX!

£999
Including VAT (£1173.83)

- ✓ Intel Pentium® 133MHz MMX on 230CX
- ✓ 16MB EDO RAM (expandable to 144MB)
- ✓ 1.44GB Hard Drive
- ✓ 12.1" DSTN or FastScan Colour Display
- ✓ One-Year International Warranty

CP4980	Satellite 220CS	£999	(£1173.83)
CP6317	Satellite 230CX	£1145	(£1345.38)

Satellite Pro 440CDX

Lease for as Low as
£42.81
 Per Month
Including VAT (£50.30)

ONLY £1269
Including VAT (£1491.08)

- ✓ Intel Pentium 133MHz with MMX
- ✓ 16MB EDO RAM (expandable to 144MB)
- ✓ 1.44GB Hard Drive
- ✓ 10-Speed CD-ROM Drive
- ✓ 12.1" HCAD (High Contrast Addressing Display)
- ✓ Three-Year International Warranty

CP4994 Satellite Pro 440CDX £1269 (£1491.08)

Satellite Pro 440CDT

Lease for as Low as
£53.94
 Per Month
Including VAT (£63.38)

ONLY £1599
Including VAT (£1878.83)

- ✓ Intel Pentium 133MHz with MMX
- ✓ 16MB EDO RAM (expandable to 144MB)
- ✓ 1.44GB Hard Drive
- ✓ 10-Speed CD-ROM Drive
- ✓ 12.1" TFT Colour Display
- ✓ Three-Year International Warranty

CP4995 Satellite Pro 440CDT £1599 (£1878.83)

Satellite Pro 460CDT

Lease for as Low as
£65.76
 Per Month
Including VAT (£77.26)

NEW 460CDX!

ONLY £1949
Including VAT (£2290.08)

- ✓ Intel Pentium 166MHz with MMX
- ✓ 32MB EDO RAM (expandable to 160MB)
- ✓ 2.1GB Hard Drive
- ✓ 10-Speed CD-ROM Drive
- ✓ 12.1" TFT Colour Display
- ✓ Three-Year International Warranty

CP4996 Satellite Pro 460CDT £1949 (£2290.08)
 CP6316 Satellite Pro 460CDX £1599 (£1878.83)

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of Toshiba Notebooks and Desktops



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NEW!

EQUIUM 5160D

The new Equium desktop range is a masterstroke of design and functionality. Toshiba have taken their expertise as the world leader in portable computing and applied it to the creation of a range of desktops that combines outstanding performance with an inherent reliability guaranteed to stand the test of time.

£799
Including VAT (£938.83)

- ✓ Intel Pentium® 166MHz with MMX
- ✓ 32MB EDO RAM (expandable to 192MB)
- ✓ 2.07GB Hard Drive
- ✓ 3D Graphics
- ✓ Integrated Intel EtherExpress Pro/100B LAN adapter
- ✓ Three-Year Limited Warranty - 1st Year On Site

Code	Model	CPU	RAM/Max	HDD/CD	Price	Inc VAT
CP5021	Equium 5160D	Pentium 166MHz MMX	32MB/192MB	2.07GB	£799	(£938.83)
CP5032	Equium 5200D	Pentium 200MHz MMX	32MB/192MB	2.38GB/12XCD	£935	(£1098.63)
CP5722	Equium 5230D	Pentium 233MHz MMX	32MB/192MB	3.0GB/24XCD	£1059	(£1244.33)
CP5020	Equium 6200D	Pentium Pro 200MHz	32MB/128MB	2.95GB/12XCD	£1189	(£1397.08)
CP5722	Equium 6230D	Pentium II 233MHz	32MB/384MB	3.0GB/24XCD	£1315	(£1545.18)
CP5019	Equium 6260M	Pentium II 266MHz	32MB/256MB	4.0GB/16XCD	£1445	(£1697.88)
MT1394	DP566M 15" Monitor				£259	(£304.33)
MT1395	DP782M 17" Monitor				£339	(£398.33)
MT1508	17" Multimedia Microfilter Monitor				£379	(£445.33)

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We now offer clients a service, installation and configuration service



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Lease for as Low as
£37.08
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- ✓ Intel Pentium 75MHz
- ✓ 16MB EDO RAM (expandable to 32MB)
- ✓ 810MB Hard Drive
- ✓ 6.1" TFT Colour Display
- ✓ Full Windows 95
- ✓ One-Year International Warranty

£1099
Including VAT (£1291.33)

CP4966 Libretto 50CT £1099 (£1291.33)

PORTÉGÉ 300CT



ONLY £1865
Including VAT (£2191.38)

Lease for as Low as
£62.92
Per Month
Including VAT (£73.94)

- ✓ Intel Pentium 133MHz with MMX
- ✓ 32MB EDO RAM (expandable to 64MB)
- ✓ 1.44GB Hard Drive
- ✓ 10.4" Panoramic TFT Colour Display
- ✓ Three-Year International Warranty

CP4999 Portégé 300CT £1865 (£2649.63)

TECRA 520CDT/530CDT



520CDT ONLY £2289
Including VAT (£2689.58)

Lease for as Low as
£77.22
Per Month
Including VAT (£110.96)

- ✓ Intel Pentium 166MHz with MMX
- ✓ 32MB EDO RAM (expandable to 160MB)
- ✓ 2.1GB Hard Drive & 10-Speed CD
- ✓ 12.1" 800x600 Colour Display (1024x768 on 530CDT)
- ✓ Three-Year International Warranty

CP4997 Tecra 520CDT £2289 (£2689.58)
CP4998 Tecra 530CDT £2459 (£2889.33)

TECRA 740CDT



Lease for as Low as
£94.43
Per Month
Including VAT (£110.96)

- ✓ Intel Pentium 166MHz with MMX
- ✓ 16MB EDO RAM (expandable to 144MB)
- ✓ 3.0GB Hard Drive
- ✓ 10-Speed CD-ROM Drive
- ✓ 13.3" TFT Colour Display
- ✓ Three-Year International Warranty

£2799
Including VAT (£3288.83)

CP4790 Tecra 740CDT £2799 (£3288.83)

TECRA 750CDT



Lease for as Low as
£114.54
Per Month
Including VAT (£136.84)

- ✓ Intel Pentium 233MHz with MMX
- ✓ 32MB EDO RAM (expandable to 144MB)
- ✓ 5.0GB Hard Drive
- ✓ 14-20 Speed CD-ROM Drive
- ✓ 13.3" TFT Colour Display
- ✓ Three-Year International Warranty

£3395
Including VAT (£3989.13)

CP4790 Tecra 740CDT £3395 (£3989.13)



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ThinkPad 310... The least expensive way to think



The affordable solution for mobile life-style. Designed to appeal to those who purchase the most processor power they can afford and want an upgrade path that will protect their investment. The ThinkPad combines portability performance and exciting multimedia features with the ability to upgrade as you require.

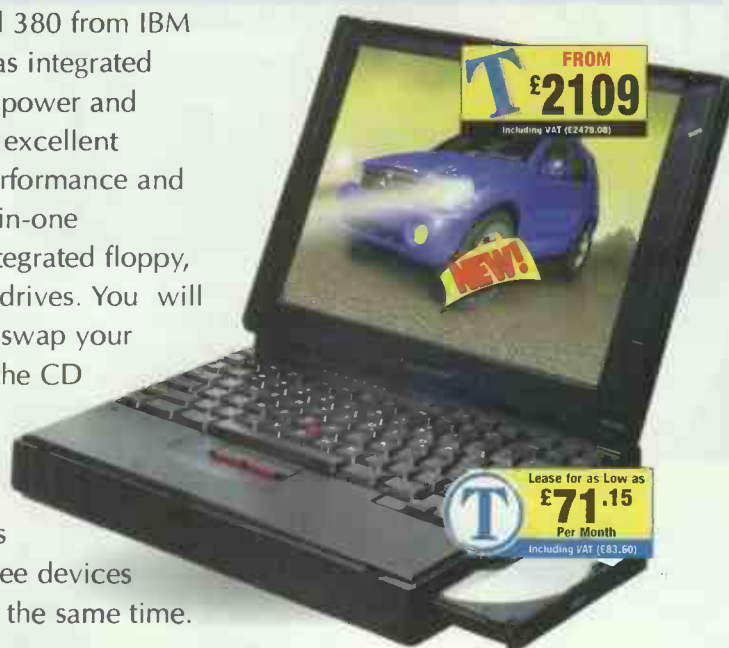
- ✓ Intel Pentium 133MHz MMX (Except model 100)
- ✓ 16MB RAM (Expandable to 64MB)
- ✓ 1.08GB or 1.6GB Hard Drive
- ✓ 11.3" to 12.1" DSTN or TFT Screens

CODE	MODEL	CPU	RAM/MAX	HDD/CD	SCREEN	PRICE	Incl. VAT
CP5347	ThinkPad 310 Model 100	Pentium 133MHz	16MB/64MB	1.08GB	11.3" DSTN	£1085	(£1274.88)
CP6345	ThinkPad 310E Model 400	Pentium 133MHz MMX	16MB/64MB	1.6GB	12.1" DSTN	£1039	(£1220.83)
CP6346	ThinkPad 310ED Model 500	Pentium 133MHz MMX	16MB/64MB	1.6GB/10X	12.1" DSTN	£1215	(£1422.27)
CP6347	ThinkPad 310E Model 600	Pentium 150MHz MMX	16MB/64MB	1.6GB	11.3" TFT	£1575	(£1850.63)

The All-in-One ThinkPad 380 Series from IBM®

- ✓ Intel Pentium 150MHz and 166MHz with MMX Technology
- ✓ 12.1" FRSTN or TFT Colour display
- ✓ 2.1GB, 3.3GB or 5.0GB Hard Drives
- ✓ 16MB Ram (expandable to 80MB)
- ✓ 8X to 20X CD-ROM (optional on Model 400)
- ✓ Lotus SmartSuite License
- ✓ Three Spindle Design

The new ThinkPad 380 from IBM can be described as integrated convenience with power and usability. It has an excellent combination of performance and price, plus the all-in-one convenience of integrated floppy, CD and hard disk drives. You will no longer need to swap your floppy drive with the CD drive because IBM's new "Three-Spindle" Integration enables you to have all three devices in the notebook at the same time.



SKU	Model	CPU	Ram/Max	HDD/CD	Screen	Price	Inc. VAT
CP4901	ThinkPad 380 Model 3A0	Pentium 150MHz MMX	16MB/80MB	2.1GB/8XCD	12.1" TFT	£2109	(£2478.08)
CP5739	ThinkPad 380 Model 400	Pentium 150MHz MMX	16MB/80MB	2.1GB	12.1" FRSTN	£1209	(£1420.58)
CP5740	ThinkPad 380 Model 5A0	Pentium 166MHz MMx	16MB/80MB	2.1GB/20XCD	12.1" FRSTN	£1519	(£1784.83)
CP5741	ThinkPad 380 Model 6A0	Pentium 166MHz MMX	16MB/80MB	3.3GB/20XCD	12.1" TFT	£2135	(£2508.63)
CP5742	ThinkPad 380 Model 7A0	Pentium 166MHz MMX	16MB/80MB	5.0GB/20XCD	12.1" TFT	£2605	(£3060.88)

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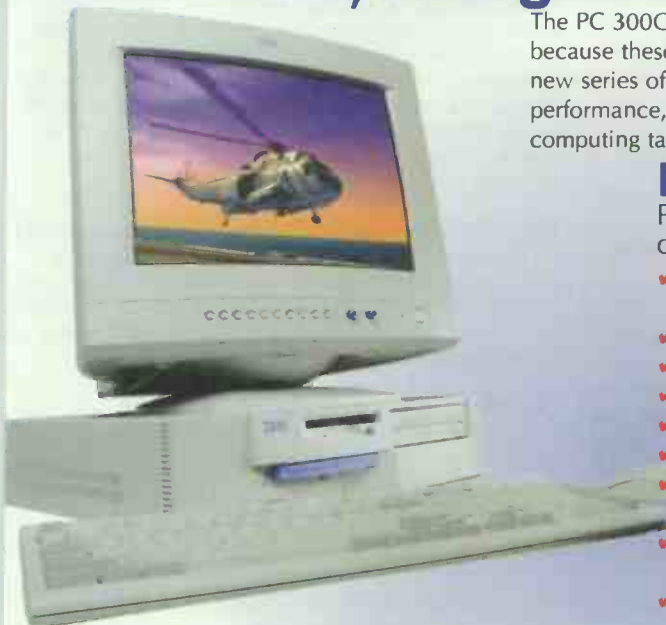
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The PC 300GL from IBM

Performance, Manageability and Asset Protection

The PC 300GL desktop computers from IBM are ideal for your business, because these PC's let you concentrate on doing business. The first in a new series of highly managed PC's, the IBM PC 300GL gives you all the performance, manageability, and asset protection you need for core computing tasks, while maintaining maximum affordability



Performance

Performance is something the PC 300GL has plenty of. Choose from a range of models offering:

- ✓ Intel Pentium® with MMX™ processors up to 233MHz
- ✓ 64-Bit PCI graphics with 50ns EDO video RAM
- ✓ 256KB synchronous pipeline burst L2 cache
- ✓ SDRAM memory
- ✓ Windows95 or NT pre-loaded
- ✓ SMART Hard Disks up to 4.2GB EIDE
- ✓ Integrated 10BaseT Ethernet (on selected models)
- ✓ Integrated audio and 16X CD-ROM (on selected models)
- ✓ Lotus SmartSuite 97 license included on all models

Manageability

When it comes to controlling and maintaining your networked PC's the PC 300GL comes with a dazzling array of manageability features that put you firmly in control, including:

- ✓ Wake on LAN (allows software upgrades without leaving PC on overnight)
- ✓ Setup over LAN
- ✓ Flash over LAN (Allows bios upgrade without inserting a disk in every machine)
- ✓ Advanced DMI (v2.0)

Asset Protection

To meet your asset management needs, the IBM PC 300GL comes with AssetCare, IBM's complete asset management system. AssetCare enables real-time tracking of IBM's new monitors and other system assets, through features such as:

- ✓ Serialisation/registration of high value components
- ✓ S.M.A.R.T. Drives (inform you of failures before they even happen)
- ✓ ConfigSafe
- ✓ IBM Vital Product Data

The best computer for business is the computer that lets you concentrate on doing business

CODE	MODEL	CPU	RAM/MAX	HDD/CD	Ethernet	OS	Price	Inc VAT
CP5920	IBM PC 300GL	Pentium 166MHz MMX	16MB/128MB	2.5GB	NO	W95	£559	(£656.82)
CP5921	IBM PC 300GL	Pentium 166MHz MMX	32MB/128MB	2.5GB	NO	W95	£655	(£769.62)
CP6135	IBM PC 300GL	Pentium 166MHz MMX	32MB/128MB	4.2GB	NO	W95	£669	(£786.07)
CP6145	IBM PC 300GL	Pentium 166MHz MMX	32MB/128MB	4.2GB	YES	W/NT	£575	(£675.62)
CP6137	IBM PC 300GL	Pentium 200MHz MMX	16MB/128MB	2.5GB	NO	W95	£725	(£851.87)
CP6146	IBM PC 300GL	Pentium 200MHz MMX	32MB/128MB	2.5GB	NO	W95	£789	(£927.07)
CP6148	IBM PC 300GL	Pentium 200MHz MMX	32MB/128MB	2.5GB/16X	YES	W/NT	£955	(£1122.12)
CP6142	IBM PC 300GL	Pentium 200MHz MMX	32MB/128MB	2.5GB/16X	NO	W95	£869	(£1021.07)
CP6139	IBM PC 300GL	Pentium 233MHz MMX	32MB/128MB	2.5GB	NO	W95	£899	(£1056.32)
CP6138	IBM PC 300GL	Pentium 233MHz MMX	32MB/128MB	4.2GB	NO	W/NT	£1015	(£1192.62)

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Compaq Armada 1500 Family

Affordable, All-In-One Notebook for the Business Professional



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- ✓ Practical business solution
- ✓ Compaq value & quality

Everything is integrated

As the inventor of the very first portable PC, Compaq has spent more than a decade studying mobile computing needs. We understand you want a simple life so, into this eye-catching new design, we build features such as the AC adapter, diskette drive and, if required, a CD-ROM drive. There's nothing to assemble and no extra parts to carry or lose - you're ready to go!

The choice of the business professional

We also have unrivaled business computing knowledge and expertise. The Armada 1500 Notebook is simple to use, is tested and proven with today's widest range of business PC cards, can link to your office network and can enable you to communicate on the move.

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Trust Compaq to get the important things right. We minimise the cost yet maximise performance with features such as an optional 10X CD-ROM drive. The result is a full-featured notebook that represents excellent value.

Lease for as Low as
£43.69
Per Month
Including VAT (£51.34)

£1295
Including VAT (£1521.63)

Code	Description	CPU	RAM/MAX	HDD/CD	Display	Price	Inc Vat
CP4833	Armada 1520D	Pentium 133MHz	16MB/80MB	1.0GB/10X	11.3" DSTN	£1295	(£1521.63)
CP5552	Armada 1530D	Pentium 133MHz MMX	16MB/80MB	1.4GB/10X	12.1" DSTN	£1519	(£1784.83)
CP5807	Armada 1540D	Pentium 150MHz MMX	16MB/80MB	2.1GB/20X	12.1" DSTN	£1695	(£1991.63)
CP4830	Armada 1550T	Pentium 133MHz	16MB/80MB	1.4GB	12.1" TFT	£1729	(£2031.58)
CP5282	Armada 1580DT	Pentium 150MHz MMX	16MB/80MB	2.1GB/10X	12.1" TFT	£1785	(£2097.38)
CP6006	Armada 1590DT	Pentium 166MHz MMX	16MB/80MB	2.1GB/20X	12.1" TFT	£1965	(£2308.88)

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CP1772	Omnibook 3000CTX	Pentium 200MHz MMX	16MB/144MB	2.1GB	13.3" XGA TFT	£2589	(£3042.08)
CP6330	Omnibook 3000CTX	Pentium 233MHz MMX	16MB/144MB	4.0GB	13.3" XGA TFT	£3219	(£3782.33)

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- ✓ Three-Year Worldwide Warranty
- ✓ Windows 95 or WfWG 3.11

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CP4505	Omnibook 5700CT	Pentium 150MHz MMX	16MB/128MB	1.86GB	12.1" SVGA TFT	£1875	(£2203.13)
CP5470	Omnibook 5700CT	Pentium 166MHz MMX	16MB/128MB	1.86GB	12.1" SVGA TFT	£2099	(£2466.33)
CP5002	Omnibook 5700CTX	Pentium 166MHz MMX	16MB/128MB	1.86GB	12.1" XGA TFT	£2099	(£2466.33)
CP4506	Omnibook 5700CTX	Pentium 166MHz MMX	32MB/128MB	2.79GB	12.1" XGA TFT	£2369	(£2783.58)

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Code	Description	CPU	RAM/MAX	HDD/CD	Display	Price	Inc Vat
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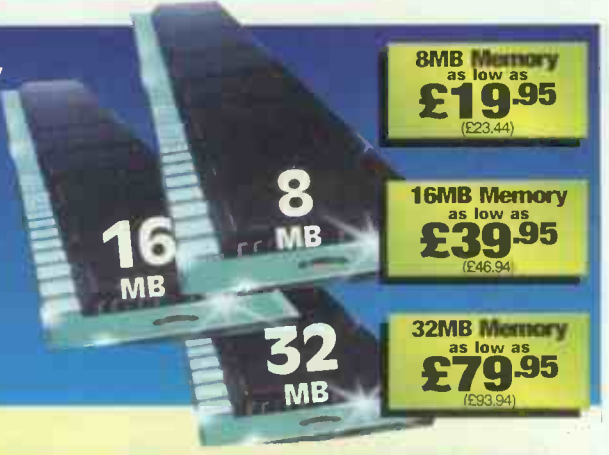
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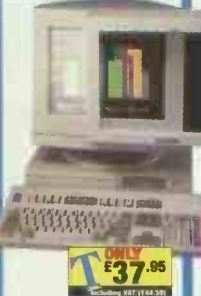
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MY8004	16MB X 64	128MB	£539.00	(£633.33)
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EURMY1332	2MB X 32-60NS EDO	8MB	£22.95	(£26.97)
EURMY1555	4MBx32-60NS EDO	16MB	£43.95	(£51.64)
EURMY1643	8MBx32-60NS EDO	32MB	£84.95	(£99.82)
MY6995	16MBx32-60NS EDO	64MB	£299.00	(£351.33)
72 PIN NON PARITY SIMMS				
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EURMY1245	1MB X 32-70NS	4MB	£12.95	(£15.22)
EURMY1250	2MB X 32-60NS	8MB	£22.95	(£26.97)
EURMY1249	2MB X 32-70NS	8MB	£22.95	(£26.97)
EURMY1253	4MB X 32-60NS	16MB	£43.95	(£51.64)
EURMY1252	4MB X 32-70NS	16MB	£43.95	(£51.64)
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EURMY1235	1MB X 36-70NS	4MB	£21.95	(£25.79)
EURMY1561	2MB X 36-60NS	8MB	£39.95	(£46.94)
EURMY1237	2MB X 36-70NS	8MB	£39.95	(£46.94)
EURMY1238	4MB X 36-60NS	16MB	£64.95	(£76.32)
EURMY1239	4MB X 36-70NS	16MB	£64.95	(£76.32)
EURMY1241	8MB X 36-70NS	32MB	£129.00	(£151.58)
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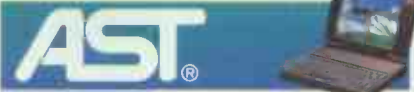
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7152 - 7110				

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"High Volume Office Printer"

- ✓ Superb print quality, 24ppm
- ✓ Very flexible- A3/A4 Capable
- ✓ Outstanding reliability
- ✓ Network, PostScript, Duplex options

PLUS 3 yr OSM £2159
 (£2536.83)

EURPR1490	HP LaserJet 5Si	£1649.00	(£1937.58)
EURPR1489	HP LaserJet 5SiMX (PC, NW, MAC)	£2249.00	(£2642.58)
PR12038	HP LaserJet 5SiMX Mopier	£4326.00	(£5083.05)
PR12116	HP LaserJet 5SiNX	£1799.00	(£2113.83)
EURPA1278	Toner HP LaserJet 5Si/5SiMX	£139.95	(£164.44)

HP Colour LaserJet 5

"Incredible Colour Laser Quality"

- ✓ 1200 dpi image quality through RET (300 dpi engine)
- ✓ 10ppm mono, 2-3ppm colour
- ✓ A3/A4 capable
- ✓ 20MB memory; Enhanced PCL5
- ✓ One year on-site warranty

PLUS 3 yr OSM £3805
 (£4470.88)

EURPR1643	HP Colour LaserJet 5	£2861.00	(£3361.68)
EURPR1642	HP Colour LaserJet 5M	£3600.00	(£4230.00)
PR12969	HP Colour LaserJet 5N	£3142.00	(£3691.85)
EURPR0660	Toner: Black	£9.95	(£11.69)
	Toner: Colour (specify C, M or Y)	£26.95	(£31.67)

HP LaserJet 4V

"Ultimate A3 Printer"

- ✓ Paper handling from A5 to A3
- ✓ Fast 8ppm A3, 16ppm A4
- ✓ 120 dpi with 106 grey shades
- ✓ PostScript and Network options

PLUS 3 yr OSM £1399
 (£1643.83)

EURPR0433	HP LaserJet 4V (PC)	£1185	(£1392.38)
EURPR0434	HP LaserJet 4MV (PC/Mac)	£1724	(£2025.70)
EURPR0607	Toner: HP LaserJet 4V/4MV	£109.95	(£129.19)
EURBN3613	HP 4MV & Support Pack	£1399	(£1643.83)

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Hewlett Packard Inkjet Printers

HP DeskJet 890C Printer

The premium colour inkjet with the performance that makes you look professional

- ✓ Up to 600 x 600 dpi black, 600 x 600 colour
- ✓ 9ppm black, 5ppm colour
- ✓ MMX Compatible
- ✓ Photo REt II, ColourSmart II, Kodak Image Enhancements



ONLY £255
Including VAT (£299.63)

PR12804	HP DeskJet 890C	£255.00	(£299.63)
WR1219	HP Support Pack	£66.00	(£77.55)
51645A	Black Ink Cartridge	£18.75	(£22.03)
C1823A	Colour Ink Cartridge	£19.95	(£23.44)

HP DeskJet 1100C Printer

HP's Versatile business printer with wide format capability

- ✓ A3 Capability, prints on media up to 0.3mm thick
- ✓ HP ZoomSmart scaling technology
- ✓ 6.5 ppm black, 4ppm colour (A4)
- ✓ Windows NT 4.0 Driver-in-box
- ✓ Up to 600 x 600 dpi black, 600 x 600 colour



A3 Capability

ONLY £285
Including VAT (£334.88)

PR12805	HP DeskJet 1100C	£285.00	(£334.88)
234318	HP Support Pack	£40.00	(£47.00)
51645A	Black Ink Cartridge	£18.75	(£22.03)
51641A	Colour Ink Cartridge	£19.45	(£22.85)

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HP DeskJet 870Cxi



ONLY £202
Including VAT (£237.35)

PLUS 3 yr OSM £354
(£415.95)

Premium Printing performance

- ✓ 600 dpi black, 300dpi colour
- ✓ Denser, Sharper inks
- ✓ Colour REt and ColourSmart Technology
- ✓ Laser quality black at 6ppm and high quality colour at 2ppm
- ✓ Up to 8ppm black, 4ppm colour

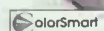
PR11738	HP DeskJet 870Cxi Printer	£202.00	(£237.35)
51645A	Black pen	£19.95	(£23.44)
51641A	Colour pen	£22.95	(£26.99)

HP DeskJet 690C+



ONLY £150
Including VAT (£176.25)

PLUS 3 yr OSM £185
(£17.38)



- ✓ 600 x 600 dpi black, up to 600 x 300 dpi colour
- ✓ HP RealLife Imaging System
- ✓ Sharpest Black Printing with HP pigmented inks
- ✓ 30 TrueType Fonts
- ✓ Up to 5ppm black, 1.7ppm colour
- ✓ Optional Photo REt for better colours
- ✓ Includes Photo Colour cartridge

PR12348	HP Deskjet 690C+	£150	(£176.25)
EURPR1138	HP Colour Ink Cart	£22.95	(£26.97)
EURPR1139	HP Black Ink Cart	£19.95	(£23.44)
AC20411	HP Photo Colour Kit	£42.00	(£49.35)
AC20412	HP Photo Paper	£11.85	(£13.93)

HP DeskJet 670C



ONLY £121
Including VAT (£142.18)

PLUS 3 yr OSM £155
(£182.13)

- ✓ 4ppm black and 1 1/2 ppm colour
- ✓ 600 x 600 dpi black, 600 x 300 dpi colour
- ✓ Automatic colour adjustment: HP ColorSmart technology
- ✓ HP RealLife Imaging System

PR12315	HP DeskJet 670C Printer	£121	(£142.18)
BN4288	HP 670C & 3 Year Dn-Site Warranty	£155	(£182.13)
EURPR1139	HP Tri-Colour Inkjet Cart	£19.25	(£22.62)
EURPR1138	HP Tri-Colour Inkjet cart	£18.95	(£22.27)
EURPA1652	HP Premium Glossy Paper A4 (10 Sheets)	£8.70	(£10.22)

HP DeskJet 1600c

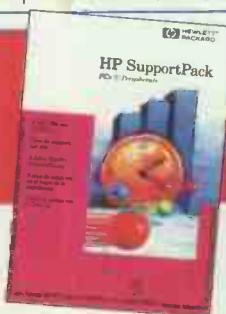
- ✓ Laser-like black and colour
- ✓ Fast black 8 ppm and colour
- ✓ Expandable paper handling, 4 MB
- ✓ Network connectivity options



EURPR1011	HP DeskJet 1600C	£871.50	(£1064.01)
EURPR1021	HP DeskJet 1600CM (NW/MAC)	£1280	(£1504.00)

Hewlett Packard Support Packs

Why risk losing valuable time and money? Save £££'s when you buy a support pack with your Printer



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- ✓ Colour option, 30-sheet feeder, 2 ppm
- ✓ Highly portable — battery option
- ✓ 600 x 300 dpi black with HP REt

EURPR1468:	HP DeskJet 340	£144	(£169.20)
PR11832	HP DeskJet 340Cbi Printer	£166.50	(£195.64)
EURAC3005	Black Cartridge	£19.95	(£23.44)
PR5650	Colour Cartridge	£22.95	(£26.97)



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EPSON



Epson Stylus Colour 300

730x360 dpi
 Up to 3ppm

Incredible Inkjets from EPSON

EPSON Stylus Color 400

- ✓ 720x720 dpi black and colour including printing on plain paper
- ✓ Up to 3ppm in black, Up to 1.2ppm in colour
- ✓ Photoreal colour as standard
- ✓ Single four colour colour (C,M,Y,K) ink cartridge
- ✓ Epson Auto colour function
- ✓ Windows '95 ICM colour matching
- ✓ 1 year RTB warranty with optional on-site warranty

PR12103 Stylus Color 400 £133 (£156.28)
 PR12592 Stylus Color 300 £106 (£124.55)

Peace of mind through reliability

EPSON **COVER plus** £65 (£76.38)



ONLY £133
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Free Epson Fun Factory!!!



When you purchase an Epson Stylus Colour 400 or Epson Stylus Colour 600 Includes: PrintArtist v4, LivePix Special Edition, the Big red Racing Game, and photo quality media pack. Bundles more fun with Epson!

EPSON Stylus Color 600

1440 DPI PRINTING

- ✓ Incredible 1440 dpi colour or true black printing with Epson Microdot
- ✓ Up to 4ppm Colour, 6ppm Mono printing
- ✓ Photoreal Colour and Laser Sharp Mono Printing as standard
- ✓ Windows 95 ICM & Colour Sync 2.0 Compliance
- ✓ 1 year RTB warranty with optional 3 year on site warranty
- ✓ Includes Look Your Best Color Pak

PR12058 Stylus Color 600 £169.00 (£198.58)



ONLY £169
 Including VAT (£198.58)

LOW PRICES!

EPSON Stylus Color 800

- ✓ Ultra fast print speed - up to 8ppm mono, 7 ppm colour
- ✓ 1440 dpi with Epson Super Microdot & Epson Super MicroWeave
- ✓ Optional Postscript and Network Capability
- ✓ 1 Year RTB with optional 3 year on site warranty

PR12059 Stylus Colour 800 £221.00 (£259.68)



ONLY £221
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All-In-One's from Hewlett-Packard

HP OfficeJet 590



ONLY £341
 Including VAT (£400.68)

- Features:**
- ✓ All-in-one colour printer! It's fully integrated and easy to use
 - ✓ 600 x 600 dpi Black with REt
 - ✓ 600 x 300 dpi colour
 - ✓ Plain paper and PC faxing
 - ✓ Up to 99 copies from original
 - ✓ 600dpi enhanced scanning
 - ✓ Digital zoom from 50% to 200% image size

PR12623 Office Jet 590 £341 (£400.68)
 51629A HP Black Ink Cart £17.95 (£21.09)
 51649A HP Colour Ink Cart £18.95 (£22.23)
 WR1219 HP Support pack for 590 £66.00 (£77.55)

HP OfficeJet Pro 1150C



ONLY £491
 Including VAT (£576.93)

- Features:**
- ✓ Printer, Copier, Scanner
 - ✓ Advanced colour printing copying and scanning - All in one!
 - ✓ 600 x 600 dpi black, Up to 600 x 300 colour
 - ✓ 8ppm black, 4ppm colour printing
 - ✓ Digital zoom from 50% to 400% image size
 - ✓ 24-bit colour scanning

PR12187 HP OfficeJet 1150C £491 (£576.93)
 51645A HP Black Ink Cart 1150C £19.95 (£23.44)
 51641A HP Color Cart 1150C £24 (£28.20)
 EURWR1112 HP Support Pack for 1150C £118 (£138.65)

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- ✓ Optical resolution of 300 x 600dpi
- ✓ Maximum Resolution of 4800 x 4800dpi
- ✓ Choose either Parallel (EPP & SPP) or SCSI Models



610P
£84
Including VAT £98.70

Umax Astra 1200S The Mainstream Business and Graphics Scanner!

- ✓ 30-bit, Single Pass Scanner
- ✓ Optical Resolution of 600 x 1200dpi
- ✓ Maximum Resolution of 9600 x 9600dpi



New	Astra 610P Parallel	£84	(£98.70)
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IN6265	Astra 600S SCSI with Photoshop LE	£169	(£198.58)
IN6328	Astra 600S SCSI with Full Photoshop V4.0	£249	(£292.58)
IN6326	Astra 1200S SCSI	£299	(£351.33)
INP1214	Astra 1200S SCSI with Photoshop LE	£319	(£374.83)
IN6326	Astra 1200S SCSI with full Photoshop V4.0	£399	(£468.83)

Hewlett Packard Scanners

HP ScanJet 5P Scanner

- The perfect tool for capturing high-quality colour and monochrome images to create impressive presentations, reports, and promotional materials.
- ✓ Scanner type: flatbed, one-pass colour and monochrome
 - ✓ 1200dpi enhanced resolution; 300dpi optical
 - ✓ 24-bit colour (16.7 million colours)
 - ✓ Manufacturer's one-year warranty; HP Express Exchange one-year technical support at no charge



FROM ONLY
£149
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PR12095	ScanJet 5P	£149	(£175.08)
WR1219	Support Pack for 5P	£66	(£77.55)



HP ScanJet 6100C Scanner

- The perfect tool for capturing high-quality colour and monochrome images to create impressive presentations, reports, and promotional materials.
- ✓ High quality colour, black & white and greyscale scanning
 - ✓ 2400dpi enhanced and 600dpi optical resolution
 - ✓ 30-bit colour and 10-bit greyscale scanning
 - ✓ Software suite includes Caere OCR, Corel Web GRAPHICS SUITE, Corel PHOTO-PAINT Select, Adobe Acrobat 3.0 and HP DeskScan II
 - ✓ Kit includes HP ScanJet Slide adapter and SCSI controller
 - ✓ Compatible with Windows 3.1, 95 and NT



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IN6422	ScanJet 6100C	£459	(£539.33)
IN6120	HP ScanJet 5s	£135	(£158.63)

Plustek OpticPro Scanners

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The FB III scans an A4 document, full colour, in a single pass. It comes complete with easy to use image and OCR software. It's high resolution produces excellent image quality. With its original "One touch key" function it makes it the friendliest scanner to use.

- ✓ 30 Bit colour, flatbed scanner
- ✓ Optical resolution 300 x 600dpi
- ✓ Maximum resolution 4800 x 4800 dpi



ONLY
£79
Including VAT £92.83

New	Plustek FB III Scanner	£79	(£92.83)
New	Plustek FB IV Scanner	£125	(£146.88)
New	Plustek A3p Scanner	£355	(£417.13)

Plustek OpticPro FB IV

The FB IV scans an A4 document, full colour, in a single pass. It comes complete with a professional easy to use editing and OCR software. It's high resolution produces excellent image quality. Its "one touch key" makes it the easiest and friendliest scanner to use.

- ✓ 30 Bit colour, flatbed scanner
- ✓ Optical resolution 600 x 1200dpi (Max 4800dpi)
- ✓ Full colour, 300dpi in 39 seconds (scanning speed only)



ONLY
£125
including VAT £146.88

Plustek OpticPro A3p

- ✓ 30-bit colour A3 scanner
- ✓ Optical resolution 400 x 800dpi
- ✓ Parallel port connection with pass through port
- ✓ Scanning area 11.69" x 16.97"



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Mag Monitors

DJ707
 17" Antiglare/
 Antistatic Monitor
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Samsung Monitors



The Samsung range of monitors are fully compliant to all safety standards and industry regulations. All monitors are plug and play compatible to take advantage of Windows 95 and are

designed to give optimal performance in both Mac and PC environments.

SM500s SyncMaster Monitor

- ✓ 15" FST Colour Monitor
- ✓ Horizontal Frequency 30-54KHz
- ✓ Mini-neck CRT
- ✓ 800x600 @ 85Hz
- ✓ Totally flicker free
- ✓ Fine dot pitch, 0.28mm
- ✓ Plug and Play
- ✓ Digital control



SM700P SyncMaster Monitor

- ✓ 17" FST Ultra high resolution colour monitor
- ✓ Horizontal frequency 30-85KHz
- ✓ Totally flicker free
- ✓ Ultra fine dot pitch, 0.26mm
- ✓ Enhanced multi-layer screen coating
- ✓ Plug and Play
- ✓ Advanced on screen display



MT1591	Syncmaster 14" 3NE	£115.00	(£135.13)
MT1594	Syncmaster 15" 500B	£219.00	(£257.33)
MT1595	Syncmaster 15" 500S	£179.00	(£210.33)
MT1600	Syncmaster 15" Multimedia 500MS	£205.00	(£240.88)
MT1592	Syncmaster 17" Multimedia 700MS	£395.00	(£464.13)
MT1593	Syncmaster 17" 700S	£355.00	(£417.13)
MT1556	Syncmaster 17" 700P	£469.00	(£551.08)
MT1557	Syncmaster 21" 1000P	£1099.00	(£1291.33)

All 15", 17" and 21" monitors include 3 year warranty

NEC MultiSync Monitors



MultiSync A500

- ✓ 15" Colour Monitor
- ✓ Low radiation and static emissions (TCO-95)
- ✓ OptiClear CRT coating for high picture quality
- ✓ Digital controls On-screen display
- ✓ VGA to 1280 x 1024(ni) @ up to 65Hz
- ✓ 0.2mm dot pitch

MT1584 *178 (£209.15)

MultiSync A700

- ✓ 17" Colour Monitor
- ✓ Digital controls On-screen display
- ✓ Easy adjustment of all screen parameters
- ✓ VGA to 1280 x 1024(ni) @ up to 65Hz
- ✓ Flicker free display capability up to 1024 x 768
- ✓ 0.28mm Dot Pitch
- ✓ Low radiation and static emissions

MT1582 *329 (£386.58)



NEC

PR12349	Superscript 1260 laser	£525	(£616.88)
PR11494	Superscript 860 GDI Pro	£249	(£292.58)
MT1388	Multisync E1100	£845	(£992.88)
MT1217	Multisync P1150	£1125	(£1321.88)
MT1270	Multisync P750	£529	(£621.58)
MT1117	Multisync M700	£425	(£499.38)
EURMT0626	Multisync M500	£255	(£299.63)
MT1589	Multisync E500	£239	(£280.83)
MT1583	Multisync E700	£439	(£515.83)

Optiquest Monitors

OPTIQUEST V641

- ✓ 14" Colour Monitor with 13.2" diagonal viewable screen
- ✓ Easy Access Up-Front controls
- ✓ Fine 0.28mm Dot Pitch
- ✓ 1024 x 768 resolution
- ✓ Anti-Glare treatment
- ✓ Exceeds MPR-II and EPA Energy Star™ requirements



MT1397	Optiquest V641	£119	(£139.83)
MT1398	Optiquest V655	£169	(£198.58)
MT1674	Optiquest Q41	£109	(£128.08)

OPTIQUEST V95

- ✓ 19" Colour Monitor with 18" diagonal viewable area
- ✓ 0.26mm dot pitch
- ✓ 1280 x 1024 Max resolution @ 88Hz
- ✓ Anti-static, anti-reflection screen
- ✓ Super contrast, flat square screen
- ✓ On view control system to customise display image



MT1620	Optiquest V95	£599	(£703.83)
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OPTIQUEST V115

- ✓ 21" Colour Monitor with 20" diagonal viewable screen
- ✓ 0.26mm dot pitch
- ✓ 1,600 x 1,280 max resolution @ 87Hz refresh rate
- ✓ On View controls
- ✓ Anti-Static, anti-glare screen
- ✓ Super contrast screen



MT1621	Optiquest V115	£799	(£938.83)
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OPTIQUEST Q71

- ✓ 17" Colour Monitor with 16" diagonal viewable area
- ✓ Digital controlled monitor with on-screen programming
- ✓ Exceeds EPA Energy Star™ guidelines
- ✓ 0.28mm dot pitch
- ✓ 1280 x 1024 NI Maximum resolution
- ✓ Advanced Colour management system matches screen colours to printer output



MT1405	Optiquest Q71	£319	(£374.83)
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Taxan UK market leader

ERGOVISION 750 TCO 95

- ✓ 17" Diamontron® Monitor
- ✓ 0.25mm, Aperture Grille Pitch
- ✓ 30-86kHz (Multiscan)
- ✓ Fully TCO 95 Compliant
- ✓ 1280 x 1024 up to 80Hz
- ✓ Windows 95 Plug & Play

MT1317



ERGOVISION 430 LR

- ✓ 14" (13.1" Viewable) Display size
- ✓ 0.28mm Dot Pitch
- ✓ 270x200mm display area (max)
- ✓ 800 x 600 up to 85Hz
- ✓ Non glare/anti static face treatment
- ✓ 30-54kHz horizontal scan frequency

MT1679



ERGOVISION 550 TCO 95

- ✓ 15" FST (13.7" Viewable)
- ✓ 0.27mm dot pitch
- ✓ AGRAS Face Treatment
- ✓ 30-69kHz horizontal scan frequency
- ✓ 800 x 600 up to 110Hz
- ✓ Fully TCO 95 compliant

MT1680



ERGOVISION 2150 TCO 95

- ✓ 21" Diamontron Monitor
- ✓ 0.28mm, Aperture Grille Pitch
- ✓ 30-95 kHz (Multiscan)
- ✓ Fully TCO 95 Compliant
- ✓ 1600 x 1200 up to 75Hz
- ✓ Windows 95 Plug & Play

MT1318



Model	Monitor	Price	Price with VAT
MT1679	Ergovision 430 LR 14"	£113	(£132.78)
MT1680	Ergovision 550 TCO 95 15"	£199	(£233.83)
MT1681	Ergovision 550 TCO 95-S 15"	£208	(£244.40)
MT1688	Ergovision 2040 TCO 95 20"	£683	(£802.53)
MT1274	Ergovision 730TCO 17"	£398	(£467.65)
EURMT0472	Ergovision 730TCO-S	£379	(£445.33)
MT1169	Crystalvision 620 12.1"	£1377	(£1617.98)
MT1170	Crystalvision 650 14.5"	£1852	(£2176.10)

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DX 15T

- ✓ Sony Trinitron 15" 90 degree deflection
- ✓ Anti glare / anti static
- ✓ 0.25 mm stripe pitch
- ✓ 1280 x 1024 resolution
- ✓ Vesa DPMS and EPA Energy Star Compliant TCO95
- ✓ 3 Year warranty



DJ707

- ✓ 17" High Contrast
- ✓ 90 degree deflection
- ✓ Anti glare / anti static
- ✓ JAG wheel feature
- ✓ 0.26 mm stripe pitch
- ✓ Vesa DPMS and EPA Energy Star Compliant TCO95
- ✓ 3 Year warranty



DX 715T

- ✓ Diamontron 17" 90 degree deflection
- ✓ Anti glare / anti static
- ✓ 0.25 mm stripe pitch
- ✓ 1280 x 1024 resolution @ 86KHz
- ✓ Vesa DPMS and EPA Energy Star Compliant TCO95
- ✓ 3 Year warranty



DJ530

- ✓ 15" FST Tube 90 degree deflection
- ✓ Anti glare / anti static
- ✓ JAG wheel feature
- ✓ 0.28 mm stripe pitch
- ✓ Vesa DPMS and EPA Energy Star Compliant TCO95
- ✓ 3 Year warranty

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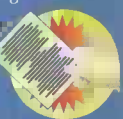
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Store up to 5GB



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The HP SureStore T4 provides a complete solution for network backup at a surprisingly low price. It's native capacity is 4GB - enough for a complete backup of a small client-server network to a single tape. With software data compression, the capacity increases to a maximum of 8GB*

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DR6995	SureStore 7100 Plus Internal IDE	£259.00	(£304.33)	DR7151	SureStore 2000i DAT 2GB Int SCSI	£435.00	(£511.13)
DR6996	SureStore 7100 Plus External Parallel	£319.00	(£374.83)	DR7152	SureStore 2000e DAT 2GB Ext SCSI	£519.00	(£609.83)
DR7034	Colorado 5GB Internal IDE	£145.00	(£170.38)	DR7153	SureStore 5000i DAT 4GB Int SCSI	£465.00	(£546.38)
DR7035	Colorado 5GB External Parallel	£175.00	(£205.63)	DR7154	SureStore 5000e DAT 4GB Ext SCSI	£549.00	(£645.08)
DR5623	Colorado T3000i TR-3 3.2GB Int IDE	£109.00	(£128.08)	DR7155	SureStore DAT8i DAT 8GB Int SCSI	£595.00	(£699.13)
DR5792	SureStore T4 Internal SCSI	£249.00	(£292.58)	DR7156	SureStore DAT8e DAT 8GB Ext SCSI	£679.00	(£797.83)

* Via Compression ** Speeds may vary according to PC

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DR6378

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- ✓ Transfer up to 1.4MB/sec
- ✓ Average seek time of 29ms
- ✓ Fits easily in your bag or briefcase

Ditto - The Lowest cost per MB backup solution

- ✓ Easy to use 1-Step software
- ✓ Simple Plug-and-go connection
- ✓ Transfer up to 9.5MB/min (Ditto 2GB External)
- ✓ Manufacturer's 2 year warranty

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- ✓ Faster than most hard drives! Works as fast as you do!
- ✓ Weighs only a little more than two pounds
- ✓ Easy to install
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- ✓ Average seek time of 12ms

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Item	Description	Price	Inc VAT
224426	Zip Drive External Parallel	*89.00	(*104.58)
224425	Zip Drive External SCSI	*89.00	(*104.58)
EURDR4672	Zip Drive Internal SCSI	*89.00	(*104.58)
ME7001	Zip disk 3-pack	*26.95	(*31.67)
ME7028	Zip disk 6-pack & free caddy	*52.00	(*61.10)
ME7460	Zip disk 10-pack & 2 free caddies	*89.00	(*104.58)
ACC1816	Large Carrying Case	*25.50	(*29.96)

Item	Description	Price	Inc VAT
DR6064	Ditto 2GB Internal	*59.00	(*69.33)
DR6065	Ditto 2GB External	*89.00	(*104.58)
ME6953	2GB Tape Single Pack	*14.50	(*17.04)
ME6954	2GB Tape Triple Pack	*39.50	(*46.41)
DR6868	Dittomax 7GB Internal	*99.00	(*116.63)
DR6867	Dittomax 7GB External	*129.00	(*151.58)
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FireBall ST - The choice for power users!
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DR6237	Fireball ST 1.6GB Ultra ATA	£99.00	(£116.33)
DR6543	Fireball ST 2.1GB Ultra ATA	£129.00	(£151.58)
DR6239	Fireball ST 3.2GB Ultra ATA	£149.00	(£175.08)
DR6240	Fireball ST 4.3GB Ultra ATA	£172.00	(£202.10)
DR6241	Fireball ST 6.4GB Ultra ATA	£240.00	(£282.00)
DR6340	Fireball ST 2.1GB Ultra SCSI	£160.00	(£188.00)
DR6341	Fireball ST 3.2GB Ultra SCSI	£219.00	(£257.33)
DR6342	Fireball ST 4.3GB Ultra SCSI	£235.00	(£276.13)
DR6344	Fireball ST 6.4GB Ultra SCSI	£305.00	(£358.38)

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DR5831	Atlas II 4.5GB 3.5" Ultra Wide SCSI-3	£449.00	(£527.58)
DR5830	Atlas II 9.1GB 3.5" Ultra SCSI-3	£699.00	(£821.33)
DR6100	Atlas II 9.1GB 3.5" Ultra Wide SCSI-3	£708.00	(£831.90)

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DR6117	Bigfoot CY 4.3GB 5.25" IDE	£145.00	(£170.38)
DR6236	Bigfoot CY 6.4GB 5.25" IDE	£219.00	(£257.33)

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DR6437	Mustang 4.0GB 3.5" EIDE	£238.00	(£279.65)
DR6438	Mustang 5.0GB 3.5" EIDE	£289.00	(£339.58)

✓ Ultra 50-pin, Ultra-wide 68-pin
 ✓ 512KB Buffer
 ✓ 5400 RPM Rotational speed
 ✓ Low power, lower heat & low noise levels

DR6439	Stinger 4.0GB 3.5" Fast SCSI	£235.00	(£276.13)
DR6440	Stinger 4.0GB 3.5" Wide SCSI	£335.00	(£393.63)
DR5774	Tomahawk 4.55GB 3.5" Fast SCSI	£379.00	(£445.33)
DR5794	Tomahawk 9.1GB 3.5" Fast SCSI	£655.00	(£769.63)

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DR6444	1.6GB IDE	£99	(£116.33)
DR6445	2.1GB IDE	£109	(£128.08)
DR6446	2.5GB IDE	£119	(£139.83)

Seagate Hard Drives

Medalist™ Family Hard Drives

✓ 100% IDE compatible
 ✓ Seek times as fast as 10msec and spindle speeds of up to 5,400 RPM

Code	Seagate Model #	Capacity	Interface	Price	Inc VAT
DR6872	ST31277A	1.2GB	Ultra-ATA	£89	(£104.58)
DR7066	ST31722A	1.7GB	Ultra ATA	£99	(£116.33)
EX8304	ST32122A	2.1GB	Ultra ATA	£115	(£135.13)
EX8305	ST33232A	3.2GB	Ultra ATA	£145	(£170.38)
New	ST34342A	4.0GB	Ultra ATA	£189	(£222.08)
New	ST36451A	6.4GB	Ultra ATA	£249	(£292.58)

Cheetah™ Family Hard Drives

✓ High performance ultra SCSI
 ✓ Average seek times as fast as 7.5 msec.
 ✓ Industry's highest performance — 10,000 RPM 3.5" disc drives

Code	Seagate Model #	Capacity	Interface	Price	Inc VAT
DR6154	ST34501N	4.55GB	Ultra SCSI	£495	(£581.63)
DR6155	ST34501W	4.55GB	Ultrawide SCSI	£518	(£608.65)
DR6567	ST19101N	9.1GB	Ultra SCSI	£889	(£1044.58)
DR7075	ST19101W	9.1GB	Ultrawide SCSI	£915	(£1075.13)

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 ✓ Standard Ultra SCSI
 ✓ 7,200 RPM spindle speed
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Code	Seagate Model #	Capacity	Interface	Price	Inc VAT
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DR7041	ST32272W	2.2GB	Ultrawide SCSI	£299	(£351.33)
DR6586	ST34572N	4.5GB	Ultra SCSI	£419	(£492.33)
DR7042	ST34572W	4.5GB	Ultrawide SCSI	£455	(£534.63)
DR5537	ST19171N	9.1GB	Ultra SCSI	£708	(£831.90)
DR5637	ST19171W	9.1GB	Ultrawide SCSI	£767	(£901.23)

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 ✓ 5,200 RPM spindle speed
 ✓ 300,000 hours MTBF (Mean Time Between Failures)
 ✓ Driver software included

High-speed host data transfers, advanced caching, increased rotational speeds, and low mechanical latency combine to give the Caviar drives the level of performance demanded by today's most valuable systems. The increased storage capacity that these hard drives offer is essential for multimedia, gaming, and information retrieval from on-line sources.

Code	Capacity	Price	Inc VAT
DR7312	1.6GB	£115	(£135.13)
DR7313	3.2GB	£155	(£182.13)
DR6976	4.3GB	£199	(£233.83)
DR6912	5.1GB	£249	(£292.58)

WD Enterprise™ SCSI Hard Drives

✓ 7200 RPM spindle
 ✓ 8ms average seek time
 ✓ Ultra Fast and Ultra Wide SCSI-3 Interface

The WD Enterprise™ drives — the first in a family of 7200 RPM drives — deliver outstanding performance, capacity, and reliability, and are an excellent choice for audio-video, workstation, server, multi-user, and array applications.

Manufacturer: Western Digital

Code	Capacity	Price	Inc VAT
DR6103	2.1GB, Ultra SCSI	£275	(£323.13)
DR6107	2.1GB, Ultrawide SCSI	£289	(£339.58)
DR6106	4.3GB, Ultra SCSI	£399	(£468.83)
DR6110	4.3GB, Ultrawide SCSI	£419	(£492.33)

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Orpheus Multiple Storage Drive Cases

Orpheus

Map 5021
 ✓ Designed for 5.25" SCSI full height drive devices
 ✓ Power supply with UL, CSA, TUV approvals.
 ✓ Cases compatible with SCSI-1, SCSI-2 and SCSI-3 interfaces. IDE and PCMCIA options available

Map 5041
 ✓ As above for four devices
 ✓ 200 Watt power supply

Map 5081
 ✓ As above for eight devices
 ✓ 250 Watt power supply

Just Cooler
 Just Cooler gives you the answer when your HDD overheats!!!

Item	Description	Price	Inc VAT
AC22189	CD-ROM case	£30.95	(£36.37)
AC22190	Std 3.5" SCSI case with terminator	£38.95	(£45.77)
AC22191	Std 5.25" SCSI case	£38.95	(£45.77)
AC22192	Premier 3.5" SCSI case	£40.95	(£48.12)
AC22193	Premier 5.25" SCSI case	£40.95	(£48.12)
AC22194	Delux 3.5" metal SCSI case	£41.95	(£49.29)
AC22195	Premier 2 bay 3.5" SCSI Case	£52.95	(£62.22)
AC22196	Premier 2 bay 5.25" SCSI Case	£52.95	(£62.22)
AC22199	Premier 4 bay 5.25" SCSI Case	£70.95	(£83.37)
AC22200	Premier 8 bay 5.25" SCSI Case	£106.95	(£125.67)
AC22201	Just Cooler	£15.95	(£18.74)

Xircom PCMCIA Cards

GlobalACCESS Credit Card GSM adapter
 Type II PC Card for sending/receiving faxes, data and SMS over GSM Handsets
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CreditCard Modem 33.6
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DEC2260	CreditCard Ethernet Adapter 10/100 100TX	£99.00	(£116.33)
DEC2259	CreditCard Ethernet Adapter 10MB upg to 100/1B RJ45	£83.95	(£98.64)
DEC2261	CreditCard Ethernet Adapter 10/100 upgrade kit	£59.00	(£69.33)
DMD2808	CreditCard Ethernet 10/100 Modem 56K RJ45	£239.00	(£280.83)
DMD2806	CreditCard Ethernet 10/100 Modem 56K RJ45 with MiniDock	£239.00	(£280.83)
DMD3016	CreditCard Modem 56K	£149.00	(£175.08)
DEC2396	CreditCard Ethernet & Modem 33.6 RJ45	£119.00	(£139.83)
DEC2403	CreditCard Ethernet & Modem 33.6 RJ45/BNC	£209.00	(£245.58)
DEC2206	CreditCard Modem 33.6	£119.00	(£139.83)
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SlimSCSI PCMCIA
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EX7250	AHA-2940AU PCI Ultra SCSI Master	£149.00	(£175.08)
236129	AHA-2940UW PCI Ultra Wide SCSI	£175.00	(£205.63)
EUREX2476	AHA-3940U PCI Multichannel	£259.00	(£304.33)
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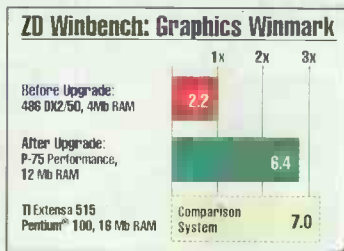
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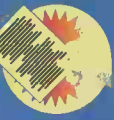
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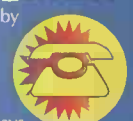


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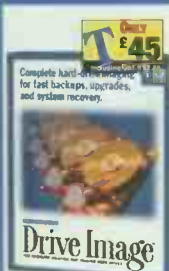
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DEC2380	Global Networker 3412 Ethernet & Modem 33.6 RJ45/BNC PC Card	£219	(£257.33)
DEC2453	Network Flyer 100	£119	(£139.83)
EURMM0688	DF2814 33.6 Modem PC Card	£139	(£163.33)
DMD2975	GlobalClass Pro ISDN 3600 PC Card	£269	(£316.08)
DEC3016	GlobalClass 3310 Modem & GSM Upgradeable PC Card	£149	(£175.08)
DEC5099	Nokia 2210 upgrade for DF3310/3600	£99	(£116.33)
DEC5098	Nokia 8110 upgrade for DF3310/3600	£99	(£116.33)
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The Global Pro ISDN 3600 is the first combination ISDN and modem that supports ISDN, analogue fax and data and GSM features. The Global Pro ISDN 3600, with optional kits (see opposite for kits), connects directly to GSM cellular phones.

Global Class 3310

The Global Class 3310 PC Card supports 33.6 data, 14.4 send and receive as well as optional GSM capabilities with the use of the optional kits (see opposite for kits)

US Robotics Modems

Sportster® Flash 56K Ready

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External Faxmodem with Personal Voice mail

Download from the Internet at an amazing 56kbps with the Sportster Flash. Nearly 100% faster than the 28.8Kbps speed currently available over ordinary telephone lines. Sportster flash users can now upgrade to X2 free by calling the US Robotics bulletin board.

Over 300 major internet and On-line Services have agreed to adopt X2 technology - worldwide. When not downloading from an X2 host, you're still connected at speeds of up to 33,600bps - the latest approved v.34 standard.



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Sportster® Voice 33,600 Faxmodem with Personal Voice mail

The Sportster Voice modem provides Internet Access, fax, e-mail, personal voice mail and speaker phone facilities in one compact unit. The speakerphone facility allows the Sportstervoice to be used as a hands free telephone - giving you a complete communications solution.

Sportster® XJACK® 28,800 PCMCIA fax/data modem

The XJACK® modem slots discreetly out of sight into your computer's standard PCMCIA Type II or Type III slot, or into a Toshiba 16mm slot. And with it's unique XJACK® connector, it's there when you need it, hidden away when you don't.

Sportster® ISDN TA Terminal adapter for ISDN Connectivity

Sportster ISDN TA allows you to send and receive data at up to 64Kbps over the ISDN high-speed network, but at the same rate as normal telephone charges.

Sportster ISDN TA is supplied with data communications software, cables and connectors - plus free lifetime technical support and 5 years warranty

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MM4049	Sportster Flash 56K Ready External	£109.95	(£129.19)	234937-5	Courier V34 33.6 External	£194.00	(£227.95)
DMD1773	Sportster Voice 33.6 External	£97.95	(£115.09)	DMD1316	Courier V34 33.6 Internal	£194.00	(£227.95)
DMD1584	Sportster Voice 33.6 Internal	£97.95	(£115.09)	MM3994	Courier-I ISDNV34 External	£254.00	(£298.45)
236354	Sportster XJACK 28.8 PCMCIA	£107.95	(£126.84)	MM3993	Courier-I ISDNV34 Internal	£254.00	(£298.45)
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The 56K Solutions from Motorola

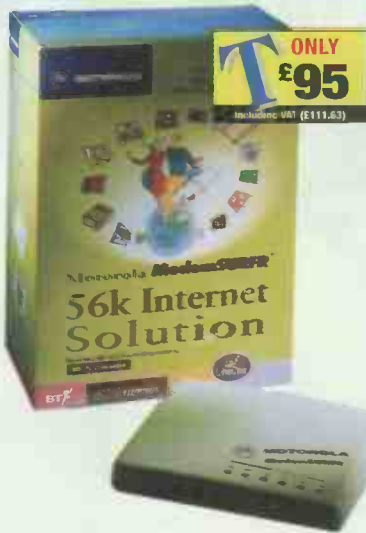
Download internet files at blazing speeds

The Motorola 56K Internet Solution

The Motorola 56K Internet Solution is the ideal solution for all your family's applications. Download Internet graphics, audio files and more at up to 56Kbps.

- ✓ Data rates up to 56Kbps and throughput rates up to 230.4 with data compression
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- ✓ Includes BT Internet and LineOne Online Services software
- ✓ T.30 fax technology from trio for error free fax connections
- ✓ Free internet security software
- ✓ V.80 ready for future point-to-point video conferencing
- ✓ Flash capabilities for adding future features via software upgrades

DR4067 56K Internet Solution External £95 (£111.63)



The Motorola Home/Office Solution

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The Motorola 56K Home/Office Solution combines voice and data technology to provide voicemail/answering machine, fax machine and full duplex speakerphone capability in a single package. The 56K Home/Office solutions ideal for all your data communications applications, such as E-mail, remote LAN access, telecommuting - or any application that requires fast, reliable transmissions.

- ✓ Includes external microphone
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- ✓ Full duplex speakerphone
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- ✓ Sets up voicemail with multiple mail boxes.

DR4068 56K Home/Office Solution External £105.00 (£123.38)
DMD2395 56K VoiceSurf Solution Internal £95.00 (£111.63)
MM4016 PCMCIA 33.6 PC & Mac Modem £125.00 (£146.88)
2000189 BitSURFR Pro ISDN TA £279.00 (£327.83)

Also available for Mac (DMD1490)

To achieve 56K, you must connect to an internet service provider or service that supports 56K Telephone line conditions may limit your ability to connect at the highest speeds.



All modems have a 5 year warranty



HAYES MODEMS

Compatibility Reliability Ease of Use

Hayes 56K Internet Solution Modem

- ✓ 56K bit/s through from compatible digital sites
- ✓ Voice answerphone
- ✓ Full duplex speakerphone
- ✓ Fax send and receive
- ✓ Internet Access with MSN
- ✓ Free Microsoft Mouse Mat



DMD3098 56K Internet Solution Internal £99 (£116.33)
DMD3099 56K Internet Solution External £115 (£135.13)

ACCURA 336 PC CARD

The ACCURA 336 PC Card offers portable data and fax communications at an even more affordable price. The product boasts a slimline connector that won't block other PCMCIA slots and won't break off easily

Choose OPTIMA 336 PC Card if you are interested in communicating via GSM or telephone lines. Optional GSM kits are available for Nokia, Panasonic and Alcatel phones. Optima also features AutoSync for mainframe connectivity



DMD2531 Accura 336 PC Card £99 (£116.33)

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- ✓ V.120/V.110 Rate Adaption
- ✓ 2 Analogue ports
- ✓ Call Bumping
- ✓ Bandwidth on demand
- ✓ Calling Line Identification
- ✓ Dial Back Security (40 users)
- ✓ Flash upgradeable
- ✓ Plug and Play

MM4051 Accura ISDN £175 (£205.63)
MM4017 Accura 336 Message modem ext £95 (£111.63)
DMD2185 Accura 336 Message modem int £95 (£111.63)
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MT1270	17" P750"	£529.00	£621.58
MT1217	21" P1150 Multisync	£1,125.00	£1321.88
MT1388	21" E1100 Multisync	£845.00	£992.88
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MT1582	17" A700	£329.00	£386.58

Code	Description	Price	Inc VAT
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MT1159	15" Panasync 15MM	£249.00	£292.58
MT1285	15" Panasync 4	£179.00	£210.33
MT1181	17" Panasync 17MM	£384.00	£451.20
2000086	17" Panasync 5G	£349.00	£410.08
2000087	17" Panasync Pro 5G	£419.00	£492.33
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MT1665	17" DX700T	£365.00	£428.88
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MT1273	15" EV-530TCO FST	£227.00	£266.73
MT1276	17" EV-740TCO95-S FST	£389.00	£457.08
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EX8075	Millennium II 8MB 250MHz	£249.00	£292.58
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Code	Description	Price	Inc VAT
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DR5804	4X Write 6X Read Int	£339.00	£398.33
DR5805	4X Write 6X Read Ext	£389.00	£457.08
DR5371	4X Mastering System Mac	£1,645.00	£1,932.88
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DR5625	EZCD Card 4X Ext PCMCIA	£135.00	£158.63
DR5485	EZCD Card 8X Ext PCMCIA	£149.00	£175.08
DR5629	EZCD Sound 4X Ext Parallel with sound	£179.00	£210.33
DR5484	EZCD Sound 8X Ext Parallel with sound	£199.00	£233.83

Code	Description	Price	Inc VAT
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DR7153	SURESTORE 5000i 4GB Internal	£465.00	£546.38
DR7156	SURESTORE DAT 8i 8GB External	£679.00	£797.83
DR7155	SURESTORE DAT 8i 8GB Internal	£595.00	£699.13
DR7179	SURESTORE T41 TR-4 48GB DRIVE Internal	£249.00	£292.58
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DR6373	Syljet 1.5GB Ext SCSI	£249.00	£292.58
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EX7250	PCI ULTRASCSI Master AHA2940AU	£149.50	£175.66
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EUREX2476	PCI Multichannel Kit AHA3940U	£259.00	£304.33
EX7649	PCI Wide Differential AHA2944W	£285.00	£334.88
236131	PCI Wide Multichannel AHA3940UW	£295.00	£346.63

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IN6120	ScanJet 5S	£135.00	£158.63
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EURAC2977	Trackman Marble	£42.00	£49.35
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IN6682	Quickcam VC Parallel	£89.00	£104.58
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PR12232	HP LaserJet Companion	£115.00	£135.13
EURPR1489	HP 5SiXX LaserJet Printer C3167A	£2249.00	£2642.58
PR12116	HP LaserJet Printer 5 SiNX C3950A	£1799.00	£2113.83
EURPR1490	HP A3 5Si LaserJet Printer C3166A	£1649.00	£1937.58
EURPR1642	HP LaserJet Colour 5M Printer C3962A	£3600.00	£4230.00
EURPR1643	HP LaserJet Colour 5 Printer C3962A	£2861.00	£3361.68
EURPR1666	HP LaserJet 5 Printer C3916A	£674.00	£791.95
EURPR1665	HP LaserJet 5M Printer C3916A	£997.00	£1171.48
EURPR1664	HP LaserJet 5N Printer C3952A	£847.00	£995.23
PR11827	HP LaserJet 6P Printer C3980A	£480.00	£564.00
INP0975	HP LaserJet 6MP Printer C3982A	£592.00	£695.60

INKJET			
PR12315	HP Deskjet 670C Printer C5884A	£121.00	£142.18
PR12348	HP Deskjet 690C Plus Printer C5900A	£150.00	£176.25
PR11738	HP Deskjet 8700i Printer CodeC4531A	£202.00	£237.35
PR12804	HP Deskjet 890C	£255.00	£299.63
NEW	HP LaserJet Colour 5N	£3142.00	£3691.85

PR12805	HP Deskjet 1100C	£285.00	£334.88
PR11832	HP Deskjet 340C-IR Adaptor Printer C2671A	£144.00	£169.20
PR11832	HP Deskjet 340C-IB C2671A	£166.50	£195.64

OFFICE JET			
PR12623	Officejet 590	£341.00	£400.68
PR12187	Officejet 1150C Pro	£491.00	£576.93

BROTHER			
PR11846	BROTHER HL-730 LASER	£199.00	£233.83
PR11843	BROTHER HL-760 LASER 1MB	£229.00	£269.08
PR12797	BROTHER HL-760 5MB	£199.00	£233.83
PR11845	BROTHER HL-1660 4MB LASER	£699.00	£821.33
PR12164	BROTHER HL-1660 10MB	£715.00	£840.13
PR6517	BROTHER HL-1660EX 4MB	£909.00	£1068.08
PR12400	BROTHER HL-1660EX 10MB	£925.00	£1086.88
PR11844	BROTHER HL-1260E 2MBEX	£805.00	£945.88
PR12138	BROTHER HL-1260 6MB	£615.00	£722.63
EURPR1497	BROTHER LASER HL-1260E	£599.00	£703.83
MM4000	BROTHER MFC-9000 FAX/PRINTER	£662.00	£777.85
NM4125	BROTHER HLC-3000 (Multifunction)	£499.00	£586.33
PR11850	BROTHER HL-1060 2MB	£399.00	£468.83
PR23746	BROTHER HL-1060 6MB	£415.00	£487.63

EPSON INKJET			
PR12592	EPSON INKJET STYLUS COLOUR 300	£106.00	£124.55
PR12103	EPSON INKJET STYLUS COLOUR 400	£133.00	£156.28
PR12058	EPSON INKJET STYLUS COLOUR 600	£169.00	£198.58
PR12059	EPSON INKJET STYLUS COLOUR 800	£243.00	£285.53
PA12124	EPSON INKJET STYLUS COLOUR 1520	£593.00	£696.78
EURPR1691	EPSON STYLUS PRO XL PLUS A3	£446.00	£524.05

LASER			
PR11954	EPSON LASER EPL-N2000	£1278.00	£1501.65
PR11952	EPSON LASER EPL-N1200	£593.00	£696.78

DOT MATRIX			
PR11129	EPSON D/MATRIX 9P LX-300	£97.00	£113.98
EURPR1101	EPSON D/MATRIX 9P LX-1050 PLUS	£200.00	£235.00
EURPR1098	EPSON D/MATRIX 24P LQ-300	£115.00	£135.13
PR4480	EPSON D/MATRIX LQ570 PLUS	£216.00	£253.80
PR2080	EPSON D/MATRIX 24P LQ870	£377.00	£442.98
EURPR1617	EPSON D/MATRIX 24P LQ2170	£468.00	£549.90
EURIP0018	EPSON D/MATRIX 9P FX-1170	£307.00	£360.73
EURPR1608	EPSON DOT MATRIX 9P FX-2170	£395.00	£464.13
PR12480	EPSON DOT MATRIX LQ670	£230.00	£270.25

CANON			
234395	CANON INKJET MONO A4 B30 (W)	£124.00	£145.70
EURPR1081	CANON INKJET COLOUR BJC70 (W)	£142.00	£166.85
PR11932	CANON BJC-620	£169.00	£198.58
PR11899	CANON BJC-4550	£199.00	£233.83
PR11992	CANON Laser LBP-1260+	£699.00	£821.33
PR12101	CANON BJC-5500	£445.00	£522.88
PR12274	CANON LASER LBP-660	£184.00	£216.20
PR23747	CANON BJC-8C	£142.00	£166.85
PR23748	CANON BJC-8C Scan	£200.00	£235.00

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EURPR1682	KYOCERA LASER FS-1550 PLUS	£615.00	£722.63
PR12021	KYOCERA LASER FS-3700	£986.00	£1158.55
PR12020	KYOCERA LASER FS-1700N	£925.00	£1086.88
PR12696	KYOCERA LASER FS-600	£239.00	£280.83

PANASONIC			
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EURPR1298	PANASONIC LASER KX-P4300	£455.	



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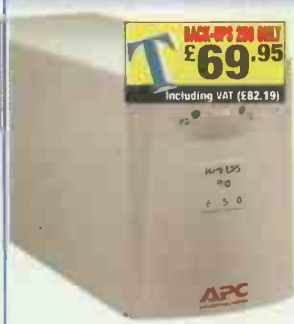


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 DJ707
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DUP1232	Back-UPS Pro 1000	£289.00	(£339.58)
DUP1234	Back-UPS Pro 1400	£379.00	(£445.33)
DUP1015UK	Back-UPS 250	£69.95	(£82.19)
DUP1016UK	Back-UPS 400	£99.00	(£116.33)
DUP1018UK	Back-UPS 600	£139.00	(£163.33)
DSP1391	SurgeArrest Pro	£45.00	(£52.88)

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HP JetDirect Print Servers

Item#	Product#	Network Type/Port	HP Peripheral	Price
2000261	J2550B	Ethernet/802.3 RJ045 (10/Base-T)	HP Color LaserJet, HP LaserJet, 4V, 4MV, 45i, 45i, 45i, 4 Plus, 8pin mini DN-4, and 4M Printers	£187 (€219.73)
211890	J2552B (LocalTalk)	Ethernet/802.3 BNC (Thin Coax) RJ045 (10/Base-T) 8pin mini DN-10(LocalTalk)	HP PrinterJet XL300, XL300/PS Color Printers HP Deskjet 1200C, 1200C/PS Color Printers	£209 (€245.58)
211891	J2555B	Token Ring/802.5 DB9, RJ-45	HP DesignJet*, 600*, 650C Plotters HP DesignJet, 650C/PS Printer	£299 (€351.33)
DEP1580	J2556B	Ethernet 802-3 RJ-45 (10/100 Base-T)	HP DesignJet*, 600*, 650C Plotters HP DesignJet, 650C/PS Printer	£249 (€292.58)

HP JetDirect Ex Plus 3 Print Servers

Item#	Product#	Network Type/Port	HP Peripheral	Price
234886	J2593A Ex Plus 3	Ethernet/802.3 BNC (Thin Coax) RJ45 (10/Base-T)	HP DraftPro Plus Plus HP Deskjet Series All parallel-based, Printers	£217.95 (€256.09)

HP JetDirect Ex Plus 3 Print Servers

Item#	Product#	Network Type/Port	HP Peripheral	Price
200262	J2591A Ex Plus 3	Ethernet/802.3 DRD, RJ45 RJ45 (10/100Base-T)	Any Printer with a DRD RJ45 parallel port	£179.95 (€211.44)
DEP1579	J2592A	Ethernet/802.3	DRD RJ45 parallel port	£99.95 (€117.44)

***Only available for IPX protocol.



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3.0m	AC20383	£9.95	(£11.69)
5.0m	AC20384	£10.95	(£12.87)
10m	AC20385	£19.95	(£23.44)

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1.5m	234851	£19.65	(£23.09)
3.0m	234852	£23.49	(£27.60)
A-C Cable			
1.5m	234853	£19.65	(£23.09)
3.0m	234854	£31.95	(£37.54)
C-C Cable			
1.5m	234855	£35.95	(£42.24)
3.0m	234856	£38.95	(£45.77)

Modem Cables



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Cable Connector	Length (M)	Order No.	Price Inc. VAT
DB9F/DB25M	1.8m	DCA2550	£29.99 (€35.24)
	3.6m	DCA2539	£32.99 (€38.76)
DB25F/DB25M	1.8m	DCA2534	£29.99 (€35.24)
	3.6m	DCA2533	£32.99 (€38.76)

Foil-Shielded Moulded Cables

Item No.	Description	Price	Inc. VAT
EURAC2176	25F-25M 2M	£9.95	(£11.69)
EURAC2177	9F-25M 2M	£8.95	(£10.52)
EURAC2168	9F-9F 2M NULL	£9.95	(£11.69)
EURAC2169	9F-25F 2M NULL	£9.95	(£11.69)
EURAC2170	UNIVERSAL 2M NULL (9F+25F each end)	£18.95	(£22.27)
EURAC2174	25F-25F 2M NULL	£10.95	(£12.87)



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Extension Cable	1.8	050094	£7.99	(£9.39)
9-pin Monitor Extension Cable	3.6	1978-8	£14.99	(£17.61)
Extension Cable	1.8	1977-8	£9.99	(£11.74)
High Density 15-pin Mon. Ext. Cable	3.6	0797-7	£15.99	(£18.79)
5-pin Keyboard Extension Cable	1.8	0797-8	£10.99	(£12.91)
5-pin Keyboard Extension Cable	3.6	1978-6	£8.99	(£10.56)
9-pin Serial Mouse Extension Cable	1.8	1977-3	£4.99	(£5.86)
9-pin Serial Mouse Extension Cable	3.6	1978-8	£14.99	(£17.61)

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Platinum	1.5m	DCA2237	£4.99 (€5.86)	£44.90 (€52.90)
Platinum	3.0m	DCA2240	£5.99 (€7.04)	£54.95 (€66.51)
Platinum	7.6m	DCA2244	£9.49 (€11.15)	£89.80 (€105.63)
Platinum	15m	DCA2246	£14.99 (€17.63)	£139.90 (€164.38)
Platinum	30m	DCA2247	£24.99 (€29.36)	£239.90 (€281.88)

Mouse Adapters

Description	Item No.	Price	Inc. VAT
PS/2 to Serial Mouse Adaptor F6 Mini/F25	041161	£5.95	(€6.99)
PS/2 to Serial Mouse Adaptor F6 Mini/F9	041162	£5.95	(€6.99)
PS/2 to Serial Mouse Adaptor M6 Mini/M25	0358-6	£6.99	(€8.21)
PS/2 to Serial Mouse Adaptor M6 Mini/M9	0358-7	£6.99	(€8.21)



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3C900-TPO EtherLink III XL PCI UTP only	DEC2235 £62.95 (£73.97)	DEC2236 £279.95 (£328.95)	DEC2237 £1029.00 (£1209.08)
3C900 Combo EtherLink XL Combo	DEC2234 £74.95 (£88.07)	DEC2233 £349.95 (£411.19)	DEC2232 £1299.00 (£1526.33)
3CS92 Combo EtherLink III Combo 32-Bit EISA	DEC1115 £119.95 (£140.94)	DEC1179 £519.95 (£610.94)	
3C905-TX Fast EtherLink 10/100PCI	DEC2338 £52.95 (£62.22)	DEC2340 £249.95 (£293.69)	DEC2339 £939.00 (£1103.33)
3CS97-TX Fast EtherLink 10/100 EISA	DEC1653 £139.95 (£164.44)	DEC1654 £699.95 (£822.44)	

The Laptop Solution

DEC1481	3COM EtherLink III PCMCIA 10T	£76.95	(£90.42)
DEC1483	3COM EtherLink III PCMCIA Combo	£102.95	(£120.97)
DEC2432	3COM EtherLink III PCMCIA 33.6 & 10Base T	£185.95	(£218.49)
DEC2435	3COM EtherLink III PCMCIA 33.6 Combo	£205.95	(£241.99)

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DEH2430	SuperStack Entry Hub 24 Port	£259.00	(£304.33)
DEH1954	SuperStack II PS Hub 40 12 Port	£239.00	(£280.08)
DEH1973	SuperStack II PS Hub 40 24 Port	£449.00	(£527.58)
DEH1961	SuperStack II 12 Port 10Base T Hub	£264.50	(£310.79)
DEH1963	SuperStack II 24 Port 10Base T Hub	£494.50	(£581.40)
DEH2020	SuperStack II management module	£299.00	(£351.33)
DEH1976	SuperStack II 100TX 12 Port Hub	£799.00	(£938.83)
DCS3674	Transcend Workgroup Manager for Windows v6.0	£299.00	(£351.33)

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DEH1972	SuperStack II Switch 2200	£3499.00	(£4111.33)
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NETGEAR Ethernet Hubs

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DEH1736	NETGEAR 8 port EN108 10Base-T Hubs AUI/BNC	£62.95	(£73.97)
DEH2158	NETGEAR 16 port EN516 10Base-T Hubs AUI/BNC	£149	(£175.08)
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DET1469	AT-MX40F Slimline Transceiver Fibre ST	£89.95	(£105.69)
DET1163	AT-MX70 Mac Transceiver AAUI-BNC	£22.95	(£26.97)
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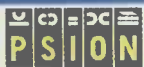
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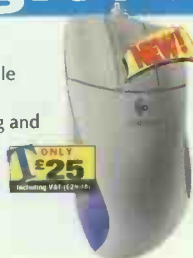
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Logitech Mice

MouseMan

- ✓ 4 customisable buttons
- ✓ Easy scrolling and zooming
- ✓ Great look and feel



IN6440 MouseMan '25 (£29.38)

Pilot Mouse +

- ✓ Good value wheel mouse (3 Buttons inc. wheel button)
- ✓ Easy scrolling and zooming



207212 Pilot Mouse + Combo '16.45 (£19.33)

WingMan Extreme Digital & X-Wing VS. Tie Fighter

- ✓ Digital techniques for optimum performances in Win 95 and DOS Box games
- ✓ 6 Programmable buttons - keyboard no longer necessary
- ✓ 4-way switch for 360 degree and throttle control
- ✓ Eliminates calibration problems
- ✓ Uses standard game port



IN1764 WingMan Extreme Digital & X-Wing Vs. Tie Fighter '45 (£52.88)

52071	Pilot Mouse (Serial + PnP)	'15.00 (£17.63)
IN6260	MouseMan for Notebooks	'34.00 (£39.95)
EURIN1199	Cordless MouseMan Pro	'49.00 (£57.58)
IN6111	Surfman Cordless Mouse	'45.00 (£52.88)
28311	TrackMan Portable (Serial & PS/2)	'36.95 (£43.42)
EURIN1485	Trackman Live	'129.00 (£151.58)
IN6439	MouseMan +	'25.00 (£29.38)
IN6501	TrackMan	'25.00 (£29.38)
234673	TrackMan Marble (Serial & PS/2)	'42.00 (£49.35)

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IN6561 TrackBall '45.95 (£53.99)

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207212 Microsoft Keyboard '45.00 (£52.88)

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IN6623	Microsoft Joystick Sidewinder Precision Pro	'45.00 (£52.88)
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IN5945	Microsoft IntelliMouse	'35.00 (£41.13)
207269	Microsoft Home Mouse	'15.00 (£17.63)

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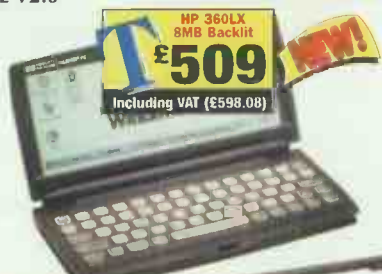
Hewlett Packard 360LX Palmtop

Includes MS Windows CE V2.0



New features include:

- ✓ 8MB ROM (Upgradeable)
- ✓ 640x240LCD Backlit display
- ✓ 16 Shades of gray
- ✓ Pocket Mail
- ✓ B - Fax - Send and receive faxes
- ✓ Pocket Powerpoint



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CP4923	HP 320LX Palmtop with Backlit and 4MB	'379.00 (£445.33)
CP5964	HP 360LX Palmtop Backlit & 8MB	'509.00 (£598.08)
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WR1350	HP Support Pack	'66.00 (£77.55)

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- ✓ Fully functional QWERTY keyboard
- ✓ Modem connection for fax, email and internet connection (optional)



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CP4369	Psion Series 3C 2MB Backlit with PsiWin	'297.00 (£349.98)

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CP5287	Psion Palmtop Series 5 4MB	'374.00 (£439.45)
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*System requirements:
 Windows 95,
 Pentium
 100MHz
 (minimum),
 Soundcard,
 16MB RAM
 (Minimum),
 30MB Hard
 Disk Space



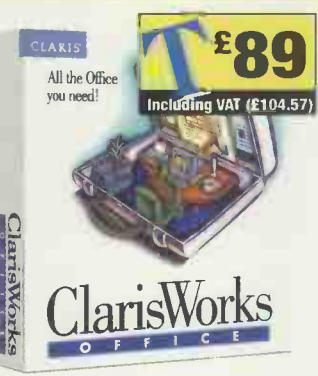
AA0787	Lotus SmartSuite 97 Win 95/NT CD	£293.00	(£334.28)
AA0786	Lotus SmartSuite 97 Win 95/NT Comp Upg CD	£112.00	(£131.60)
SS0451	Lotus 123 97 Win 95/NT 3.5"	£219.00	(£257.32)
UP3883	Lotus 123 97 Win 95/NT Comp Upg CD	£89.00	(£104.57)

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- ✓ Sort Portals - Sort information in related files
- ✓ Rotate Text - Rotate text in 90 degree increments
- ✓ Integrate Multimedia - QuickTime lets you easily cut, copy and paste video footage, animation, sound and still images.



Internet Enabled

- ✓ Launch your browser through the Internet Button Bar
- ✓ Add URL links inside documents
- ✓ Prepare Web pages, including tables and graphic images, and save in HTML
- ✓ Internet Software from Pipex
- ✓ HomePage lite for Web site Design

System Requirements
 Windows 95 or NT, 386 (486 for NT) 8MB Ram (16MB NT) 21 - 48MB hard disk space, CD Drive. For Internet Access 14400 + modem, Internet Service Provider account. Disk sets are available for an additional fee.

BS11248	ClarisWorks Office Win/Win 95/NT CD	£89.00	(£104.57)
BS11355	ClarisWorks Office Win/Win 95/NT Upg CD	£49.99	(£58.73)
DB0773	FileMaker Pro 4.0 Win/Win 95/NT CD	£173.00	(£203.27)
DB0772	FileMaker Pro 4.0 Win/Win 95/NT Upg CD	£99.00	(£116.32)

System Requirements
 Windows 95/NT (3.51+) or Windows 3.1 (FMPPro's Web features will not work on Win 3.1) CD Drive. Networking Win 95/NT users can use IPX/SPX and TCP/IP. Win 3.1 users can use IPX/SPX Novell Netware Client Software and TCP/IP-32 for Windows for Workgroups.

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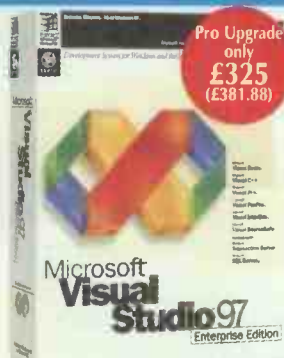
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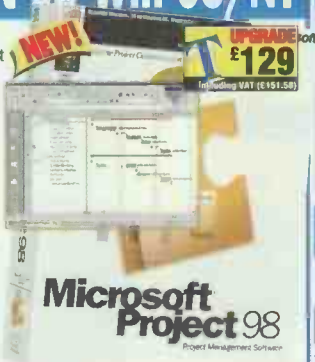
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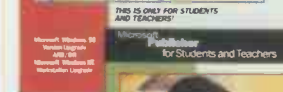


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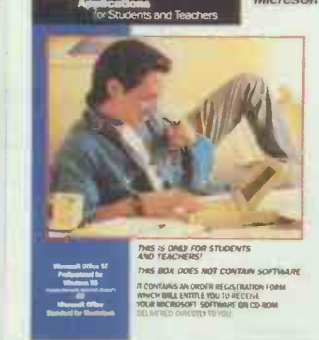
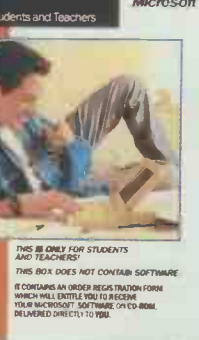


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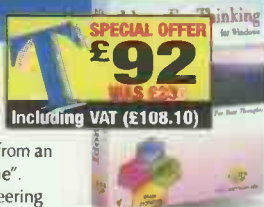
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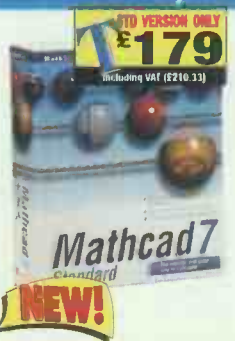
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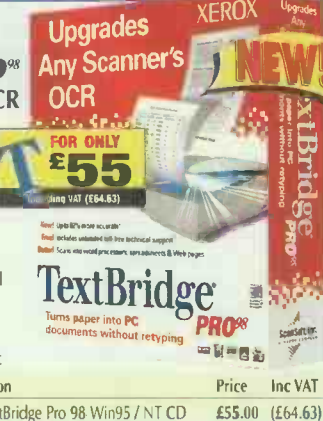


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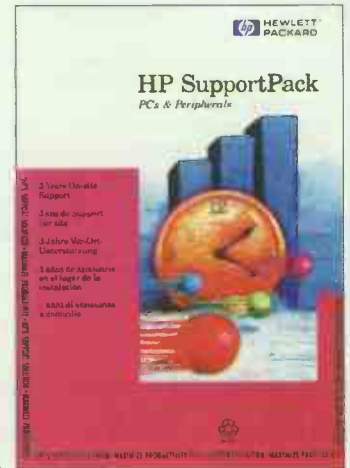
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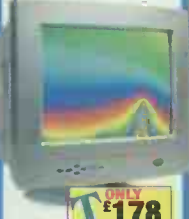
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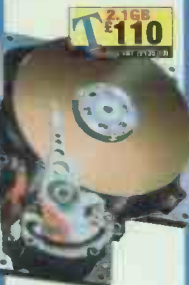
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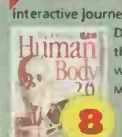
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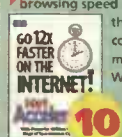
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Using our own hub-to-hub trucks we are able to accept orders up to 8pm and still offer insured next day delivery on small in-stock items (barring system failure) for just £6.85 plus VAT. Customers in the Channel Isles, Scotland, Ireland and Mainland Europe and those orders for larger items such as printers, scanners, monitors etc will be quoted delivery charges and times when ordering. Please note that £6.85 is the minimum next day delivery charge, for morning and Saturday deliveries please ask your sales contact at time of ordering.



Products are easy to find in our shops - why not visit one, there is one near you!

New retail stores opening near you!

The retail arm of Software Warehouse has been growing throughout the summer and stores are still being opened nationwide, this page and the next show the location plans of all the stores open to date. All our stores offer the same low prices featured in the catalogue and all our staff have been selected for their knowledge and dedication to customer service. Why not visit one of our stores and take advantage of the in-store demonstrations - our staff will be more than happy to assist you with your requirements, whether it be advice on selecting a PC for your home or business, a peripheral device, or even special discounted software for students. Whatever your needs we can help you.

Our customers always comes first!

Software Warehouse's success can be 100% attributed to the staff and the genuinely friendly atmosphere created at Software Warehouse. In any business the people are the most important attribute. We at Software Warehouse recognise this fact, which is why when we designed our new building, (see left) we incorporated many features to help create a friendly and motivated atmosphere. These include a restaurant, a gym, and squash courts. If staff feel good about their work that can only be reflected in their approach to you, the customer. Remember no matter how fast we grow we never forget who is most important - you the customer.



Our new building is well underway to cope with rapid growth!

We now have over 60 fully trained sales staff waiting to help you!



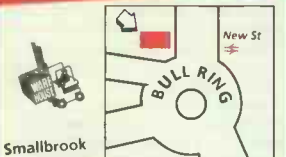
To Order By Telephone Call **01675 466467**

For terms & conditions, see page 2.



Store

BIRMINGHAM



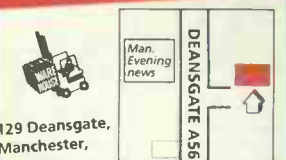
Smallbrook Queensway, Birmingham, B5 4JL
Store Manager: Manoj Virdee
TEL: 0121 643 2325 FAX: 0121 6433664

GLASGOW



107-9 West George St. Glasgow, G2 1QR
Store Manager: Jim Muirhead
TEL: 0141 221 0617 FAX: 0141 226 8864

MANCHESTER



129 Deansgate, Manchester, M3 3WR
Store Manager: David Wilson
TEL: 0161 831 7779 FAX 0161 839 9353

Why not visit

Computer Specialist

WAREHOUSE

MEET THE COMPANY

and award-winning our stores & on the Net!

THIS MONTHS FEATURED STORE: SOUTHAMPTON



9 Castle Way,
Southampton
TEL: 01703 232 978
FAX: 01703 234 894

This exciting new store offers clear and useful advice at all levels of technical support, creating a relaxed, friendly atmosphere where the staff - Raj, Alison, Steve and James are approachable and happy to help.

The Southampton store is very accessible with a car park for convenient on and off loading, a bus stop for those who take advantage of public transport and even more the Southampton store is situated close to the centre of the city. So pop in and they will be happy to supply you with a smile.



TRY OUT a PC IN-STORE!



Try out all the unique time saving benefits of the Northwood range by visiting any of our stores. Here you can receive a full demonstration prior to purchasing. See how useful a Zip Drive could be to you, and see how fast a 24 speed CD-ROM drive is! Or check out the incredible value for money of the new Tashika PCs, and see which one you would prefer.

Personal finance and business leasing can be both sorted out in a matter of minutes, and our staff will be happy to give details on request for the package to suit you. You can also experience the Spacestation PCTV phenomenon which connects to your TV and enables you to surf the Internet using a remote keyboard, we can provide you with connection to Softnet, one of the fastest internet service providers too. Just plug in, switch on and go! It really is that easy! Contact any of our stores and our friendly sales staff will be more than happy to give you a demonstration and help you choose the PC that's right for you.



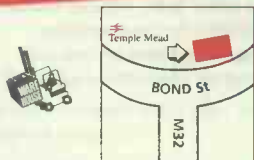
Tashika



We now have over 60 fully trained sales staff ready to help you

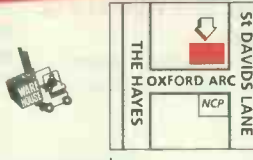
located all over the UK!

BRISTOL



50 Bond St.
Bristol, BS1 3LZ
Store Manager: Steve Elias
TEL: 0117 930 4804 FAX 0117 930 4704

CARDIFF



1-5 Oxford Arcade,
Cardiff. CF1 2DT
Store Manager: Phil Hovestadt
TEL: 01222 224 858 FAX 01222 224 895

COLESHILL



6 Roman Way
Coleshill
Warks B46 1HE
Store Manager: David Mason
TEL: 01675 466 467 FAX 01675 466 460

CROYDON



2 Norfolk House
Wellesley Rd.
Croydon CRO 1LH
Store Manager: Alan Glaser
TEL: 0181 649 7800 FAX 0181 649 8384

LEEDS



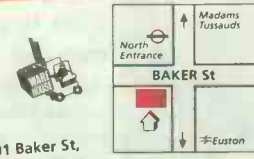
28 Eastgate,
Leeds, LS2 7JL
Store Manager: Martin Sharp
TEL: 0113 244 8540 FAX 0133 2448510

LONDON



Centrepoint
Building,
20-21
Saint Giles High St.
London, WC2
Store Manager: Mick Griffin
TEL: 0171 836 0599 FAX 0171 379 6895

LONDON NORTH



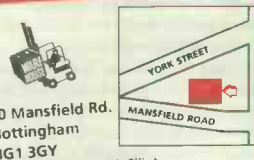
201 Baker St,
London, NW1
Store Manager: Alan Glaser
TEL: 0171 224 4111 FAX 0171 224 4114

LONDON WEST



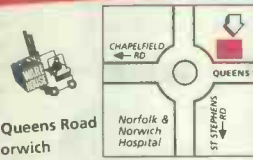
The Gyrotory,
Hanger La. London, W5 1EE
Store Manager: Satpal Dhaliwal
TEL: 0181 810 7770 FAX 0181 810 7771

NOTTINGHAM



70 Mansfield Rd.
Nottingham
NG1 3GY
Store Manager: Keith Elliot
TEL: 0115 948 1910 FAX 0115 941 1791

NORWICH



2 Queens Road
Norwich
NR1 3PR
Store Manager: David Youngs
Tel: 01603 219 922 Fax: 01603 627 635

READING



93 Caversham Rd.
Reading, RG1 8AN
Store Manager: Adrian Boyd
TEL: 0118 956 8686 FAX 0118 956 1583

SOUTHAMPTON



9 Castle Way
Southampton.
SO14 2BX
Store Manager: Raj Sukhdev
TEL: 01703 232 978 FAX 01703 234 894

one of our stores! 9am - 6pm Mon to Fri 9am - 5pm Sat

Price Pledge

We will beat any advertised price on any identical product. Subject to terms & conditions on page 2.

Free Gift

With every order you are entitled to a free gift. See page 2 for details.

Order by 8pm

Barring system failure, if you order an in-stock item by 8pm (Mon-Fri) you will receive your order next working day.

Next-day £6⁹⁵

We do not charge a premium for next-day delivery. All small in-stock items are delivered next working day for £6.95 + VAT. Subject to terms & conditions on page 2.

Huge Stocks

Our aim is to fulfil 95% of orders from stock. Our financial stability ensures that we hold a minimum of 40,000 items in-stock.

Open 7 Days

Mail-order lines are open 7 days a week 8am to 8pm Mon to Fri and 9pm to 5pm Saturday and Sunday.

No.1 Service

We have won more awards for products and services than any other software mail-order company.

Eve Administration

5



Order by telephone 01675 466 467 Order by fax 01675 466 460

FaxFacts 0891 518 060*

*See page 2 for details

Internet site www.software-warehouse.co.uk/

Unit 6 Roman Way
Coleshill Industrial Estate
Coleshill, Warks B46 1HG

SoftNET - an Internet connection with M.U.S.C.L.E.S.

Seven **STRONG** reasons to get
connected with SoftNET

Multiple E-Mail addresses
No limit - share the account with family or colleagues!

Unlimited usage
With SoftNET £8.00 per month plus VAT is all you need to pay. Regardless of how many hours you spend surfing the Net or sending or receiving e-mail you pay only £8.00 plus local BT call charges. There are no hidden charges with SoftNET.

Support - 24 hours x 365 days
The Internet is a 24 hour medium so you need 24 hour support. We believe it is vital to have UK-based technical support available whenever you need it. SoftNET support staff are on hand 24 hours a day, 365 days a year to offer advice and help solve any problems you may have.

Competitive connection rates
From just £8 per month, SoftNet offers incredible value!

Local call rates for 100% of UK
No matter where you live or work you can access the Internet via the SoftNET 0345 (local call) number. Whatever your location, your software always dials the same local number - guaranteeing you low call charges.

Exremely fast + resilient network
SoftNet is the fastest in the UK - its official!
With a financial investment, now over 6 million in communications hardware, nobody matches the speed and resilience of SoftNET in the UK!

Simple connection
Call 01675 466 467 for your FREE CD now - It's that easy!

What our customers say about SoftNET

"I use it two hours every night
and I have never had an engaged
tone yet"

Mr. Livingston, Bristol

"I tried Compuserve and others
and I didn't like all the hidden
charges...all the extras on top of
the hourly rate."

Mr. White, Birmingham

"Technical support is excellent if I
ever have any problems"

Mr. Sayer, London

"Time after time people connect
to SoftNET for competitive
pricing, simplicity of use and
unmatched connection speeds"

J.B. - Electronic Commerce Manager,
Software Warehouse



Did you know BT
charges are less
than 1p per
minute!

Using softNET's 0345 number you will only pay the following telephone charges: 0.9p per minute all weekend, 3.4 pence per minute peak, 1.4 pence off peak during the week. Also you can dial BT on 150 and specify your softNET 0345 number as a frequently used number and saving you an extra 10%! Frequently used numbers discount is now a FREE service from BT.

FREE Software when you subscribe to SoftNET

With every copy of SoftNET you will receive Microsoft Explorer 3.0 Internet Browser and Starfish Internet Utilities absolutely FREE.



Low Monthly Access Charges

softNET & Software Warehouse only

Payment Frequency	Billed Amount	Monthly Equivalent
Annual Payment	£96 plus VAT	£8 plus VAT
Quarterly Payment	£25.50 plus VAT	£8.50 plus VAT
Monthly Payment	£10 plus VAT	£10 plus VAT

How to subscribe:

Simply install your free software. It will automatically configure your modem and comms port. You'll then be prompted to enter your credit / debit card details and your preferred payment period. Your software will then dial out to a secure (non-internet) server and your account will be activated immediately. From then on simply press go to access the Internet - no passwords or phone numbers to remember! If you want to host your own homepage or website call with your server disk space requirements.

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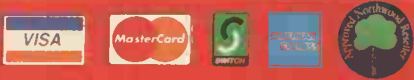
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A massive 40,000 items in stock across 8,000 different product lines. Nobody delivers faster!

To Order By Telephone call **01675 466467**



For terms & conditions, see page 2.

All prices printed in Black exclude VAT, All prices printed in Red include VAT.

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!*

*See page 2 for Price Pledge

Download Shop

makes buying software so simple it's "no sooner S.A.I.D. than done!"

Download Shop is a Software Warehouse service giving you a new way of buying software. At "www.downloadshop.co.uk" you are able to buy and receive your software at the touch of a button. Software Warehouse are always at the forefront of the software industry, and are delighted to be the first in the UK to launch a method of downloading software over the Internet.

Q. What is Download Shop?

A. Download Shop is the new way to buy software on the Internet. Customers can enjoy the experience of buying software electronically from a wide selection of products from many of the main manufacturers.

Q. How does it work?

A. You, the end user, access the web-site at www.downloadshop.co.uk and select the item to be purchased. Once selected, an encrypted version is downloaded to your hard disk. Credit card details will then be requested and once these have been cleared the product is then decrypted and ready for use. It's as easy as that!

Q. Is it safe?

A. The highest levels of encryption are used to ensure that credit card details cannot be accessed or tampered with in any way by third parties. With this high level of security and ease of use, electronic commerce is set to explode into the 21st century.

Q. What are the benefits?

A. Buying from Download Shop gives up to 40% off the price of the boxed product (no manual provided). It is also available 24 hours a day, 365 days a year - a great way of obtaining the latest versions!

Secure transaction
Using the highest levels of encryption available!

Availability
Get the latest versions the minute you need them!

ImmEDIATE delivery
Why wait for the stores to open!

Discounted prices
Up to 40% off boxed product prices!

NOW LIVE!

The first software download shop in the UK

Up to **40% OFF** usual price!

Price Pledge

We will beat any advertised price on any identical product. Subject to terms & conditions on page 2.

Free Gift

With every order you are entitled to a free gift. See page 2 for details.

Order by 8pm

Barring system failure, if you order an in-stock item by 8pm (Mon-Fri) you will receive your order next working day.

Next-day £6⁵⁵

We do not charge a premium for next-day delivery. All small in-stock items are delivered next working day for £6.55 + VAT. Subject to terms & conditions on page 2.

Huge Stocks

Our aim is to fulfil 95% of orders from stock. Our financial stability ensures that we hold a minimum of 40,000 items in-stock.

Open 7 Days

Mail-order lines are open 7 days a week 8am to 8pm Mon to Fri and 9pm to 5pm Saturday and Sunday.

No.1 Service

We have won more awards for products and services than any other software mail-order company.

Dave
Admin

www.downloadshop.co.uk

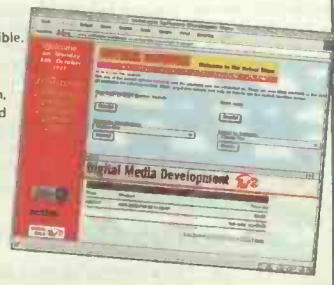
Have you visited our Web site lately?



If not, you're missing 24 hour ordering, fax-facts information and exclusive offers! Software Warehouse make online buying and browsing easy!

software-warehouse.co.uk has already proved to be a successful means of ordering software over the Internet. One or more items can be selected and put in a shopping basket, which can then be paid for by credit card and delivered next day in most of the UK. Order any hour of the day or night!

Much time and effort has been put in to make sure software-warehouse.co.uk is as informative as possible. To achieve this, we at Software Warehouse have instigated the method known as "fax-facts". Each product has a fax fact number which, when typed in, gives the end user the option of finding out detailed information on many of our products. This has enabled end users to find out much about products before making a purchase.



- 24 hour ordering
- Order by 4 pm, get your delivery next day
- Fax-facts detailed information on many products
- Many exclusive offers
- Register for a free catalogue
- Search thousands of computer products

www.software-warehouse.co.uk

*Next-day delivery from £6⁵⁵ E&OE. All prices exclude delivery, see page 2 for Terms & Conditions.

Order by telephone 01675 466 467 Order by fax 01675 466 460

FaxFacts 0891 518 060*

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Internet site www.software-warehouse.co.uk/

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Coleshill, Warwick B46 1HG

All prices printed in Black exclude VAT, All prices printed in Red include VAT.

EVERYTHING FOR YOUR PC - NEXT DAY!

4 Offers for all!

1 Year Internet access Only £96^{+VAT}

Softnet is the UK's fastest service, and is fully backed by Software Warehouse - see page 6 for details. All connection software is pre-installed and setup. You plug the modem cable into your BT socket, double-click the Internet Explorer icon and you're surfing! For one whole year you will be able to surf the net for free, only having to pay your local BT charges. We even set up an Email address for you and at the end of your first year you will be able to extend your connection for only £8 a month. As we personalise your Internet account for you, this option is not available from stock, but delivery should be no longer than 3 working days.

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Now with 33.6K Fax / Modem as standard



The Tashika Multimedia PC offers full multimedia specification at a ground-breaking price. Included are 32 Wavetable Sound, an 8 speed CD-ROM drive and quality 25 Watt stereo speakers. The super-powerful AMD K6 166MHz MMX processor delivers lightning performance for multimedia business and leisure software. Windows 95 and Lotus SmartSuite are included and thanks to the Tashika 4 year warranty, you can buy with absolute confidence. As with all Tashika products you can rest assured - performance and quality are top of the priority list. Compare Tashika with the competition and we think you'll find you can't buy better!



FREE LOTUS SMARTSUITE INCLUDING:
• LOTUS 123 • LOTUS WORD PRO • LOTUS FREELANCE •
LOTUS APPROACH • LOTUS ORGANIZER

LOWEST PRICES GUARANTEED*

TASHIKA MULTIMEDIA

- AMD K6 166MMX Processor
- 16Mb EDO 60ns SIMM Memory
- 2.1Gb E-IDE Hard Drive
- 24 Speed CD-ROM Drive
- 14" SVGA MPRII Colour Monitor
- 2Mb PCI VGA Card
- 32 Wavetable Soundcard
- Stereo Speakers
- 3.5" 1.44Mb Floppy Drive
- 512K Pipeline Burst Cache
- Windows 95 Keyboard & Mouse
- Microsoft Windows 95
- Lotus SmartSuite
- 4 Year Warranty (1 Year on-site then 3 years labour only)
- And now with 33.6K Fax Modem

ONLY £25⁴⁵ per month**

Next-day Delivery!
Subject to availability.

Tashika
£680⁰⁰ Inc. VAT £799.00
or choose low-cost personal finance

3

Includes 200MHz MMX K6 processor



LOWEST PRICES GUARANTEED*

With the AMD K6 200MHz MMX processor and 32Mb RAM, the Tashika Multimedia PRO gives screaming performance, at a price you'll want to shout about! What's more, there's a 24 speed Panasonic CD drive, 32 wavetable sound, and subwoofer speaker system.

As with the Tashika Multimedia, you get Lotus SmartSuite, and the reassurance of Tashika's 4 year warranty - with one year parts and labour on site, and three years return to base labour warranty. As an extra bonus, you also get Dorling Kindersley's World Reference Atlas on CD. We're so confident that our price is right, that we will beat any price for an identical specification, *(usual Price Pledge terms apply, see page 2 for details).



FREE LOTUS SMARTSUITE INCLUDING:
• LOTUS 123 • LOTUS WORD PRO • LOTUS FREELANCE
• LOTUS APPROACH • LOTUS ORGANIZER • DK WORLD ATLAS



TASHIKA MULTIMEDIA PRO

- AMD K6 200MMX Processor
- 32Mb EDO 60ns SIMM Memory
- 3.5Gb E-IDE Hard Drive
- 24 Speed CD-ROM Drive
- 14" SVGA MPRII Colour Monitor
- 4Mb PCI VGA Card
- 32 Wavetable Soundcard
- Sub-woofer Stereo Speakers
- 3.5" 1.44Mb Floppy Drive
- 512K Pipeline Burst Cache
- Windows 95 Keyboard & Mouse
- Microsoft Windows 95
- Lotus SmartSuite
- Dorling Kindersley World Atlas
- 4 Year Warranty (1 Year on-site then 3 years labour only)
- And now with 33.6K Fax Modem

ONLY £31⁶⁸ per month**

Tashika
£850²¹ Inc. VAT £999.00
or choose low-cost personal finance

A massive 40,000 items in stock across 8,000 different product lines. Nobody delivers faster!

To Order By Telephone Call 01675 468 333



For terms & conditions, see page 2.



IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!*

*See page 2 for Price Pledge

Ready to Ship!

2 The complete home office bundle!



Tashika 166MHz MMX Multimedia PC

- AMD K6 166MMX Processor
- 16Mb EDO RAM & 512K Pipeline Burst Cache
- 2.1Gb E-IDE Hard Drive • 24 Speed CD-ROM Drive
- 2Mb PCI VGA Card • 3.5" 1.44Mb Floppy Drive
- Windows 95 Keyboard & Mouse
- 32 Wavetable Soundcard & Stereo Speakers
- Microsoft Windows 95 and Lotus SmartSuite
- 4 Year Warranty (1 Year on-site then 3 years labour only)



LOWEST PRICES GUARANTEED*

ONLY £31⁶⁸ per month**

£850²¹ Inc. VAT £999.00

or choose low-cost personal finance

*We're so confident that our price is right, that we will beat any price for an identical specification, (usual Price Pledge terms apply, see page 2 for details).

4 Tashika Family PC Bundle!

- **Tashika 200MHz MMX computer**
Powerful multimedia system featuring the Pro specification (see left)
- + **New Lexmark Colour Jetprinter**
Full colour photo-realistic printing and upto 3.5 pages per minute!
- + **Cobra 4 Joystick**
All-action games joystick featuring multiple fire buttons
- + **Microsoft Home Essentials**
Best-selling Microsoft suite including Microsoft Word 97, Microsoft Works 4.0, Microsoft Encarta 97 World Atlas, Microsoft Money 97, Microsoft Football, Microsoft Internet Explorer & 1 month Microsoft Network access
- + **DK Ultimate Human Body for MMX**
- + **DK First Amazing World Explorer**
- + **Command & Conquer**
- + **Toon Struck**



Buy Now! Pay nothing until May '98
Call for details

£1054⁴⁷ Inc. VAT £1239

Buy now, pay nothing until May 1998!

Repayment example: PC cash price £1256.63 (inc delivery £15 +vat). Pay whole amount on or before due payment date interest free, or pay 36 monthly payments of £47.73. Total amount payable £1718.28. APR 23.9%. Written quotations upon request. Finance subject to status.

Buying a Tashika PC

Software. The Lotus SmartSuite 96 and DK World Reference Atlas are supplied on CD with online documentation ready for you to install. All photos are for illustration purposes only.

Pricing. All prices exclude delivery, which is £15 plus VAT for a single system. Tashika PC's are normally shipped the same day you place your order, for next day delivery. As well as accepting credit cards, cheques and of course good old fashion cash, we are also able to arrange personal finance. The rates for personal finance shown with the PCs include delivery and VAT. Our Personal Finance Schemes are provided by Chartered Trusts.

**Typical Personal Finance Example: Cash price including delivery and VAT £816.63. Deposit of £81.66 followed by 36 monthly payments of £25.45 APR 15.9%. Total price payable including deposit £997.86. Finance subject to status. Written details available on request.

Price Pledge
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Order by 8pm
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No.1 Service
We have won more awards for products and services than any other software mail-order company.

Andy Sales



To Order By Telephone Call **01675 468 333**



Northwood. Professional

What makes a Northwood Personal Computer different?

Northwood Personal Computers are designed from the ground up to save you time. Northwood saves you time starting work, saving your work, backing up your work and while you work! In fact every Northwood Personal Computer has over 90 time saving features built-in. Read on, and see the unique features that make Northwood the most productive PC choice you can make!



Omega Zip Drive!

The Aurora Multimedia and all Sovereign models include a genuine Omega Zip Drive.

And what's more, we've integrated the powerful Omega software into the Northwood Utility panel so that with just a few keystrokes you can back-up & protect your data.



With a seek time of less than 29ms, its performance feels similar to that of a hard drive. In fact, it's that fast you can even run applications directly from it! Best of all, with Zip drives so widely used either internally or externally, you can easily transport up to 100Mb of data on one disk and use it almost anywhere.



Genuine Microsoft IntelliMouse

In today's graphics intensive applications and when surfing the 'Net, the accuracy and reliability of your pointing device is vital. The Microsoft IntelliMouse not only offers the ultimate in reliability, comfort and precision, but also features a unique wheel located between the two buttons which allows you to quickly zoom and scroll without clicking the mouse or moving the cursor. Mastered in seconds this unique device greatly enhances your ability to quickly navigate documents and Web pages.

Microsoft

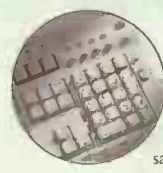
To guarantee the mouse works perfectly on any desktop we include a quality Northwood Mousemat too!



Northwood Essential Utility Suite!

Keeping you running securely and at full speed is the essence of the Northwood Utility Suite.

To do just that, every Northwood system integrates the full versions of PC-cillin, RescueMe! and WinCheckit Diagnostics (worth over £115). Essential features include: Automatic virus scan of files as they are loaded via Zip drive, floppy or via the Internet. Full hardware and software trouble shooting. Locate, remove & archive unwanted apps and files. Instantly restore previous system or factory settings after accidental overwrite or system crash.



Northwood TimeSaver 2000 116 Key Keyboard -

With twelve unique extra time-saving keys, the Northwood TS2000 Keyboard is a genuine time saver. Eight of these unique keys are customisable, however our factory pre-sets include one-button sleep and resume, a calculator, volume controls and instant access to the Northwood Utility Suite.

With Aurora models the hot keys allow you to take full control of audio CDs, next track, skip, stop etc. The keyboard has also been manufactured to the highest specification. It features a three layer membrane and separate keycap plungers offering the ultimate in response and feel, and extending keyboard life beyond 200,000,000 depressions per key!

The 'Best-of-Breed' PC



Inside out, Northwood makes sense!

Northwood only use the finest components in each personal computer. The graphics cards, hard drives, CD-ROM drives, memory and monitors are all the best in their class, even the mouse is Microsoft! So whichever Northwood model you choose, you can be sure of the finest quality system. And that's not all...

Northwood Pro-Care Service and Support

Should you need advice on your Northwood system our free support hotline is open Monday through Friday 9am 'til 6pm. In the rare event that our engineers can't solve your problems over the phone, we will arrange at your convenience (where possible) either an AM or PM next working day site visit.

Well connected

To ensure you can connect with just about any peripheral device we build-in 3 Spare PCI slots, 2/3 Spare 16 Bit ISA Slots, 2 x 16550 UART Serial Ports, 1 x Enhanced EPP Parallel Port in addition to Infra-red and USB Port options.

Intel Processor and Chipset

To maximise system performance and guarantee compatibility, all our Personal Computers feature genuine Intel Pentium Processors and Chipsets.

Low Radiation Monitors

As you can see, all Northwood monitors are easy on the eye. And thanks to the latest display enhancement technology, you'll get rich photo-realistic colours, pin-sharp resolution and absolutely stable non-interlaced graphics all at lightning speeds. All Northwood monitors are fully EPA compliant.

Fully Upgradeable Systems

The useful lifetime of your Northwood PC can be extended almost indefinitely! We have built in support for the full range of today's Intel MMX™ Processors and thanks to a ZIP socket you can upgrade to tomorrow's technology when it arrives. Memory is upgradeable to 256Mb with SIMM and DIMM modules. Each system can be upgraded with a USB port if required.

Auto Sleep and Resume Technology

Why wait over a minute for your system to boot every morning? Why waste power when you're away from your desk during the day? With Northwood's Auto Sleep and Resume technology your personal computer after a period of non-use can automatically enter sleep mode and run at as low as 4watts per hour. Alternatively you can simply hit the Sleep button on your TS2000 keyboard. A single key-stroke will bring your system back to life in under one second.

The professional choice - it's official!



This system from Northwood features the new Pentium II 266MHz processor, along with 64Mb EDO RAM, a 6.4Gb hard drive, 24x CD-ROM drive and even a built-in Zip drive. The Sovereign also sports a brand new Hercules Stingray 128bit graphics card (a top-notch 2D and 3D card based around the 3EFX chip), a pair of decent Labtec speakers, a

Microsoft IntelliMouse, and a 17" monitor (with 0.28mm dot pitch). The Sovereign also looks the part. The side of the tower case slides off to offer you easy access to the bones of the system and the drives on the front can be hidden with a slide-down door. When this has been attempted on previous machines, the effect has verged on the tacky, but this time it works in both a practical and stylish manner.

Performance wise, this is the best that you'll get on your desktop if you want to run Windows. Apple claimed that its

system would run Photoshop twice as fast as PII 266 and this claim was substantiated on processor-intensive actions, but this has as much to do with Photoshop coding as it does with the systems. When you also take into account the price difference, the Sovereign really shows its value and if you're after a new PC, you can buy this with complete peace of mind.

Computer Arts Magazine
Issue 10, October 1997



10



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The Aurora Workstation model is ideal for business applications, with 32Mb RAM, and your choice of Intel processor and Ultra-ATA hard drive from the table opposite.

The Aurora Multimedia range goes even further, with the addition of an Iomega Zip drive, AWE 64 sound, a 56k modem and stereo speakers. Compare our systems with our competitors, and we're sure you'll find Northwood offers great value for money.

Workstation specifications

- Intel MMX processor
- Ultra-ATA Hard Drive
- 32Mb EDO Memory
- 2Mb PCI Graphics Card
- 14" SVGA Colour Monitor
1024 x 768 Ni, .28 dot pitch, MPR2
- 24 Speed Panasonic CD-ROM Drive
- 512Kb Pipeline Burst Cache
- Northwood TS2000 Win 95 Keyboard
- MS IntelliMouse and Northwood Mouse Mat
- Northwood Desktop Case
- Microsoft Windows 95
- Northwood Essential Utilities
- 1st Year On Site Pro-Care Warranty plus 4 Years return-to-base labour only



Multimedia specifications

- Intel MMX processor
- Ultra-ATA Hard Drive
- 430TX Motherboard with 512Kb Pipeline Burst Cache
- 32Mb SDRAM Memory
- 4Mb PCI Graphics Card
- 15" Digital Control SVGA Colour Monitor
1280 x 1024 Ni, .28 dot pitch, MPR2
- Internal Iomega 100Mb Zip Drive
- 24 Speed Panasonic CD-ROM Drive
- Creative Labs Awe 64 Sound Card
- Labtec 1025 Amplified Speakers
- 56K Modem • Northwood Midi Tower Case
- Northwood TS2000 Win 95 Keyboard
- MS IntelliMouse and Northwood Mouse Mat
- Microsoft Windows 95
- Northwood Essential Utilities
- 1st Year On Site Pro-Care Warranty plus 4 Years return-to-base labour only



Northwood Aurora Pricing

		Hard Drive	3.5Gb	4.3Gb	6.4Gb
Workstation	Processor				
	Intel Pentium 166MHz with MMX™		£769 Inc. VAT £905.58	£794 Inc. VAT £932.95	£874 Inc. VAT £1026.95
Multimedia	Processor				
	Intel Pentium 200MHz with MMX™		£844 Inc. VAT £991.70	£869 Inc. VAT £1021.08	£949 Inc. VAT £1115.08
Workstation	Processor				
	Intel Pentium 200MHz with MMX™		£1,199 Inc. VAT £1408.83	£1,224 Inc. VAT £1430.20	£1,304 Inc. VAT £1532.20
Multimedia	Processor				
	Intel Pentium 233MHz with MMX™		£1,259 Inc. VAT £1479.33	£1,284 Inc. VAT £1508.70	£1,364 Inc. VAT £1602.70

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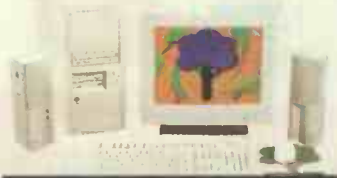
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Northwood Sovereign



The Northwood Sovereign range has been specially created to meet the needs of the power user. With AGP graphics, SDRAM memory, and the latest Intel chipset, these machines offer unrivalled performance. And with Northwood's outstanding range of added features, we think you'll find these systems hard to beat. Just check out the specifications below.

Multimedia specifications

- Intel Pentium II processor
- Ultra-ATA Hard Drive
- 440LX Motherboard with AGP
- 32Mb SDRAM Memory
- 4Mb AGP Graphics Card
- 15" Digital Control SVGA Colour Monitor
1280 x 1024 Ni, .28 dot pitch, MPR2
- Internal Iomega 100Mb Zip Drive
- 24 Speed Panasonic CD-ROM Drive
- Creative Labs Awe 64 Sound Card
- Labtec 1025 Amplified Speakers
- 56K Modem • Microsoft Windows 95
- Northwood Midi Tower Case
- Northwood TS2000 Win 95 Keyboard
- MS IntelliMouse and Northwood Mouse Mat
- Northwood Essential Utilities
- 1st Year On Site Pro-Care Warranty plus 4 Years return-to-base labour only



Professional specifications

- Intel Pentium II processor
- Ultra-ATA Hard Drive
- 440LX Motherboard with AGP
- 64Mb SDRAM Memory
- 8Mb AGP Graphics Card
- 17" Digital Control SVGA Colour Monitor
1280 x 1024 Ni, .28 dot pitch, MPR2
- Internal Iomega 100Mb Zip Drive
- 24 Speed Panasonic CD-ROM Drive
- Creative Labs Awe 64 Sound Card
- Labtec 2612 Amplified Speakers with Sub Woofer
- 56K Modem • Microsoft Windows 95
- Northwood Midi Tower Case
- Northwood TS2000 Win 95 Keyboard
- MS IntelliMouse and Northwood Mouse Mat
- Northwood Essential Utilities
- 1st Year On Site Pro-Care Warranty plus 4 Years return-to-base labour only



Northwood Sovereign Pricing

		Hard Drive	4.3Gb	6.4Gb	8.4Gb
Multimedia	Processor				
	Intel Pentium PII 233MHz		£1,399 Inc. VAT £1643.83	£1,479 Inc. VAT £1737.83	£1,649 Inc. VAT £1937.58
Professional	Processor				
	Intel Pentium PII 266MHz		£1,489 Inc. VAT £1749.58	£1,569 Inc. VAT £1843.58	£1,739 Inc. VAT £2043.33
Multimedia	Processor				
	Intel Pentium PII 233MHz		£1,769 Inc. VAT £2078.58	£1,849 Inc. VAT £2172.58	£2,019 Inc. VAT £2372.33
Professional	Processor				
	Intel Pentium PII 266MHz		£1,859 Inc. VAT £2184.33	£1,939 Inc. VAT £2278.33	£2,109 Inc. VAT £2478.08
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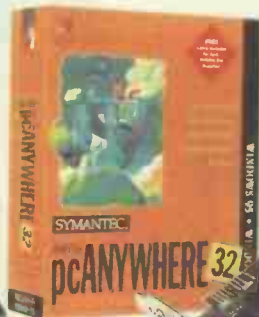
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- The right place for thinking to the max
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- Pentium 166MMX standard
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- PC CardBus



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TI Extensa 355

The Extensa 355 represents outstanding value for money and boasts a fast Pentium 133MHz processor and 16MB RAM for extraordinary performance. A large 1.4GB hard disk drive with excellent storage space and the bright 11.3" DSTN display delivers impressive graphics and multimedia.

- Pentium 133MHz, TCC processor
- 32-Bit PCI bus architecture
- 11.3" SVGA DSTN display
- 1.4GB, hard drive
- 3 Hours battery life
- 16 Bit SoundBlaster Pro compatible audio system
- 1 year worldwide warranty

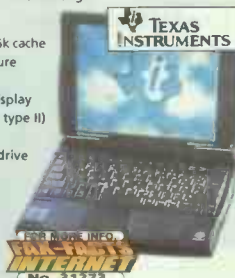


(Including VAT £938.83)
TEX029 Extensa 355 **£799**

TI Extensa 620CD

The Extensa 620 is TI's best value Pentium 133MHz notebook. With 16-bit sound and full PCI architecture it allows faster and more efficient processing and data transfer to give it a performance edge.

- Pentium 133MHz, 256k cache
- 16MB, PCI architecture
- 1.35GB hard disk
- 11.3" SVGA DSTN display
- 32-bit CardBus (two type II)
- Zoom video port
- Fixed 10X CD-ROM drive & external FDD
- Windows 95
- 1 Year worldwide warranty



(Including VAT £1232.58)
TEX027 TI Extensa 620CD **£1049**

TI Extensa 620CDT

Superb value multimedia notebook with 11.3" SVGA TFT display and full PCI architecture. The Extensa 620CDT will race through multimedia applications and features Lithium Ion battery technology to maximise battery life.

- Pentium 133MHz, 256k cache
- 16MB EDO RAM, PCI architecture
- 1.35GB Hard Disk
- Modular 10X CD-ROM drive & External FDD
- 32-bit CardBus (two type II)
- Zoom video port
- Windows 95
- 1Yr worldwide warranty



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TOSHIBA Libretto 50CT

A shining example of miniaturisation, the Toshiba Libretto 50 CT offers a full notebook specification in an amazingly small handheld format, with a Pentium Processor, 16MB of memory an 810 Mi.B HDD, Sound, a 6.1" TFT LCD infrared, a PC Card slot and optional Mini CardStation, Libretto 50CT is ready for anything Windows 95 can throw at it.



Runs Full Version Windows 95!

Features

- 75 MHz 2.9v Pentium CPU
- 810Mi.B hard disk drive
- 640 x 480 resolution 6.1" colour TFT display
- High Performance EDO RAM (16MB std/ 32MB max)
- High performance CE/T graphics controller with 1MB VRAM
- Dimensions 5cmx11cm
- High Capacity Li-Ion battery
- IrDA v 1.0 compliant (115.2 Kbps) Infra red port
- Mini CardStation docking Capability
- Built-in 16-bit Sound System and speaker
- One year international warranty

Software

- Windows 95
- PC Card card Er socket services
- SVGA Video driver
- MousePoint driver
- Sound System Software
- Hibernation mode
- Power saving utility
- Power-on password security
- PnP Flash BIOS



(Including VAT £1474.63)
TOS066 Toshiba Libretto 50CT **£1255**

Psion Siena

The Psion Siena packs the power and organising functionality of the award-winning Psion Series 3 range of palmtop computers, into a unit that fits easily into a shirt pocket.

With two memory options (512K and 1Mb - enough for over 250 pages of A4 text), it will store all the information you are ever likely to need, and retrieve it in an instant. Psion Siena's built-in communications facilities include Infra red data transfer allowing you to exchange information "wirelessly" with other Sienas at a distance of up to one metre, and industry standard RS232 communications for direct connection to PCs and printers.



Features

- Agenda - Calendar, appointments, alarms, reminders, anniversaries, to-do lists
- Database - Address book or any other information
- Word processor Outlining, styles, PC compatible
- Time & alarms
- World Time
- Calculator - simple and scientific calculations
- Spreadsheet - PC compatible spreadsheets & graphs
- IR - Infrared data transfer

- (Including VAT £117.49)
PSI017 Psion Siena 512k **£99⁹⁹**
- (Including VAT £175.08)
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- (Including VAT £269.08)
PSI019 Psion 3C-Mb BACKLIT **£229**
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PSI051 Psion Series 5C 4Mb **£332⁹⁵**
- (Including VAT £468.83)
PSI052 Psion Series 5C 8Mb **£399**

3Com Palm Pilot

Palm Pilot Professional and Palm Pilot Personal

The family of PalmPilot connected organisers, designed as companion products to personal computers, enables mobile users to manage their schedule, personal information, and communications both remotely and on their desktops. PalmPilot's HotSync™ functionality enables users to synchronise all of their e-mail, contact, scheduling, and personal information with a personal computer at the touch of a button. The two new models maintain U.S. Robotics' design objective of providing maximum functionality at compelling consumer price points. PalmPilot Professional includes pocket e-mail software, tracking software, a

backlit screen, enhanced PalmPilot PIM software, and 1MB of memory. The PalmPilot Personal features the same management software, backlit screen, enhanced PIM software, and includes 512K of memory. The PalmPilot is based on the Palm Operating System (Palm OS), a handheld computer operating system platform that enables low-cost, low power, small form-factor devices to integrate seamlessly with desktop personal computers. The Palm OS features highly efficient operating system software for the handheld, and HotSync, the desktop software that manages synchronisation of the handheld and the PC.

- (Including VAT £269.08)
USR035 Palm Pilot Professional **£229**
- (Including VAT £186.83)
USR034 Palm Pilot Personal **£159**

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TEX025 Extensa 900 Battery Lion	£195.00
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TOS021 Tecra CardStation II	£225.00
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TOS056 Battery Pk Portege/S0660	£195.00
TOS057 Battery Pk Tecra 500/510	£195.00
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HP 320LX Palmtop



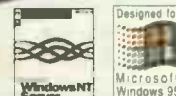
Easy to use keyboard, touch sensitive screen, pocket Microsoft Word + Excel and the ability to synchronise with your PC is just the start!

Access the latest, up-to-the-minute information via fax, email, worldwide web from the HP 300 Series palmtop PCs, wherever you may be. Fast and easy synchronization between your palmtop PC and your desktop PC. The HP 300 Series palmtop PCs are designed to allow for easy software & hardware upgradeability. The keyboard is ergonomically designed with a wide spaced to facilitate easy typing. Print directly to a PCL printer via the infrared port.

Includes

- Two 1.5v AA and one CR2032 batteries
- CD-ROM (with additional software)
- Synchron cable (for connecting to your PC)
- Docking cradle (for added convenience in connectivity, included with HP 320LX only)
- High performance Hitachi SH-3 32-bit RISC CPU running at 44MHz
- 640 x 240 pixel display (1/2 VGA)
- FSTN liquid crystal display with 4 grayscales
- Pen & Touch interface
- Backlight (HP 320LX only)
- Well spaced QWERTY keyboard layout
- Built-in serial interface for connecting to RS-232 devices
- Built-in infra-red transmitter/receiver (IrDA standard, 115K bps)
- PC Card Type II card slot (for adding memory or I/O cards)
- CompactFlash card slot (HP 320LX only)
- Audio Speaker
- Input/Output
- Optional AC adaptor F1218A: for powering and recharging

FREE Executive Carrying Case & 3 Stylus Pens



Stay in Touch



The HP 300 Series palmtop PCs incorporate a complete suite of communication software that provides mobile professionals with access to up-to-date information from a desktop PC, email, fax or even the Internet, for the mobile professional. Hook up to your Internet Service Provider or corporate email system to handle messages while you are on the road. There are times when important documents have to be sent or received immediately. With the HP 300 Series palmtop PCs, you can send and receive faxes by simply sliding in a fax/modem card and use the bFAX Pro software (included free with HP 320LX palmtop PC). Surf the World Wide Web with Microsoft's Pocket Internet Explorer which is incorporated in the ROM. Pocket versions of Windows 95 and applications like Microsoft Word and Excel, allow you to take your PC files with you. You can access, edit and create your information wherever you are.

Expandability



The HP 300 Series palmtop PC are designed to allow for easy upgradeability, whether it be ROM, memory space or peripherals. The HP 300 series palmtop PCs provide an industry standard PC Card Type II plug-in card slot. This slot can be used for adding memory or I/O cards. CompactFlash enables HP to provide their palmtop PC users with 2 industry standard storage slots in a single handheld device. This is already demonstrated in the Microsoft Windows CE based HP 320LX palmtop PC, where simultaneous use of both a fax/modem and CompactFlash memory card are supported. This is made possible only by providing a Type II PC Card slot as well as a CompactFlash slot in the same device, without compromising the form factor. With the upgradable ROM accessory, future upgrades and enhancements to the Microsoft Windows CE operating system and ROM-based applications can be quickly and easily accessed.

Specifications



HP 300LX (2-MB RAM)
HP 320LX (Backlit, 4-MB RAM, CompactFlash Card Slot)

Physical Specifications:
18.3 x 9.4 x 2.9 cm (7.2 x 3.67 x 1.1 in)
442 g (15.6 oz) with batteries

Memory:
2MB RAM (HP 300LX) - 4-MB RAM (HP 320LX)
- 5-MB ROM, upgradable
High performance Hitachi SH-3 32-bit RISC CPU running at 44 MHz

Here's what you get with this exclusive Software Warehouse offer:

- Free Executive carrying case
- Free 3 additional stylus pens

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Free 3 additional stylus pens

(Including VAT £410.08) **£349**
HW205 HP 300LX (+ 3 free stylus pens)
(Including VAT £574.58) **£489**
HW206 HP 320LX (+ 3 free stylus pens & carrying case) ..



Familiarity with Microsoft Windows 95

The user interface for Windows CE is designed to take advantage of the experienced user's comfort with the Windows 95 & NT interface. As the suite of PIM software automatically synchronizes with the Microsoft Schedule+ 7.0a, there is no need to maintain two sets of personal information data.

- The PIM software consists of:
- Microsoft Pocket Word and Excel that are designed to contain the optimal set of features from the desktop counterparts which are essential for mobile users.
 - Microsoft Pocket Internet Explorer
 - Familiar Web browser features such as Favourites, Home and Search toolbar buttons and Backward/Forward buttons are provided
 - H/PC Explorer, a desktop application that automatically detects when the palmtop PC is connected with your PC. It then starts to synchronize data between the palmtop PC and your desktop PC. H/PC Explorer allows you to manually/automatically synchronize data between Microsoft Schedule+ on your desktop and the calendars, contacts and tasks applications on your HP 300 Series palmtop PCs
 - For current HP100LX/200LX palmtop PC & HP OmniGo 100/120 users, we also provide a HP PIM Translation Utility to the HP 300 Series palmtop PC (for Appointment Book and Phonebook). This can be found on the CD-ROM

You can convert your Microsoft Excel and Word files to Microsoft Pocket Excel and Word. You can backup and restore all the data in your HP 300 Series palmtop PC to your desktop. A docking cradle (included with the HP 320 LX) initiates synchronization automatically when your HP 300 Series palmtop PC is placed in the cradle

Get in Sync



Your HP 300 Series palmtop PCs ship with H/PC Explorer, a desktop application that automatically detects when the palmtop PC is connected with your PC. It then starts to synchronize data between the palmtop PC and your desktop PC.

H/PC Explorer allows you to manually/automatically synchronize data between Microsoft Schedule+ on your desktop and the calendars, contacts and tasks applications on your HP 300 Series palmtop PCs.

For current HP100LX/200LX palmtop PC & HP OmniGo 100/120 users, we also provide a HP PIM Translation Utility to the HP 300 Series palmtop PC (for Appointment Book and Phonebook). This can be found on the CD-ROM.

You can convert your Microsoft Excel and Word files to Microsoft Pocket Excel and Word. You can backup and restore all the data in your HP 300 Series palmtop PC to your desktop. A docking cradle (included with the HP 320 LX) initiates synchronization automatically when your HP 300 Series palmtop PC is placed in the cradle.

Direct Printing



The HP 300 Series Palmtop PCs give you the convenience of printing when you are away from your office PC. Print Calendar/Tasks/Contacts listings as well as Pocket Word files via IrDA or serial port to PCL printers.

Built-In Software

- Microsoft Windows CE
- Microsoft Pocket Word
- Microsoft Pocket Excel
- Microsoft Pocket Internet Explorer
- Microsoft Pocket H/PC Explorer
- Calendar
- Contacts
- Calculator
- World Clock
- Inbox (e-mail client)
- bFAX PRO: send & receive faxes (HP 320LX)
- Remote Networking (for connecting to remote access servers)
- Tasks
- Solitaire
- Direct printing from HP Palmtop PC to HP PCL printers (from Pocket Word and Information Manager)
- Terminal application (TTY, VT-100 emulation)



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- Easy to use, in built online help - Epson Answer
- 1 year RTB Warranty

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New low cost four colour inkjet printer for the home, home office or education markets. It incorporates a single four-in-one colour ink cartridge, no need to switch between printheads and the customer achieves high quality colour and True black output at an affordable price. Incorporates Epsoms latest inkjets technologies to provide Photo printing within reach of first time user or those on a limited budget. Produces excellent results on a wide variety of media types including plain paper.

- Affordable four colour Inkjet
- Up to 720dpi colour & true black printing
- Photo Real colour as standard
- Single four colour (CMYK) ink cartridge
- UP to 3ppm black and 1.2ppm colour
- Designed exclusively for Windows



EP5180 Epson Stylus Color 300..... (Inc. VAT £124.55) **£106**

EPSON Stylus Color 800

- 1440dpi with Super MicroDot™ & Super MicroWeave™
- Windows & Mac compatible
- Optional Postscript & Network compatibility
- High capacity dual ink cartridge system.
- Optimised printing of video/digital camera images
- 1 year RTB warranty (optional 3 year on-site warranty)

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Special Offer
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HP LaserJet 6L



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HWP202 HP LaserJet 6L (Inc. VAT £273.19) **£232⁵⁰**

HP LaserJet Companion

Do more with your HP LaserJet printer! Add copy, fax, file and read capabilities with the HP LaserJet Companion. Increase your personal productivity by expanding your HP LaserJet printer's capabilities. Copy feature lets you make copies conveniently. The HP LaserJet Companion gives you the flexibility to make copies right at your desk - even with your PC off. Or from your PC make multiple copies, reductions and enlargements from 25-400%.



LaserJet 6L and monitor not included

- Features**
- Complements your PC fax solution.
 - The HP LaserJet Companion allows you to send paper documents using your PC fax. Additionally, you can print your received PC faxes on plain paper from your HP LaserJet printer. The HP LaserJet Companion is compatible with virtually every PC/fax modem on the market.
 - Filing software keeps you organised.
 - Filing software lets you create personal folders for organising and storing documents electronically on your PC.
 - Read capability increases productivity.
 - Eliminate the need to retype documents using the Included Optical Character Recognition (OCR) software.
 - Flexible and convenient solution provides exceptional value.
 - Copy, fax, file and read all in one compact, affordable device
 - Easy to set up and use.
 - No PC card required

HWP203 HP LaserJet Companion (Inc. VAT £135.13) **£115**

HP LaserJet 5M Colour

The colour printer that presents a winning image
The HP Colour LaserJet 5M printer gives your company a winning image. Vibrant colour printing lets you create impactful, informative text and graphics in your most important documents. The difference is the new HP Image Resolution Enhancement technology 1200. HP Image RET 1200 produces outstanding text, photo-realistic images and millions of solid colours. The printer is ready for your office network, with pre-installed HP JetDirect card for Ethernet and Local Talk environments, genuine Adobe™ Level 2 software and 36 Mb memory.



FOR MORE INFO FAX TAGS INTERNET No. 30723

HWP049 HP Colour LaserJet 5M (Inc. VAT £4230.00) **£3600**

HP LaserJet 4MV

If you are looking for a printer fast enough to keep up with your Windows/DO5 workgroup, yet sized to fit in to your work area then look no further. The HP LaserJet 4MV printer offers incredible performance (16ppm engine and 33MHz RISC processor). Do your best work faster than ever before.



FOR MORE INFO FAX TAGS INTERNET No. 31254

- Features:**
- Hi-speed Bi-Tronics parallel interface with IO buffering
 - HP Resolution Enhancement Technology and microfine toner produce the best 600dpi output
 - 350 sheet input capacity with two independent paper sources
 - Up to 16ppm • 600dpi with microfine toner

HWP174 HP LaserJet 4MV (Inc. VAT £2025.70) **£1724**

HWP237 HP LaserJet 4V (Inc. VAT £1391.20) **£1184**

HP LaserJet 6P

Professional, high quality printing
Great looking documents, enhanced productivity, and room to grow. Start with high resolution laser print quality, versatile paper handling and 8 page per minute speed driven by a fast processor. Add expandability and attractive pricing. What you get is the HP LaserJet 6P printer, delivering outstanding value for individual or shared use from the market leader in laser printing for the office.



- Fast business performance increases productivity
- Compatible and expandable

HWP134 HP LaserJet 6P (Inc. VAT £564.00) **£480**

HWP088 HP LaserJet 6MP (Inc. VAT £695.60) **£592**

HP LaserJet 5/5N/5M

The LaserJet 5, 5N and 5M printers combine improved performance with a wide range of features and options particularly suited to the varied needs of small workgroups.



Versatile Media Handling

The HP LaserJet 5N is equipped for Ethernet networks, the HP LaserJet 5M is aimed at mixed environments and includes Adobe Postscript type 2 printer language. The HP LaserJet 5 can be fitted with an HP JetDirect card at any time for full network connectivity.

- 600 dpi with RET and microfine toner
- 12 pages per minute print throughput
- HP Image RET 1200 for millions of colours
- HP JetAdmin printer management software
- HP PCL6 printer language
- Flexible media handling

HWP010 HP LaserJet 5 (Inc. VAT £791.95) **£674**

HWP013 HP LaserJet 5N (Inc. VAT £995.23) **£847**

HWP046 HP LaserJet 5M (Inc. VAT £1171.48) **£997**

HP LaserJet 5Si

Professional, high quality printing
The new LaserJet printer is a high-volume, high quality machine with a 24page-per-minute engine and true 600x600dpi resolution. Combined with significantly enhanced paper handling features and options, they offer far greater convenience and ease of use than ever before. "Point + Click" control and monitoring jobs and the printer itself, reduce time consuming hassles for both end-user and network administrator. Designed for heavy throughput, the 5Si features a powerful 40MHz RISC processor for superb speed and quantity printing.



- 24 page per minute throughput speed
- 600 x 600 dpi plus RET enhancement technology
- 4mb standard memory (expandable to 132mb)
- HP JetAdmin printer management software
- Modular, expandable solution
- Intelligent media handling

HWP011 HP LaserJet 5Si (Inc. VAT £1937.58) **£1649**

HWP148 HP OfficeJet 350 Fax/Copy (Including VAT £488.80) **£416**

HWP168 HP DeskJet 1600CM (Including VAT £1504.00) **£1280**

HWP088 HP LaserJet 6MP (Including VAT £695.60) **£592**

HWP013 HP LaserJet 5N (Including VAT £995.22) **£847**

HWP011 HP LaserJet 5Si (Including VAT £1937.57) **£1649**

HWP012 HP LaserJet 5Si Mx (Including VAT £2642.58) **£2249**

HWP048 HP Colour LaserJet 5 (Including VAT £3361.67) **£2861**

HWP049 HP Colour LaserJet 5M (Including VAT £4230.00) **£3600**

HWP223 HP LaserJet 5Si Mopier (Including VAT £5083.05) **£4326**

HWP224 HP LaserJet 5Si NX (Including VAT £2113.83) **£1799**

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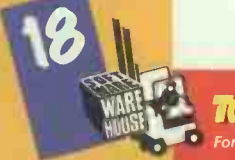
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HP Printers for your desktop

Quality printers from the DeskJet market leaders! HP DeskJet 690C+ and Photoreader

Photo-quality colour

The photo-quality printer, vibrant life-like images and crisp black. Now its easy to give every document the high impact and persuasive appeal of photographs and other graphics - in crisp black and white or vibrant full colour. The versatile HP DeskJet 690C bring professional communications capabilities to home or office. Produce reports, brochures, proposals, financial charts and graphs, banners, labels and more.

The Photo Studio contains the EasyPhoto Imaging Editing software that lets you modify your photos removing red eye, rotating images and even enhancing definition and colour. You can also use the EasyPhoto Reader to capture images in books and magazines by taking the Reader off its base and rolling it across the page.



- Features**
- Fast and easy
 - Prints on anything



HWP245 HP DeskJet 690C + Photoreader	(Inc. VAT £197.40)	£168
HWP227 HP DeskJet 690C+	(Inc. VAT £176.25)	£150
HWP196 HP DeskJet 670	(Inc. VAT £142.17)	£121

HP DeskJet 340CBI

The printer that makes any place your workplace

Whether you're travelling or working at home, the HP DeskJet 340 for the notebook PC and PowerBook gives you the flexibility to print wherever you need to print. You get crisp, high-quality black plus easy-to-add colour with the HP Colour Kit. It offers portable, full-featured printing of uncompromising quality.



HWP165 HP DeskJet 340CBI	(Inc. VAT £195.05)	£166
HWP001 HP DeskJet 340C	(Inc. VAT £169.20)	£144

HP DeskJet 1100C

Professional series printers



The HP 1100C printer is the ideal printer for owners and managers of small or medium sized companies who wish to print high-impact documents in a wide variety of formats. No additional equipment is required: the extensive media flexibility offered by this new colour printer means that time-consuming cut and paste or expensive external printing services can be eliminated. The users are free to choose paper formats that best suit their needs - postcards, booklets, banners, mirror-images or even extra-large posters

are all easy to produce using the smart software features that come with the printer driver, including HP ZoomSmart scaling software for automatic document sizing.

HWP247 HP DeskJet 1100C	(Inc. VAT £398.33)	£339
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HP OfficeJet Pro 1150C

The all-in-one, all-in-colour print, copy, scan, solution

The HP OfficeJet Pro gives you professional quality colour and razor-sharp black printing, copying and scanning, all together in one space saving unit. Built-in HP Smart technologies and included software make it all easy, reliable and error free. So you can create and duplicate your own flyers and newsletters, posters, spreadsheets, memos, and more, at a lower cost per page. Far beyond than going to a service bureau for your printing and copying.



HWP183 HP OfficeJet 1150C	(Inc. VAT £577.22)	£491²⁵
HWP244 HP OfficeJet 590	(Inc. VAT £398.33)	£339

HP Support Packs

Complete peace of mind for all your HP products

HP SupportPack is a range of IT support services especially designed to meet the support needs of single users, small businesses and corporate enterprises. The product range offers a wide variety of value added services for HP and non-HP hardware, PC application software and network environments.

Supporting all your needs whether you're a single user, small business or corporate enterprise

Part no	Product	Standard Warranty	HP Support Pack	Price (£47.00)	Code
H5461A	HP DeskJet 400, 600, 690C	1 year Unit Exchange	3 Year On-Site - Next Day Exchange	£40	HWP029
H5462A	HP DeskWriter 600, SureStore T4i	1 year Unit Exchange	3 Year On-Site - Next Day Exchange	£47	HWP031
H5464A	HP SureStore 5000	1 year Unit Exchange	3 Year On-Site - Next Day Exchange	£42	HWP249
H5465A	HP Displays, Monitors, Terminals, HP 200LX PalmTop	1 year Unit Exchange	3 Year On-Site - Next Day Exchange	£65	HWP059
H5469A	HP DeskJet 870 Cxi, ScanJet 45 4P, HP SureStore 6000, 300/320 P-Top	2 year Unit Exchange	3 Year On-Site - Next Day Response	£97	HWP250
H5470A	HP UPS (Uninterruptible Power Supply)	1 year Unit Exchange	3 Year On-Site - Next Day Exchange	£99	HWP033
H5471A	HP SureStore 12000	1 year Unit Exchange	3 Year On-Site - Next Day	£118	HWP038
H5473A	HP OfficeJet Pro 1150C	1 year Unit Exchange	3 Year On-Site - Next Day Exchange	£105	HWP034
H5475A	HP ScanJets 45i (And All Colour)	1 year Unit Exchange	3 Year On-Site - Next Day Exchange	£140	HWP129
H5476A	HP LaserJet 5P, 5MP, 6P, 6MP, HP Omnibook 800, 5500, 5700	1 year Return	3 Year On-Site - Next Day	£142	HWP037
H5479A	HP LaserJet 5, 5M, 5N	1 year Return	3 Year On-Site - Next Day	£180	HWP041
H5482A	HP LaserJet 4V, 4MV	1 year Return	3 Year On-Site - Next Day	£235	HWP039
H5485A	HP CopyJet, CopyJet M	1 year Return	3 Year On-Site - Next Day	£299	HWP040
H5489A	HP Network ScanJet 5	1 Yr on-site-next day	3 Year On-Site - Next Day	£420	HWP255
H5492A	HP DesignJet 300, 350C, 650C, 700	1 Yr on-site-next day	3 Year On-Site - Same Day	£530	HWP036
H5499A	HP LaserJet 55i/MX	1 Yr on-site-next day	3 Year On-Site - Same Day	£846	HWP258
H5500A	HP LaserJet 55i Mopier	1 Year Return	3 Year On-Site - Next Day	£77	HWP035
H5501A	HP LaserJet 5L, LaserJet 6L	1 Yr on-site-next day	3 Year On-Site - Same Day	£948	HWP032
H5729A	HP Colour LaserJet 5/5M	1 Yr on-site-next day	3 Year On-Site - Same Day	£599	HWP260

HP DeskJet 670C

An incredible printer at an incredible price.

Easy to use with built-in colour. Print in black or colour without switching cartridges. No-ink printing on a wide variety of paper types and media, plain and premium papers, envelopes, transparencies, index cards, labels and more. Speedy printing-up to 4 ppm black, 1.5 ppm colour. Quick and easy driver installation. Great-looking results, HP's RealLife Imaging System with HP Resolution Enhancement technology (RET) ensures photo-quality colour and sharp, crisp blacks. HP ColourSmart technology automatically adjusts settings for the best colour, there's no guesswork involved.

HWP196 HP DeskJet 670C	(Inc. VAT £142.18)	£121
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HP DeskJet 870Cxi

Professional series printers

HP's new range is tailored to the specific printing needs of business professionals, providing small businesses and home office users with superior performance and outstanding print quality on any media.

- Fast black output at up to 8 pages per minute, fast colour output at up to 4 pages per minute
- Premium print quality & media versatility
- 150 professional fonts
- Network friendly options
- Supports various operating systems including: Win. 95, Win. 3.1, Macintosh & stand alone DOS

HWP025 HP DeskJet 870Cxi	(Inc. VAT £237.94)	£202⁵⁰
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HP DeskJet 890C

- HP's fastest colour inkjet printer
- Up to 9ppm black text, 5ppm colour
- Up to 600x600dpi colour resolution

HWP246 HP DeskJet 890C	(Inc. VAT £399.63)	£255
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Printer Listings

HWP006 HP DeskJet 1600C	£871.00
HWP042 HP DeskJet 1600CN	£1,110.00
HWP085 HP CopyJet	£1,096.37
HWP086 HP CopyJet M (postscript)	£1,462.07
HWP090 HP DeskJet 693c	£194.40
HWP168 HP DeskJet 1600cm ps	£1,280.00
HWP174 HP LaserJet 4mv A3 laser	£1,724.00
HWP184 HP 5500 d640	£12,881.97
HWP237 HP LaserJet 4v (A3 laser)	£1,184.00
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HWP057 HP Toner Cartr. 4v4im4pmp	£64.50
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HWP062 HP 500/400/dj blk Cartr	£16.95
HWP063 HP 340/400/5xk colour Cartr	£18.49
HWP069 HP 340 Black Cartridge	£14.95
HWP084 HP 1600 Magenta Cartridge	£19.95
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HWP091 Duplex for HP LaserJet5si	£369.95
HWP092 2000 SH/Feeder Laser 5si	£734.95
HWP093 Maintenance Kit for 5si	£32.95
HWP095 HP 340 Infrared adaptor	£26.95
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HWP097 HP 340 Up parallel cable	£9.95
HWP098 HP CopyJet 8k Ink Cartr	£15.95

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WAREHOUSE



Canon BJC-250

Creativity at your fingertips

From birthday celebration banners to school projects, this highly versatile printer is ready to print superb colour documents. What's more, the resident BC-05 colour cartridge means that unlike other InkJet printers you don't have to pat extra for a colour upgrade. • 360 x 369 dpi colour c/w PhotoRealism • 720 x 360 mono • 3.4 ppm • Improved Windows! 3.1/95 printer driver • Optional PhotoRealism™ & Fluorescent cartridges • 1 Year warranty (Inc. VAT £128.08)

FOR MORE INFO: **FAST FACTS INTERNET** No. 31041

CAN065 Canon BJC-240 Printer ..**£109**

Canon BJC-4300

Printer and Scanner in one!

Transform this colour printer into a 360dpi full colour scanner by simply replacing the ink cartridge with the IS-22 scanner cartridge. Intense colour that shines every time

- 720 x 360dpi Mono/720 x 360 colour
- 4.5ppm • Image Optimizer Technology™
- BC-21e Cartridge • Windows 3.1, 95, NT compatible • Optional colour image scanner • 1 year warranty • PLUS free Omnipage & PhotoImpact OCR, and image editing software

CAN069 BJC-4300 Printer (Only) ..**£149** (Inc. VAT £175.08)

CAN071 Cartridge (Only)**£69** (Inc. VAT £81.08)

CAN060 Printer/Cartridge Bundle **£199** (Inc. VAT £233.83)

KX-P6300

Panasonic LASER PRINTER

Ultra-compact Slim-Pencil Laser Printer

A mid-range combined GDI and PCL laser page printer with the highest aspirations; the KX-6300 offers users the speed and convenience of printing direct from Windows, through GDI with no hardware interference, whilst retaining the ability to print accurate and complex non-Windows data through PCL.

PAN025 KX-P6300**£185** (Inc. VAT £217.38)

Canon BJC-620

Exceed your expectations.

The new BJC-620 provides razor-sharp colour. With exclusive, Photographic-quality printing, on plain paper, or a wide range of media. For persuasive presentations, gripping graphics, dramatic designs. Further more, the four separate cartridges keep running costs low, which adds up to real savings. (Inc. VAT £217.38)

- Razor sharp colour
- Photorealistic printing
- Up to 16.7 Million Colours
- 720 x 720 dpi

CAN040 Canon BJC-620 Printer**£185**

Canon BJC-4550

With big, A3 printing capacity you can get your special work to fit on the page. But that's just the start. Choose high-quality colour or fast black output, on all paper sizes. For both Windows and Macintosh platforms, in the office, or at home. The advanced yet affordable BJC-4550 is the one printer that handles it all, with the exciting option of exclusive photo-realistic printing. (Including VAT £245.58)

- A3 Printing
- Fast 4.8 pages/minute (Black only)
- Photorealistic Printing
- Prints OHP & T shirt Transfers

CAN046 Canon BJC-4550 Printer**£209**

NEC 860 GDI Pro Laser Printer

- 8 page per minute printing
- 600dpi quality with SET for 1,200 x 600 res
- Host based and peer to peer networking
- Compatible with Microsoft® Windows™, DOS and other operating systems
- 200 sheet cut paper feeder and 5,000 page toner cassette
- 1 year warranty

NEC007 NEC 860 GDI ProPrinter.....**£256** (Including VAT £300.80)

Kyocera FS-600

Features

- Very fast processor ensures rapid delivery of first page
- Robust design and construction
- Low-cost modular upgrade options
- Low cost per page at a penny per page
- Ideal personal or shared printer
- 600dpi, 6ppm laser printer
- Cartridge-free technology
- 50mhz Power PC processor
- IEEE 1284 parallel plus option port
- Internal 150-sheet cassette
- Optional 250-sheet cassette
- Ethernet/serial interface options

kyo021 Kyocera FS-600.....**£239** (Including VAT £280.83)

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FOR MORE INFO: **FAST FACTS INTERNET** No. 31245

KX-P6500

Panasonic LASER PRINTER

Ultra-compact Slim-Pencil Laser Printer

The highest compatibility specifications grace the portfolio of the KX-6500, offering all of combined benefits of GDI and PCL printers such as the KX-6300 plus the convenience and ease of use associated with HP LaserJet™ IIIP emulation.

PAN026 KX-P6500**£259** (Including VAT £304.33)

OPTRA S1250

LEXMARK

- 16ppm
- True 1200dpi
- 4MB - 132MB
- Paper in up to 3350/2750 max output
- Paper trays support A5 - Legal, 60gsm-300gsm labels (see spec.) No need to change trays.
- Modular options
- Highly adaptable printer for large workgroups

(Inc. VAT £809.58)

LEX011 Optra S1250.....**£689**

OPTRA S1650

LEXMARK

- 16ppm • True 1200dpi
- 4MB - 132MB
- Paper in up to 3350/2750 max output
- Paper trays support A5 - Legal, 60gsm - 300gsm labels (see spec.) No need to change trays.
- Modular options
- Highly adaptable printer for large workgroups

(Including VAT £938.83)

LEX012 Lexmark OPTRA S1650**£799**

(Including VAT £1173.83)

LEX013 Lexmark OPTRA S1650N**£999**

OPTRA S2450

LEXMARK

- 24ppm • True 1200dpi
- 4MB - 132MB
- Paper input up to 3750/3000 output
- Paper trays support A5 - Legal, 60gsm - 300gsm labels (see spec.) No need to change trays.
- Modular options
- PS level 2, PCL 6 & PPDS as standard
- This is a production workhorse for big departments

(Inc. VAT £1867.08)

LEX014 Lexmark OPTRA S2450**£1589**

(Inc. VAT £2113.83)

LEX015 Lexmark OPTRA S2450N**£1799**

Fax 510/520

brother

- Automatic paper cutter
- Modem 9,000bps (510) 14,000bps (520DT)
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- Caller ID function
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- 10 sheet automatic paper feed
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- 55 Speed dial stations

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BRO014 Brother Fax 510**£169**

(Inc. VAT £247.93)

BRO040 Brother Fax 520**£211**

Fax 1020/30

brother

- Plain paper output with fixed cost per copy
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- Digital Answering machine - up to 30mins record time (1030)
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- 20/50 page document memory for broadcasting
- Forwards receives faxes to another number
- Rings a mobile when fax received

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BRO041 Brother Fax 1020**£297**

(Including VAT £398.33)

BRO042 Brother Fax 1030**£339**

MFC-9000

brother

The all-in-one office superstar As a printer

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- send faxes from any Windows application on your PC
- As a scanner
- up to 600x600 dpi scan resolution with OCR
- As a copier
- up to 99 copies • 50-200% reduction/enlargement (Including VAT £777.85)

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Brother HL 1660



High speed that's matched by the highest quality
A laser printer which more than meets the demands for quality and speed in the office environment

- 1200 x 600 dpi printing
- 16ppm high speed printing
- 650 sheet paper input
- Advanced network capability
- Flexible paper handling
- Duplex option - automatic double sided printing

Bro012 Brother HL 1260e (2Mb) **£599**

Bro003 Brother HL 1260e (6Mb) **£615**

Bro008 Brother HL 1660 (4Mb) **£699**

Bro005 Brother 1660 (10Mb) **£715**



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Brother MC 3000

The new MC3000 is a 3 in 1 Multi-Function Centre. It provides a colour inkjet printer, colour scanner and colour copier at an entry level price.

- Up to 5ppm mono printer
- Colour scanner
- 200 sheet paper input
- Up to 3.5ppm colour printer
- Colour copier



Bro053 Brother MC 3000



(Including VAT £586.33)

£499

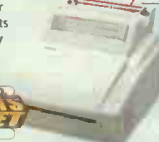


HL-730+ Laser Printer

- 600x600 dpi printing with Microfine toner
- Fast 6 pages per minute output
- 1Mb memory management system
- 200 sheet multi-purpose feeder
- Includes true type scalable fonts
- Network Interface Connectivity option
- High speed Bi-directional interface
- PCL Level 4 & Windows compatible

(Including VAT £233.83)

Bro002 Brother HL 730+ **£199**



HL-760 Laser Printer

- 1200x600 dpi resolution printing with Microfine toner
- Fast 6 pages per minute output
- Enhanced memory management system
- 200 sheet multi-purpose sheet feeder
- Includes true type scalable fonts
- Network Interface Connectivity option
- High speed Bi-directional interface
- PCL Level 5E & Windows compatible

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Bro005 Brother HL 760 (1Mb) **£229**

Bro006 Brother HL 760 (5Mb) **£245**



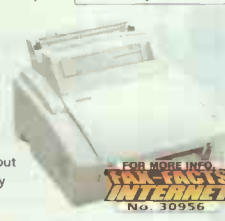
HL-1060 Laser Printer

10ppm high quality at an entry level price. Dual bin with 2MB RAM as standard 1200 x 600dpi resolution in Windows.

- 10 pages per minute
- 1200 x 600dpi
- Windows/DOS/Unix/OS/2
- PCL5e, Epson, IBM, emulations
- Dual 2 x 200 sheet input
- 1 year onsite warranty

(Including VAT £468.83)

Bro039 Brother HL 1060 **£399**



Lexmark 1000

Add a splash of colour with the Lexmark 1000 Colour Jetprinter!

- State of the art colour printer
- Vivid colour cartridge
- Quick setup guide
- ColourFine™ 2 printer driver software
- Easy to use, works with Windows 95, Windows 3.1 and 3.11
- Visual printing cues
- Interactive print screens
- On-line help function

Lex025 Lexmark 1000 **£109**



Lexmark 2030pe

Leading the way in 6-colour printing
The Lexmark 2030 Photo Edition delivers a unique and COMPLETE solution to produce your own home-made photographs from a wide variety of photo sources.

- Expert Colour Quality Photo print cartridge
- Super Sharp Waterproof™ black ink cartridge
- Tri-colour cartridge
- Photo driver with ColorFine™2 software (CD ROM)
- LivePix software-CD ROM (Requires Windows 95)

Lex010 Lexmark 2030pe **£169**



Lexmark 7000

The Lexmark 7000 is easy to set up and makes printing spectacular images a and sharp text a breeze.

- State of the art colour printer
- Up to 3 pages per minute colour draft and up to 8 pages per minute black draft
- Up to 1200 x 1200 dpi resolution
- Precision Inkjet, Excimer Laser-Crafted
- 150-sheet input tray, automatic envelope feeding, 50 sheet label or transparency capacity

Lex027 Lexmark 7000 **£279**



Printer & Consumables Listings

Bro015 Fax 570	£199.00
Bro018 Fax 1700p	£429.00
Bro019 Fax 8000p Laser	£594.00
Bro021 Paper Catching Tray	£55.00
Bro022 Thermal 40m Paper 6 Pack	£32.04
Bro023 Single Ribbon 1700p/200p	£29.95
Bro024 2 Ribbon 1700p/1200p	£49.95
Bro025 4 Ribbon 1700p/1200p	£94.95
Bro026 Thermal 24m Roll Pack 6	£18.40
Bro027 50m Paper 570/50 4 Pack	£15.99
Bro038 Connect 5000 PC Link + SW	£69.00
Bro046 30m Fax Paper 5105/20 4pk	£19.00
Bro047 Wordcraft LaserFax Netwo	£479.00
Bro048 Fax8000p Toner Cartridge	£19.50
Bro049 Fax8000p Drum Unit	£110.00
Bro050 Fax8000p 1MB Upgrade	£99.00
Bro051 Fax8000p 2MB Upgrade	£159.00
Xero032 Xerox 7088 Plain Paper	£349.00
Xero033 Xerox 7088 Ink Film 10 pk	£90.00
Xero034 Xerox 7088 Ink Film 1pk	£10.00
Xero035 Xerox 7088 2yr OSW	£229.00
Xero036 Xerox 7089 Multi-Function	£419.00
Xero037 Xerox 7089 Laserfax SW	£69.00
Xero038 Xerox 7089 Ink Film 10pk	£190.00
Xero039 Xerox 7089 Ink Film 1pk	£20.00
Xero040 Xerox 7089 2yr OSW	£229.00
Xero041 Xerox 7090 Plain Paper	£429.00
Xero042 Xerox 7090 Ink Film 12pk	£33.00
Xero043 Xerox 7090 Ink Film 4x2pk	£132.00
Xero044 Xerox 7090 2yr OSW	£229.00
Xero045 Xerox 7092 Multi function	£599.00
Xero046 Xerox 7092 Laserfax Softw	£69.00
Xero047 Xerox 7092 Ink Film 1x2pk	£33.00
Xero048 Xerox 7092 Ink Film 4x2pk	£132.00
Xero049 Xerox 7092 2yr OSW	£229.00
Xero002 Textbridge 3 for Mac	£32.95
Bro007 Brother HiFax Toner	£23.40
Bro008 Brother Hi-630 Drum Kit	£110.00
Bro009 Brother Hi-1260 eped Toner	£105.00
Bro010 Brother 730760 Toner Cart	£19.50
Bro011 Brother Hi730760 Drum Unit	£110.00
Bro013 Brother Duplex Unit 1260e	£349.00
Bro029 1MB w/ig hi-730630	£85.00
Bro030 1.5mb w/ig hi-730630	£89.00
Bro031 Brother net600 Ethernet	£279.00
Bro032 Hi-700 series 1yr os Warr	£35.99
Bro043 Ethernet Card 1660/1260	£299.00

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EPSON Stylus Photo

EPSON Stylus photo has been designed as a photo printer for home, business or professional users. Achieving perfect results, every time, couldn't be easier. The EPSON Stylus Photo's printer drivers can do all the hard work for you. Advanced colour correction software - fully compliant with both the Windows 95 ICM and Macintosh ColorSync 2.0 colour matching systems - ensures accurate colour matching between your monitor and printed output. EPSON Stylus Photo's gives you prints which not only rival those produced by conventional photographic printing processes, but in many cases will far surpass the print quality you have enjoyed until now.

- Photo Reproduction Quality output (PRQ)
- Optimised for photo reproduction (can also print text as usual.)
- Prints 4" x 6" format and enlargements to A4 size
- Normal and light colour Quick Dry Inks (6 colour Printer)
- From 2 minutes per 4 x 6 Photo Print
- Comes bundled with Software including with Software including LivePix for Windows 95 and Macintosh.

EP5160 Epson Stylus Photo **£308**



EPSON FilmScan 200

The EPSON FilmScan 200 - A truly versatile scanner. The FilmScan 200 accepts 35mm film strip - both negative and positive - and mounted slides: while the addition of an optional Advanced Photo System cartridge holder enables this highly capable scanner to handle the very latest film format. For added convenience, a batch - scanning facility enables up to 6 images to be scanned simultaneously.

- Affordable high quality scanning
- 1200 dpi optical resolution up to 4800 dpi with Interpolation
- 30 bit per pixel image processing in colour
- single pass scanning
- Optical Advanced Photo System cartridge holder
- Batch scanning capability - up to 6 images, simultaneously
- Fully TWAIN compliant
- PC and MAC compatible (both parallel and SCSI versions available)

EP5158 Parallel Scanner for Win **£326**

EP5159 SCSI Scanner for Win **£379**

EP5169 SCSI Scanner for MAC **£364**



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EPSON PhotoStudio in a Box 1	EPSON Stylus Photo & EPSON PhotoPC 600 (Printer & Digital Camera)	Includes LivePix & EPSON Panoramic paper (Printer), PictureWorks Hotshots & NetCard, Prest PhotoAlbum & Direct Print Kit (Camera)	EP5195 £750 (Inc. VAT £881.25)	Save over £80
EPSON PhotoStudio in a Box 2	EPSON Stylus Photo & EPSON FilmScan 200 (WIN SCSI)	Includes LivePix & EPSON Panoramic paper (Printer), PictureWorks PhotoEnhancer & NetCard, Prestol PhotoManager	EP5196 £581 (Inc. VAT £682.68)	Save over £50
EPSON PhotoStudio in a Box 3	EPSON Stylus Photo & EPSON FilmScan 200 (MAC SCSI)	Includes LivePix & EPSON Panoramic paper (Printer), PictureWorks PhotoEnhancer & NetCard, Prestol PhotoManager	EP5197 £581 (Inc. VAT £682.68)	Save over £50

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Microsoft Office 97 builds on the productivity tools in Microsoft Office 95 by adding a more unified interface, much simpler controls, web tools and improved programmability for building customised business solutions. Integration with Microsoft Explorer 3.0 Web browser allows increased communication and collaboration using the World Wide Web. In fact Office 97 makes browsing the web, finding information, adding it to your documents and then publishing on the Web all one process. The existing applications within Microsoft Office have been updated and completely revised - and there are exciting new programs too!


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Guide to Microsoft Office pricing

If you have ten PCs or more then call our corporate team as you will be able to make substantial savings by entering into a MOLA agreement. If you are looking for single copies or small quantities please refer to these charts.

Upgrade: If you currently use any version of either MS Word, MS Excel, MS Access, MS PowerPoint or MS Works then you qualify for the upgrade price bracket.

Competitive Upgrade: If you currently use a Lotus product, Corel, Harvard, or other major competitive products you qualify for the upgrade price - call for details.

New User: If you do not qualify for either of the above then new user pricing applies.

Office 97	New User	Upgrade or Comp. Upgrade
Standard	MIC628 £319⁹⁵ (Inc. VAT £375.94)	MIC629 £149 (Inc. VAT £175.08)
Pro Free MS Bookshelf Basic	MIC631 £419 (Inc. VAT £492.33)	MIC632 £205⁹⁵ (Inc. VAT £241.99)
Developer	MIC690 £530 (Inc. VAT £622.75)	MIC691 £349⁹⁵ (Inc. VAT £411.19)
Developer U/G from Office 97		MIC693 £219⁹⁵ (Inc. VAT £258.44)

Please note: Office 97 is ONLY available on CD. Disk exchange is available via Microsoft for a small charge.

Office for Win 3.1	New User	Upgrade	Comp. Upgrade
Standard V.4.2 3.5"	MIC129 £325 (Inc. VAT £381.88)	MIC139 £161 (Inc. VAT £189.18)	MIC136 £212 (Inc. VAT £249.10)
Professional V.4.3 3.5"	MIC168 £419 (Inc. VAT £492.33)	MIC173 £242 (Inc. VAT £284.35)	MIC189 £289 (Inc. VAT £339.58)
Professional V.4.3 CD	MIC178 £419 (Inc. VAT £492.33)	N/A	MIC553 £289 (Inc. VAT £339.58)

Microsoft Access 97

Microsoft Access 97 supports the all new Office 97 interface and is now even more powerful.

Seamlessly integrates with the Visual Basic custom development environment, to enable powerful, bespoke business applications to be constructed within the Office 97 environment. Available with Office 97 Pro version only.

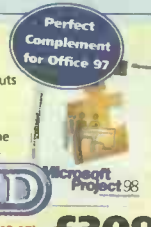


MIC635 Microsoft Access 97..... **£224** (Inc. VAT £263.20)
MIC634 Microsoft Access 97 U/G..... **£89** (Inc. VAT £104.58)

Microsoft Project 98

Complete Project Communication and Control Microsoft Project 98 puts you in control of even the most complex projects. It helps you share information easily with team members so everyone stays involved. Its compatibility with Microsoft Office and Microsoft Project 98 fits the way you work today over your intranet or e-mail system or even over the Internet. Helps you to manage the most complex projects. Increased consolidation limits. (New upper limits let you consolidate more than 1,000 projects).

MIC905 Microsoft Project 98..... **£309** (Inc. VAT £363.07)
MIC954 Microsoft Project 98 CCP Upgrade..... **£129** (Inc. VAT £151.58)



Microsoft Word 97

Microsoft Word sees major improvements with developed **intellisense**.

To complement the spelling functions contained within Microsoft Word, there is now background grammar checking too. Also new is WordArt, making it easy to add colourful or textured fills, 3D effects and even bezier curves without leaving Word. There are also tear-off menus, Letter Wizards, custom command bars and lots more!

We will not be beaten on Microsoft pricing!

MIC647 Microsoft Word 97..... (Inc. VAT £260.85) **£222**
MIC646 Microsoft Word 97 U/G..... (Inc. VAT £104.58) **£89**



Microsoft Excel 97

The most powerful spreadsheet application available.

The new Excel 97 now contains even more features. You can drag and drop page breaks, auto-resize when you print, text rotate, create formulas with your own terminology, rather than cell coordinates and save and view files as HTML. In fact anyone with an Internet viewer can view your files, even if they don't have a spreadsheet.

MIC637 Microsoft Excel 97..... (Inc. VAT £260.85) **£222**
MIC638 Microsoft Excel 97 U/G..... (Inc. VAT £104.58) **£89**

Microsoft Outlook 97

The exciting new desktop Information management application.

Microsoft Outlook is an exciting new desktop Information management application that helps you organise information on the desktop, communicate and share information with others. Outlook is designed to help you easily manage your desktop including e-mail, a calendar, contacts and files/documents all from a common work area.

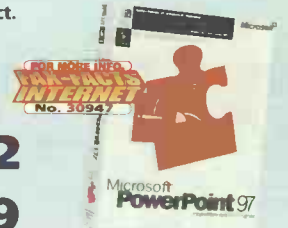
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Give your presentations added impact.

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MIC644 Microsoft PowerPoint 97..... (Inc. VAT £260.85) **£222**
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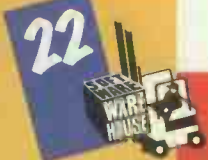
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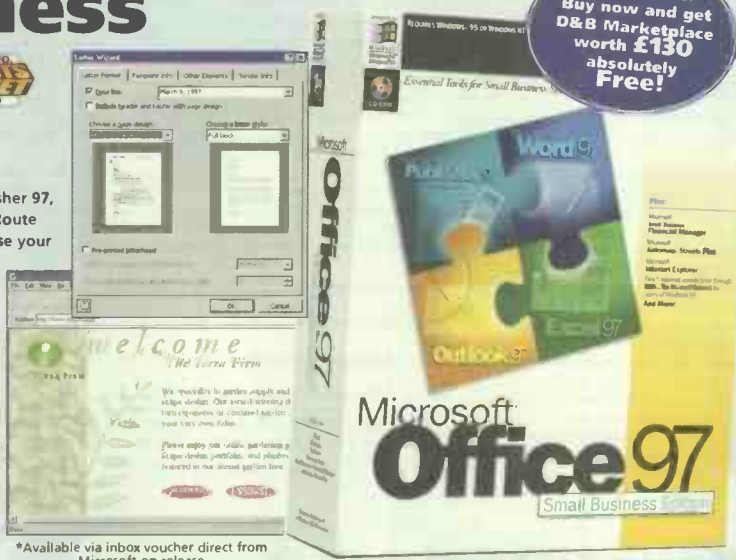
Microsoft Office 97 Small Business Edition

The first office suite specifically designed for small businesses!

This essential suite of applications — Word 97, Excel 97, Publisher 97, new Outlook 97, Small Business Financial Manager 97*, AutoRoute and Internet tools gives you everything you require to organise your small business, expand your marketing capabilities and take full advantage of the enormous business opportunities offered by the Internet.

Microsoft Office 97, Small Business Edition is the first Office Suite specifically designed for your small business. It integrates six, full-featured applications and a set of Internet tools and information to help you organise, promote and grow. To help you get started on the Internet the suite includes 30 days of free Internet access time on the Microsoft Network and the leading browser - Microsoft Explorer. Office 97 Small Business Edition also takes full advantage of the new Microsoft "IntelliMouse" functionality such as zooming and scrolling. New Microsoft Office 97, Small Business Edition combines intelligent, productivity-enhancing applications with the power of the Internet to help your small business optimise opportunities and operate at maximum efficiency.

New Office 97, Small Business Edition is the most effective way for you to organise, promote and grow your business.



Limited offer Buy now and get D&B Marketplace worth £130 absolutely Free!

*Available via inbox voucher direct from Microsoft on release

*Packaging for illustrative purposes only

This amazing suite contains:-

- Outlook 97 - The new desktop information manager which brings together familiar organisational tools that makes it easy to organise information and communicate with others.
- Publisher 97 Clip Gallery Live - A location on the Internet available to Publisher users which contains over 1,000 additional clip art images, stock photos and audio and video clips available for free download. Office 97 Small Business Edition comes with the Microsoft Internet Explorer browser for exploring the World Wide Web.
- Internet Assistants - Automatically and effortlessly converts Office documents to HTML. Easily create documents with formats and fonts designed specifically for the Intra/Internets.
- Auto Hyperlink - Automatically creates links to URL or UNC path names using web functionality to access the Internet, the Intranet, or the local file server.
- Microsoft Excel Web Queries - Pulls information stored from a World Wide Web page directly into a spreadsheet.
- Small Business Financial Manager 97 - A powerful add-on tool to Microsoft Excel 97 designed to help small business owners better leverage the valuable information contained in their business accounting systems.
- Word Letter Wizard - Saves you time and effort by simplifying the task of creating letters. The Letter Wizard automates common letter writing elements such as addressing and formatting.
- Word Table Drawing Tool - Makes creating tables in a document as easy as drawing on a piece of paper. With the table drawing tool you have the flexibility to design a table to fit your data needs. Cells within a table can be any size, shape or colour.
- Word Background Grammar Checker - Proof reads documents for grammatical errors while you type. Word AutoCorrect now automatically corrects across more than one mis-typed word (eg. int he becomes in the).
- AutoText - Lets you create and apply customer entries for frequently-used phrases or paragraphs, making it easier to find and re-use document content.
- Word Document Map and Outline Layout - Allows you to navigate and organise longer documents with the same Web technologies used on the Internet. Split screen displays a hyperlink outline of the document on the left pane while the right pane contains the text of the document.
- Excel 97 - Extends the automation and IntelliSense features in Excel to make creating and editing formulas, charting, printing and formatting of spreadsheets much easier.
- Excel Formula AutoCorrect - Automatically fixes the most common formula-writing mistakes.
- Excel Natural Language Formulas - Makes it easier to write formulas by allowing you to use row and column header names instead of cell references when writing formulae.
- Office Art - Allows you to create graphically rich documents even if you are not a professional artist using Office's new drawing tools.
- IntelliMouse support - Office 97 Small Business Edition applications offers full support for the new Microsoft IntelliMouse, making it easier to navigate through documents, zoom and scroll.

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Microsoft Office 97, Small Business Edition contains:

- Word 97 (word processor)
- Microsoft Excel 97 (spreadsheet)
- Publisher 97 (desktop publishing)
- Outlook 97 (desktop information manager)
- AutoRoute GB (Route Planner & Travel Guide)
- Small Business Financial Manager 97 (financial analysis tool)
- The Internet tools and information include the Microsoft Internet

CU STOCK CODE: MIC716

£149 (inc.VAT £175.08)

MIC53 MS Office 97 Small Business Ed **£325** (inc.VAT £381.88)

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MIC081	MS Mail Serv Computg v3.5	£230.00
MIC084	MS Mail Client 5 user lic	£189.00
MIC085	MS Mail Client 25 20Lic	£619.00
MIC198	MS Mts Gateway	£412.00
MIC199	MS Post Office wlg wlg	£220.00
MIC336	MS Mail PC Serv3.51+10lic	£299.00
MIC405	MS Mail 20 User Client	£599.00
MIC408	MS Mailmtp Gateway v3	£2,250.00
MIC428	MS Exch.Internet Mail v4	£368.00
MIC429	MS Exch.Serv Stan v45usr	£720.00
MIC435	MS Exch.Serv Stan v4 25usr	£1,650.00
MIC451	MS Mail Server 3.2 5.5 up	£280.00
MIC484	MS Exch 5 User Client lic	£285.00
MIC489	MS Exch Serv Ent v475usr	£3,005.00
MIC547	MS Back Office v2 50cl	£1,039.00
MIC559	MS Mail v3.5 5 User Client	£180.00
MIC566	MS Mail 5 User Client	£166.00
MIC577	MS Exchange Conn v4	£369.00
MIC579	MS Exchange Svr +10cl	£990.00
MIC686	MS Proxy Server 1.0 CD	£69.00
MIC725	MS Exchange svr ent 5 csp	£599.00
MIC730	MS Exchange svr ent 5 25c	£2,499.00
MIC748	MS Exchange svr v5 5cl	£720.00
MIC749	MS Exchange Clt v5 5usr mlp	£253.50
MIC783	MS Exchange v5 std wlg CD	£260.00
MIC836	MS Exch.ent.v5 + 25cl ed	£1,260.00
MIC861	MS Exchange Connector v5	£363.40
MIC157	MS Project 4.0 win	£289.00
MIC158	MS Project 4.0 win mlp	£279.00
MIC160	MS Schedule 4.0 Starter	£89.00
MIC162	MS Schedule 4.0 20pack (w	£597.00
MIC184	MS Project v4 Direct wlg	£85.00
MIC298	MS Schedule 4.0 Win 95	£74.00
MIC341	MS Schedule 20 User Lic	£625.00
MIC367	MS Project 4.1 Win95	£299.00
MIC368	MS Project 4.1 Win95 wlg	£85.00
MIC375	MS Project v4.1 mlp	£269.00
MIC377	MS Project 95 wlg mlp	£78.00
MIC462	MS Project v4 Upgrade mlp	£78.00
MIC505	MS Schedule v7 mlp	£55.00
MIC119	MS Windows Sound System 2	£108.99
MIC120	MS Windows Sound System 2	£46.00
MIC192	Microsoft Testing Tools	£399.00
MIC217	MS Sound Bits Music Clips	£15.00
MIC219	MS Sound Bits mgm	£15.00
MIC385	MS Sports Extremes	£10.99
MIC591	MS Exchange Connector	£350.00

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of the 25 selection criteria offered, including Industry type, geographic location, size of business (by sales turnover or number of employees) and job title. Once a list has been created you can view your list on-screen or print it out in hard copy or on disk. You can also choose the type of product format you require including Mailing Labels for direct mail campaigns and Telemarketing Records if you are creating a telemarketing campaign. D&B MarketPlace UK offers you a comprehensive choice of product options to match all your direct marketing needs whether you are contacting your prospects by letter, phone or fax. Full company information can also be down loaded to hardcopy or diskette which enables you to export the data to create your own prospect and customer databases. D&B MarketPlace UK gives you complete control of all your direct marketing campaigns from start to finish. It's cost effective too with the user only paying for the data they actually use. Each D&B MarketPlace UK comes with 1000 FREE credits (1000 names), so you can begin to create your direct marketing lists instantly. Once you have used up your credits, further credits can be purchased by Credit Card direct from D&B's sales support desk on Tel: 01494 42 22 99. There's no fuss, no bother, just instant and reliable data from the world's leading provider of business information - Dun & Bradstreet.

D&B MarketPlace UK Scoops Gold Award

D&B MarketPlace UK, Dun & Bradstreet's CD-ROM based marketing database for smaller businesses, has won a premier industry award. It took the Gold Award for Innovation at the Direct Response Creative and Innovations Awards in the List/Database Services category.

"It was a very classy field of entrants which set extremely high standards. But D&B's MarketPlace UK certainly stood out from the rest. It was great to judge such a quality category. D&B MarketPlace UK certainly deserved the Gold Award, the CD ROM database is excellent."

Michael Hope from the The Michael Hope Partnership - Direct Marketing Consultants.

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Visual Studio 97 Professional Edition gives developers the tools and flexibility to create high-performance Windows and Internet applications. Visual Studio 97 Professional comes with Microsoft Visual Basic 5.0, Visual C++ 5.0, Visual J++ 1.1, Visual InterDev 1.0, Visual FoxPro 5.0 and the MSDN Library Developer Reference CD-Rom.

Visual Studio 97 comes with a license for one developer. Microsoft Visual Studio 97 Enterprise Edition adds the power of multi-tier, scalable solutions to Visual Studio 97 Professional. Visual Studio 97 Enterprise Edition gives developers the tools to integrate

client/server development with Internet technologies. In addition to the suite of award-winning development tools found in the Professional Edition, Enterprise customers will get the Microsoft Transaction Server, SQL Server 6.5 Developer edition, Visual SourceSafe 5.0, and integrated Transact-SQL debugging from Visual Basic 5.0 and Visual C++ 5.0. Visual Studio 97 comes with a license for one developer. Microsoft Visual Studio 97 Enterprise Edition includes everything within the Professional Edition, and adds the ability to scale client/server solutions to the Enterprise with integrated support for SQL, Transactions and team development. Microsoft's comprehensive suite of award-winning development tools in one economical package. The developer deal of the year!

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MS Visual C++ 1.5 or later	MS Office 97 Developer Edition	Sybase PowerBuilder 3.4 and 5
MS Visual FoxPro 3.0 or later	Borland Delphi	Oracle PowerObjects
MS Fortran PowerStation 4.0 or later	Borland C++	Oracle Developer/2000

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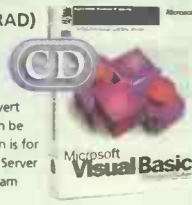
Visual Basic 5.0

Microsoft Visual Basic 5.0 is a rapid application development (RAD) tool. It's the most efficient tool for creating high-performance applications that run on Windows 95 and NT.

Easily create ActiveX controls that can be reused in many different development tools, including Visual Basic, Visual C++, Microsoft Office and Microsoft Internet Explorer. Convert existing applications developed with Visual Basic to ActiveX Web Applications, which can be automatically installed and run in an Internet browser. In addition, the Enterprise Edition is for teams of developers building solutions for large organisations. It includes Microsoft SQL Server and tools for fast data access, SQL debugging, distributed transaction processing, and team development for database and object oriented analysis.

Microsoft Visual Basic 5.0, with an integrated native code compiler, is the most efficient tool for creating high-performance Win32-based applications and components. Build fast Windows-based applications more efficiently and quickly than ever before. The fastest way to build high performance Windows applications Visual Basic 5.0 has Native Code compile, so applications developed in VB will run up to 20 times faster. Allows developers to create Internet applications with ActiveX control and ActiveX web application creation has intelli-sense technology that makes developing in VB even faster and easier. With over 3 million developers, VB is the best selling and most widely used development tool in the world.

MIC739	MS VIS Basic V5 CCP Learning Edition CD	(Including VAT £42.30)	£36
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MIC764	Visual C++ 5.0 Pro U/G	(Including VAT £250.28)	£213
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- Create DLL Files More Robust Database Management
- Table Design and Expanded Data Dictionary
- Set Data Validation Rules Directly and Easily
- Improved Development and Debugging Tools
- Immediate testing and debugging
- Easier to Create Office 95 Interfaces
- Display Non-justified Tabbed Dialogs
- Create Automation Servers

MIC655	Visual FoxPro V5	(Including VAT £392.45)	£334
MIC663	Vis FoxPro U/G V5	(Including VAT £233.83)	£199



Visual InterDev

Microsoft Visual InterDev the newest member of the visual tools family, empowers Web application developers to rapidly build fully interactive, dynamic Web sites. With visual development features and powerful database tools, Visual InterDev provides the most complete and technically advanced development system for building both intranet and Internet applications.

- ### Features and Benefits
- Rapid, visual development.
 - Powerful, integrated database tools.
 - A complete and extensible system.
 - Flexible and standards-based

A familiar and fully customisable development environment provides a single workspace for building Web applications and shares a common look and feel and tight integration with other Microsoft Visual tools including Visual Basic, Visual C++ and Visual J++. Active Server Pages make it easy to build dynamic Web applications with advanced state management, server-side scripting, server components, and more. Visual design-time controls automatically generate the HTML and scripting logic necessary to create database-driven Web sites. Team development support allows multiple users to work on projects at the same time, and includes integration with Visual SourceSafe™ for safe check-in and check-out of files.

MIC723	Visual InterDev V1	(Including VAT £386.58)	£329
MIC718	Visual InterDev U/G V1	(Including VAT £205.45)	£174



Visual J++ 1.1

MS Visual J++™ has everything you need to create the Web's best Java™ applets – fast Microsoft® Visual J++™ gives you all the tools you need to design exciting applications with Java™ and Microsoft ActiveX™ technology. Take advantage of sample code, wizards, a graphical debugger, ActiveX integration, and more to boost your productivity.

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 - Find and fix bugs faster with the best breed of debugger. It supports at the byte level and lets you debug multiple applets simultaneously from within a browser
 - Build pure Java™ applets and applications, or extend them with Microsoft® ActiveX™ integration so that they work with the world around them

MIC713	Visual J++ 1.1 Pro 1.1 C/U CD	(Including VAT £29.36)	£24.99
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MIC620 Windows 95 (Inc. VAT £68.15) **£58**

	Windows 95	Windows NT Workstation 4.0
What it is	The easiest operating system for general business and home user	An industrial-strength operating system for business applications now with the Windows 95 user interface
What you get	<ul style="list-style-type: none"> • Significantly improved reliability and performance over Windows 3.1 • Plug in & play for easy hardware set up • Best laptop & mobile computing support • Maximum hardware & software compatibility with existing/older peripherals and MSDOS/Windows 3.1 application 	<ul style="list-style-type: none"> • Maximum reliability and performance for business applications • Maximum system security and robustness • Less compatibility with older hardware and software (especially MS DOS applications and games)
What you need to run it	<ul style="list-style-type: none"> • 8Mb RAM • 40Mb hard disk 	<ul style="list-style-type: none"> • 16Mb RAM • 140Mb hard disk

Microsoft

Windows NT Workstation 4.0

Windows NT Workstation 4.0 combines the ease of use of the Windows 95 operating system with the reliability and security that have made Windows NT a success in the demanding workstation marketplace. This release also includes built-in networking support, providing secure, easy access to the Internet and corporate intranets. New administrative features now make it easier to manage and control, which helps reduce the total cost of operation. The newest version of Windows NT Workstation includes these benefits: Greater ease of use with the Windows 95 user interface. Windows NT Workstation also includes Windows NT Explorer, providing users a hierarchical view, or tree, of each drive and folder on the computer.



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 MIC486 MS Windows NT Workstation 4.0 U/G (Inc. VAT £251.45) **£99**

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MIC666	MS Sna Srv clt 2.11 mlp	£45.00
MIC674	NT FilePrint Services	£74.75
MIC706	MS Transaction Server v3	£1,499.00
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Create great-looking Web sites - without programming

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- Find phone numbers of your colleagues and of your customers quickly

Gets your company's Intranet up and running fast!



Lotus cc: Mail R8 Advanced System Pack

Lotus cc: Mail Advanced System is a complete solution that includes just about everything you need to set up and manage an e-mail system, connect to the Internet, use electronic forms and schedule meetings with others at the office!

The main feature of cc: Mail Release 8 is the new cc: Mail Advanced Messaging Server. This high performance, multi-tasking server runs on a Windows NT system and is compatible with all types of networks (eg. Netware).
It's easier - All back-end components, including the reliable, non-stop cc: Mail post office, can run on a single NT server. Routine maintenance runs automatically on the server.
Higher Performance - Each cc: Mail Advanced Messaging Server supports up to 1000 users, and it is available 24 hours a day, 7 days a week.

Enhanced cc: Mail Router - Transports messages and synchronises directories among Post Offices and Mobile users.
New NetWare directory synchronisation - This allows administrators to save time by synchronising changes between their Novell 3.1 or 4.x directories and their cc: Mail directory.

The Advanced Messaging Server

includes the following components:

- Mail Router
- Mail Link to SMTP
- Mail for the World Wide Web
- New NetWare 3.1 & 4.x directory sync
- New cc: Mail POP3 server
- New cc: Mail IMAP4 server
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- New automatic maintenance
- cc: Mail post office

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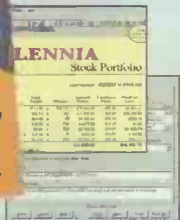


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Designed for
Microsoft
Windows 95
(& NT)



Get your award-winning Lotus SmartSuite NOW, with the best-selling IBM Simply Speaking for FREE! IBM's new dictation software, VoiceType Simply Speaking, is for anyone who would rather talk than type.

The IBM range of speech recognition products lead the industry in performance, accuracy and ease of use, and is yours absolutely free when you purchase a copy of Lotus SmartSuite 97.

For further details on IBM VoiceType SimplySpeaking see page 7.

Lotus SmartSuite 97

A 32-bit complete suite of easy-to-use productivity applications with unsurpassed cross-application and Internet integration.

Lotus SmartSuite 97 offers superior collaborative computing, access to information from a broad range of sources, and customability for individuals and teams. SmartSuite 97 includes a brand new version of Lotus 1-2-3, in addition to completely re-designed 32-bit versions of Word Pro (word processor), Freelance Graphics (presentation graphics), Approach (database), ScreenCam (multimedia tool), Organizer (PIM) and SmartCentre (suite command centre). Lotus SmartSuite 97 offers the easiest access to information

from the Internet/Intranet and other PC software applications by including new features such as: SmartCenter Internet Drawers - make it easy for users to customise their desktop for fast access to favourite Web bookmarks, Internet search engines, and reference sites for Lotus on-line support, and updates on the latest news, weather and stock market activity.

U/G STOCK CODE: LOT273

NEW VERSION

£112 (Inc VAT £131.60)

...in business software.



Lotus 1-2-3 97

A completely new 32-bit spreadsheet that fully exploits the improved the speed and memory management of the Windows 95 and NT operating systems.

Lotus 1-2-3 gives you new important ways to get your everyday spreadsheet tasks done faster and more easily than ever before. It offers

you fast and easy ways to move data between the Internet, the World Wide Web, and your spreadsheets. New features give you the power to open and save World Wide Web and FTP files right from the 1-2-3 menu. Attach a web address to a button on your worksheet so you can connect to your favourite Web site with just one click.

Designed for
Microsoft
Windows 95
(& NT)

(Including VAT £104.58)

LOT306 Lotus 1-2-3 97 (Trade Up) **£89**



Lotus Word Pro 97 plus AA DAYS OUT

Increased productivity for end users through increased speed and lower file space requirements.

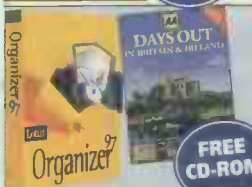
Lotus Word Pro 97 enables users to create, publish and manage Internet documents, and fully supports HTML. In addition Word 97 goes beyond

the realms of word processors to offer users a robust Team computer and desktop publishing features, and provide developers with more customisation options to create specific business solutions. Word Pro connects users directly to the Internet. Features include tools and templates to publish documents to the Internet/Intranet, HTML and Java support.

Designed for
Microsoft
Windows 95
(& NT)

(Including VAT £46.94)

LOT344 Word Pro 97 & AA Days Out **£39.95**



Lotus Organizer 97

Lotus Organizer is the award winning personal and group scheduler with more than 6 million users worldwide.

Since its launch in 92, Lotus Organizer has become the best selling personal information manager (PIM) and leading personal group scheduler. Organizer utilizes the familiar daybook-style user interface

to help users manage their time as well as everyday tasks, such as keeping track of appointments, to do lists, pending phone calls and other contact information. Many of the features included in this package are flexible time management, categorisation, formatting capabilities and much more...

Designed for
Microsoft
Windows 95
(& NT)

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LOT342 Lotus Organizer 97 & AA D/O **£39.95**



Lotus Freelance Graphics 97

It transforms presentation graphics into an everyday visual communications tool.

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summarise their ideas, while at the same time producing a visually compelling document. Freelance gives users the best Start-to-finish process with valuable content suggestions, tools for outlining and diagramming, and a wide variety of animations for adding pizzazz to presentations.

Designed for
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Windows 95
(& NT)

(Including VAT £46.94)

LOT343 Lotus Freelance 97 & AA H/RG **£39.95**



Lotus Approach 97

Lotus Approach 97 is the award-winning relational database that provides an easy way to query, report on and analyse data.

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features maximize the sharing of the information with the organisation. Approach enables users to seamlessly connect to all data, whether it is stored in dBASE, DB2, Oracle, Lotus Notes or almost anywhere else.

Designed for
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Windows 95
(& NT)

(Including VAT £46.94)

LOT345 Lotus Approach 97 & AA H/RG **£39.95**



Lotus ScreenCam 97

The simplest way to create, manage, view and share PC movies.

Lotus ScreenCam 97 turns your PC into a VCR that records every click, scroll and action on your screen. You can add captions and sounds, then edit your Instant PC movies and share them over the Internet or by e-mail with customers, colleagues and employees. Viewers can play them back even if they don't have ScreenCam on their computers. Use up to 20 movie segments for a variety of usages.

Lotus SmartPics provides you with more than 2,000 professional clip art images. SmartPics are the perfect way to enhance your memos, report overhauls, handouts and presentations in no time; and they are ideal for adding that personal touch to letters.

Designed for
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Windows 95
(& NT)

(Including VAT £29.32)

LOT304 Lotus ScreenCam 97 **£24.95**

LOT305 Lotus SmartPics 97 **£24.95**

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Minimum 133 MHz Pentium Processor IBM-compatible PC (faster with MMX) Windows 95, Windows NT 3.51, Windows NT 4.0, Industry standard 16 bit sound card or built in audio systems on desktops and portables, including the Creative Labs SoundBlaster 16 and other selected cards. Speakers required for multimedia help system. Hard disk requirements 60 Mb; Memory requirements Windows 95 32Mb; Windows NT 48Mb

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No. 30632



SYSTEM REQUIREMENTS

Multimedia Pentium PC with speakers, sound card, and microphone Digital camera or home camcorder and video framegrabber*. 8MB memory, 3MB hard disk space, VGA or SVGA with at least 256 colours (16-bit recommended), Microsoft Windows 3.x or Windows 95, 14.4 modem (28.8 recommended). Also supports DSV2 modem, ISDN modem.

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END001 Endeavour Digital Camera	(Including VAT £116.33)	£99

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DragonDictate Solo

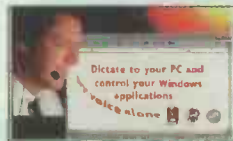
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DragonDictate Solo includes a high quality noise-cancelling microphone and the new UK English Version has a 120,000 word vocabulary with 10,000 word active customisable dictionary.

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Allows you to activate commands and pull down menus simply by saying what you see on the screen and enables you to tell your mouse to move to a precise spot on the screen just by saying the words.



- Create accurate documents by dictating to your PC
- Spell correctly every time
- Reduce repetitive keyboard and mouse motions
- Fast enrolment and Quick Training program included

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What the Press are saying

"The most fully featured speech recognition package was DD Solo which not only allows you data entry to a single MS Office Application but allows voice navigation of the desktop... Solo just pips the others at the post."

What Personal Computers - review June 97

SYSTEM REQUIREMENTS

Minimum 486/66 MHz IBM-compatible PC. Pentium processor recommended Windows 95, Windows 3.1 or above. Industry standard 16-bit sound card or built in audio systems on desktops and portables, including the SoundBlaster 16 (recommended). Minimum 16MB RAM, (20MB recommended).



STOCK CODE: DRA012

£49⁹⁵ (Inc. VAT £58.69)

DragonDictate Solo Pro classic

Avoid using your keyboard, Dictate into any Windows application with Solo Pro Classic!

Solo Pro Classic is a professional quality speech recognition system that instantly recognises your Windows applications and allows you to work within them using commands that you already know. You can avoid your keyboard altogether, so it's ideal if you prefer to avoid typing in a busy business environment.

Solo Pro Classic uses Dragon's award-winning QuickTalk™ technology, making dictation faster than ever before. It's fast and easy to get started with step-by-step enrolment and Quick Training.

Solo Pro Classic adapts to the way that you talk and even understands regional accents! Fully supports dictation and command-control in all Windows applications prior to Microsoft Office 97. Supports dictation only in Microsoft Office 97 applications.

Features:

- Dictate directly into your Windows software
- Fast and accurate
- Spell correctly every time
- UK English dictionary
- 30,000 word active vocabulary with 120,000 word back-up dictionary
- Save time with 4,500 macros to control your PC
- Dictation training gets you started right away



System Requirements

Minimum 486/66 MHz IBM-compatible PC, Pentium processor recommended, Windows 95, Windows 3.1 or above, Colour or mono monitor, industry standard 16-bit sound card or built-in audio systems on desktops and portables, inc. the SoundBlaster 16*, 37MB hard disk space, CD-ROM drive, Mouse & keyboard recommended, Minimum 16MB, 20MB recommended

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The first office suite for MMX

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- Corel Photo House – easy photo editing
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Corel Presentations 8
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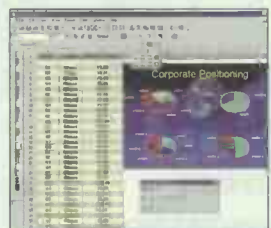
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COR183	Corel Graphics pack	CD	£89.00
COR162	Corel Presentations	CD	£49.00
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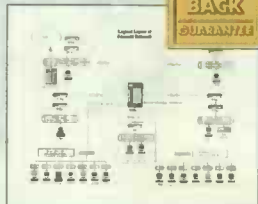
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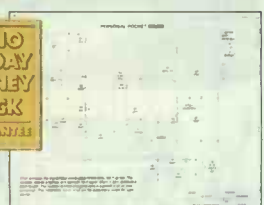
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Use FileMaker 4.0 to make your information look exactly the way you want. Create reports and summaries to many levels of detail with the graphical report designer. Powerful data management; use FileMaker Pro's relational database power to create one-to-many, and many-to-one relationships between files. Share information quickly and easily: share files seamlessly between Windows 95/NT and Mac OS versions of FileMaker Pro - or even over the network.

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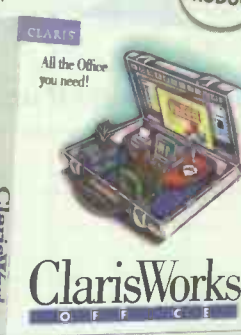
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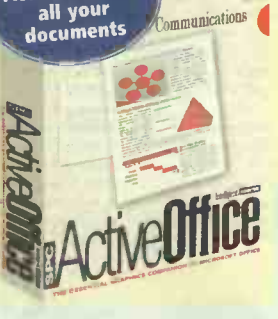
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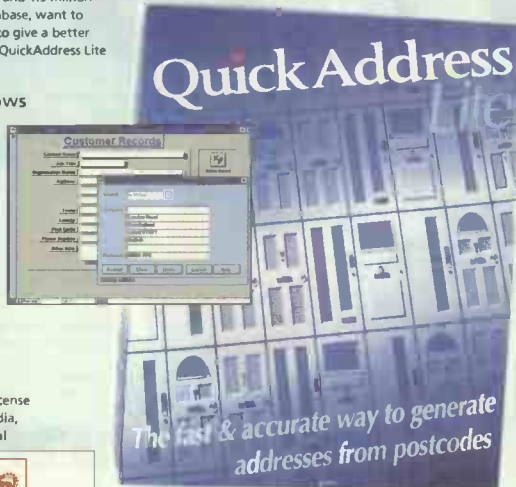
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- Multiple address layouts**
Any format or structure can be applied to the addresses you generate so that they can be pasted back to your existing database or word processor in the way you choose.
- Full on-line help included**
- 90 days FREE Technical Support**
The experienced staff at QAS Customer Care will help you get the best out QuickAddress Lite. QuickAddress Lite includes a one user license valid for 12 months, documentation and media. Updated PAF data is supplied with the annual license renewal.



The fast & accurate way to generate addresses from postcodes



As used by Software Warehouse

"Backed up by the full resources of a Royal Mail Accredited VAR"



QA5001 QuickAddress Lite CD.....	£99⁹⁵ (inc.VAT £117.44)
QA5002 QuickAddress Lite 3.5".....	

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multiactive.

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As seen on TV

PlanIT can save you days of your own time and thousands upon thousands of pounds in 'professionals fees'. Refreshingly, PlanIT is a British company providing British business people with British business expertise on CD-ROM. All PlanIT software has been written with the advice of the very best professionals in the business. PlanIT will help you run your organisation professionally, present your organisation

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- PlanIT Staff Appraiser
- PlanIT Health & Safety
- PlanIT Business Plan
- PlanIT Letters
- PlanIT Contracts & Agreements

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What the Press are saying

"Refreshingly, PlanIT is a British product designed for the UK business environment"
Mail On Sunday, March 1997
"PlanIT Suite provides all the tools and advice needed for success in one package"
Business Computer World, 1997



Wherever you see this sign, the product is included within Business Suite.

STOCK CODE: RMG055

£289 (Inc VAT £339.58)

PlanIT Contracts & Agreements



PlanIT
• 60 Day Money-Back Guarantee
• Free Technical Support

Instant professionally drafted contracts and agreements without the need for expensive lawyers!

There are hundreds of occasions when your business needs to produce contracts or agreements at short notice. But professional legal advice is costly and often takes many days or even weeks to produce. PlanIT Contracts & Agreements allows you to create the legal document you need instantly. The software contains over 90 model contracts, agreements and legal forms, covering all the legal documents your company may need to produce regularly at short notice. Each is accompanied by expert help, which explains the law in simple, clear and concise terms.

Includes all essential Companies House forms



STOCK CODE: RMG041

£99 (Inc VAT £116.33)

- Includes:
- Business Agreements** - Including Distribution, Franchise and Consultancy Agreements, Letters of Confidentiality, Manufacturing Contracts.
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 - Company Administration** - Incl. Memorandum of Association, Standard Elective Resolutions, Shareholders Agreement.
 - Property** - incl. Assured Shorthold Tenancy, Freehold Sale & Transfer Contracts, License to Occupy.
 - Miscellaneous** - Incl. Partnership Agreements, Applications for Credit, Power of Attorney, Trade Reference Request.



What the Press are saying

"Contracts & Agreements is a piece of software that creates instant professionally drafted documents to suit all occasions"
Mail On Sunday, March 1997
"You can get legal documents without the expense of a lawyer using PlanIT Contracts & Agreements"
PCW, May 1997
"PlanIT Contracts & Agreements contains text which is jargon free, so it can be easily understood by users with no legal expertise"
Business Computer World, 1997
"PlanIT gives expert advice and direction at a fraction of the cost that it takes to employ expensive accountants"
Accountancy Age, May 1997

PlanIT Sales Letters

Maximise your sales

PlanIT Sales Letters guides you through the process of writing letters to suit every occasion. Never again will you puzzle over how to word that direct marketing campaign, respond to a customer or inform someone of a change in pricing policy. PlanIT Sales Letters contains over a hundred example letter which can be tailored to your exact requirements. PlanIT Sales Letters helps you find the right tone and expression every time.



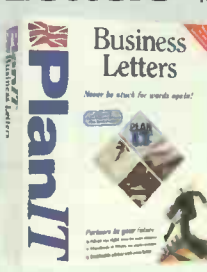
STOCK CODE: RMG072

£19.95 (Inc VAT £23.44)

PlanIT Business Letters

The right letter for every situation

Simple, easy to use and fast. PlanIT Business Letters helps you write the perfect letter for every professional situation. PlanIT Business Letters contains hundreds of example letters that can be adapted for every occasion. With many advanced features that guide you through the process of selecting the right tone or phrase for your particular situation you can save time, get results and never be stuck for words again!



STOCK CODE: RMG003

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What the press are saying
"Excellent"
PC Plus

PlanIT Legal Letters

Writing a letter that may have legal consequences needs careful thought. Use of the wrong words or expressions could undermine your case in any future legal proceedings. PlanIT Legal Letters can help you write important legal letters without the need for expensive lawyers. With hundreds of example letters drafted by John Nilsson author of 'Ready Drafted Legal and Business Letters' makes this a must for every business.

Topics covered include:

- Making contracts
- Sale of goods
- Debt collecting
- Agents
- Property



What the Press are saying

"PlanIT Legal Letters helps you compose important letters dealing with a wide range of common, personal and business matters in which it is essential to be aware of the consequences of what you write"
Glasgow Herald, June 1997

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Evaluating employees is one of the most difficult tasks a manager can face. What to write... How to write it... Staff Appraiser is the answer!

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Staff Appraiser Key Features

- **Built-in Intelligence** - Using exclusive Intelli-Text technology, PlanIT Staff Appraiser can write a fully-formatted, fully personalised staff appraisal for you.
- **Comprehensive list of key performance factors** - Rate your employee's performance on a simple, customisable scale using key performance factors compiled by top human resource experts.
- **Customise and personalise** - PlanIT Staff Appraiser gives you the power to write reviews the way you want to. Use the standard performance assessment forms included or design your own.
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- **Expert advice through every stage** - Human resource experts offer comprehensive on-line advice on how to handle difficult situations and ensure that positive results come out of every review.



Staff Appraiser
The smartest, easiest and fastest way to write constructive staff appraisals

What the Press are saying

"PlanIT Staff Appraiser makes the constructive staff appraisal process simple"
PC Direct, Oct 1996

"PlanIT Staff Appraiser is the only one I have come across specifically designed for the UK"
Financial Advisor, Jan 1996

"PlanIT Staff Appraiser makes the task surprisingly effortless"
PC Pro, July 1996

Actually writes the review for you!

STOCK CODE: RMG029

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Make your workplace safer - it's the law!

By law every company employing 5 or more people must prepare a written safety policy document and conduct a risk analysis of their workplace. Health and safety at work is an issue which affects every working man and woman yet it is surrounded by mystery, complex terminology and confusion. New PlanIT Health & Safety removes this confusion by guiding you through the process of conducting a risk analysis of your workplace and the formulation of your own health and safety policy. It'll also save you money by removing the need to employ expensive specialist consultants. Included is a free Practical Health & Safety Guide which explains the law in clear and concise terms. PlanIT Health & Safety has been designed to help you implement and maintain an effective health and safety management programme quickly, easily and cheaply. It has been designed to help you stay both safe and legal.

Intuitive step-by-step process

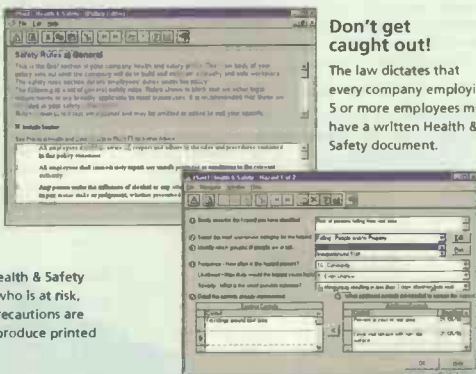
PlanIT Health & Safety guides you through an analysis of your workplace and the formulation of your own personalised, unique health and safety policy document.

Automatic layout and formatting

All the layout and formatting for your policy is provided and company details are inserted automatically throughout. When complete, simply print out direct from PlanIT Health & Safety or export to your favourite Windows word processor.

Comprehensive coverage

Through a simple question and answer process, PlanIT Health & Safety helps you to identify hazards in your workplace, decide who is at risk, evaluate the severity of those risks and identify where precautions are needed. You can prioritise your action programme plus produce printed reports for staff, insurers and inspectors. **Free health and safety guide**



Don't get caught out!

The law dictates that every company employing 5 or more employees must have a written Health & Safety document.



Everything you need to write and manage your own Health and Safety programme: **Customised safety policy document**

- Safety training and personnel
- Workplace inspections
- Consultations
- Fire safety
- Communication
- Accident investigation and reporting
- First Aid
- Safety rules

Conduct a risk analysis

- Identify hazards in your workplace
- Decide who is at risk
- Evaluate the severity of risks
- Identify where precautions are needed
- Prioritise your action programme
- Produce printed reports for staff, insurers and inspectors

Free Practical Health & Safety Guide

- Covers UK and European health and safety regulations and legislation
- Advice on writing a safety policy statement
- Hazard identification and risk assessment
- Measuring performance
- How to promote a safety culture...and much more!

Do you employ 5 people or more? By law you must have a written health & safety policy

Included in **Suite**

PlanIT
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• Free Technical Support

Included free is a 'Practical Health & Safety Guide', providing invaluable help and advice in many relevant areas, including all current UK and European health and safety regulations. The information contained is accurate as of May 1996.

Reference database

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Keep track of your health and safety programme

PlanIT Health & Safety makes it easy to view each of your risk assessments and monitor every hazard identified. You will know when your policy needs updating, when to conduct risk assessment reviews and when deadlines for corrective actions have not been met.

Electronic HSE forms

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- HSE forms F2508 and 2508A for

reporting cases of injury and disease under the new RIDDOR 95 regulations

- Safety Representatives Inspection forms
- Hazard Identification and Risk Assessment sheets
- Record of Workplace Inspection forms
- Internal accident report forms

All of these can be filled in electronically using PlanIT Health & Safety's exclusive 'electronic form entry' technology.

What the Press are saying

"PlanIT Health & Safety is a simple way to help companies formulate a health & safety programme that satisfies regulations"
PC Direct, Oct 1996

"This clever software automatically creates health & safety documentation for small businesses, views each area of risk and assesses policy requirements"
The Times, July 1995

STOCK CODE: RMG004

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RMG006	Planix exterior design 3D	£25.49
ROD001	Drafix quick CAD WIN 3.11	£44.95
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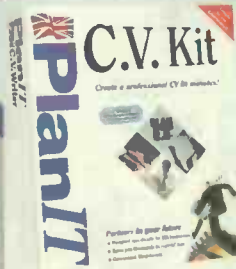
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Choose the right words everytime

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STOCK CODE: RMG068

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STOCK CODE: RMG077

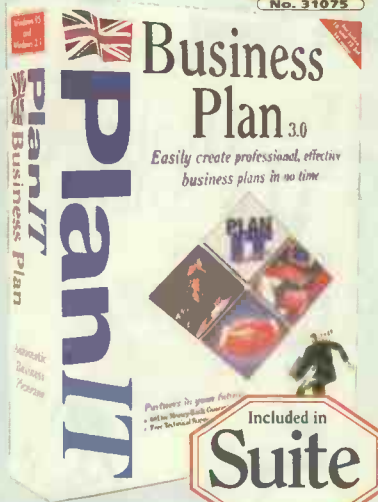
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PlanIT Business Plan 3.0

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Plan 3.0

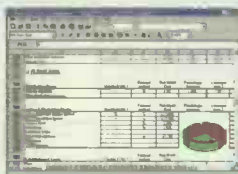
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Included in **Suite**

Market Analysis

PlanIT Business Plan can help you identify opportunities and threats to your business through an in-depth analysis of your company, products, competition and industry. This helps you develop effective sales and marketing strategies and present them in a coherent manner.

Financial Projections

Removes the drudgery of creating financial spreadsheets from scratch. PlanIT Business Plan's stand-alone spreadsheet includes pre-formatted templates for Sole Traders, Partnerships and Limited Companies. You'll be able to

create 3 year financial projections quickly and easily without having to create templates from scratch.

Reference Database

The unique PlanIT database contains 1000's of useful contact names and addresses, including trade associations and societies, government departments and situations, research organisations, MPs and ombudsmen. Plus there are over 70 sources of UK funds and grants to help you raise capital for your business.

Expert Business Advice

Included with PlanIT Business Plan are two free books; 'How to write a Business Plan' and a 'Practical Business Guide'. These contain advice on all aspects of your business plan, ranging from subjects as diverse as company formation and cashflow to employee law and lease contracts.

What the Press are saying

"PlanIT Business Plan holds you by the hand and doesn't let go until the job's done" **PC Advisor, May 1997**

"PlanIT Business Plan works with you, explaining business terms and helping you fill out a business plan that is helpful to both you and your bank manager" **PC Plus, July 1997**

"PlanIT Business Plan is a worthwhile investment for any new or existing business" **PC Direct, May 1997**

STOCK CODE: RMG047

£69 (Inc VAT £81.08)

RECOMMENDED
PC Direct
BEST BUY

PlanIT Start-Up Business Plan

Your path to success

- Be prepared for your bank manager
- Raise £'s
- Clarify your ideas
- Build your objectives & strategies

Business Plans are vital whatever stage your business is at, but never more so when your business is starting out. They can help you set objectives to achieve and implement strategies as well as the more obvious aid when attempting to raise finances. Don't forget, as many as 90% of small businesses are due to fail within only one year of incorporation! Protect yourself from becoming a fatal statistic by organising your progress from the outset.

Business start up made easy

Using a software package to create your Business Plan saves you time that you can use to carry on with the practical side of setting up in business. You can also adapt and change your plan when necessary to remain consistent with any changes made down the line.

PlanIT Start-Up Business Plan is designed to help you attract finance and investment, but also co-ordinate the first crucial years or months of your business. Make sure that you give your business the best possible start in life, use PlanIT Start-Up Business Plan.



The Product & Services screen enables you to enter details of your product, product line or service

PlanIT Start-Up Business Plan leads you through the often-confusing process of setting up a UK business. It will take you step by step through the process of writing a business plan using the simple Question, Advice and Answer feature, ensuring that you will never be puzzling for hours over how to word your business' aims and objectives again. The plan has been written by British Business experts, and is especially tailored for start up businesses. It is compatible with all major word processors, and even incorporates a UK English Spell Check facility.

- Fully customisable - select to base new plans on the template provided, or one that you have already adapted
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- Expert help available at every stage
- Adaptable spreadsheet

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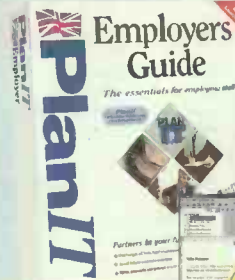
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The essentials of employing staff



- Identify & tackle potential employee disputes
- Covers all your basic legal requirements

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- Includes**
- General Contract of Employment
 - Letter of Employment
 - Standard disciplinary policy
 - Grievance policy
 - Health & Safety policy
 - Equal opportunities policies
 - Your company employment manual

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PlanIT Job Descriptions

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• Free Technical Support

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Job Descriptions

The key to workforce management

Partners in your future

- An unbeatable quality requirement
- For faster recruitment for your 20,000 job titles
- The best way of all personnel entry

NEW PRODUCT

As an employer, well written job descriptions not only help you hire the right people but help your employees work more efficiently and become more effective in their jobs. PlanIT Job Descriptions is a remarkable new program that actually writes your job descriptions for you - in minutes! Simply choose the job title from the 20,000 provided, work through the various skills and attainments selecting the relevant level at each stage and then print. With PlanIT Job Descriptions expert guidance, you'll find writing comprehensive job descriptions faster and easier than ever before.

How it works!

To use the program, simply select the job title you require from the database of over 20,000 available titles. Follow the programs' logical order to specify the requirements of the post, the duties and responsibilities of the employee and the levels of skills, past experience and training required. Once the straightforward questionnaire has been completed, PlanIT Job Descriptions will lay out the information you have entered and edited in a pre-formatted, comprehensive Job Description form, an invaluable aid. You can then review the job description and add your own finishing touches before saving and printing the document.

Categorised Job descriptions

- Managers & Administrators
- Professional Occupations
- Associate, Professional & Technical
- Clerical & Secretarial
- Craft & Related Occupations
- Personal & Protective
- Sales
- Plant & Machine
- Armed Forces
- Plus much, much more...

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£79⁹⁵ (Inc VAT £93.94)

With generic job descriptions for over 20,000 jobs

Skills covered include:

- Responsibilities
- Occupational Attainments
- Relevant Work Experience
- Main Tasks
- Communication Skills
- Intellectual Skills
- Mathematical Skills
- Physical Demands
- Working Conditions
- Super Responsibilities

PlanIT Marketing Plan

FOR MORE INFO
PLANIT
INTERNET
No. 31233

Automatically create effective marketing plans

- Identify market needs
- Identify market opportunities
- Identify current & future customers

Writing a marketing plan can be a difficult and time consuming task. It can be clouded further by experts telling you that certain areas must be discussed when they are plainly irrelevant to your marketing needs. PlanIT Software on the other hand, takes the assumption that you know best. You know what kind of customers and competitors you are dealing with, all you need now is a professional marketing plan. This is where PlanIT Marketing Plan can help you, whether you are someone who is just setting up in business or if you are an established company looking for a new strategy

Marketing is the link between your business and your customers. It is crucial that you understand the needs and wants of your customers so that you can target your campaigns accurately to achieve the most from them.

Every company or marketing department has to work to the constraints of a budget, PlanIT Marketing Plan is designed to help you make the most of your budget however big or small. As you become more efficient with your budget, you should notice your spending decreasing but your revenue increasing, something every company wants to see.

PlanIT Marketing Plan is designed with the extensive blue chip expertise of Durham Associates. With the planning, organisation and expert advice of this program, you will be able to quickly and clearly identify your key business opportunities and put together a targeted marketing plan to make the most of your business.



Marketing Plan

Maximise the potential of your business!

Partners in your future

- Make the most of your marketing budget
- Identify your strengths & weaknesses
- Know your way to the marketplace

NEW PRODUCT

Ask yourself these questions-if you answer no to any of them, you need PlanIT Marketing Plan:

- Can you identify your market and the external factors, which influence it?
- Do you know what your competitors are doing and whether they are being successful?
- Have you identified and formulated marketing strategies your business?
- Do you recognise your strengths and weaknesses-do you play to your strengths and make allowances for your weaknesses?
- Can you be certain that you have the best marketing mix to achieve your marketing objectives?
- Do you have contingency plans in place which will allow you to make timely responses to changes in the business environment?
- Are you able to accurately determine the sales contribution per pound of marketing spending?

STOCK CODE: RMG064

£79⁹⁵ (Inc VAT £93.94)

Software Listings

RM5019	Form Tool Gold 97	£69.95
KEY003	Key Form Designer	£29.00
KEY007	Key Organizer Chart 3.5	£29.00
TOP010	Toplevel Office Forms CD	£49.50
TOP011	Toplevel Office Form/Susr	£144.95
127983	European Monarchs	£35.00
130666	The Windows Bible CD-ROM	£38.50
153757	D-day Normandy 100 days	£29.95
153761	D-day Normandy cradle lib	£29.95
154360	Illust.Facts how things wk	£21.75
154389	Illust.Facts how the wild	£21.90
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173880	Oxford Writers Reference	£26.00
173910	Oxford Reference Shell	£51.00
173924	Oxford Compendium	£51.00
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ATT017	HutchMultimed ency 97	£24.79
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ATT026	World of Wisdom Horoscope	£17.01
BB0002	Attenboroughs Antarctic	£19.95
BB0020	Family Tree Maker V4 std	£26.95
BB0021	Family Tree Maker V4 del	£39.95
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DOR044	Earth Space Promo	£0.00
GRO006	Picasso CD	£24.99
GSP029	Instant Will Maker	£16.95
GSP030	Instant CV Writer	£16.95
GSP031	Instant Form Designer	£16.95
GSP032	Instant Cards+Invitations	£16.95
GSP033	Instant Business Cards	£16.95
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What the Press are saying

"You'll be up and running, creating attractive, efficient or paper forms within minutes."
Pc Pro September 97

Key Features:

- Familiar Microsoft® Office interface
- Access data directly from any X-Base compatible format, dBase 3 or 4, or Paradox
- New networking features include electronically sending the form to a group of people via your e-mail system, signature blocks for electronic approvals, and the ability to protect the data to the layout and field level with the password control
- Built-in calculations and formulae facility
- Separate Filler module allows other users to access a FormTool form across a network for filling as well as accessing associated data
- Over 400 pre-designed forms to use or modify to fit your needs in eight categories.
- FormTool 97 will create a relational database associated with multiple forms, which then becomes a "window" to your data. You can then sort, search, index or query the data!



STOCK CODE:IM5019

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New features:

- **Electronic Signature Capability** FormTool 97 supports the ability to enter an electronic signature or a series of electronic signatures which can be used in a routing sequence
- **E-mail sending capabilities** Supports e-mail distribution of forms in MAPI and ccMail environments
- **Table Control Function** Allows the user to create a table in one step. The tables can then be linked based on relational criteria
- **ODBC Support** Supports data Inter-connectivity through the ODBC criteria. This allows FormTool data to be shared with any other application that supports Microsoft ODBC
- **Object Browser** Provides the user with the browser that enables the user see the objects that have been stored for use on the users forms
- **Database Connectivity** FormTool 97 can connect directly into dBase and Paradox database environments, allowing the user to enter data into these environments by using FormTool 97
- **Custom Objects Library** Allows the user to compile a library of commonly used objects or object combinations for a quick access on subsequent forms
- **Bar Codes** Allows scannable barcodes to be inserted onto a form
- **Grouped Check Boxes** Allows a group of mutually exclusive check boxes to be entered as one object. This makes it easier to create survey type forms quickly and reduce filing errors
- **Database Querying Capability** FormTool 3.0 allows the user to question the database to find the desired information
- **Grouped Objects** Allows the user to modify a group of objects proportionally
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Instant Accounting '97 & Instant Payroll

Sage have put together their two entry level business packages into one combined offer, giving the total small business solution.



Instant Accounting '97 and Instant Payroll are designed specifically for small businesses. So whether you're starting a new business or just looking for a better way of bookkeeping, Instant Accounting '97 and Instant Payroll will keep all the financial and staff records you need for your business. Instant Accounting '97 is the small business accounting solution recommended by accountants, providing everything you need to stay in control of customers, suppliers, cash and VAT.

Instant Payroll key features:

- Provides complete employee information
- Gives pay rates, tax codes and cumulative annual earnings
- Current PAYE and NI bands already entered
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- Payslips printed out exactly as they appear on the screen
- Automatic update of year to date figures

- after each payroll run
- Provides P11 deduction card for PAYE and NI records
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Instant Accounting '97 key features:

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- Improved Task Oriented Help & Documentation
- On-Line library of additional info, fact sheets and answers to common questions

- Introduction of skeleton journals in the Nominal Ledger
- A hide key ensures confidentiality for authorised system users
- An autodate feature which helps with the quick entry of dates
- New reports supplied
- Extra Graphing features supplied to assist with the necessary task of preparing management information
- New customer activity report

SAG067 Sage Instant Accounting 97 (inc.VAT £92.83) **£79**

SAG072 Sage Instant Payroll (inc.VAT £92.83) **£79**

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- Easy to use - simply type in a keyword to bring up options i.e. typing 'restaurant' will bring up subsets such as Indian, Chinese, American.
- Print results.



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TurboCAD 4.0



A million TurboCAD users can't be wrong!

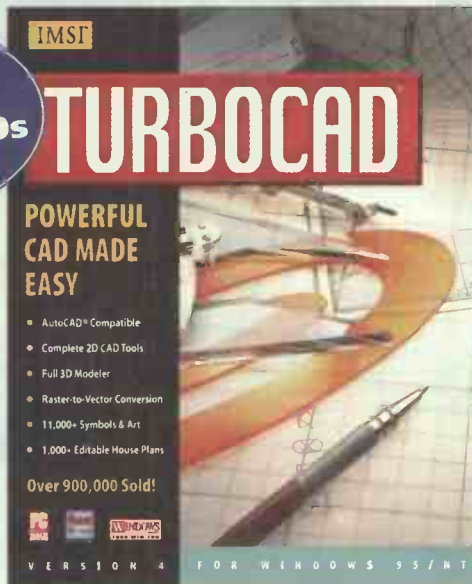
TurboCAD 4.0 is the latest version of the world's biggest selling mid-range desktop Computer Aided Design software, and it's available now! Built on an award-winning history, TurboCAD 4.0 delivers all the power, precision and functionality of much more expensive packages, but it is much, much easier to use. Its intuitive interface and 150 sophisticated drawing, editing and viewing tools allow you to produce professional quality designs with the least effort and in minimal time. Combined with advanced features such as handle-based editing, drag-and-drop symbols and blocks, single entry keyboard shortcuts and raster to vector conversion, TurboCAD is unbeatable value for money.

Whether you are an occasional user refining a design idea, or a professional creating working drawings, TurboCAD 4.0's incredible set of features and tools provides a powerful solution for communicating graphical ideas through drafting and design techniques. Drawing, editing, sharing files, printing and plotting has never been easier.

One million TurboCADs sold!

TurboCAD 4.0 offers an indispensable range of features:

- Read/Write even more file formats including AutoCAD DWG, DXF and DWF, HPGL, WMF
- Quickly vectorise images from any scanner and bitmap files directly into TurboCAD using the Intelligent Raster to Vector conversion
- Drag and drop any of the 16,000 ready made symbols and images into your designs
- Choose from 1,000+ editable house plans included in the package
- Start drawing right away using the Microsoft Office compliant interface, extensive tutorials, wizard-style set-up and Internet-based help functions
- Powerful 3D modelling with TurboCAD 3D
- Basic interpreter and macro language - powerful interactive scripts (Macros) can be created to automate repetitive sequences with Enable Basic
- On-line software synchronisation allows direct checking and updating of all TurboCAD components over the Internet
- Assign any function, command or snap to any single keystroke
- CAD edit bar with constraints - lock one or more variables when creating or modifying entities



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AUT052	Autosketch Int Archt Lib	£65.00
AUT053	Autosketch Electronics Lib	£65.00
AUT054	Autosketch Mechanical Lib	£65.00
AUT055	Autosketch sym lib	£115.00
AUT056	Autosketch II SYM Lib	£115.00
AUT057	Autosketch Internal Architecture	£115.00
AUT058	Autosketch Building Services Lib	£115.00
AUT059	Autosketch Electronics Symbol Lib	£115.00
AUT060	Autosketch Mechanical Symbol Lib	£115.00
AUT061	Autosketch Electrical Symbol Lib	£115.00
IMV001	"Cad Symbols 10,000 (cd)"	£69.00
IMV007	TurboCAD Designer 2d/3d	£24.95
IMV010	TurboCAD v3 50sur educ	£399.00
IMV015	TurboCAD v4	£299.00
IMV016	TurboCAD Professional v4	£229.00
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TCL082	Transmission-Shafts etc	£19.00
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TCL086	H & V symbols	£19.00
TCV005	Basic Electronics	£19.00
TCV006	Plumbing	£19.00

What the Press are saying

"...using TurboCAD we finished the drawings more quickly and with less wasted motion than on any other CAD product, including AutoCAD LT."

- Windows Sources, Mar '97

"TurboCAD is slick and powerful, and it comes with excellent documentation and tutorial aids. Version 4.0 is a powerful program, well ahead of other products which sell at the same price. Buy it, you won't be disappointed."

- PC Direct, Oct '97 "BEST BUY"



TurboCAD is perfect for:

- All AutoCAD Users
- All Visio Users
- Architects
- Mechanical Engineers
- Builders/Contractors
- Civil and Structural Engineers
- Electrical/Electronic Engineers
- Industrial Designers
- Interior Designers
- Facilities Managers
- Technical Drafters and Illustrators
- Hobbyists and Model-Makers

TurboCAD Professional



STOCK CODE: IMS015

£99 (inc. VAT £116.33)

This professional package has been designed for CAD specialists and provides all the advanced features and programmability demanded by corporate professionals and third party developers.

Reasons why TurboCAD Professional is the best choice for power and value

- All the features of TurboCAD 4.0, plus extensive, advanced functions are included
- Custom user interface - The user interface is completely customisable, allowing you to program TurboCAD to your specific requirements
- Advanced filters - Using TurboCAD's new 'plug in' filter technology, you now have the ability to import and export AutoCAD R13 DXF files including SAT (ACIS) solid models, EPS, AutoDesk's new DWF web format - and more!
- Software Developers Kit - Allows third party developers to extend or develop new technology based on TurboCAD's graphics engine.
- Advanced raster to vector functionality accommodates more complex, larger drawings. Professionals with a large scanner will no longer have to recreate existing drawings from scratch.
- Database - Attribute driven, external database creation, control and Interactivity. 'Point' your drawing objects to multiple external ODBC and other compliant databases for totalisation, reporting and Bills of Materials.



STOCK CODE: IMS016
£229 (inc. VAT £269.08)

TurboCAD Comparison Chart

	TurboCAD V4.0	TurboCAD Professional	AutoCAD LT WIN 95	Visio Technical 4.5
FUNCTIONALITY				
Complete CAD Functionality	YES	YES	YES	NO
Single-Entry Keyboard Equivalent	YES	YES	NO	NO
Customisable Menus and Toolbars	YES	YES	YES	NO
Drawing Set-up Wizards	YES	YES	YES	YES
Drag-and-Drop Symbols (from palette)	YES	YES	NO	YES
Drag-and-Drop Blocks (from palette)	YES	YES	NO	NO
User-Defined Path Hatching	YES	YES	YES	NO
Area and Distance Calculations by Path	YES	YES	YES	NO
Raster to Vector Conversion of Scanned Images	YES	YES	NO	NO
Entity Selection by Queries	YES	YES	NO	NO
Bi-Directional Parametric Edit Toolbar	YES	YES	NO	NO
Surveyor Coordinate System	YES	YES	YES	YES
Built-In Basic Programming Language	YES	YES	NO	YES
Object-Oriented Programmability	YES	YES	NO	YES
Third-Party Software Development Kit	N/A	YES	NO	YES
Aerial View	NO	YES	YES	NO
Full 3D Modeller	YES	YES	NO	NO
COMPATIBILITY				
AutoCAD DXF/DWG through R13	YES	YES	YES	NO
AutoCAD DWF	YES	YES	YES	NO
HPGL/PLT	YES	YES	YES	NO
WMF	YES	YES	YES	YES
BENCHMARKS - Benchmark comparisons on a Pentium P133, 64 megabytes RAM on Windows NT 4.0				
Time to load and initialise 12 megabyte drawing (120,000 entities) DWG drawing converted to native format	1min 51secs	1min 51secs	2min 21secs	FAILED
Street Price (ex. VAT)	£99	£229	£429	£219
All comparisons based on competitive products available as of 1/4/97				

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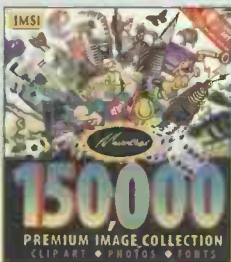
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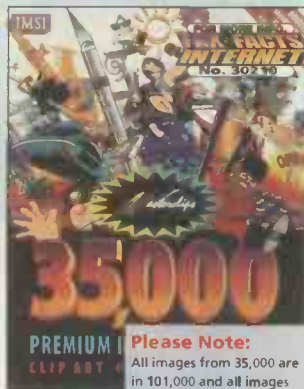
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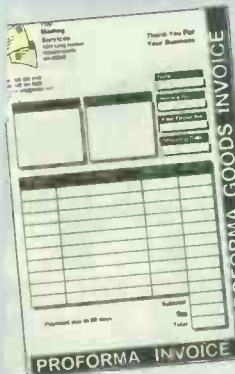
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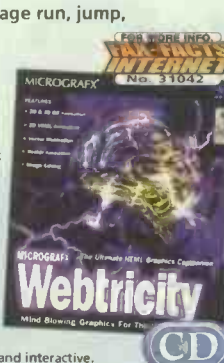
Micrografix Webtricity is a suite of four best of breed, tightly integrated Microsoft Office 97 compatible graphics applications that give anyone the ability to create the most exciting content and effects for their Web pages. Whether you are a Professional Web designer or a Web enthusiast, Webtricity offers you the chance to create web graphics that are fast, easy to use and interactive.

Micrografix Simply 3D 2 - gives novice users the power to create 3D graphics for the Internet.

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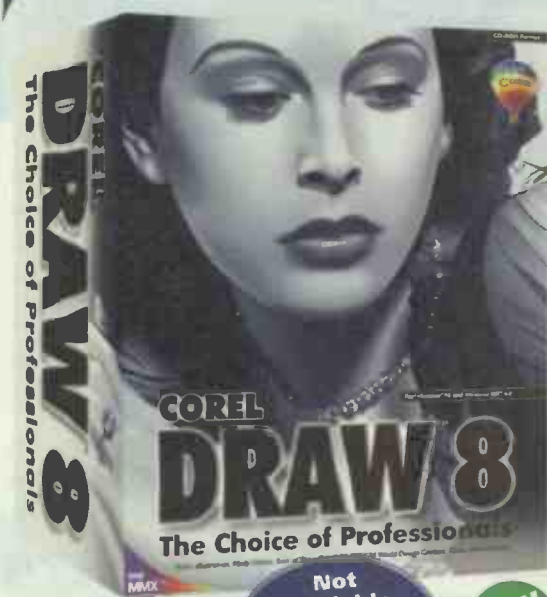
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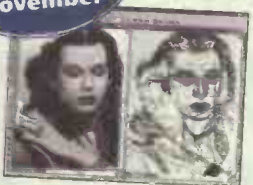
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A library of best selling plans and a full set of drawing tools let you create the ideal design, which you can fill with custom symbols, then walk through it in accurate 3D.

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Includes 5 Complete Products

	FloorPlan 3D Deluxe	3D Home Architect 2.0	Visual Home Version 1.0
1500+ 3D symbols	✓	✓	✓
Symbol creation/editing	✓	NO	NO
Integrated Roof Designer	✓	✓	✓
Full set of CAD tools	✓	NO	NO
Convert Lines to Walls	✓	NO	NO
Keyboard entry of wall length/angle for precision	✓	NO	NO
Plant encyclopedia	✓	NO	NO
Preview 3D symbols	✓	NO	✓
Estimator included	✓	NO	NO
Export to DXF capability	✓	✓	NO
1001 editable home plans	✓	NO	NO
View multiple levels in 3D	✓	✓	NO
Full 3D modeller	✓	NO	NO
Number of building levels	20	5	3

What the Press are saying

"We highly recommend FloorPlan Plus for any home-construction project. Its ease of use makes house designing a headache-free process, and its many features let you express your creativity while creating the house of your dreams"

Computer Shopper USA, Nov. 96

NEW SOFTWARE WAREHOUSE

Shops are opening throughout the Country

See pages 4-5 for existing store location

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- Features:**
- FloorPlan Plus 3D v3
 - 3D Landscape™
 - 3D Symbol Editor/ Modeller™
 - Quick and Easy Estimator*
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Autodesk

AutoCAD LT Windows 3.1

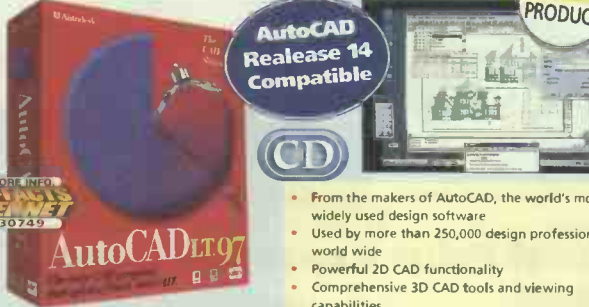


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STOCK CODE: AUT072 (Inc VAT £527.58)

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the only choice for professional CAD users

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Faster drawing operations - Opening and saving of files, block creation, zooms and pans, text display, and object creation, editing, and selection are all faster. Display operations in Paper Space and the Zoom Extents command require virtually no regens. Paper Space now supports real-time and transparent pan and zoom using a Microsoft® IntelliMouse™.

Quick Precision Drawing Tools - AutoSnap™ automatically detects geometric points during drawing and editing operations, and PolarSnap™ snaps your cursor to incremental angles or distances with a tooltip that displays the distance and angle.

Layer and Linetype Properties Dialog- This tabbed dialog box helps you to manage the creation and modification of layers and linetypes by their properties. It includes preset filters for controlling layer display and provides a description field for linetypes.

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What the Press are saying

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Personal Computer Magazine, December 1995
(Also won Personal Computer Magazine Reviewer's Choice award)



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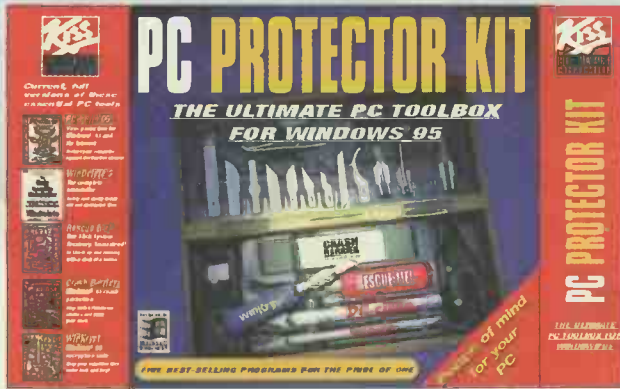
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Special Christmas Offer! PC Protector Kit



The ultimate PC toolbox for Windows 95

Save over £80 when you buy this special Christmas promotion from Kiss. PC Protector Kit is the ultimate PC toolbox designed for Windows 95 and comes complete with current and full versions of these PC tools:

- WinKrypt
- PC-cillin
- Crash Barrier
- Rescue Me
- WinDelete



Five best selling programs for the price of one!

Windows 95 crash protection

Stop 99% of Windows memory crashes, save your work and speed up your system. Crash Barrier cleans and stabilises Windows 95 to keep your computer working harder for longer.

Crash Barrier is a powerful memory and system resource manager for Windows. Running automatically in the background it uses smart software to correct the way your PC handles RAM and virtual memory for ultimate Windows multi-tasking!

The complete uninstaller

Safely and easily delete old and unwanted files and programs freeing up valuable hard disk space.

Installing software, surfing the Net and even system crashes, build up clutter on your PC. And that means wasted disk space and reduced system performance. WinDelete solves this problem by not only completely (and safely) uninstalling unwanted programs, but also compressing and archiving required data files or software. WinDelete is Internet savvy tool! It will manage your Plug-ins and hunt down and delete any downloaded web pages, sounds or graphics that are unwanted.

PC Protector Kit rescues vital system information, prevents PC crashes, deletes files and applications, cleans and tunes your system, protects against viruses, encrypts files and emails, and more!

One-click system recovery

If Windows 95 lets you down, Rescue Me will automatically get you back up and running once again at a click of a button.

Rescue Me is the hottest new program that is a must for anyone using, upgrading to, or supporting Windows 95. When you have spent hours perfecting your windows system, make sure Rescue Me is backing it up for you. In just seconds Rescue Me can identify the changes made to the Registry, configuration files, network connections, and more. Restore your windows system to it's previous working snap shot, automatically

Virus protection for Windows 95 and the Internet

Protect your computer against destructive Viruses that can infect and destroy your vital information.

PC-cillin 95 is the world's top-selling anti-virus package and is the only software that can keep you fully covered. It scans all Internet file transfers, checks incoming e-mail attached files, and scans more types of compressed files than any other package. Includes 1 year's FREE one-button virus pattern updates.

Keep your sensitive files under lock and key!

Windows 95 encryption suite, a Windows 95 file security suite that utilises password and encryption to lock data, secure E-mail and search for intruders. You can lock your important data with a click of a button or with a simple drag and drop. No expensive hardware is required. You simply lock with a password. Or, for added security you can use a disk to automatically create and store up to 45,000 keys. WinKrypt is a suite of three applications including KeyDisk, KeyMail and KeySearch.

WIKRypt
STOCK CODE RMG060
£22.95
(inc VAT £26.97)

net
STOCK CODE RMG009
£19
(inc VAT £23.33)

CRASH BARRIER
STOCK CODE KIS015
£19.95
(inc VAT £23.44)

RESCUE ME!
STOCK CODE RMG004
£19.95
(inc VAT £23.44)

Only Complete Uninstaller
STOCK CODE IMS004
£19.99
(inc VAT £23.48)

Hot Utilities	
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ARC036	Inoculan Nostorys utiliti.....£432.27
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CHE018	Inoculan 250ur Client Pak.....£615.00
CHE019	Push Agent Network v2.1.....£199.00
CHE024	Push Agent Arctene v1.....£190.00
CHE026	Inoculan for 95.....£30.00
CHE027	Inoculan NT Single User.....£35.00
CHE033	Cheyenne Antivirus toolkit.....£39.00
CHE037	Inoculan v4 u/g from vx.....£112.99
CHE042	Inoculan Agent for Notes.....£279.00
CHE064	Inoculan w/growp network.....£149.00
DAT034	F-prot pro avivirus win3.x.....£69.00
EDG019	Protector anti virus.....£79.00
GU1011	Viruscode plus v4.....£25.49
MAC006	Virusan 3-in-1 User.....£24.00
MAC011	Virusan 3in1 100User v2.....£1,751.00
MAC012	Virus scan 50 user lic.....£1,110.00
MAC020	Webscan v2.0 Single User.....£19.95
MAC023	Virusan 5in1 v2 50 User.....£1,299.99
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MAC031	McAfee Netshld n1 25node.....£215.00
MAC032	McAfee Virusscan Deluxe 2.....£59.99
MAC033	McAfee Virus scan v3.0.....£24.00
MAC034	McAfee Virus scan 3 quat.....£34.00
MAC035	McAfee Virus scan Deluxe 3.....£59.00
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MAC041	McAfee netshld v3.2 100.....£799.00
MAC042	Netshd/virusan 3yncorplic.....£23.88
MAC043	Net/virusan corp lic.....£0.00
MAC044	V scan n1 shield v scan ut.....£2,500.00
MAC045	Virusan v3 25ur 5in1.....£533.00
MAC046	Virus scan security sweep.....£49.95
MAC047	Netshld svr 10 ur v2.5.....£118.00
NOR021	Norton antivirus v3 w/nd.....£39.00
NOR035	Norantivirus 95 trade up.....£24.95
NOR040	Norantivirus nfm manuals.....£40.00
NOR041	Norton Win-Clr v2 v95.....£41.95
SOL002	Dr Sol Win-Clr Upp UKR.....£69.00
SOL010	Dr Sols Antivirus Monthly.....£132.00

What PC Protector Kit Does

Anti-Virus Protection	✓
Internet & E-mail Virus protection	✓
Internet Plug-In Manager	✓
Repair of Windows Registry	✓
Rebuild Registry	✓
Emergency Rescue	✓
Detailed System Information	✓
Live System Resources Monitor	✓
Crash Recovery	✓
Crash Protection	✓
File Encryption	✓
Clean Up Hard Drive	✓
Optimise Hard Drive	✓
One Click Decryption	✓
Protest Against File Delete	✓
Compress & Archive Unwanted/Used Applications	✓
Delete/Uninstall an Application	✓
Including Registry Entries	✓
Macro Virus Protection	✓
E-mail Message Encryption using password	✓
Backup & Restore Windows System	✓
Backup & Restore Windows Registry	✓
Monitor Systems Configuration Changes	✓
Manages RAM & Virtual Memory Usage	✓
Runs Scheduling Virus Scans	✓
Security Integrated With FileCompression	✓

Rescue-Me

Using Rescue-Me! the revolutionary new program that memorises & safeguards all users system settings. In the event of a crash one click restores the system to a working configuration. This ground breaking utility automatically tracks and stores every change to the Windows 95 configuration and Registry. Changes which occur during PC sessions & installation of all software and hardware are monitored for one click recovery.

PC-cillin

PC-cillin 95 gives complete protection from destructive viruses & scans all Internet file transfers, checks in-coming e-mail, attached files & scans more types of compressed files than most other anti-virus utilities. PC-cillin 95 detects & removes unknown viruses & automatically adjusts your system's protection level. With its Smart Monitor PC-cillin 95 watches your PC to detect all possible virus sources. The Clean Wizard expertly removes viruses & cleans your files step by step. NCSA Level 2.0 certification

Crash Barrier

Crash Barrier with its patented unique contiguous memory & resource allocation prevents system crashes before they occur. By using the contiguous access protocol Crash Barrier prevents Windows from randomly accessing resources - the cause of most GPFs. You will be able to safely run more programs than ever before without risking losing your valuable data. Crash Barrier's dashboard style Resource Monitor allows you to see at a glance all your important system statistics. Crash Barrier uses no memory or resource compression techniques - there are no unwanted side effects with Crash Barrier!

WinDelete

Every time you crash your system, install software or go on-line the clutter builds up on your hard drive. WinDelete can safely remove this clutter without deleting any of your critical information. WinDelete is designed to be Internet aware - it manages plug-ins & can hunt down & delete any downloaded web pages, sounds & graphics that are unwanted. With WinDelete you can also compress & store applications & files. WinDelete increases the performance of your system by locating, removing or archiving unwanted debris. Then click on the "Optimise" button to activate the System Tuner for fine tuning your System.

WinKrypt

WinKrypt's KeySearch makes it easy to maintain your system security by providing tools to monitor file activity & perform "housekeeping" tasks. Dynamic search options allow you to search for files that were accessed or created or not used at all in any date range you select right down to the last few minutes. WinKrypt introduces a new concept in data protection & security. It allows you to lock files on your stand alone or network PC without expensive hardware. WinKrypt's KeyMail allows you to set-up multiple passwords & profiles to secure your Internet & Intranet communications. Encrypt confidential messages & sensitive attachments with a single click, receive & decrypt with just a password. No special decryption tool required.

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Super Sharp Super Color



50% OFF when ordered with a printer

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- Support for the largest suite of printer drivers for Windows NT4.0 - over 150 printers now supported

STP026 SuperPrint V5 95/NT V4 (Inc.VAT £57.58) **£49**

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ClickBook enables you to make a variety of double sided booklets, greeting cards, or organiser pages, instruction manuals and much more without owning a duplex printer or knowing how to create the layouts in your applications.

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What the Press are saying

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 "ClickBook comes with lots of predefined layouts. You're unlikely to need anything more, but more, but you can create or modify layouts as needed."
 "A no brainer to use and saves paper" PC Guide (5 Star Rating).

BT015 ClickBook 2.0 (Inc.VAT £52.82) **£44.95**

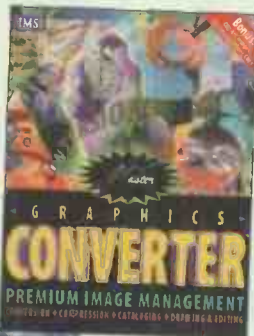
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Graphics Converter™ 97 is the solution to ALL your graphic conversion and management needs, and is perfect for anyone who uses graphics, photos, fonts, video clips and other multimedia content regularly, such as designers, creative departments, sign-writers, artists, printers, publishers or web page designers.

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- Includes 10,000 high quality, vector-based WMF clip art images, 20 video clips and a powerful browser and thumbnail catalogue

STOCK CODE: IMS018

£29.99 (Inc. VAT £35.24)

WinDelete V3



The only complete Uninstaller from IMSI

When you install Windows software on your PC, go on-line, or crash your system, clutter builds up on your hard drive. It will slow down your system and waste valuable disk space. To clean up the clutter and improve system performance, you need more than just another uninstaller. You need an uninstaller that can tell the difference between the garbage and the critical stuff. You need WinDelete - the safest, easiest and most complete way to keep your system running smoothly and efficiently.

The most complete way to keep your system running smooth!



- Uninstall any Windows '95 or Windows 3.1 software. Completely install and remove your 16-bit and 32-bit apps, safely!
- Safely delete applications and related files WinDelete will make sure you don't "accidentally" delete vital, shared system files. It's that simple! Hunt down orphan files, remnants from system crashes, old back-up files and all sorts of stray files buried on your hard drive.
- Archive instead of deleting old files. WinDelete's expanded Windows 95 archiving lets you compress and restore an unlimited number of applications and related files.
- Free hard disk space & improve system performance. Clean-up tools remove unassociated icons, unused fonts and unneeded files. Remove Junk that stacks up, hogs your memory makes your system run slower.
- Keep Internet plug-ins & downloads under control from Shockwave® to VRML® WinDelete manages, updates and uninstalls all your Netscape® plug-ins. Hunt down and remove files downloaded from on-line services including web pages, graphics, movies and sound files.



STOCK CODE: IMS004

WinDelete £19.99 (Inc. VAT £23.49)

NetAccelerator!



Go twelve times faster on the Internet!

How much time do you spend waiting for your favourite pages to download from the World Wide Web each day? NetAccelerator can increase your Internet Explorer or Netscape web browsing speed by up to 12 times, making the most of your network connection and getting the most out of the World Wide Web in no time at all! It works by using the idle time of your modem to intelligently load web pages in the background. Whenever you pause to view a site, NetAccelerator stays busy behind the scenes seeking out available links and downloading related graphics and text. When you choose a link, the pictures and text appear instantly! No special hardware is needed as NetAccelerator works with standard modems, ISDN and direct network connections. And because NetAccelerator works in the background there are no complicated instructions and there's very little to learn.



Oct 1997

NetAccelerator overtakes the competition

FEATURE	NetAccelerator	Netlet
Background caching of links from current page	YES	YES
Smart caching of favourite/common pages	YES	YES
Automatic updates from the web	YES	YES
Supports Internet Explorer and Netscape	YES	YES
Caching of graphics	YES	NO
Supports multiple browsers on one machine	YES	NO
Installation size	2.5MB	4.5MB
Space required for private cache	0	Very Large
Automatics browser detection/monitoring	YES	NO

STOCK CODE: IMS017

£24.95 (Inc. VAT £29.32)

Net Accelerator

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when you spend over £50

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Quick View any file - whether you have its application or not!

Imagine being able to view, print and manage virtually any file or document, no matter where it came from, without even having the application on your PC! Quick View Plus will enable you to view documents, graphics, spreadsheets, database files, presentation slides, zipped archives, even HTML files without having any additional software.

View over 200 file formats:

Gone are the days when you can't read files because you don't have the right software loaded. Quick View Plus brings you the world's leading technology, letting you view over 200 different file formats, fully formatted. It's like having hundreds of applications inside your PC!

'Look before you launch':

there's no need to waste time opening a resource hungry application just to look at a file. You can even avoid the expense of buying applications you seldom use - you'll wonder how you ever did without it!

View Internet files without downloading:

look at Internet files before you download them, saving hours of wasted time and phone bills and saving your hard disk from unwanted clutter!

What's new in V4.5?

- Support for MS Word 97, Excel 97, Freelance 97, and Lotus 1-2-3 formats
- Integration with MS Outlook 97, Eudora for Windows 95 and NT 4.0 and Internet Explorer 3.0 for Windows 3.1.
- Host for third-party plug-ins, allowing you to use your favourite plug-ins within the Quick View Plus window.

Launch native applications fast for instant editing.

The quickest way to print your view.

Seamlessly integrates into windows 95/Windows NT 4.0 including Microsoft Exchange. Instantly see e-mail attachments.

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NEW Version 4.5 Now Available

Includes support for MS Office 97 files

PC Advisor RECOMMENDED

Quick View Plus
The Industry-Leading File Viewer

Packaging for illustration purpose

What the Press are saying

"...Quick View Plus - The Mr Universe of file viewers" PC Direct

"...another of those killer must have utilities for the Windows 95 environment" Computer Shopper

"...a shining example of what a utility should be. It's brilliantly simple and simply brilliant" Personal Computer World

Print a file without viewing it first - the Quick Print feature in the Windows 95/Windows NT 4.0 version is fast and easy.

See files as they were originally created! QuickView Plus displays columns, headers/footers, page numbers and footnotes. Even embedded graphics and DLE objects remain intact!

QuickView Plus identifies the type of file being displayed - even if the extension is incorrect.

Supports hyper-linked documents, so you can instantly look at related files



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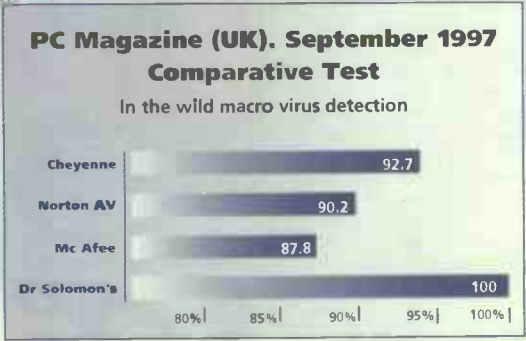
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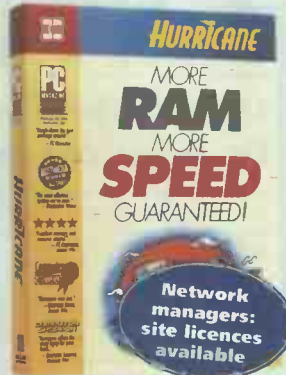
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"It's hands down the best package around" PC Magazine



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DataSAFE

Protect your data with DataSAFE. The most secure data encryption program ever!

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- Encrypts any kind of file
- Encrypts files onto every kind of medium, whether floppy disk, removable hard drive, Zip drive, tape streamer or other
- DataSAFE uses a password, a combination and BLOWFISH, a 16 pass block encryption algorithm that has never been broken
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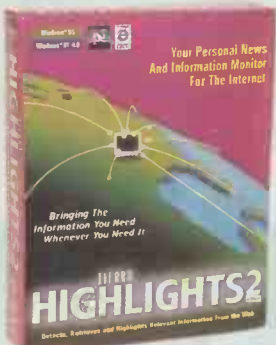
Transmit secure data to anyone

- Transmit data to clients without the hassle of establishing public key exchange, common data formats and common encryption methods
- Recipients do not need to have their own copy of DataSAFE to read your files. All they need is the correct password.
- For common addresses and office use, users can place individual safety deposit boxes within a safe, each with it's own combination. Simple to use and trust
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Highlights2 puts users back in control of the Internet by monitoring user - defined sites for new information and alerting them when it arrives. Now there's no need to browse sites to check what's going on - when something happens, you're the first to know.

Highlights2 improves the quality and efficiency of the information retrieved from the Web using 3 simple steps:

1. Set up Highlights2 to monitor selected sites and alert you of changes as they appear, so you don't waste time searching for new information that isn't there.
2. Saves pages onto your hard disk for fast, easy, off-line access.
3. Highlights the changed part of each page so that you can quickly access and find new information.



"Every Web user should have a copy of HIGHLIGHTS 2 on their hard disk" Internet Mag, April 97



STOCK CODE: TIE002
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Turbocharge your Internet performance with PeakJet

Introducing the worlds first realtime, On-line Internet performance accelerator.

How can you make the Internet less frustrating? With enough cash you can cut your wait time by installing ISDN, a Direct PC satellite link or other speedy connection and break through today's 33.6 modem speeds, but why waste over £1000 on ISDN when you can have the same speed Increase by making your modem work harder.

Faster Internet browsing:

peak.jet is a revolutionary software utility which can increase your browsing speed by several times. It does this by enhancing performance on several fronts:

Faster Modem utilisation - no matter what modem you have:

The average modem is only 11% efficient. If you watch your modem lights whilst browsing the Net, you'll notice an interesting fact. The lights aren't on. Unless it's downloading the current page, a modem just sits idle until you decide to click on a button or link. In reality, your modem is only working for around 11% of the time you spend surfing. peak.jet increases modem efficiency to around 90% of capacity.

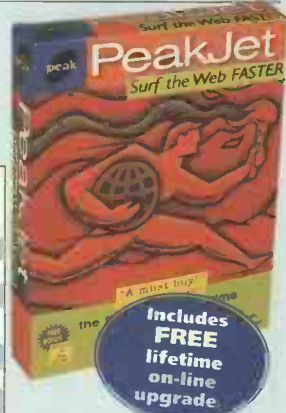
Faster access to your favourite sites:

peak.jet monitors your usage patterns and learns the way you browse, then it speeds up access to the sites you visit most often.

Speed comparison on popular news sites*

	CrossAtlantic Net	
	PeakJet	Accelerator
Average delay after click on link	1.3 Sec	6.7 Sec
Longest delay after click on link	2 Sec	16 Sec
Works with Window 95 and NT	YES	NO**
Configurable look-ahead agents to speed browsing	YES	NO
Cache sharing with other users	YES	NO
Create multiple caches	YES	NO
Move cache	YES	NO
User-friendly chart so show look-ahead progress	YES	NO
Automatic software updates	YES	NO
Unlimited FREE updates	YES	NO

* P100, 32RAM, 28.8 modem. Comparison based on the time between when a link was clicked and the time the page started to display in the browser. **Win 95 only



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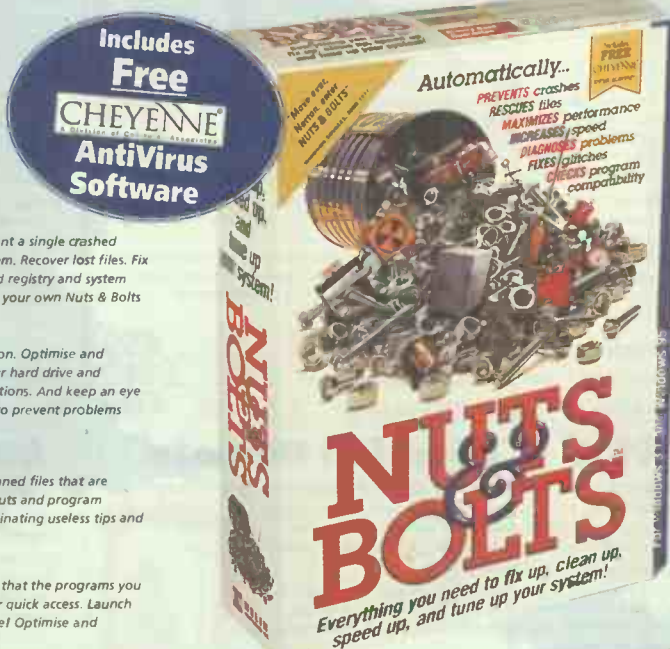
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FIX UP

Avoid crash-causing application conflicts. Prevent a single crashed application from taking down your entire system. Recover lost files. Fix damaged files, repair shortcuts, directories, and registry and system settings. Boot up after the worst disasters with your own Nuts & Bolts rescue disk.

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Test all your hardware with the push of a button. Optimise and customise your Windows effortlessly. Tune your hard drive and Registry for conflict free installation of applications. And keep an eye on your memory and critical system resources to prevent problems before they occur.

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Nuts & Bolts Cleans and Optimises

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Registry Wizard - Instant therapy for application conflicts. Every time you add or delete hardware or software you wreak havoc with your registry. NUTS & BOLTS Registry Wizard means automated housekeeping - cleaning, repairing, optimising and fixing the registry for maximum performance.

Cleanup - NUTS & BOLTS Cleanup collects the rubbish left behind by deleted programs and gets rid of it for you. Cleanup can even zip the files just in case you need them:

Nuts & Bolts Prevents & Protects

Includes full copy of Cheyenne Anti-Virus software, including real-time scanning and removal, scheduled scans and updates via the Internet.

Bomb Shelter - A safe haven for your system NUTS & BOLTS Bomb Shelter saves your data by letting you save crashed or hung programs. But unlike others, Bomb Shelter doesn't stop there. It protects Windows from misbehaving programs, so that a crashing program won't crash your entire system.

WinGuage - Know what's happening before disaster strikes. NUTS & BOLTS WinGuage uses a series of user-friendly gauges to display the status of your system in real time, and warns you of potential problems before they occur.

Trash Guard Pro - Yikes! You just deleted that really important file NUTS & BOLTS Trash Guard prevents such accidents and allows you to recover deleted files even from DOS and 16-bit Windows Programs

Discover Pro - Put hardware and software configuration at your fingertips. Discover Pro is the only program which tells you how much RAM your open programs are using.

Nuts & Bolts Secures and Manages

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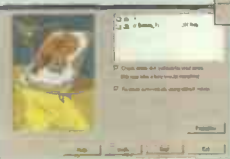
Nuts & Bolts out classes the competition!	NUTS & BOLTS	SYMANTEC NORTON UTILITIES	FIRST AID 97
Easy to use Central Interface	YES	NO	YES
Repairs & Recovers Damaged Files & Hard Drives	YES	YES	NO
Automated Clean & Repair Windows Registry	YES	MINIMAL	YES
Rebuild & Optimise Registry for Maximum Performance	YES	NO	NO
Optimise Hard Drive (N&B Disk Tune is up to 5x Faster)	YES	YES	NO
Cleanup Hard Drive	YES	YES	NO
Provides Detailed System Info	YES	YES	NO
Protects Against Accidental File Delete	YES	YES	NO
Emergency Rescue & Recovery	YES	YES	NO
Hardware Diagnostics	YES	DOS ONLY	MINIMAL
Live System Monitor	YES	YES	NO
Crash Recovery	YES	NO	NO
Crash Protection	YES	NO	NO
Easy System Configuration	YES	YES	NO
Zip / UnZip Files	YES	NO	NO
Drag & Drop Zipping	YES	NO	NO
Zip Integrated with File & Hard Drive Cleanup	YES	NO	NO
Encrypt / Decrypt Files	YES	NO	NO
High Security Encryption	YES	NO	NO
Security Integrated with File Compression	YES	NO	NO
Secure Erase Feature	YES	NO	NO
Secure Erase works with Compressed Drives	YES	NO	NO
Self De-crypting Files for easy E-mailing	YES	NO	NO

What the Press are saying
 "To come close to the features that Nuts & Bolts offers, you'd need to buy 3 Symantec packages at over £150".
 PC Advisor, November 1997

DiskMinder helps you recover from the worst disasters by repairing and recovering damaged hard disks.



Cross Atlantic SOFTWARE



Disk Tune puts the files you use most at the beginning of the hard disk so you can access them faster.

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This eliminates the need to have a separate ISP and phone connection for each user, cuts administration expenses, and reduces memory usage on each PC requiring Internet access. Additional features include Eudora™ Light e-mail client software; Tierra Highlights™ Internet monitoring and alert software; NetCentric™ FaxStorm™ software for cheaper faxing over the Internet; Forte FreeAgent news reader; and Kali™ Internet gaming software.

Features and benefits:

- **Lowest Price** — i.Share 2.5 is less than half the price of competitors.
- **Easy to use** — i.Share embodies Artisoft's hallmark ease of use, beginning with easy installation.
- **Powerful Features** — i.Share offers more features than any other Internet access sharing product.
- **Proven Performance** — i.Share has been successfully tested with many of today's most popular Winsoc Internet applications.



ART049	Artisoft i.Share v2.5 3 Concurrent Users	(Inc.VAT £69.33)	£59
ART050	Artisoft i.Share v2.5 32 Concurrent Users	(Inc.VAT £175.08)	£149
ART048	Artisoft i.Share v2.5 U/G 3-32 Users	(Inc.VAT £104.58)	£89

Artisoft CoSession Remote™

Complete Remote Computing and File Transfer in one Package!

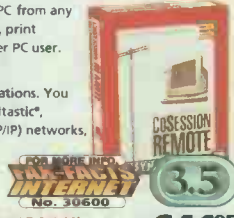
CoSession Remote™ lets you access and control a distant PC from any location. You can run programs, check e-mail, access data, print reports, transfer files, or observe the operations of another PC user.

Connect to any PC or network

Supports Windows 95 as well as Windows and DOS applications. You can connect to PCs over modems or across NetWare®, LANtastic®, Windows 95, IPX/SPX, NetBIOS, NetBEUI and Winsoc (TCP/IP) networks, including the Internet.

Fastest CoSession ever

Major speed improvements make CoSession Remote one of the fastest products on the market.



ART019	CoSession Remote V7/2Pcs	(Inc. VAT £49.29)	£41⁹⁵
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COREL® WebMaster Suite™

Everything you need to CREATE and MANAGE your Website

Corel® WebMaster Suite brings a new level of power to the world of Web site creation and management. This comprehensive suite combines state-of-the-art Web site authoring tools with professional site management functionality and sophisticated graphics. It also offers advanced database publishing, 7,500 clipart images and 30 days of free site hosting.



Corel® WebMaster Suite -

with some of the most powerful Internet applications available, this program lets you quickly and easily create professional-looking Internet sites. Exclusive tools such as Corel® WEB DRAW, Corel® MOVE, and Corel® WEB. PhotoPaint help you create visually appealing Web sites that will keep visitors coming back for more!

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publish your database information to the Internet using Corel® WEB.DATA. Select, sort, lay out and publish your data and graphics quickly and easily. Import database of any size from most major data sources.

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Graphics - add flair to your Web with	(Inc. VAT £163.33)	£139
COR518	Corel WebMaster Suite	£139

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E-mail that makes your business look bigger, run smarter and faster!

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FEATURES AND BENEFITS:

- **Easy to use and administer** — send and receive e-mail internally or throughout the Internet in one system, using Eudora™ Light.
- **High Performance** — Powerful features include intelligent mail routing, event logging, easy ISP dial-up and list server support.
- **Affordable** — One of the least expensive e-mail solutions you can buy without compromising features and performance.
- **Open Network and Platform** — Xtramail works great on any TCP/IP network, including Microsoft, Novell™ and LANtastic. The server supports POP3, SMTP and DNS and runs on either Windows NT or Windows 95.
- **Grows with you** — Scalable to handle hundreds of e-mail clients.



ART04	Artisoft XtraMail for Windows 95	(Inc.VAT £186.83)	£159
ART045	Artisoft XtraMail for Windows NT	(Inc.VAT £269.08)	£229

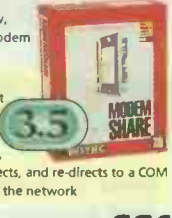
Artisoft ModemShare™

One phone line, one modem, for everyone in the office.

Online services and the Internet have become vital business tools. Now, there is an easy, affordable solution to dedicating a phoneline and modem for each user — with INSYNCR® ModemShare™.

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- **Shares modems and phone lines** — Works with your favourite Internet browser and other on-line access programs — Provides total inter-operability between Windows 95, Windows 3.x and DOS PCs
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ART020	ModemShare V7 1port	(Inc.VAT £71.68)	£61
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KIS012	SmartDRAW	(Inc.VAT £58.74)	£49⁹⁹
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- Multithreading capability
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- Sharing of MS Word user dictionary
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- Automatic identification of multiple languages
- Enhanced Microsoft Office compatibility with office 95 and 97

Also, True Page Recognition reads, edits and saves complex documents in their original full page format and OCR Wizard guides you through the whole OCR process. Upgrade to OmniPage Pro from any other OCR software for only £99

CAE003	OmniPage Pro V8.0	(Inc.VAT £386.58)	£329
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2 Ways to get more information!

1. If you have a fax machine simply dial 0851 518 960 to receive brochures through your fax machine, see below for details of charges.

2. If you are connected to the Internet simply visit our website to get more in-depth information on the products you require. <http://www.software-warehouse.co.uk/>

* Calls are charged at 39p per minute, cheap rate and 49p per minute at all other times.

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World's No1 choice for safe hard drive clean up!

CleanSweep Deluxe is the safe and effective way to remove unwanted programs and files from your hard drive, including files downloaded from the Internet.

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The essential hard drive management utility optimises your hard drive, without wasting time



Partition-It is a revolutionary hard drive management utility specifically designed for today's hard drives. Partition-It automatically optimises the storage capacity of your hard drive and makes it easy to manage your data and applications for ease of access and better performance using hard drive partitions. Partition-It lets you add and re-size hard drive partitions, without having to back up, remove and restore the data on your hard drive partitions like you have to do with FDISK utility provided with Windows 95 and 3.1.

FOR MORE INFO
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QUA067 Partition-It (Inc.VAT £30.49) **£25⁹⁵**

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With the new QEMM 97 you get the most from your memory for Windows 95, Windows 3.1 and DOS! QEMM 97 picks up where Windows 95's memory management leaves off, loading 32-bit applications up to 60% faster and dynamically reclaiming under-used memory, resulting in snappier application performance.



QEMM 97 automatically analyses your system and configure itself for top performance. Now includes Update-It for automatic updates over the Internet, guaranteeing you always have the latest version. With over 4 million copies sold and major awards, QEMM 97 brings a decade of know-how to your Windows 95 PC. QEMM 97 is the best integrated set of memory management tools for Windows 95, 3.1 and DOS!

QUA079 Qemmm97 CD (Inc.VAT £50.47) **£42⁹⁵**

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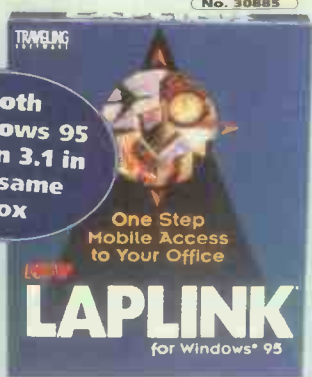


LAPLINK

V 7.5

One step remote access to your desktop!

Wherever you're working LapLink allows you to dial into the office to access all your files and use applications that reside on your PC at work. You can do all your word processing, spreadsheets and database manipulation, manage your e-mail, check out the latest data on the network, all from any PC - even printing out on your office printer if you wish. It really is just like being there without being there.



Both Windows 95 & Win 3.1 in the same box

One Step Mobile Access to Your Office



Features

- LapLink's quick, it's easy, and it's less than £100
- Win.NT/Win. 95 seamless integration, both versions supplied in the box
- Seamless integration with Win. 3.1 version
- High performance remote control and file transfer
- Connect via modem, cable, TCP/IP or IPX network, Dial up network or Internet
- Synchronise one of many folders
- Xchange agent automatically updates files or other documents between your PCs
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TRAVELING SOFTWARE

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TRA022 LapLink for Win. 95/Win. NT (CD) (Inc.VAT £111.63) **£95**

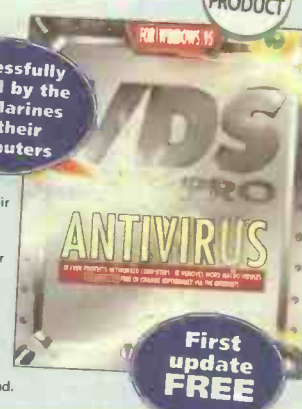
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Even now your computer might already be infected by one of the innumerable viruses in circulation, which could destroy all your data and seriously damage your system. The risk of infection is so high that the level of protection provided by a simple anti-virus routine might not be sufficient. VDS PRO has also been successfully tested by the U.S Marines on their computers, and is the only program capable of giving total security. VDS PRO for Windows 95 is a complete program which will make your computer impervious to virus attacks, detecting and fighting both newly devised viruses. VDS PRO for Windows 95 checks every vital part of your system and "photographs" the basic components of the computer. Once it has been installed, VDS checks the system at pre-established intervals, and steps in immediately whenever a suspect change is found.

Successfully tested by the U.S Marines on their computers



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NEW PRODUCT

First update FREE

Why VDS PRO for Windows 95 is better than the others

- It is NOT based on specific viruses, so it can search for the viruses by means of the signature or through powerful heuristic algorithms.
- User-friendly and highly intuitive user interface suitable even for inexperienced users.
- A memory-resident module for continuous monitoring of the system
- Removes active viruses masked in the memory.
- Automatically manages an integrity database to protect and check its own files.
- Designed specifically for MS Windows 95
- Compatible with Windows 95's new FAT32 structure.
- Identifies and removes Word macro viruses
- Automatically recovers damaged partitioning tables and boot sectors.
- Protects networked computers, compatible Novell Network, Banyan and Lantastic network drivers.
- Creates an emergency disk for restoring vital parts of the computer damaged by a virus.
- Constantly updated virus data bank.

The updates can be downloaded from the Finson Web site or you can make a handy yearly subscription.

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£17

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QUA039	Procom Plus v3(95&3.11)cd	£79.95
QUA078	Procom plus32+Web comp	£99.00
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TRA022	Laplink for 95NT v7.5	£95.00
TRA024	Laplink v5 Dos - 10usr Lj	£49.80
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TRA027	Laplink 95NT 10usr h&r	£674.80
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Complete hard-drive imaging for fast back-ups, hard drive upgrades and system recovery!

Drive Image is a complete hard-drive imaging solution for fast backup, upgrades and system recovery. This is the easiest, fastest – and most comprehensive system for complete hard drive duplication we've seen, and a must for today's busy PC user. Drive Image lets you easily create a compressed image file of an individual partition or an entire hard drive. This file can be stored on a network, Jaz, Zip, CD-ROM, or other hard drive and then downloaded to make quick work of backup, disaster recovery, or upgrading to a new, larger capacity hard drive. With Drive Image, image files can be downloaded to drives of the same size or resized to fit drives of different size and geometry for maximum flexibility – a great feature. Drive Image uses innovative new "SmartSector™" technology (which copies only used sectors) rather than slower, file-based copying, so it is very fast and completely operating system independent, so it will work with any files you have, with just a couple of mouse clicks!

Drive Image is compatible with FAT, FAT32, NTFS, HPFS, NETWORK, LINUX, and UNIX.

Everything You Need To Duplicate Your Hard Drive

- Create a compressed "Image File" of a partition - or an entire drive!
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- Download to drives of different sizes or geometry
- Operating System Independent.

STOCK CODE: POW030
£49⁹⁵ (Inc. VAT £58.69)
 POW031 Drive Image Pro User Pack.....**£499**



Attention Network Managers Drive Image Professional also available!

Drive Image Professional is the easiest way to clone workstations. With Drive Images imaging technology, you can create and download an image file to configure multiple workstations in the matter of minutes. Pack contains an unlimited user license per technician for both Drive Image and PartitionMagic. Full product and documentation included in every pack.

	Drive Image	Drive Image Professional
Copy the entire contents of one drive to another drive within the same computer.	✓	✓
Copy individual partitions or entire drive	✓	✓
Create and restore hard drive image files	✓	✓
Create and restore hard drive image stores or backup, upgrades and system recovery	✓	✓
Change partition size once when copying from source to destination	✓	✓
PartitionMagic's create, resize and move technology for use on the source or destination drive	✓	✓
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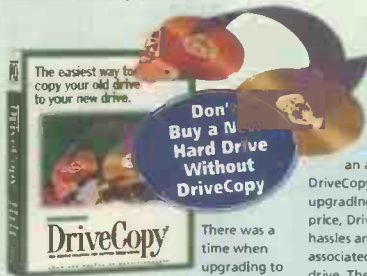
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DriveCopy

The easiest way to copy your old hard drive to your new drive!



drive meant hours of downloading your data, applications and operating system to disk; then hours more of reinstalling everything to your new hard drive. If it all went well, you could be looking at few days worth of work. Of course, there was always the risk of scrambling your data or losing it altogether in the process - you may have already had this terrifying experience. Fortunately, now there's DriveCopy, from PowerQuest™. With a few simple steps, everything from your old hard drive is automatically copied and proportionately re-sized to your new one

without losing a single preference, setting, or byte of data. No re-installing, no data loss, no headaches. And it's fast! The price of a new hard drive is at an all-time low. And now, with DriveCopy, so is the cost of actually upgrading your current drive. For this low price, DriveCopy does away with all the hassles and prohibitive costs that were once associated with upgrading to a new hard drive. The process that used to take as much as several days to complete can now be done in a matter of minutes. And rather than paying a professional up to £150 to copy everything over, you can save yourself the trouble (and the cash) by using DriveCopy. So go ahead - update your dinosaur with a new high-capacity hard drive. With DriveCopy, it's never been easier or more affordable. DriveCopy supports all the popular operating systems and their file systems: Windows 95, Windows NT, Windows 3.x, DOS and OS/2. 100% safe

Do this simple two-step for any new drive

- STEP 1**
 Physically install the new hard drive in your computer case for IDE drives (the most common), set the jumpers for the new drive as master and the old drive as Slave. (The DriveCopy manual shows you how).
- STEP 2**
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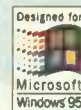
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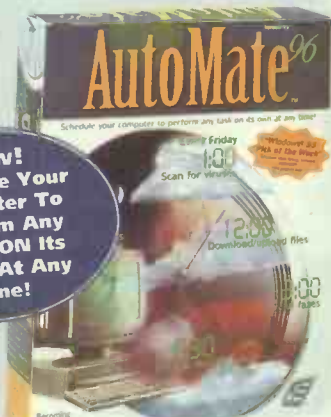
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What the Press are saying

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Windows Sources, November 1996

Ziff-Davis Publishing Company



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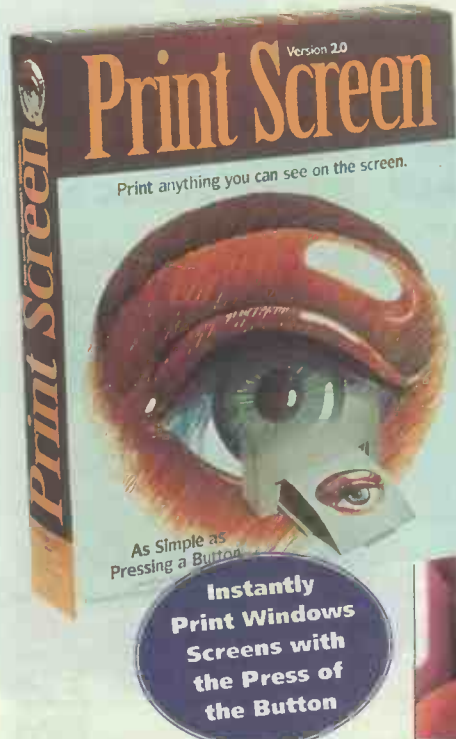
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Director of Educational Initiatives.

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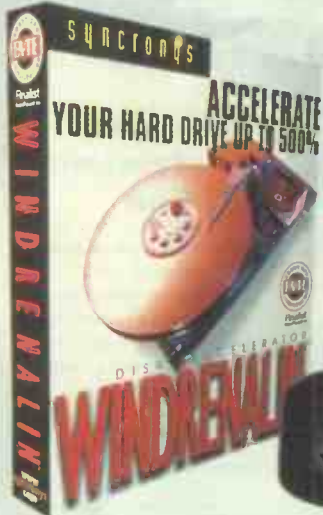
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Pentium 150	104%	88%	49%	455%
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Netcape Navigator™ Version 3.0		Delrina WinFax Pro™ version 7.0	Microsoft Word® version 7.0	Netcape Navigator™ version 3.0

The table above is a test by PCTest measuring how much faster you can launch these applications, even while multi-tasking (four intense, concurrent disk access processes). While results may vary based on your system, applications and nature of multi-tasking there is still a vast improvement.

Key Features:

- The Application Launch Acceleration reduces the time it takes for applications, particularly large ones, to load and begin working
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Performance of multiple searches on Compton's Interactive Encyclopedia

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SpeedyROM™	94.98 sec	42% slower
d-Time95™	96.03 sec	43% slower
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Key Features:

- Store frequently used data on your HD for improved performance!
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System Requirements

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It's all about speed!

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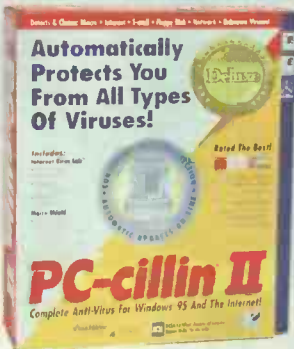
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First Aid 98



First Aid's new interface is easier to use than before. Users can give their PC a complete "Check-Up" or zero in on a single PC component.

First Aid is more persistent and fixes tens of thousands of Windows problems with a single mouse click. First Aid's expanded database of solutions allows it to stay on the job until the problem is solved. In the rare case when you experience a problem that First Aid does not know about yet, you can send an ActiveHelp-mail to the manufacturer. Included in the e-mail is the PC's system information, everything First Aid did to fix the problem, and a description of the problem in your own words.

PC won't start up correctly? First Aid's new emergency recovery system now rebuilds Windows. Using its extensive Knowledge Base, First Aid will check every critical component of Windows to make sure all files are working properly. When a problem is encountered, First Aid fixes it either by readjusting your system or by reinstalling missing or damaged files.

Plagued by damaged files? First Aid checks to see if actual programs (VDX, DLLs, 386s etc) damaged and replaces the damaged files with their originals (which First Aid reinstalls from the CD).

Having trouble with your Web connection? First Aid will scan your entire PC to see if conflicts caused by buggy software, out-of-sync technical standards or incorrect registry settings are the culprit. First Aid will correct the problem by updating the troublesome component or driver. First Aid answers hundreds of "How do I...?" computer problems via informative videos and/or automated tasks which show the user exactly how to perform a specific function.

- One button checks your entire PC for hardware and software problems
- Checks for conflicts between your various hardware and software components
- Provides comprehensive crash protection - and downloads bug fixes to prevent new ones
- "How-to" videos walk you through the more complex problems
- Can "Undo" repairs made (so it's always safe to use)
- Fixes problems in over 10,000 Windows programs
- Lets you recover from a bad software or hardware upgrade
- Checks all multimedia components and repairs any problems found - at the click of a mouse
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- Finds and replaces damaged system and program files
- Sends an e-mail message to the software/hardware manufacturer to help resolve tougher problems
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Fixes Windows Problems... Automatically!

First Aid 98



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Over 2 million copies sold

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Key Features

- Uninstaller lets you specify the amount of disk space you want to free and then recommends files (cache files, temp files, duplicate files, unused fonts, screen savers, etc) for deletion.
- Uninstaller uses its exclusive Smart Links™ technology to completely remove any software program without deleting shared or critical files.
- UNINSTALLER even safely removes the many software programs, games and 16-bit applications that Windows 95 doesn't remove.

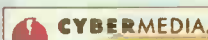
Safe & Simple

- Uninstalls any application - even those windows can't
- Identifies duplicate and junk files that can be safely deleted
- Moves applications to another folder, drive of computer, with all files intact
- The only software in it's category that won't remove critical or required files
- Makes your PC like new again

What the Press are saying

"...for extra piece of mind, you'll find Uninstaller the ideal house cleaner for your overstuffed system"

PC Magazine



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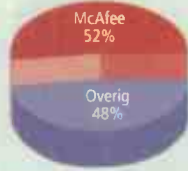
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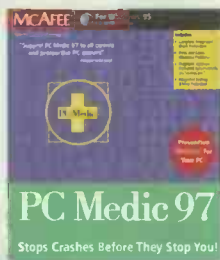


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- MCAD28 McAfee Remote (Including VAT £46.94) **£39⁹⁵**
- MCAD30 MAQuick Backup v2.0 Win 95 CD (Inc VAT £35.19) **£29⁹⁵**
- MCAD27 MA e-Mail It! v2.4 Win 95 3.5" (Inc VAT £29.32) **£24⁹⁵**

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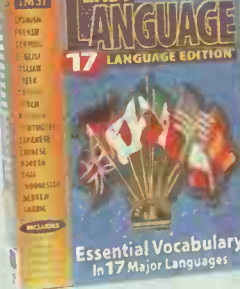
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Use UnZip files without unzipping them	✓	✓	✓	✓	✓
Run any program within a Zip file	✓	✓	✓	✓	✓
Repair damaged Zip files	✓	✓	✓	✓	✓
Convert other formats to Zip	✓	✓	✓	✓	✓
Updates itself over the Internet	✓	✓	✓	✓	✓
Fully integrated file viewing	✓	✓	✓	✓	✓
Modify Zip contents at will	✓	✓	✓	✓	✓
Create Sub-folders in Zips	✓	✓	✓	✓	✓

What the Press are saying

"Spectacularly innovative...one of the best utilities ever written, and no one who uses ZIP files should be without it"
 - PC Magazine, 12/96 on ZipFolders
 "So easy it's almost invisible. Makes using ZIP files as easy as managing any other files on your disk."
 - PC Magazine, 12/96 on ZipFolders

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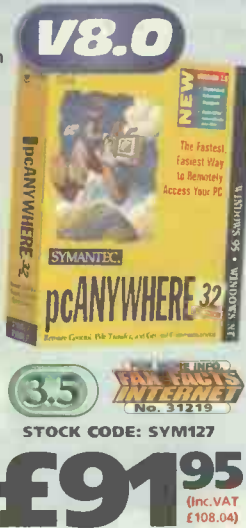
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What the Press are saying
 'pcAnywhere wins "best to sell" award for best supplier of Remote Access Software'
 The VAR, November 1996



3.5
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 PC Magazine, June 1997

- SYM053 ACT! v3.0 for Win 95/NT (CD) **£125⁹⁵** (Inc.VAT £147.99)
- SYM062 ACT! v3.0 for Win 95/NT (3.5) U/G **£79⁹⁵** (Inc.VAT £93.94)

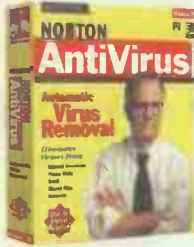


Norton AntiVirus

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- Repairs infected incoming files.
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- Protects against the most devious viruses.

A revolutionary tool in next-generation polymorphic detection, Striker technology tricks encrypted, mutating viruses into revealing themselves in a virtual clean room before they can get to your files. Backed by state-of-the-art research, Symantec AntiVirus Research Centre (SARC) engineers work around the clock to identify and neutralise new viruses and potential virus threats before they can endanger your files. Visit the SARC Web page at www.symantec.com/vcenter. Easy to use. Installs in minutes. Works in the background to provide continuous, automatic protection. Industry leader in macro virus detection and repair. Rescue Disk Set creates emergency disks that let you restart and repair your system even when the operating system won't load.



- NOR041 Norton AntiVirus Win 95 v2.0 **£41⁹⁵** (Inc.VAT £49.29)
- SYM058 Norton AntiVirus NT v2.0 **£41⁹⁵** (Inc.VAT £49.29)
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What the Press are saying

'Effective detection plus an excellent repair capability that's easy to use make this product the best choice for protecting your Windows 95 system against viruses'
 What PC, February 1997

- NOR021 Norton AntiVirus v3.0, Win 3.X / DOS **£99** (Inc.VAT £116.33)

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What the Press are saying
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 Computer Buyer, February 1997

- NOR031 Norton Utilities Win 95 v2.0 **£49⁹⁵** (Inc.VAT £58.69)
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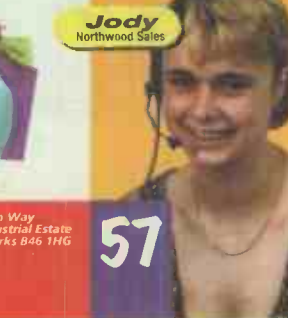
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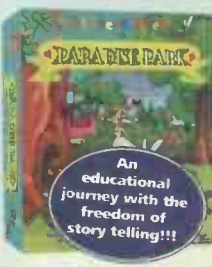


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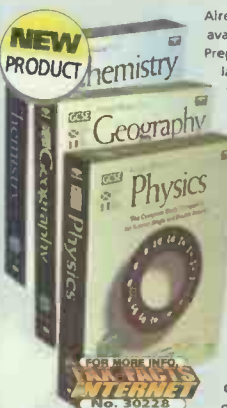
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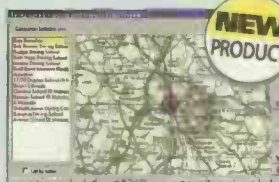
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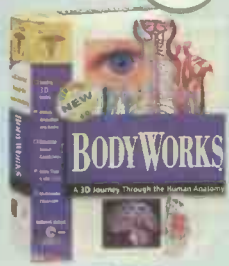
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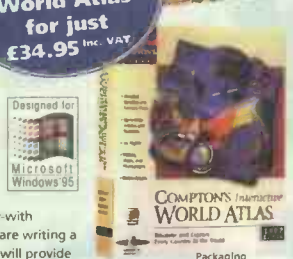
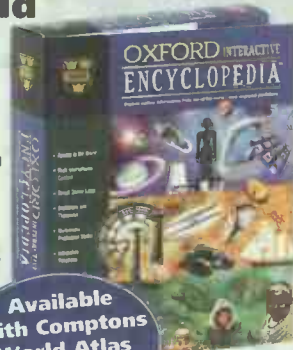
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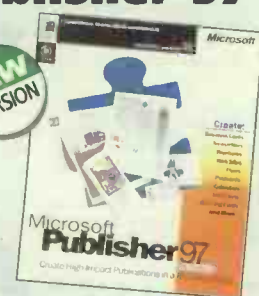
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Microsoft Publisher 97

Create high impact publications in a few easy steps!

Microsoft Publisher 97 for Windows 95 makes creating professional looking newsletters, flyers, brochures, compliment slips and Web pages quick and easy through its automated design wizards. Be creative with easy to produce newsletters, flyers and Web pages for your home or business.



MIC532	Microsoft Publisher 97 CD	(Ex. VAT £69.78)	£81⁹⁹
MIC533	Microsoft Publisher 97 3.5	(Ex. VAT £68.94)	£81

Microsoft® AutoRoute Express™ 98 Great Britain

The complete, easy-to-use travel planner for Great Britain.

Welcome to the latest release of Great Britain's award-winning CD-ROM based travel planner the 98 edition, which boasts a powerful new routing engine capable of calculating most routes in seconds, a cleaner user interface, and thousands of updated articles, sounds, images and links to the Internet. Users can plan fun family holiday or efficiently organise business travel with ease. AutoRoute Express truly makes planning the Journey as much fun as the trip itself.

£10 Cash rebate to existing users

- Clearer, more easy-to-read map styles - roadway and terrain. The maps for this release have been comprehensively updated with the very latest Ordnance Survey.
- More than 65,000 destinations across Great Britain, connected by over 143,000 miles of roads.
- Improved "Route" Wizard functionality that enables users to find map places or attractions even if they are unsure of the spelling! AutoRoute Express uses a new engine to search its databases based on the way a user spells a place, or words that sound the same.
- 4,200 sights and attractions - listings on 850 golf courses, 130 football clubs 75 ski resorts, and 240 museums.
- 250 campsite reviews from The Alan Rogers Good Camps Guide plus 900 listings from Les Routiers' * hotel and restaurant guide.
- 450 scenic photographs, including 9 dramatic 360-degree panoramas.
- Many links to the Internet to help users keep their travel and route planning itinerary up-to-date.

STOCK CODE: MIC871

£49⁹⁵ (Ex. VAT £42.51)

Microsoft® AutoRoute Express™ 98 Europe

The complete, easy-to-use travel planner for Europe.

Microsoft AutoRoute Express Europe 98 makes it fun and easy to plan all of your weekend stays, family holidays and business trips for more than 400,000 cities, towns, and villages across Europe.

£10 Cash rebate to existing users

MIC870 AutoRoute Ex 98 Europe **£49⁹⁵** (Ex. VAT £42.51)

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*See page 2 for Price Pledge

products for the home



Flight Simulator 98

Best of the world's most accurate flight models for the PC with Microsoft Flight Simulator 98

The leader in flight simulation for the PC pushes technology and realism beyond the horizon. With a global database of scenery and airports, pilot-tested flight models, and a fleet of challenging aircraft, flight simulator 98 is simply as real as it gets.

Seven exciting aircraft, including the new Bell 206B JetRanger III helicopter, Cessna's new 182 and the new Learjet 4.5

Realistic and absolutely accurate flight models. Realistic scenery and graphics incorporating support for the latest 3D acceleration cards and MMX™ technologies.

High resolution instrument panels in all aircraft. A total of more than 45 3-D detailed cityscapes from all over the world, and new photo-realistic areas such as Hong Kong.

An online Airport and Facility Directory to help you fly with confidence into any of more than 3000 airports.

New multiplayer options that put you in the sky with up to seven other planes.

Exciting challenges and 18 new adventures test your piloting skills, whilst its easy to get help with 23 lessons (17 new)

Force feedback support.

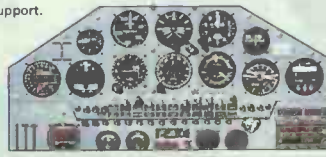


£10 Cash rebate to existing users

Test the worlds most accurate flight models for the PC

STOCK CODE: MIC879

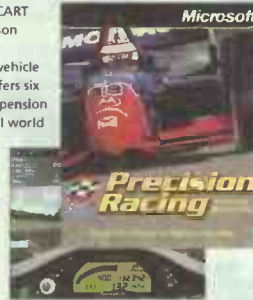
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CART Precision Racing

CART Precision Racing pushes your driving to the limits, giving you the drive of your life.

- Features all the official CART tracks and the 1997 Season teams.
- Most advanced 4-point vehicle physics model, which offers six degrees of freedom, suspension strut movement and real world steering.
- Photorealistic cockpit, out-the-window 3D graphics, digitally sampled sound effects and convincing motion captured human movement for pit crew animations.
- Accurate Artificial Intelligence - Computer controlled cars will follow the unwritten rules of racing, so that complicated racing manoeuvres, such as rolling starts and passing are carefully executed.
- Tracks modelled from GPS source data within 10cm of accuracy to the real ones.
- Supports 3D graphics acceleration, supports MMX technology.
- Players can download data that will update driver, team statistics and race results or integrate data such as racecar set ups and race weekend qualified grids so you can replicate grid positions to start on.
- For the first time experience a true first person driver's perspective. Vibrations, turns, acceleration and other forces will affect the first person view as the driver experiences them.
- Play on the Internet or over a LAN for your chance to race your friends



(Ex.Vat £18.72)

MIC512 Microsoft Golf V3... **£22**

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Strategy, Fun and total chaos in a battle to save The Lost World

Think fast. Move event faster. You control a team of scientists stuck on an island packed with prehistoric perils. Have courage, have guts, but most of all have a plan of attack.

- Build an army of friendly dinosaurs, to help you on your quest.
- Experience real state of the art panic!
- Hear the celebrity voices from the film.
- Fight your way through 12 bone crushing missions
- Manage your resources, plan your strategies, solve the problems and defend The Lost World from your enemies.

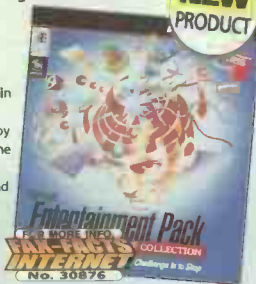


MIC874 MS Chaos Island The lost World (Ex. VAT £19.95) **£23⁴⁴**

Microsoft Entertainment Pack

The Puzzle Collection

A multitude of leisure games to keep you going for a while or for a week! Enjoy 10 original games so challenging and addictive your brain will beg for more. Featuring games by Alexey Pajitnov, the Russian mastermind behind Tetris, you'll find they're easy to play yet tough to master!



MIC899 Entertainment Pack..... **£19⁹⁵** (Ex.VAT £16.98)

Goosebumps II

Attack of the Mutants

Play if you dare, mortal!

Goosebumps comes to life in this thrilling 3D action game. The masked mutant has an evil plan to take over the world and only you can stop him.



MIC880 MS Goosebumps II **£24⁹⁵** (Ex.VAT £21.23)

Microsoft Golf V3

Adjust your grip on reality.

Microsoft Golf 3.0 provides amazingly realistic play on well-known championship-level golf course. Championship courses are simulated hole-by-hole, including all the dog-legs, sand traps and gusty winds that make them such a challenge, plus course fly-bys, customised stance and swing, and a panorama of camera angles - makes it a real experience.

- Play against friends in head-to-head competition, whether they're across the street or across the country, with Multiplayer technology.
- New Instant Rendering of each hole means there's no waiting between shots.



MIC512 Microsoft Golf V3 ..(Ex.Vat £18.72) **£22**

Age of Empires

How will you rule the world? Conquer enemy civilisations? Discover the world's secrets? Accumulate wealth?

As the guiding spirit of a small Stone Age tribe, follow one of these paths to build the greatest civilisation on earth.



Rule the World and create the greatest Empire on Earth

- Build your tribe into a powerful, flourishing empire through more than 10,000 years of real-time evolution
- Create your own historically based conflicts with a fully integrated scenario editor.
- Command powerful armies in some of antiquities greatest battles.
- Direct a research path that leads down many paths to economic wealth, technological discoveries, military units including Infantry, warships, chariots, war elephants and archers and more.
- Choose from multiple gameplay options including more than 40 pre-set scenarios, individual campaigns, or randomly generated games.
- Conquer or co-operate with up to eight other players in multiplayer games via modem, LAN, or the Internet.

STOCK CODE: MIC872

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DATA BECKER SOFTWARE QUALITY SOFTWARE FOR THE HOME PC USER

3D Dream House Designer



Design software allowing rapid construction of multiple floors, with a 'walkthrough' option on screen to view the finished environment.

This powerful software package is ideal for the home designer or the professional wishing to promote their proposals. The walkthrough can be saved as an AVI file and viewed as a video. Exterior landscapes can also be created to provide the ideal setting for your dream house.

Construction of the floors is quick and easy and there are 1500 furniture items to choose from. Items can be simply positioned using 'drag and drop' and a collision detect system prevents objects from being crammed into too small a space. In addition, roofs can be automatically, or manually constructed to fit your plan.

The most impressive aspect is the raytracing feature, this creates photorealistic images containing illumination and shadows from sun, moon and streetlights, as well as from internal light sources. For customers who already own 3D Walkthrough, the good news is that your projects can be loaded into 3D Dream House Designer and roofs and exterior scenes can be added.



For Win 95 & NT 4.0
DATA03 3D Dream House Designer (Ex. VAT £42.51) £49⁹⁵

3D internet designer



DATA BECKER SOFTWARE

Make your Web page stand out with 3D internet designer!

Now at last you can take advantage of the virtual Reality Modelling language to make your site really worth a visit. Build your own virtual rooms, cities and worlds '3D Internet Designer' provides the user with a range of ready made 3D objects, which can then be overlaid with colour, lighting and textures.

- The Object Editor allows you to build from simple shapes to create more complex objects - using the Extrusions, torus and Splines as well as an option to create your own objects.
- Place objects in 2D or 3D mode within Scene Editor and you can link them, move them around and alter their scale within the scene.
- The Virtual reality element comes alive when you go into Camera Editor, Selecting a variety of styles of camera to give a range of views. Present an effective 'camera run' of your scenes to your home page visitors. By changing the aperture settings, different focal lengths can also be achieved. Choose from 4 different lenses:- Normal, Wideangle, Tele and Supertele.



For Windows 95 Only
DATA038 3D internet designer (Ex. VAT £27.66) £32⁵⁰

You Don't Know Jack
 Only £6.95 EX VAT

The irreverent quiz show party game

With wall-to-wall studio sound effects and original music, YOU DON'T KNOW JACK™ and its sarcastic host will whisk you from the green room to prime-time at a pace so fast it'll chap your lips.

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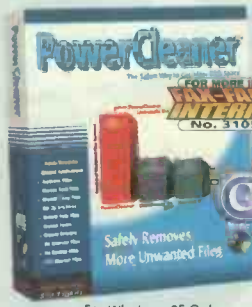


PowerCleaner

DATA BECKER SOFTWARE

Cut clutter with the most advanced file management system!

It's a big problem. A hard drive littered with files from programs that you no longer use, or old versions of programs you've since up-graded, even clutter left on your machine after being connected to the internet or other on line services. It all adds up to sluggish system performance. The solution, of course is to safely remove all of those obsolete files... but how? Uninstalling applications yourself can be a risky business. Every application puts bits into places you don't know about... and its the files you don't see that can cause the problems. In addition, PowerCleaner™ is the most advanced file management system designed to reduce the clutter that can accumulate on your hard drive. PowerCleaner thoroughly and safely removes software you no longer need, finds duplicate files, and maintains your system files.



This illustration shows the number of files deleted after uninstallation of Microsoft™ Office 95 using PowerCleaner, Clean Sweep 95, Remove-it and Uninstaller. Microsoft office 95 was installed prior to the installation of any uninstaller.

For Windows 95 Only
DATA032 PowerCleaner (Ex. VAT £19.53) £22⁹⁵

Colour Copier

DATA BECKER SOFTWARE

Turn your scanner & printer into a colour photocopy

Colour Copier turns your colour scanner and colour printer into a full featured photo copier. Simply place your original in the scanner and set your copy Features! Large corporations have invested millions in developing the interface for both simple and complex photo copiers. Colour copier emulates that interface, allowing everyone to produce both simple and complex copies, from the scanner to the printer.

- Use contrast and brightness pre-sets or create your own.
- Pre-sets supplied for text only, Black and white photos, colour photos, and Newspapers.
- Supports up to 16.7 million colours
- Rotate images
- Mirror Images
- Add date and time stamp to your copy with comments.
- Save scan to disk for later duplication.



- System Requirements** PC 486 or higher
- 8 MB RAM for black and white
 - 16 MB RAM for colour
 - Windows 95 or Windows 3.1x
 - A4 Flatbed or sheetfed scanner (with TWAIN, ep HP, Logitech, Microtek, UMAX, Mustek, Epson, AGFA, Primax, Trust etc)

DATA033 Colour Copier (Ex. VAT £24.68) £29

Personal & Business Card Creator 3.1/3.11 Win95



Personal and Business Card Creator provides over 1000 sample designs and fonts from which you can select your ideal card. Ideal for both adults and children

Once you have entered your details in the address file and found the sample you want, all you have to do is select it then print to perforated A4 card or A4 sheet. All major card formats are compatible with the Personal and Business Card Creator. If you are feeling a little more creative, modify one of the example designs, or design an original from scratch by simply using fresh shapes. Graphics can also be imported and Text rotated to any angle.

Once your chosen design is complete, the automatic alignment of objects produces a professional card for any occasion. You have 20 Categories from which to select a format, Including Hobbies, Professions, Sport, and Occasions, thus giving scope for designing anything from a place card to a get well card.

For Win 3.1/95
DATA039 Personal & Business Card Creator (Ex. VAT £14.89) £17⁵⁰

3D Walkthrough Home Designer

DATA BECKER SOFTWARE

Plan out your home or office with the powerfully realistic Home Designer package!



3D Walkthrough Home Designer is an application that everyone can use and enjoy regardless of previous experience, employing the full power of your computer 3D Walkthrough Home designer can help you to plan out your home, office, school or even stage as a 2D plan. Once you have added the walls doors and windows, furniture and accessories can be added in either 2D or 3D mode. Whilst most other 3D design products do this '3D Walkthrough Home Designer' shines in that it has a texture catalogue of over 600 materials, fabrics and colours, with which you can decorate your walls, floors, and furniture. This allows you to cover the doors in wood grain, the walls with textile, and the floors with carpet, marble and tile. The furniture catalogue contains over 1000 items all of which have their own textures and materials. The full power of 3D Walkthrough Home Designer is realised when you 'walk through' your design on screen.



Available on CD-ROM only and including over 50 3D furnished sample drawings and 5 AVI files of sample walkthroughs

For Win 3.1/95
DATA018 3D Walkthrough Home Designer (Ex. VAT £29.74) £34⁹⁵

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*See page 2 for Price Pledge

AA Multimedia

NEW! FOR HOME AND OFFICE

AA MileMaster Britain & Ireland

The AA's 85 years of experience in route-planning at your fingertips



The AA has some pretty impressive navigation know-how and a huge database that allows their breakdown services to reach the remotest spots. You'll be pleased to learn that this expertise has been incorporated into MileMaster Britain & Ireland allowing you to plot a route between any of 40,000 places in the British Isles. The map is very clear and easy to understand thanks to the fact that it's based on traditional paper-based road mapping, which has won awards for its clarity and legibility.

The most impressive feature, though, is the sheer detail of the text route directions, which can be

printed or copied to the clipboard for pasting into another application. Accrued mileage and miles between points is listed and, when road signs are mentioned, it tells you exactly what you will find on the sign.

- ✓ Fast!
- ✓ Accurate and detailed directions - all routes are checked and driven by the AA.
- ✓ Plot your route on eight different scales of mapping.
- ✓ Choose your own route - fastest, shortest, avoiding low bridges, country roads. Even choose a road that you want to avoid, like the M25!
- ✓ Choose from AA's inspected hotels (4,500), restaurants (1,700), B&B's (3,000), campsites (1,000), places to visit (2,000), and golf courses (2,500) - and locate them all on the map.
- ✓ Ideal for business and pleasure; calculate mileage, journey times - even your expenses.



Voted Britain's Clearest Mapping



AA StreetMaster London

Use the revolutionary technology developed for in-car navigation. AA StreetMaster London is your door-to-door trip-planner within the M25.



FOR MORE INFO INTERNET No. 31212

Choose your route by car, on foot or by public transport. All routes for motorists include the latest data on one-way streets, no right turns and other restrictions.

- Click on a street as your start or finish point.
- Type in the street number for door-to-door accuracy.
- Full street index.
- Print out your route in detailed text or mapping.
- Choose to display theatres, cinemas, night clubs, galleries, museums, historic buildings and many other places to visit.

It's Streets Ahead!

AA5007 AA StreetMaster London..... (Exc.VAT £34) **£39⁹⁵**

AA Virtual Paris & AA Virtual London

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AA5008 AA Virtual Paris (Exc.VAT £19.99) **£23⁴⁴**
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FREE London Street Map

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The ultimate interactive bird guide and identification tool. Perfect for every birdwatcher, and the fun way to learn about birds.

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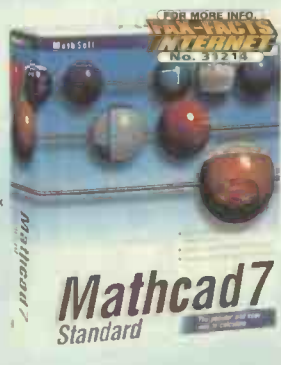
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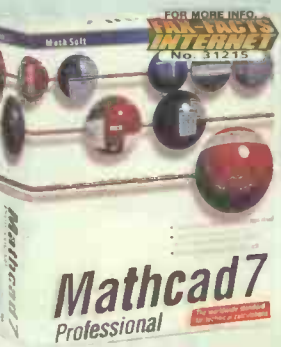


MAT036 Mathcad 7 Standard..... (Exc.VAT £160.85) **£189**

Mathcad 7 Professional

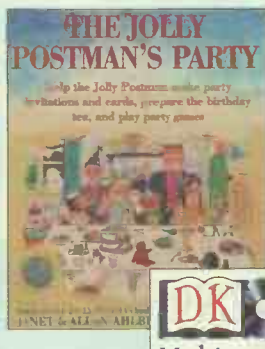
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Ditto Drive Jaz Drive

You've got insurance if you crash your car. But what if you crash your hard drive?

Installs in just 5 minutes

You'd better hope you've got Ditto tape backup from Iomega. There's a whole family of easy-to-use drives, including the new 2GB drive, that will back up your hard drive and protect your stuff, because as you know, accidents can happen. It installs in 5 minutes. (No driver's ed required.)

1-Step Backup software makes backup as easy as a point and a click. Customised routines to back up while you work. Beltless design means no parts to wear out and that means even greater reliability. Compatible with standard Travan tapes. The Ditto family has a drive capacity for every level user:

- Ditto 420MB basic coverage.
- Comprehensive Ditto Easy 800.
- The Ditto 2GB
- The Ditto Easy 3200. (For even the most accident prone.)



(Inc. VAT £69.33) **£59**
IOM036 Iomega Ditto 2Gb Internal
(Inc. VAT £104.58) **£89**
IOM037 Iomega Ditto 2Gb External

Ditto Deluxe Bundle

You've got insurance if you crash your car. But what if you crash your hard drive?

The most ideal way to back up your hard drive now comes in a new portable bundle. If you need to transfer large amounts of data over large area or you need to trouble shoot in a large office or corporation, this Ditto Deluxe Bundle has everything you need and comes complete with this stylish carrycase - all for a very attractive price!

Bundle includes:

- 2Gb Tape Drive
- Ditto Carry Case
- 3 Ditto, 2Gb pieces of media
- Ditto NT Drives

STOCK CODE: IOM 010

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Check out this new Jaz drive from Iomega. It's a portable drive with removable 1GB cartridges.



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It runs faster than most hard drives.

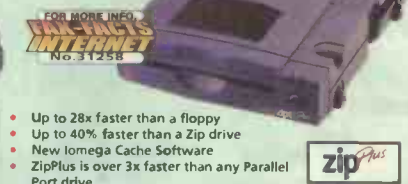
Just connect it to your PC or Mac and you're jammin': files, pictures, graphics, video, CAD stuff, whatever. With its dark green colour, hey, the cat's got style. A whopping 1GB (yeah, gigabyte) cartridges for as low as £79 and since they're removable, you can share them, mail them, collect a whole pile of them, and never run out of storage. There's so big, one cartridge can hold 8 hours of jazz tunes, a 2-hour movie, 150 colour photographs, or tons of Internet stuff. A lightweight drive weighs only 2 pounds, so it's easy to take around town and with a 10-12 millisecond seek time means performance is faster than most hard drives. Comes with Jaz Tools software, everything you need to store, share, back up, organise, and manage your stuff.

(Inc. VAT £213.85) **£182**
IOM021 Jaz Drive (SCSI Internal)
(Inc. VAT £274.95) **£234**
IOM023 Jaz Drive (SCSI External).....

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Powerful desktop storage and tape backup in one simple device

- Single product with Incredible flexibility
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- Worldwide solution (100-240v)
- Also works with standard Zip drives Power Management
- Disk eject button doubles as an on/off switch
- Decreases power consumption when drive is not in use
- Extends life of battery and drive
- Small flexible cable



- Up to 28x faster than a floppy
- Up to 40% faster than a Zip drive
- New Iomega Cache Software
- ZipPlus is over 3x faster than any Parallel Port drive

Zip Performance vs. Floppy Drive	
ZipPlus	28x
Zip	20x
Floppy	x

(Inc. VAT £175.06) **£149**
IOM052 Iomega Zip Plus

Zip Drive

There's nothing worse than a bad data day. Which is why you need a Zip drive.



NEW LOW PRICE

This little blue number is the hottest portable drive on the market. It's got hard drive-like performance. Its 100MB floppy-size disks have room to store all your stuff. So put one on your desk - it's bound to make it more interesting. There's enough room to back up hard drive files, run applications, or store a couple hundred photos of you in better hairdos. The portable drive weighs about a pound, so you can take it anywhere, and a Zip disk fits right in your pocket. Its 29 millisecond seek time feels like a hard drive's performance. You can even run software right from the drive. There's unlimited storage when you fill up a disk, just pop in another. It comes with Zip Tools software to help store, share, back up, organise and manage all your stuff. Comes in an appealing blue colour.



(Inc. VAT £101.05) **£86**
IOM022 Zip Drive (parallel port)
(Inc. VAT £104.58) **£89**
IOM020 Zip Drive (SCSI).....

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(Inc. VAT £57.88) **£49**
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*See page 2 for Price Pledge

NOMAI 680.RW

Endless possibilities to read, write and erase

It reads all CDs - Audio-CD, Video-CD, CD-ROM, CD-R (write), CD-RW (re-write). The NOMAI 680.RW is already a universal drive that can read all CDs on the market.

You can create and write your own CDs - Drive and recorder, the NOMAI 680.RW provides new, limitless possibilities: record your favourite CD, audio compilation, CD-ROM, CD-i, photo-CD. You can record your own CDs at will. Write compact discs (CD-R) can be read by all CD-ROM drives and all laser (CD hi-fi, car radios, etc).

Archiving - 650 Mb of memory, seek memory time cut to 290msec... the performance of the NOMAI 680.RW is ideal for fast archiving of your multimedia data (text, sound, video, download Internet data, etc.)

Save - With the new UDF program, you can save as simply on a diskette for a per Megabyte cost that is the lowest

Data exchange - Once your data is on CD (ISO 9660 standard), you have a universal, transportable medium that can be used anywhere in the world

Customise your CDs - A software kit with 10 labels is provided with all PC versions. You can easily customise your CDs and so sign your creations.



- 3 Drives in 1
- The Normal 680.RW allows you to read, write, erase, and rewrite CDs
- A full start-up kit included
- As easy to use as a floppydisk
- Simply drag and drop to copy your files

NOM023 Internal E-IDE Kit.....	(inc.VAT £327.83)	£279
NOM021 Internal SCSI (inc. card).....	(inc.VAT £386.57)	£329
NOM022 External SCSI (inc. card).....	(inc.VAT £433.58)	£369
NOM012 External parallel port.....	(inc.VAT £433.58)	£369
NOM010 CD-recordable.....	(inc.VAT £3.53)	£3
NOM011 CD-rewritable.....	(inc.VAT £16.45)	£14

HP SureStore HEWLETT PACKARD Surestore CD-Writer Plus

Simple as a floppy with the qualities of a CD!

Make an Impact

The HP SureStore CD-Writer Plus uses revolutionary CD-rewritable technology to enable you to write, update, erase and rewrite up to 650MB of data on a single CD-RW disk. Now you can use CDs just like a floppy for dynamic storage applications such as multimedia presentations, audio and photographic projects which can then be easily transported to other users. For maximum versatility the HP SureStore CD-Writer Plus is compatible with both CD-RW and existing CD-R media.

Easy to Use

Included is Adaptec's DirectCD software for Windows 95 and Windows NT 4.0, which supports the new CD-UDF standard and allows you to simply 'drag and drop' files to the CD Quick and Easy Installation

To provide maximum flexibility, the HP SureStore CD-Writer Plus is available as both an internal and external model. The internal version comes complete with Install Assistant, HP's new software to enable users to install the drive quickly and provide optimal performance of the drive.

New CD-RW Media

The best hardware deserves the best media. Like the existing HP CD-R media. Like the new HP CD-RW disks are one of the most reliable, cost effective media solutions available.

Plus it enables CDs to be written over and over again - up to 1000 times per disk. Designed and tested for optimal compatibility with the HP SureStore Writer

Plus, it is also compatible with other multi-session CD-ROMs and CD-Writers supporting the MultiRea standard



HWP276 HP SureStore CD-Writer Plus 7100i.....	(inc.VAT £307.85)	£262
HWP275 HP SureStore CD-Writer Plus 7100e.....	(inc.VAT £377.18)	£321

*Next-day delivery from £6⁹⁵ E&OE. All prices exclude delivery, see page 2 for Terms & Conditions.

NOMAI 750.c

Endless hard disk with endless capacity

Compatibility means continuity - One of the major advantages of the NOMAI 750.c is that it has retained the essential. This new drive still enables you to use your Syquest™ 135 and 270Mb and of course your NOMAI 540 and 750 Mb cartridges. You gain additional performance without losing your existing files. You can distribute and exchange all the data recorded on 3.5" cartridges.

750 Mb in a 3.5" cartridge! - On a single cartridge, you immediately add 750 Mb to your computer (more than a CD-ROM), impressive capacity for such a compact machine and certainly enough for most applications. Memory becomes unlimited by adding extra cartridges.

The fastest in its category - Average seek time: 10.5 milliseconds; data transfer rate: 3.46Mb per second, the NOMAI 750.c is up to three times faster than its competitors. More comfortable to work with and you will save precious time with frequent use.

As simple as a diskette - Easy to install. "Plug and Play" makes it very easy for you to install instantly your NOMAI 750.c on the computer of your choice

Easy to use: insert the cartridge, write, delete, and save as if you were using an ordinary diskette.

Solid, reliable and safe - The sturdy design and quality of all components used in Nomai products, the extreme reliability of Winchester technology combined with mono-plate cartridges, the mechanical system tried-and-tested in the NOMAI 540, are your guarantee of complete reliability.

Microsoft Windows NT Compatible



- 750 megabytes per 3.5-inch cartridge
- The performance of a hard disk - 10 ms access time
- As easy to use as a floppydisk
- Perfect for expanding your hard disk capacity, for backups, archiving, distribution, and more
- Ideal for multimedia applications

NOM016 Internal SCSI.....	(inc.VAT £186.83)	£159
NOM017 External SCSI.....	(inc.VAT £222.08)	£189
NOM018 External parallel port.....	(inc.VAT £263.20)	£224
NOM019 750 mb.....	(inc.VAT £45.83)	£39

HP Colorado 5GB

Looking for a PC backup solution that won't keep you waiting?

The new HP Colorado 5GB and 5GB external deliver extremely high performance and high capacity at an astonishingly low price.

Both models provide an impressive capacity of up to 5GB on a single data cartridge* and store data at a rate of up to 2GB in well under an hour**. Weighing in at less than a kilo, the external model makes an ideal companion for your portable PC.

For the internal model, HP's Install Assistant automatically detects system configuration for fast and easy installation. After that, backup is as easy as a click of your mouse. Or, using Automated Daily Backup, it's all done for you, day or night.

And should disaster ever strike, the Windows 95 disaster recovery software gets you back in business fast by allowing you to do a full restore of your hard drive without first having to reinstall your Windows 95 operating system; a process which could otherwise take several days.

Key Features:

- Disaster recovery for Windows 95 with full system protection
- 2.5GB native capacity, up to 5GB compressed*
- Backup at up to 2GB** in less than an hour
- Includes Colorado Backup by Cheyenne for Windows 95, Windows and DOS***
- Supports Windows NT 4.0 backup utility
- HP's unique Install Assistant software for easy installation and configuration of internal drives
- Low cost HP Colorado 5GB

HP Colorado 5GB:-

HWP277 Internal W/Tape.....	(inc.VAT £168.03)	£143
HWP278 External W/Tape.....	(inc.VAT 204.45)	£174

HP Colorado T3000i

With HP Colorado T3000i you go from box to backup in minutes. Windows 95 System Restore lets you create a set of emergency recovery disks that can restore your complete operating system from tape. Other features include a tape catalogue to keep track of files on backup tapes, long file name and system registry support, a versatile Scheduler and the ability to back up shared drives on peer-to-peer networks.

Key Features:

- 3.2Gb Max. capacity (compressed)
- Easy Windows* 95 System Restore - Back In business, fast!
- Compatible with Travan TR-3, QIC-3020 and QIC-WIDE tapes
- Easy-to-use, full-featured software for powerful and convenient operation
- 2 year Express Exchange Warranty

HWP193 HP Colorado T3000i (Internal).....	(inc.VAT £128.08)	£109
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PLE003 Plextor 12x Ext Tray CD.....	£169.00
PLE004 Plextor 12x Caddy Ext CD.....	£219.00
PLE005 Plextor 20x Int Tray.....	£159.00
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OR Technology a:drive

3.5" 120MB SuperDisk drive

A storage solution that keeps pace with your expanding storage needs



Introducing the a:drive™ from OR Technology – a form, fit, and function replacement for current floppy drives. It delivers 80 times the capacity and five times the speed of existing 1.44MB drives. The a:drive looks like a conventional floppy drive. It even fits into the same space. But it's faster, smarter and more reliable than any floppy disk drive you've used.

So get ready to change the way you load software, backup data and transfer files forever. At 120MB, you get the capacity needed for today's multimedia environments – without losing read/write compatibility with 720KB and 1.44MB floppy disks. And since the a:drive uses an industry-standard ATAPI IDE interface, it's easy to integrate into any PC. Plus the SuperDisk diskettes are the same size and shape as 3.5" floppy disks.

Just think – no more messing around with compression software! No storing files on multiple disks and no sacrificing access to data stored on existing floppies. Just a tremendous jump in capacity and speed. In short, it's the storage upgrade you've been waiting for – made possible by technology so advanced, you already know how to use it. Perhaps that's why many industry experts are calling the a:drive the next generation in floppy drives.

How does SuperDisk technology work?

Like conventional diskette technology, SuperDisk technology is a magnetic information storage system. Unlike conventional diskettes, however, the SuperDisk has a servo pattern etched into it at the factory. SuperDisk drives use a laser to read this servo pattern and align the read/write head. This precise positioning allows SuperDisk technology to use 2,490 data tracks per inch for conventional 3.5" diskettes.

The combination of high-density metal particle (MP) pigment and dual-layer coating technology, allows a single SuperDisk diskette to hold 120MB of data. The "dual-gap" of SuperDisk drive head enables them to read and write conventional 3.5" HD and DD diskettes.

Reads and writes 1.44MB HD, DD, and 720KB diskettes as well as LS-120!



FOR MORE INFO CONTACT THE INTERNET No. 31218

Features:

- 80 times the capacity of 1.44 MB floppy drives
- 5 times the speed of 1.44MB floppy drives
- Up to 120MB formatted capacity using LS-120 media
- Reads and writes 1.44MB HD and 720KB
- 1" high, 3.5" form factor
- Fast 4MB/sec transfer rate
- Industry standard ATAPI IDE interface

OR7001 OR Technology LS-120 a:drive (Including VAT £104.58) **£89**

SuperDisk™



LS-120 Diskettes

A storage solution that keeps pace with your expanding storage needs

No matter how you use your computer, one thing is certain: the amount of data you deal with is constantly increasing. Especially with memory-hungry applications eating up more of valuable hard disk space. What you need is a storage solution that makes it easy to store, move and use large volumes of information.



3M0006 Imatation SuperDisk LS-120 Diskettes (Including VAT £16.45) **£14**

SuperDisk is a trademark of IMATION Corp.

Hurricane HALF PRICE



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SEA075	ST19172W	Barracuda 9	5	9100	8.8	7200	UN	3.5"	40	512	£939	£1103.33
SEA077	ST34501N	Cheetah 4LP	5	4550	7.5	10033	UN	3.5"	20	512	£549	£645.08
SEA078	ST34501W	Cheetah 4LP	5	4550	7.5	10033	UN	3.5"	40	512	£579	£680.33
SEA079	ST19101N	Cheetah 9	5	9100	7.5	10033	UN	3.5"	20	512	£879	£1032.83
SEA080	ST19101W	Cheetah 9	5	9100	7.5	10033	UN	3.5"	40	512	£959	£1126.83
SEA044	ST423451N	Elite 23	5	23200	13	5400	UN	5.25"	20	2048	£1749	£2055.08

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Key to Abbreviations and symbols

- A = ATA (IDE)
- FC = Fibre Channel
- N = SCSI, 8bit
- UN = Ultra SCSI, 8bit
- W = Wide SCSI 16bit
- UW = Ultra Wide SCSI, 16bit
- D = DMA Ultra IDE
- B'Cuda = Barracuda
- H = Height
- I/F = Interface



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MEMORY FEATURE



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Advantage 600 and 800 series	KST0987/4	500987-002, 500891-0	KST200	£17	£19.98
PowerExec 3/255L-C, 4/255I Special Ed	KST0984/4	500984-001, 501318-0	KST208	£38	£44.65
Bravo LC, LP, MS - T P/66-166	KST0987/8	500987-003, 501340-0	KST201	£33	£38.78
4/335L	KST0984/16	500984-003, 50118-0	KST210	£76	£89.30
And MT series	KST0987/16	500987-004	KST202	£57	£66.98
Manhattan G.V	KST486P/16	501159-003	KST062	£86	£101.05
	KST486P/32	501159-004	KST061	£133	£156.28
	KST0987/32	500987-005	KST203	£114	£133.95

COMPAQ	Kingston's Part No.	Manufacturers Part No.	Stock Code	Ex. VAT	Inc. VAT
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Deskpro 2000, 4000 & 6000 Series	KTC2430/8	243011-002	KST237	£33	£38.78
Armada 4000 Series	KTC-A4100/8	217914-001	KST243	£48	£56.40
Proliant 1500 5/75, 5/100, 5/120	KTC1481/16	148189-001, 148188-2	KST215	£86	£101.05
	KTC-E5000/16	213515-002, 213515-2	KST219	£76	£89.30
	KTC2430/16	243012-002	KST238	£67	£78.73
	KTC-A4100/16	217915-001	KST241	£76	£89.30
1500 R 5/75, 5/100, 5/120	KTC1481/32	148190-001, 148190-2	KST216	£133	£156.28
	KTC-E5000/32	213515-004, 213516-0	KST220	£147	£172.73
	KTC-A4100/32	217916-001	KST242	£147	£172.73
	KTC2430/32	243014-002	KST239	£114	£133.95

IBM	Kingston's Part No.	Manufacturers Part No.	Stock Code	Ex. VAT	Inc. VAT
Aptiva M30, M31, M40, M41, M50, M51	KTM-APT/4	92G7539, 070n04Y	KST221	£17	£19.98
M53, M55, M60, M61, M62	KTM-APT/8	92G7541, 070N16Y	KST222	£33	£38.78
M70, M71, A12, A50, A90, A92	KTM-APT/16	92G7543, 070N016Y	KST223	£57	£66.98
Pc 300 Series Model 350 6581, 6583	KTM-APT/32	92G7545, 070N32Y	KST224	£114	£133.95
Model 350 65871, 6573, 64575					

DELL	Kingston's Part No.	Manufacturers Part No.	Stock Code	Ex. VAT	Inc. VAT
Dimension XPS 486, Optiplex 486s	KTD-LMT/4	310-3325	KST225	£17	£19.98
Dimension p133v, p166v, p200v	KTD-SDRAM/8	n/a	KST466	£48	£56.40
Nexlex 486 Performance 425(s), 433(S), 450, 466	KTD-LMT/16	310-3327	KST227	£57	£66.98
M, T AND L Series					
Dimension XPS p133s, p166s, p200s	KTD-SDRAM/16	n/a	KST565	£71	£83.43
	KTD-GXPro/16	n/a	KST184	£81	£95.18
Optiplex GXPRO Series	KTD-SDRAM/32	n/a	KST467	£133	£156.28
	KTD-GXPro/32	n/a	KST652	£152	£178.60

DIGITAL	Kingston's Part No.	Manufacturers Part No.	Stock Code	Ex. VAT	Inc. VAT
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	KTV-VP500/16	FR-PCP9M-BB	KST727	£81	£95.18
	KTV-VP500/32	FR-PCP9M-BC	KST728	£152	£184.48

HP	Kingston's Part No.	Manufacturers Part No.	Stock Code	Ex. VAT	Inc. VAT
Pavilion 7270, 7275Z, 7280P,	KTH-VL4/8	D3646B	KST729	£33	£38.78
7285, 7295V	KTH-VL4/16	D3647B	KST730	£67	£78.73
	KTH-VL4/32	D3648B	KST731	£114	£133.95

TOSHIBA	Kingston's Part No.	Manufacturers Part No.	Stock Code	Ex. VAT	Inc. VAT
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Portege 610 CT	KTT-610/8i	NW2028U	KST233	£52	£61.10
	KTT-610/16i	110CS/CT, 115CS	KST231	£81	£95.18
	KTT-2100/16i	NW2031U	KST234	£76	£89.30
	KTT-2100/24i	NW2032U	KST232	£109	£128
200CDS, 205 CDS	KTT-610/32i	NW2034U	KST235	£147	£172.73
Satellite Pro 420/425/430 CDS/CDT					

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*Samsung contracted Lairton Computer Services, Calif, to conduct an independent benchmark study of memory in PCs running either Windows 95 or Windows NT 4.0. Ziff-Davis Winstone 32 Benchmark standard was used to test both operating systems

Memory Listings

KST025	Epson Action 32Mb Module	£159.00
KST026	Epson Action 16Mb Module	£79.00
KST027	Epson Action 8Mb Module	£42.00
KST053	Laserwriter Pro 4Mb Module	£21.00
KST054	Laserwriter 600 16Mb Modu	£79.00
KST072	Canon Lbp-BII 4Mb Exp Boa	£117.00
KST117	Okiwriter OI410e-400e-4Mb	£107.00
KST130	Panasonic Lspartner 4Mb	£37.00
KST131	Lexmark Winwriter 4Mb Mod	£23.00
KST132	Lexmark Winwriter 2Mb Mod	£14.00
KST133	Lexmark Winwriter 1Mb Mod	£3.00
KST143	Brother HL 10 2Mb Kit	£42.00
KST144	Brother HL6v 4Mb Exp Boar	£131.00
KST145	Brother HL6v 2-4Mb Ram ex	£84.00
KST146	Brother HL1260 8Mb Module	£42.00
KST147	Brother HL1260 4Mb Module	£21.00
KST148	Brother HL10h 2Mb Module	£19.00
KST191	Brother HL-1260 2Mb u/g	£25.00
KST192	Brother HL-1260 8Mb u/g	£59.00
KST193	Brother HL-1260 4Mb u/g	£30.00
KST204	HP Lsjet 4/Designjet 8Mb	£61.00
KST205	HP Lsjet 4/Designjet 4Mb	£31.00
KST265	Lexmark Optra 16Mb u/g	£75.00
KST267	Okiwriter OI4001Mb Kit u/g	£25.00
KST298	Canon BJC 880 4Mb u/g	£23.00
KST309	HP Laserjet 4I 1Mb u/g	£25.00
KST346	Epson eI 4Mb Module u/g	£31.00
KST348	Brother HL 2-4Mb Ex Bd	£79.00
KST355	Kyocera 1Mb Kit For Ex Bd	£33.00
KST356	Kyocera ECopy 4Mb Mod	£21.00
KST360	Lexmark Optra 16Mb u/g	£75.00
KST360	Lexmark Optra 32Mb u/g Mod	£159.00
KST375	Laserjet 3/2p 2Mb Exp Bd	£51.00
KST378	Epson EP16000 2-4Mb Exp b	£79.00
KST388	Laserjet II Mini 2-4Mb Exp	£75.00
KST401	Canon Lbp-Biv 4Mb Module	£31.00
KST402	Canon 1-3Mb Exp Bd lbp-8	£65.00
KST403	Canon Lbp-8 2-3Mb Exp boar	£89.00
KST404	Canon Lbp-8 3Mb Exp boar	£117.00
KST405	Canon Lbp-8 2-4Mb Exp Boar	£79.00
KST406	Epson Action Lascr 4Mb Mod	£21.00
KST420	Okiwriter OI400 1-2 Mb Exp	£44.00
KST422	Okiwriter OI800 1-4Mb Exp	£49.00
KST423	Okiwriter OI800 2-4Mb Exp	£79.00
KST424	Okiwriter OI800 3-4Mb Exp	£103.00
KST425	Okiwriter OI800 4Mb Exp bo	£126.00
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KST427	Okiwriter OI810 2Mb Module	£49.00

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Stock Code	Part No.	Capacity	Price	Stock Code	Part No.	Capacity	Price
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KST259/KST562	KTM-1000/9-70, 60	1MB (Inc VAT £22.33)	£19	KST251	KTM-4X32-60ET	16MB (Inc VAT £66.68)	£57
KST260/KST327	KTM-4000/9-70, 60	4MB (Inc VAT £23.50)	£20	KST252	KTM-8X32-60ET	32MB (Inc VAT £133.95)	£114
30 pin 9 chip							
KST261/KST624	KTM-1100/9-70, 60	1MB (Inc VAT £10.58)	£9	KST253	KTM-16X32-60ET	64MB (Inc VAT £508.78)	£433
KST734/KST625	KTM-4900/9-70, 60	4MB (Inc VAT £38.78)	£33	72 pin parity			
72 pin non parity							
KST244	KTM-1X32L-60T	4MB (Inc VAT £19.98)	£17	KST254	KTM-1X36L-60T	4MB (Inc VAT £25.85)	£22
KST245	KTM-2X32L-60T	8MB (Inc VAT £38.78)	£33	KST255	KTM-2X36L-60T	8MB (Inc VAT £50.53)	£43
KST246	KTM-4X32L-60T	16MB (Inc VAT £66.98)	£57	KST256	KTM-4X36L-60T	16MB (Inc VAT £78.73)	£67
KST247	KTM-8X32L-60T	32MB (Inc VAT £133.95)	£114	KST257	KTM-8X36L-60T	32MB (Inc VAT £156.28)	£133
KST248	KTM-16X32L-60T	64MB (Inc VAT £340.08)	£290	KST258	KTM-16X36L-60T	64MB (Inc VAT £385.40)	£328
72 pin non parity EDO							
KST249	KTM-1X32-60ET	4MB (Inc VAT £19.98)	£17	KST646	KTM-1X36L-60ET	4MB (Inc VAT £25.85)	£22
KST250	KTM-2X32-60ET	8MB (Inc VAT £38.78)	£33	KST647	KTM-2X36L-60ET	8MB (Inc VAT £50.53)	£43
				KST519	KTM-4X36L-60ET	16MB (Inc VAT £78.73)	£67
				KST520	KTM-8X36L-60ET	32MB (Inc VAT £156.28)	£133

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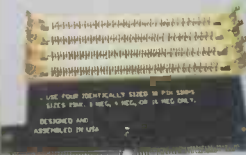
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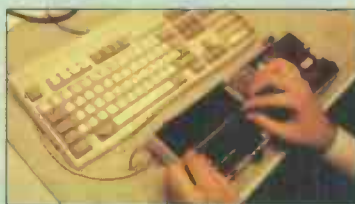
SIM058 72 Pin SIMM Back Expander..... (Inc VAT £17.63) **£15**
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Testing Procedures

As can be seen below, Software Warehouse take memory very seriously, and all SIMMs sold by Software Warehouse are tested in dedicated SIMM testing machines. Each SIMM is serial numbered for ISO 9002 purposes, and is individually packaged in an anti-static bag and padded box. You can rest assured that your memory order will be processed with total customer satisfaction as the prime objective at Software Warehouse.

Most modern computers such as IBM compatible PCs, Macs, PowerMacs, some workstations and most UNIX boxes utilise commonly available DRAM (Dynamic Random Access Memory) known as SIMMs (Single Inline Memory Modules). Software Warehouse source our commodity SIMMs from the UK distribution network, thereby assuring you of the best prices with no compromise on quality. All of our memory modules are quality control tested before despatch and are guaranteed for three years. All Software Warehouse memory modules are individually tested, labelled and packaged in anti-static bags and padded boxes.



Pentium Pro Computers (P-6 Processor)

- Most Pentium Pro Computers utilize 72 pin SIMMs. Installation requires 2 SIMMs per bank to upgrade memory. (2 sockets per bank)
- Memory Types: Parity or Non-Parity FPM or EDO (Most have been configured with Parity FPM)

586 Computers

- Most 586 computers have 2 banks of two SIMM socket on the motherboard, each bank must have a pair of the same value and type of memory to be utilised by the system.
- Most 586 computers utilize 72 pin SIMMs. Installation requires 2 SIMMs per bank to upgrade
- Some 586 (166MHz and up) utilize 168 Pin DIMMs and 72 Pin SIMMs on the same motherboard.
- 586 computers utilising 168 Pin DIMMs require 1 DIMM at a time, (1 socket per bank.)
- Memory Types: Generally EDO (Extended Data Out) DRAM in matching pairs. Some older Pentium computers (60MHz - 100MHz) require FPM (Fast Page Mode DRAM.) Newer 100 MHz to 200MHz MMX computers, CYRIX 6X86 and AMD 586 class processors utilise EDO or FPM, and in some machines SDRAM (DIMMs.)

486 Computers

- Most 486 DX Computers utilize 72 pin SIMMs. Installation of SIMMs requires only 1 SIMM at a time. (1 socket per bank)
- Most 486 SX computers utilize 30 pin SIMMs. Installation requires 4 SIMMs at a time (4 sockets per bank)
- Some 486 Computers (both SX and DX) utilize both 30 Pin and 72 Pin SIMMs on the same motherboard.
- Memory Types: Fast page Mode DRAM, both Parity or Non-Parity, depending on the motherboard requirements.

386 Computers

- Most 386 DX Computers use 30 pin SIMMs, though there are exceptions where 72 pin SIMMs are utilised
- On 386 computers, 30 pin SIMMs must be installed in pairs (ie: two SIMM sockets per bank)
- Memory Types: Fast Page Mode

Memory Terms and Definitions

RAM (Random Access Memory)

The instructions your computer receives and the information it processes are kept in RAM during a work session. The CPU (Central Processing Unit) then accesses the instructions and data stored in its memory. The more RAM your computer has, the more data it can store at one time and subsequently the more efficiently your computer will operate. The data held in RAM is lost when the computer is turned off. The two most common forms of RAM are DRAM and SRAM.

DRAM (Dynamic RAM)

DRAM is the most common type of memory and is "dynamic" because in order for the memory chip to retain data, it must be refreshed constantly (every few milliseconds). DRAM temporarily stores data in a cell composed of a capacitor and a transistor. Each cell contains a specified number of bits. These cells are accessed by row addresses and column addresses.

DIMM (Dual In-Line Memory Module)

DIMMs are similar to SIMMs but have pins on both sides of the modules which allows for wider and faster data transfer. DIMMs come in 72 pin, 144 pin and 168 pin configurations.

FPM (Fast-Page Mode) DRAMs

Fast Page Mode (FPM) DRAMs are faster than older versions of DRAM. A page is a section of memory available within a row address. This row address needs to be accessed only once with FPM memory and subsequent data accesses to that same page only require column addresses to be selected, which makes access time much faster.

EDO (Extended Data Out) RAM

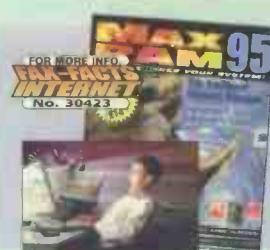
EDO RAM is similar to FPM memory but provides improved performance by keeping available data longer in memory. It eliminates much of the wait time by allowing the processor to access data during the refresh cycle. In other words, the computer can load data as it is searching for new information. EDO memory is generally 5-30% faster than FPM memory. A computer must support EDO memory in order to notice an increase in performance.

EDO Parity RAM

EDO Parity RAM offers the high performance of EDO memory and has built-in parity which greatly improves reliability. Ideal for high-end PCs and entry-level servers, EDO Parity modules are compatible with any system that accepts a standard 72-pin EDO module and are rapidly becoming the new standard on high-end systems.

SDRAM (Synchronous DRAM)

SDRAM is memory that can synchronise itself with the computers clock. This synchronisation eliminates time delays and allows for fast consecutive read and write capability. SDRAMs can only be used in computers designed for it and cannot be mixed with any other type of memory.



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30 pin 3 chip true parity (A)	SIM021 £8 (Including VAT £9.40)	SIM022 £16 (Including VAT £18.80)	X	X	X	X
30 pin 9 chip true parity (B)	SIM029 £12 (Including VAT £14.10)	SIM031 £23 (Including VAT £27.03)	X	X	X	X
72 pin (EDO) Extended Data Output (C)	X	SIM036 £12 (Including VAT £14.10)	SIM037 £19.95 (Including VAT £23.50)	SIM038 £39 (Including VAT £45.83)	SIM042 £79 (Including VAT £92.83)	SIM067 £259 (Including VAT £304.33)
72 pin with Parity (D)	X	SIM026 £20 (Including VAT £23.50)	SIM027 £33 (Including VAT £38.78)	SIM028 £59 (Including VAT £69.33)	SIM034 £109 (Including VAT £128.08)	SIM035 £379 (Including VAT £445.33)
72 pin without Parity (E)	X	SIM023 £12.50 (Including VAT £14.69)	SIM024 £21 (Including VAT £24.68)	SIM025 £39 (Including VAT £45.83)	SIM033 £79 (Including VAT £92.83)	SIM044 £299 (Including VAT £351.33)
72 pin DIMM Fast Page (F)	X	X	SIM048 £49 (Including VAT £57.58)	SIM049 £89 (Including VAT £104.58)	X	X
168 pin DIMM non parity Fast Page 64 bit (unbuffered) (G)	X	X	SIM045 £59 (Including VAT £69.33)	SIM046 £89 (Including VAT £104.58)	SIM047 £149 (Including VAT £175.08)	SIM068 £299 (Including VAT £357.33)

A B If your computer is here, use row A or B

Most IBM compatibles (386 & 486sx)
AST Advantage! 386's; Bravo 386's
AST Premium 286 & 386
Amstrad 7 Series
Apple Quadra 700, 900 & 950; LC; Classic
Apple Performa 200, 410 & 430
Compaq ProLinea 386's
DEC Pc 333sx LP
Dell 220; System
316sx
Packard Bell 386, 486sx
Zenith z386sx

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C If your computer is here, use row C

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Dell Dimension XP5
Gateway P575, 90, 100, 120; 133 EDO
Gateway 133 Elite; 166 Sovereign;
ICL Ergo Pro; HP Vectra VE, VL, VA, XM, XA;
IBM Aptiva 300, M, A, series
Viglen Bus PC133, 166+, 200+, PC Pro2000
Simply Family Series, Internet Series, Office 97
AST Advantage Series
Compaq Deskpro 2, 4, 6000 Series

D If your computer is here, use row D

AST
Premia 486
Amstrad 9 Series
Compaq ProLinea 4/25, 4/33, 4/33s, 4/50
Compaq ProLinea 4/66, MT, P75
Dell ME, Precision Pentium
Elonex PCS00, PCS60
Gateway PC4sx33, DX33v, 66v, P/V
IBM Valuepoint, P5/2

E If your computer is here, use row E

Most 486
Apple Quadra 610, 650, 800, 840
Apple LC475, 550, 630; Performa 5 & 6000
Apple PowerMac 6000 & 7000 series
AST Bravo
Compaq Presario
DAN 95s; Premium; Windows
Dell Performance; Omniplex;
Optiplex
Dell Precision 486
Elonex PC433, 450, 466
Gateway P4D
IBM Aptiva 300 & 700 series
Packard Bell 486DX

All you need to know about Dual Inline Memory Modules (DIMM)

F Most new high performance PCs utilise a special kind of memory known as DIMM, these are Dual InLine Memory Modules, and fit into Motherboard slots which have zigzag shaped dual sided connections. They usually have 168 pins and may be found in 3.3 Volt or 5 Volt forms. Both voltages are available in several sizes (megabytes) and configurations to match exactly with motherboard specifications. The variants available are Buffered/Unbuffered, Parity ECC/Non parity, Fast Page/FP EDO, Synchronous and 4K/8K refresh rate. As there are so many variants, you will be well advised that any DIMMs that you buy are exactly what your motherboard requires.

G 72 pin SODIMMs are also increasingly popular, and are also available in several sizes (megabytes) and configurations: 3.3 Volt/5 Volt, Fast Page/FP EDO, etc. Again, beware of incompatible parts. Software Warehouse only sell Original DIMM parts, either Samsung, Fujitsu or Kingston, and never any third party modules. All are manufacturer warranted, tested and supplied in individual anti-static packaging. In the SIMM/ DIMM table opposite, a brief selection of common DIMMs is offered for price comparison. Please call for specific part numbers and prices.

If your computer is not listed, we almost certainly have the part. Please phone for details:

01675 468300



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*Next-day delivery from £6⁹⁵ E&OE. All prices exclude delivery, see page 2 for Terms & Conditions.

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16 MB EDO

32 MB EDO

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16 MB FROM £39.00
£45.00 inc VAT Plus VAT

32 MB FROM £79.00
£92.83 inc VAT Plus VAT

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SIMMs Listings

KST306	ATI Tech 2Mb VRAM u/g 8Ch	£112.00
KST307	ATI 2Mb VRAM u/g 2 Chip	£112.00
KST577	Everex tempo 1a 2Mb Modul	£19.00
KST598	NCD 14c/15r/16e 16Mb KR	£136.00
KST599	Tadpole Sparck 32Mb Kit	£235.00
KST600	Tadpole Sparck 64Mb Kit	£516.00
KST686	Everex Steptone 16Mb Sodi	£98.00
SOU116	4Mb u/g For AWE64	£29.00
SOU117	8Mb Memory u/g For AWE 64	£49.00
CFA02	Positive 4Mb KR	£104.43
CFA03	Positive 16Mb KR	£178.00
KST022	Travelmate 60x0 16Mb Sodi	£103.00
KST090	Travelmate 60x8 8Mb Sodi	£51.00
KST372	Extensa 5x8 8Mb Dimm Kit	£85.00
KST373	Extensa 5x8 16Mb Dimm Kit	£150.00
KST374	Extensa 5x8 32Mb Dimm Kit	£292.00
KST392	Extensa 510S 15 8Mb Sodi	£85.00
KST393	Extensa 510S 15 16Mb Sodi	£156.00
KST394	Extensa 510S 15 32Mb Sodi	£258.00
KST395	Extensa 450/455/4 16Mb di	£147.00
KST396	Extensa 450/455/4 4Mb Dim	£48.00
KST397	Extensa 450/455/4 8Mb Dim	£76.00
KST649	Extensa 660/650 16Mb Sodi	£103.00
KST682	Travelmate 5x8x 8Mb u/g	£85.00
KST692	TI Extensa 650/600 8Mb u/g	£51.00
KST730	Travelmate 3000 16Mb Mod	£117.00
KST717	travelmate 5100 16Mb Mo	£107.00
KST643	Portege 660/650ct 32Mb So	£261.00
KST644	Portege 660/650 64Mb Sodi	£313.00
ME4015T	900 4Mb Module	£39.00
TO5081	Libretto 50ct 8Mb Edo SIM	£95.00
KST075	Z-note Ina 4Mb Module	£37.00
KST149	Z-star 433vl 8Mb Module	£51.00
KST150	Z-star 433vl 2Mb Module	£19.00
KST319	Zenith 2DS 2Mb Module	£25.00
KST339	Zenith Z-star 16Mb Mod	£147.00
KST343	Zenith Z-star 8Mb Mod	£59.00
KST347	Zenith Z-star 16Mb Mod	£107.00
KST345	Zenith Z-star 32Mb Mod	£213.00
KST353	Zenith Z-star 4Mb Module	£43.00
KST354	Zenith Z-star 8Mb Module	£76.00
KST389	Esola 128Mb Dimm Kit	£1,344.00
KST390	Z-Star E50mhz 16Mb Mod	£147.00
KST391	Z-Star E50mhz 4Mb Module	£48.00
KST392	Z-Star E50mhz 8Mb Module	£76.00
KST393	Z-note/E5: 16Mb Dimm Mod	£147.00
KST394	Z-note/E5: 4Mb Dimm Modul	£43.00
KST395	Z-note/E5: 8Mb Dimm Modul	£76.00

Price Pledge

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Microsoft Approved for NT

ISA Combo BNC + RJ45 NE2000

16-Bit TSA Plug and Play

Planet offer one of the fastest Ethernet cards available today! Using patented technology, data transfer is pipelined simultaneously, resulting in greatly reduced packet turnaround time and much higher throughput.

The Jumperless+Plug and Play design offers maximum flexibility. "Media auto-sensing" switches to the media attached automatically, no matter whether its BNC, AUI or 10BaseT connections, no more configuration is needed. Automatic detection of 8 or 16 bit slot installed. More interrupts (8) and I/O addresses (7) supported than other cards, meaning maximum compatibility. These features make ENW-2400P an unbeatable choice when it comes to network interface cards.



Life Time Warranty

PLA019 ISA Combo BNC + RJ45 NE 2000 **£16⁹⁵**

All three card driver support

- MS LAN Manager • Windows NT • Windows 95 • Sun PC/NFS
- Banyan Vines • Novell Netware 3.x 4.x ODI Driver • IBM LAN Server
- Windows NT Advanced Server • Windows for Workgroups, 3.11

32-bit PCI

32Bit High Performance PCI Ethernet Adaptor (BNC, STP)

A high performance 32-bit PCI Ethernet board which highly improves data transfer at 132Mbytes/sec across the PCI bus. The ENW-8300 can automatically correct any polarity errors it receives, has the capability of auto-sensing for 10Base-2 or 10Base-T connections and also supports 8K, 16K, 32K byte boot ROM. It can be applied in a diskless workstation disk to improve the network security and management troubleshooting procedures. The Full-Duplex function enables simultaneous transmission and reception on the twisted-pair link to a full-Duplex Ethernet switching hub.

Enhances System performance & Increases network efficiency

- Connectors Supported RJ45, BNC
- Standard IEEE 802.3 10Base-T, 10Base-2
- Transmission Rate 10Mbps or 20Mbps
- Certification FCC Part 15 Class B
- Built-in data prefetch function to double channel bandwidth
- Supports auto polarity correction for 10BaseT



Life Time Warranty

PLA020 32-bit PCI **£24⁹⁵**

PCI 100 Base

10/100Mbps 32-Bit PCI Fast Ethernet Adaptor

Planet's 10/100Mbps based 32-bit (PCI) Local Bus Ethernet adaptor is designed to address high-performance system application requirements. The bus-master architecture provides high data throughput in the system and low CPU and system bus utilisation. The adaptor provides Auto-negotiation which automatically detects and determines the optimal inter-operation mode with other devices. It supports both 10Mbps and 100Mbps data rates with UTP-CATS or STP cable. LEDs are also provided for quick monitoring of busy, link collision and speed indication.

- Connector Supported, One RJ45/STP
- Standard IEEE 802.3u 100/200Mbps
- Bus Type PCI local bus specification. (Revision 2.1)
- FCC Part 15 Class A, CE Mark Certification



PLA021 PCI 100 Base **£49**

Ethernet 10Base-T workgroup hubs

Quality hubs at the right price

Planet's small Office and Home Office series Ethernet 10Base-T workgroup hubs are easy to install. They are ergonomic and palm sized, and you will find it easy to run a diagnostic check with the aid of LED's. The hubs also comply with the Ethernet 10Base-2/5T standard.

- Internal pre-distortion generation
- Automatic preamble regeneration to compensate for any bit loss.
- Auto lockup and partitioning jabber timing to isolate network failure
- LED's for quick network diagnostic
- Displays the status of power, collision and link, receive, partition for each port
- Easy to expand your workgroup network by connecting to Uplink port, BNC connector or AUI port



Lowest priced hubs in the UK

16, 24 & 32 PORT Available

- PLA013 Five Port Hub **£39⁹⁵**
- PLA014 Eight Port Hub **£49⁹⁵**
- PLA015 Eight Port Unmanaged Hub **£69⁹⁵**

Model	EH-501	Model	EH-801	Model	EH-802
Standard Compliance	IEEE802.3, 10BASE-2/T	Standard Compliance	IEEE802.3, 10BASE-2/T	Standard Compliance	IEEE802.3, 10BASE-2/T
STP	5+1	STP	8+1	STP	8+1
Port Configuration	BNC None AUI None	Port Configuration	BNC 1 AUI None	Port Configuration	BNC 1 AUI 1
LED's	13	LED's	19	LED's	13
Dimensions LxWxH(mm)	130x90x30	Dimensions LxWxH(mm)	200x100x30	Dimensions LxWxH(mm)	200X100X30
Weight (net weight)	0.13Kg	Weight (net weight)	0.33Kg	Weight (net weight)	0.43kg
Power	External PSU Supplied	Power	External PSU Supplied	Power	Internal PSU
Casting	Plastic	Casting	Plastic	Casting	Metal

Planet 5 user kit

If you're looking for a starter Kit why not choose X Planet's 5 user Kit

- Including:
- 5x 16-Bit TSA Plug and Play
 - 1x EH-501 Ethernet 10Base-T
 - 5x Category 5 patch cables in a choice of colours.
- Whether you are just starting, or your company has been established for years the Planet's 5 user kit may well be the answer to your prayers.



Planet 5 user kit **£139**

Planet 8 user kit

Think ahead to expansion with this Planet 8 user kit

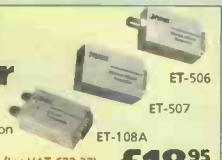
- Including:
- 8x 16-Bit TSA Plug and Play
 - 1x EH-801 Ethernet 10Base-T
 - 8x Category 5 patch cables in a choice of colours.
- Perfect for those companies that wish to expand and those that are looking ahead to the future.



Planet 8 user kit **£209**

Planet Transceiver

- Meets IEEE802.3 Standard
 - Optional SQE (heartbeat) function
 - Jabber control function
- PLA024 AUI to BNC Transceiver **£18⁹⁵**
- PLA025 AUI to UTP RJ-45 Transceiver **£18⁹⁵**
- PLA026 AUI to ST (Fibre) Transceiver **£94⁹⁵**
- PLA027 AUI to N-Type transceiver **£59⁹⁵**
- PLA028 AUI to TAP-type Transceiver **£64⁹⁵**



Planet Repeater

- Meets IEEE802.3 Standard
 - Auto-partition
 - On-board elasticity buffer, Manchester encoder and decoder for preamble regeneration
- ER-200 2-Port Desktop Repeater (2* AUI/BNC)
- ER-400R 4-Port Rack Mountable Repeater (4* AUI/BNC)
- PLA029 2-Port Desktop Repeater **£99⁹⁵**
- PLA030 4-Port Rack Mountable Repeater **£199⁹⁵**



100Base-TX ethernet Hub

Eight/Sixteen port 100Base-TX Class II fast Ethernet Hub

- Maximum of 5 hubs provides maximum 80-port 100Base-TX nodes in one segment
- Complies with IEEE 802.3u, 100Base-FX
- Optional 2-port 100Mbps print server module for 100Mbps network printing
- Optional 100Base-FX fibre-optic bridging extension module
- Optional 10Base-T bridging module for Ethernet to fast Ethernet networking
- LEDs for network diagnostics
- Uplink port for straight hub to hub cascade



- PLA035 8 port 100Base-TX fast ethernet hub **£46⁹⁵**
- PLA039 16 port 100Base fast ethernet hub **£799**

Colour cables

If your looking for the best quality in cables, in a range of colours, and lengths, then you need look no further.

Our 3 metre Snagless cables are specifically designed to protect the retaining clip from breaking.



COLOUR CABLES:- CATEGORY 5 UTP	Budget 1 Metre assembled	3 Metre Snagless	Budget 5 Metre
Orange	BEL108	BEL110	BEL109
Grey	BEL111	BEL113	BEL112
Blue	BEL114	BEL116	BEL115
White	BEL117	BEL119	BEL118
Red	BEL120	BEL122	BEL121
Price inc VAT	£2.50 £2.95	£3.50 £4.11	£4.50 £5.29

For more information on cables turn to page 90 & 91

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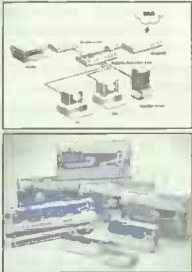
*See page 2 for Price Pledge



Ethernet Hub 5,8,16 port 10BASE-T

iohobasic™ 10BASE-T series hubs, from Acton Technology, offer a complete suite of Ethernet hubs for small businesses, home offices and workgroups. Featuring friendly design and low-cost, the SohoBasic hubs effectively improve SOHOer's productivity by networking their computer resources. In addition, the SohoBasic products are designed to work together as an integrated system to ensure full interoperability in your intranet.

- Plug and play installation
- Fully compatible with Windows 95/NT, NetWare, and other leading operating systems
- Comprehensive network monitoring
- Fits different networking configurations
- Uplink port for network expansion



Specifications	Hub205	Hub208a	Hub208b	Hub216c
10BASE-T Ports	5	8	8	16
AUI/ BNC Port	None	AUI	BNC	AUI/BNC
Dimensions: (Width)	130mm	216mm	192mm	360mm
(Depth)	92mm	106mm	105mm	111mm
(Height)	28.1mm	33.3mm	33.3mm	32.6mm
Weight	0.25Kg	0.5Kg	0.42Kg	1kg
Power Adapter	7.5VDC 400-700mA	15VDC 600-800mA	7.5VDC 400-800mA	15VDC 600-800mA
Status LEDs	Unit: power, collision; status (for Hub205 only) Per 10BASE-T port: link and data transmit/receive AUI/BNC port: traffic for each AUI/BNC port Utilization; for Hub216c only			
Standards Supported	IEEE 802.3, Ethernet CSMA/CD			
Electromagnetic Emissions	CE Mark, FCC Class A, VCCI Class A			

SCM001 HUB205	(Inc. VAT £38.78)	£33
SCM002 HUB208A	(Inc. VAT £52.88)	£45
SCM003 HUB208B	(Inc. VAT £49.29)	£41⁹⁵
SCM004 HUB16C	(Inc. VAT £104.58)	£89

NIC200 Ethernet ISA Adapter

NIC 200 offers SOHO users the easiest way to setup networking environments, the SohoBasic™ family is fully compatible with the Plug and Play standards. In addition, full duplex operation in the SohoBasic adapters connects you to high-performance Ethernet LANs.

- Plug and Play installation
- Provides full-duplex operation to reduce response
- Boot ROM socket supports remote boot service
- Drivers listed in Windows 95/NT and NetWare
- Lifetime warranty



SOHO05 NIC200 (Inc. VAT £14.10) **£12**

NIC220 Ethernet PC Card for 10BASE-T & 10BASE2

NIC 220 offers users the easiest way to connect to portable PCs to an Ethernet LAN via the Type II PC Card (PCMCIA) slot, the SohoBasic PC Card is full compatible with Plug and Play standards. In addition, a custom-designed MPX Ethernet controller embedded in the SohoBasic PC Card connects you to high-performance Ethernet LANs.

- Plug and Play installation Drivers listed in Windows 95/NT and NetWare 4.11 for seamless support
- Low power consumption preserves notebook battery life
- Hot Swappable
- MultiPacket Accelerator (MPX™) technology boosts network throughput
- Lifetime warranty



SCM006 NIC220 (Inc. VAT £56.40) **£48**

Networking Listings

ATI026	Atat2000T Iisa Adapter Utp	£25.00
ATI027	At2000T-20PK/isa Adap20pk	£425.00
ATI028	At2000U/isa Adaptor Combo	£35.00
ATI029	At1200U-20pk/isacombo20pk	£59.00
BEL140	Parashare 95 Comp Side Ad	£39.00
BEL141	Parashare 95 Print Side A	£69.00
BEL165	Parashare 95 Starter Kit	£89.99
DLK001	Dlink DE620CT BNC/RJ45 PP	£29.00
DLK002	Dlink DE220C CARD BNC	£37.50
DLK004	Dlink DE220ET Iisa UTP	£25.49
DLK005	Dlink DE220ECT Iisa Combo	£34.00
DLK006	Dlink DFES500TX PCI 10/100	£35.95
DLK007	Dlink DE530CT Combo PCI	£23.95
DLK009	Dlink DT220Token Ring Iisa	£28.00
DLK010	Dlink de400 nisa Bnc/tpaui	£128.00
IBN073	IBM Etherjet Networking Kit	£239.00
INT024	Etherexpress Iisa 16 BNC	£73.00
INT025	Etherexpress Iisa 16 RJ45	£73.00
INT026	Etherexpress Iisa F5H Combo	£89.00
INT027	Etherexpress 16BNC 5PK	£84.00
INT028	Etherexpress Iisa 16RJ 5PK	£84.00
INT029	Etherexpress Flash Co 5PK	£445.00
INT030	Etherexpress Pro 100 PCI	£169.00
INT031	Intel Tokenring Pro 100 Eisa	£24.95
INT061	Intel/express 164 Iisa	£235.00
INT062	Intel Etherexpress Pro100	£70.00
INT063	Intel/etherexp Pro100 Smart	£70.00
INT066	Intel Etherexpress Pro 100	£24.95
INT097	Etheraspro 100TX RJ45 Pci	£69.00
INT099	Etheraspro 100+ Cpci	£79.00
KIN004	Ether LC Combo/Ether Iisa	£39.00
KIN005	Ether LC Combo/Ether Iisa	£39.00
KIN006	Ether PC Combo/Ether RJ45	£49.99
KIN015	Kingston 108-116Bit Iisa	£36.00
NOV070	Nov. NE2000plus bnc/auai	£55.00
NOV071	Nov. NE2000plus 16bit RJ45	£55.00
NOV072	Nov. NE2000plus 16Bt Comb	£65.00
NOV073	Nov. NE2000plus Combo 5pk	£269.00
PLA019	Iisa Pnp Ethernet Card	£18.99
PLA020	32 bit pci combo netcard	£24.95
PLA021	Pci 10/100 Base Tx Adaptor	£69.00
PLA041	Planet Mca Ethernet Card	£84.95
SMC001	SMC Elite Ultra Iisa RJ45	£59.00
SMC002	SMC Elite Ultra Iisa BNC	£59.00
SMC003	SMC Elite Ultra Iisa Combo	£63.00
SMC004	SMC PCI Ethernet Adaptor	£99.00
SMC005	SMC Pci Ethernet Adapt 5pk	£175.00
SMC007	SMC Elite Ultra RJ45 6-pk	£92.00

Networking Solutions for your business

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Novell Netware

	(Inc. VAT)	
NOV133	IntranetWare 5 User	£522.87 £445
NOV152	IntranetWare 10 User	£1056.33 £899
NOV140	IntranetWare 25 User	£1897.63 £1615
NOV158	IntranetWare 50 User	£2608.50 £2220
NOV136	IntranetWare 100 User	£3654.25 £3110
NOV161	IntranetWare 250 User	£6370.08 £5429
NOV013	From any to INW for SME 5 User	£233.83 £199
NOV014	From any to INW for SME 10 User	£410.08 £349
NOV015	ServerWare + INW for SME 5 User	£457.08 £389
NOV016	INW for SME 1 User Licence	£95.24 £79.99
NOV017	INW for SME 5 User Licence	£175.08 £149
NOV020	NetWare 3.12 250 User CD-ROM	£5873.83 £4999
NOV019	NetWare 3.12 100 User CD-ROM	£3523.83 £2999
NOV018	NetWare 3.12 50 User CD-ROM	£2466.33 £2099
NOV003	NetWare 3.12 25 User CD-ROM	£1784.83 £1519
NOV004	NetWare 3.12 10 User CD-ROM	£1304.25 £1110
NOV078	Personal NW v1 Single user 3.5"	£51.70 £44
NOV012	Personal NW 5 user Dual Media	£210.33 £179

Please note that these prices will fluctuate, as they are dollar based products.

SMC

SMC001	SMC Elite Ultra IISA RJ45	(Inc. VAT £69.33) £59
SMC002	SMC Elite Ultra IISA BNC	(Inc. VAT £69.33) £59
SMC003	SMC Elite Ultra IISA COMBO	(Inc. VAT £74.03) £63
SMC004	SMC PCI Ethernet Adaptor	(Inc. VAT £116.33) £99
SMC005	SMC PCI E'net Adapt. 5 PK	(Inc. VAT £558.13) £475
SMC007	SMC Elite Ultra RJ45 6-Pk	(Inc. VAT £390.10) £332
SMC008	SMC Elite Ultra BNC 6-Pk	(Inc. VAT £390.10) £332
SMC009	SMC Elite Ultra Combo 6Pk	(Inc. VAT £433.58) £369
SMC010	SMC Elite Ultra 32C Combo	(Inc. VAT £179.78) £153
SMC011	SMC Etherz IISA RJ45	(Inc. VAT £69.33) £59
SMC012	SMC Etherz IISA BNC	(Inc. VAT £69.33) £59
SMC014	SMC Etherz Combo 5 Pack	(Inc. VAT £391.39) £333
SMC015	SMC Ether100 PCI RJ45	(Inc. VAT £175.08) £149
SMC016	SMC Ether100 EISA RJ45	(Inc. VAT £210.33) £179

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ART018	LANtastic V7 Starter Kit for 2 PCs inc. hardware	£198.58 £169
ART021	LANtastic V7 Add on Kit for 1 PC Inc. hardware	£92.83 £79
ART024	LANtastic V7 10 User software license	£292.58 £249
ART026	LANtastic V7 Unlimited User software license	£562.83 £479
ART029	LANtastic V7 Upgrade 10 user	£198.58 £169

Microsoft

	(Inc. VAT)	
MIC493	Win NT Server 4.0 + 5 Client License U/G	£339.58 £289
MIC463	Win NT Server 4.0 + 5 Client License	£681.50 £580
MIC474	Win NT Server 4.0 Client License	£30.55 £26
MIC495	Win NT Server 4.0 + 10 Client License	£938.83 £799
MIC555	Win NT Server 4.0 + 10 Client License U/G	£457.08 £389
MIC556	Win NT Server 4.0 Client Access Upgrade	£16.45 £14

Intel Network Cards

	(Inc. VAT)	
INT093	Netport ExpPro E/NET 100	£304.33 £259
INT094	Netport ExpPro E/NET 100 3PK	£786.08 £669
INT095	Netport Pro100 Single port RJ45	£269.08 £229
INT096	Netport Pro100 Single port RJ45 3PK	£786.08 £669

LAN Adapter 100MBPS

LAN097	Etherex Pro100TX RJ45 PCI	£81.08 £69
LAN098	Etherex Pro100 PCMCIA 16bit	£151.58 £129
LAN100	Etherex Pro100 PCMCIA 32bit Cardbus	£155.10 £132
LAN099	Etherex Pro100-C PCI	£92.83 £79

ATI Hubs and Network Cards

	(Inc. VAT)	
ATI001	AT-MX10 AUI to BNC Tr.	£22.33 £19
ATI002	AT-210T AUI to UTP Tr.	£22.33 £19
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ATI015	ATMR128F 1UTP 1 Fibre & PSU	£293.75 £250
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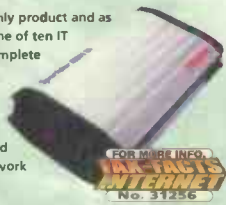
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- Cables & connectors
- Internet Guide
- Lifetime technical support
- 5 year warranty
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Key Features

- Flash Rom memory
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- Duplex speaker phone*
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- Fax on demand
- Call discrimination
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- Internet Guide
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Key Features

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- Call screening
- Remote messages retrieval
- Full Duplex speakerphone

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- Error control for best throughput and performance
- Phone number directory stores up to four frequently called numbers

- Error free fax transmission
- Automatic rate adaptation adjusts speed up and down for line conditions to operate at the highest speed possible with the fewest errors
- V.80 video conferencing ready
- 5 year warranty

MOT007 Motorola VoiceSURFR (Including VAT £116.33) **£99**

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Features

- Download files at speeds of up to 56 Kbps
- V34 technology for best performance and reliability
- Data rates up to 56,000 bps
- Error control for best throughput and performance
- Phone number directory stores up to four frequently called numbers

- V.80 video conferencing ready
- Automatic rate adaptation adjusts speed up down for line conditions to operate at the highest speed possible with the fewest errors
- Error free fax transmission
- 5 year warranty

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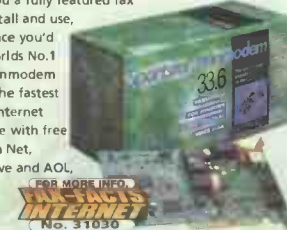
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- 5 year warranty

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Key Features

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- Personal Voice Mail - 1000 mailbox
- Direct fax service from PC
- Call discrimination; fax/data/voice

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* Speakers/Microphone or suitable headset required

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- SoundCard support
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- Auto detection of voice, fax and/or data
- Multitasking background operation
- Support for multiple applications

PC MAGAZINE EDITOR'S CHOICE

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- Fully BABT approved
- FREE headphone & Mic.
- V.34+ 33.6Kbps
- V.21, V.22, V.22bis, V.32, V.32bis
- V.17, V.27 ter/V.29, T.30/T4
- MNP-4, 10 and V.42 error correction
- MNP-5 and V.42bis data compression
- Send & receive faxes
- Com1 to Com4 selectable
- AutoDial and AutoAnswer
- Call progress monitoring
- 3 Years full manufacturer warranty
- Full duplex speaker-phone
- Supplied with SuperVoice software

Tashika 33.6 External

- Fully BABT approved
- FREE headphone & Mic.
- V.34+ 33.6Kbps
- V.21, V.22, V.22bis, V.32, V.32bis
- V.17, V.27 ter/V.29, T.30/T4
- MNP-4, 10 and V.42 error correction
- MNP-5 and V.42bis data compression
- Send & receive faxes
- Com1 to Com4 selectable
- AutoDial and AutoAnswer
- Call progress monitoring
- 3 Years full manufacturer warranty
- Full duplex speaker-phone
- Supplied with SuperVoice software

Tashika K56 Flex Internal

- Fully BABT approved
- FREE headphone & Mic.
- K56flex V.34Kbps
- V.32bis, V.32, V.22bis, V.22, V.23, V.21
- V.21, V.22bis, V.27ter, V.29, V.17
- MNP-4, 10 and V.42 error correction
- MNP-5 and V.42bis data compression
- 2/4-bit ADPCM for telephone answering machine, full duplex speakerphone
- Full duplex speaker-phone
- Supplied with SuperVoice software
- AutoDial and AutoAnswer
- 3 Years full manufacturer warranty

Tashika K56 Flex External

- Fully BABT approved
- FREE headphone & Mic.
- K56flex V.34Kbps
- V.32bis, V.32, V.22bis, V.22, V.23, V.21
- V.21, V.22bis, V.27ter, V.29, V.17
- MNP-4, 10 and V.42 error correction
- MNP-5 and V.42bis data compression
- 2/4-bit ADPCM for telephone answering machine, full duplex speakerphone
- Full duplex speaker-phone
- Supplied with SuperVoice software
- AutoDial and AutoAnswer
- 3 Years full manufacturer warranty

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- 33600 bps modem with auto fall back
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- ITU - T recommended V.42 error correction
- MNP 5 Microcom Data compression
- ITU - T V.42 bis data compression
- Group 3 send and Receive facsimile
- Extended AT Command Set
- Class 1 Fax command state (E.I.A/TIA 578)
- PCMCIA 2.1 type II compatible
- Does not include superVoice

(Inc. VAT £58.69) TAS030 33.6 Int... **£49⁹⁵** (Inc. VAT £76.32) TAS031 33.6 Ext... **£64⁹⁵** (Inc. VAT £82.19) TAS024 55.6 Int... **£69⁹⁵** (Inc. VAT £105.69) TAS025 55.6 Ext... **£89⁹⁵** (Inc. VAT £105.70) TAS026 PCMCIA... **£89⁹⁵**

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The simplest choice ever for digital connectivity

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- **H.320 Video conferencing**
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- **CLI and MSN (BT ISDN connection options)**
Caller Line Identification (CLI) allows you to see who's calling before you answer the call. Multiple Subscriber Numbering allows you to have 10 telephone numbers on your 2 BT ISDN lines so you can have different numbers for different applications e.g. fax, video.
- **PC system requirements (minimum)**
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- **Telepower Pro**
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£149 (inc VAT £175.08)

Modem Listings	
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CIO001	Connect IQ 420 ISDN TA.....£499.00
CIO003	Connect IQ 110 ISDN Int.....£319.00
CIO007	Connect IQ 460 ISDN TA.....£749.00
HAY024	Hayes Accura ISDN TIA.....£179.00
PAC027	Ultralink 2 Analogue Port.....£254.00
ZOO013	Zoom ISDN/Modem Internal.....£169.95
ZOO014	Zoom ISDN TA Internal.....£119.95
XIR018	Xircom 33.6 PC Card Modem.....£139.00
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COM029	Comswich Phone Line Shar.....£5.95
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HAY020	Accura 33.6 Message Modem.....£101.00
HAY021	Accura 33.6 Net Kit Extern.....£89.00
HAY022	Accura 56k Voice Internal.....£119.00
PRE002	Premier m56i Internal.....£79.00
PRE008	Premier M56k External.....£89.00
SPI002	Spiderman vs Fax Modem.....£29.00
SWH002	SWWH Fast 28.8 Int Fax/Mod.....£7.50
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TELO08	Tevadaptor Laptop L/Line adaptor.....£82.00
USR014	Usr Sport 28.8 Intern.....£29.95
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XIR013	Xircom 4 Multiport Modis.....£99.00
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ZOO007	Zoom Comstar.....£139.00
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ZOO010	Zoom 33.6 Mac Data/Fax Ex.....£75.49
ZOO011	Zoom 56k Data/Fax Externa.....£114.95
ZOO012	Zoom 56k Data/Fax Interna.....£99.95
ZOO009	Zoom 33.6 Data/Fax Extern.....£75.49
ZOO010	Zoom 33.6 Mac Data/Fax Ex.....£75.49
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Aztech Audio Web 33.6

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The future of global telecommunications in a box!

Also included is the powerful Trio tele-communication software. From a friendly Windows interface you have full control over all your PC communications, phonebook, message retrieval centre, mailbox and all standard telephone functions. You can even create and customise fax cover sheets, set auto dial and receive as well as, view, edit, print or delete faxes. In fact Audio Web is probably the only communications package you may ever need!



What the Press are saying

Named "Best Bundle" by Computer Shopper
"Aztech has come up with a total communications solution at a killer price"
PC Review June 97

(inc. VAT £82.19)

AZT024 Aztech Audio Web 33.6.....**£69⁹⁵**

Aztech Video Phone upgrade kit PCI

Upgrade your PC to a desktop video conferencing system!



Use the internet or a regular telephone line to start video conferencing!

If you have a modem, a sound card and a telephone line the Aztech Video Phone Upgrade Kit is all you need! Works with POTS (Plain Old Telephone System) or via the Internet (all at a local call charge).

Includes high resolution video capture board, and a full function desktop camera. The system is H.324 compliant which ensures smooth communication and Inter-operability with other video systems.

Included is MS Internet Explorer 3.0 with NetMeeting software featuring Whiteboard Sharing which allows you to write, draw and colour objects as you brainstorm and participate in on-line discussions. Also includes user-friendly Communication Call Centre with Phone Directory, Call log and Video Controls.



(inc. VAT £186.83)

AZT012 Aztech Video Phone Upgrade.....**£159**

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Video conferencing and much, much, more

Viewmate™ pc-camera is a unique colour digital CMOS camera bundled with software which sets you up to talk and see around the world. Simply plug into your parallel port, load the software and you're away.

Benefits:

- Video phone your friends anywhere in the world
- Create smooth non-linear time lapse video clips over extended time periods
- Record what is happening in your room or office while you are away
- Create your own screen saver from your still shots

Software included:

- VideoLink VideoPhone from SmithMicro
- VMail video e-mail from SmithMicro
- Gotchal personal observation ware from Prescient Systems
- PicSaver screen saver from Pegasus
- Evaluation versions of:-
- PhotoWallet picture organiser from NBA
- FaceIT PC 3.0 face recognition from Visions

Hardware included:

- Digital colour video camera with manually adjustable focus lens for distances from 1cm - Infinity
- Parallel port interface
- T-pass power connector
- Two camera stands for desktop use
- Mounting clip for laptop use making your PC-Camera completely mobile

- Construction
Parallel port interface with remote camera head, 2m cable, separate keyboard power cable
- Camera Housing
Desktop and laptop PC fixtures with manual pan and tilt in any direction.
- Power
From PC keyboard socket
- Sensor
Colour CMOS sensor
- Resolution
Video Mode: 160x120, 128x96, 112x80 Still Mode: 640x480, 320x240, 288x216, 200x152
- Speed (max.)
15 frames/sec. (160x120 video mode)
<1 sec. capture (640x480 still mode)
- Field-of-view
60 Degrees (horizontal)
- Depth-of-field
200mm to Infinity

- Port Compatibility
Standard (unidirectional) printer port, 8bit bi-directional ECP enhanced mode
- Software Compatibility
16bit video for Windows™ driver which runs under Windows 3.x™ and Windows 95™



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Send video E-mails with an in-built video player to any e-mail address in the world

STOCK CODE: AUG001

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Amacom Flip Disk

NEW PRODUCT

Finally, the arrival of true mobile data storage.

The Flip Disk is a revolutionary, new portable storage device that is smaller, faster and offers more capacity than anything else on the market. The unit is powered directly from the notebook or desktop computer making external power supplies unnecessary. For ultimate portability, the Flip Disk also does away with the need for interface and power cables.

The Flip Disk is the most compact high capacity portable storage device currently available. The unit incorporates industry standard 2.5" hard drives with capacities of up to 6.4Gb, using data compression. Data transfer speeds and access times are phenomenal - as fast as internal hard drive speeds. The unit connects via PCMCIA or parallel ports.

AMAA024 Amacom Flip Disk 2.8 **£339** (Inc. VAT £398.33)

AMAA025 Amacom Flip Disk 4.2 **£449** (Inc. VAT £527.58)

Amacom - EZCD portable parallel port based CD-ROM drive

Amacom's portable EZCD drive simply connects to the parallel port of any PC. The unit has a pass thru printer port connection and is compatible with DOS, Windows 3.x, 95 and OS2.



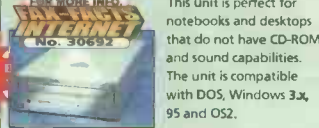
AMAA003 EZCDx4 Quad speed **£119** (Inc. VAT £158.83)

AMAA009 EZCDx8 Eight speed **£135** (Inc. VAT £198.58)

AMAA029 EZCDx16 Sixteen sp... **£169**

Amacom - EZCD sound portable parallel port based CD-ROM with built in 16-bit sound

Amacom's EZCD SOUND is a portable parallel port CD-ROM drive with a built in 16-bit sound card.



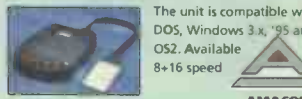
AMAA002 EZCD x4 Sound **£155** (Inc. VAT £182.13)

AMAA007 EZCD x8 Sound **£170** (Inc. VAT £199.76)

AMAA030 EZCD x16 Sound **£185**

Amacom - EZCD PLUS Portable PCMCIA based CD-ROM & mobile audio CD player

Amacom's EZCD PLUS drive is the perfect accessory for any notebook. It is ideal, both as a CD-ROM and as an audio CD player and it draws power from PC.

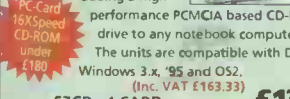


AMAA026 EZCD Plus x8 **£179** (Inc. VAT £210.33)

AMAA032 EZCD Plus x16 **£205** (Inc. VAT £240.88)

Amacom - EZCD CARD Portable PCMCIA based CD-ROM drive

The ideal way of adding a high performance PCMCIA based CD-ROM drive to any notebook computer. The units are compatible with DOS, Windows 3.x, 95 and OS2.



AMAA001 EZCD x4 CARD **£139** (Inc. VAT £186.83)

AMAA005 EZCD x8 CARD **£159** (Inc. VAT £210.33)

AMAA031 EZCD x16 CARD **£179**

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Hayes implements K56 FLEX technology which provides greater compatibility and outperforms other comparable 56K technology, enabling you to download information off the Internet at startling speeds over standard telephone lines. For more information call for fax facts.



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- Hayes software bundle on CD-ROM containing FREE web and internet software

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HAY021 ACCURA 336 External V.34 + FAX	(Inc. VAT. £104.58)	£89
HAY022 ACCURA 56K Internal Message Modem	(Inc. VAT. £139.83)	£119
HAY017 ACCURA 336 Internal Message Modem	(Inc. VAT. £128.07)	£109
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HAY024 ISDN Terminal Adaptor	(Inc. VAT. £233.83)	£179

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Zeta 24 MAX CD-ROM

Includes the new Zeta 24 MAX CD ROM
The fastest CD-ROM drive we sell! Incredible disk access speeds and massive data throughput.

NEW PRODUCT
This complete internal kit offers you the chance to upgrade your PC with the fastest CD-ROM drive around. Why settle for less when you can have state-of-the-art CD-ROM technology.



Features:

- Ave Access Time -100 ms
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AZT030 Zeta 24 Max CD-ROM **£64⁹⁵** (Inc. VAT £76.32)

Waverider Pro 32 3D

The wave synthesis and 3D effect, PnP sound solution



SG Waverider Pro 32 3D is the high end wavetable sound card from Aztec. It embeds both wave synthesis solution as well as 3D sound effects. The Waverider has a built in 32 voice wavetable synthesis for realistic production of 128 instrumental and up to 132 percussion instruments. This amazing sound card offers crystal clear realistic instrumental sound effects.

Features

- Built-in 3D sound effects for better audio realism.
- Realistic reproduction of 128 instrumental and up to 132 percussion sounds. i20 built-in FM voices using Yamaha OPL3.
- Dynamic filtering facility for better sound quality. CD-quality sound reproduction with 48 KHz sampling rate in full stereo.
- Quality digitized audio playback at 44.1 KHz in full stereo.
- Designed for Windows 95, the Plug & Play feature ensures instant and effortless installation.
- Full duplex audio driver allows audio communications over the Internet.

What the Press are saying

"Award for the best value card definitely goes to Aztech's Sound Galaxy Waverider Pro."
"...got through all of our tests without managing to hit any problems at all"
"...sound quality of the Waverider was very impressive..."
"You're going to need sound reasoning to justify spending so much more on a competitor."

PC Advisor, September '97

AZT009 Waverider Pro 32 3D **£29⁹⁵** (Inc. VAT £35.19)

Multimedia Listings

AZT020	MM Wave Tite up Audiolove	£44.95
PRD05	Midstorm Musk K8 49KHz	£79.99
PR010	Midstorm Homestudio 61Kb	£224.99
PR116	Primax Bravo 16 Bit Fm	£63.00
TEC001	Technoplus Power Sound	£89.95
TER008	Ews 64 Sound Card	£379.00
THU002	Thunderboard For DOS	£44.95
TRO001	Tropez Plus + Cakewalk Ex	£199.00
TUR022	Turtle Beach Fiji	£289.00
TUR023	Fiji With Digital Vo	£349.00
TUR024	Turtle Beach Pinnacle	£369.00
TUR025	Pinnacle With Digital Vo	£429.00
UBI001	Maxi Sound 64 Home Studio	£139.00
YAM007	Yamaha D850ig +Cakewalk	£99.00
ARB001	Music Creator pro mk-149	£80.81
ARB002	Music Creator (with mk-10)	£42.51
ARB003	Band In A Box	£55.28
ARB004	Discovering Music	£59.95
ARB005	Digital Orchestrator Plus	£85.06
ARB009	Cubasis By Steinberg	£119.95
ARB010	Music @ Passport	£79.95
ATTO27	Orchestra	£34.04
CAK001	Cakewalk Professional v5	£159.00
CAK003	Cakewalk Home Studio v5	£69.00
CAK003	Cakewalk Pro Audio v6 Del	£299.00
CAK004	Cakewalk Pro Audio v6 95	£289.00
DAT030	Techno Maker	£24.95
DAT031	Techno Maker Plus Add On	£12.72
DIG021	Digital Orchestrator Plus	£110.60
MAG006	Music Maker	£29.95
MAG007	Wave Soundpool Dance/House	£19.95
MAG008	Wave Soundpool Jungle/D+B	£19.95
MAG009	Wave Pool/Ambient Chill	£19.95
MID002	Music Works 2	£49.95
MSW001	Piano Course 1	£62.50
PER010	Personal Composer 16 Stve	£99.00
PER030	Personal Composer 44 Stav	£159.00
RDC005	Rockbase v2	£23.79
SEY001	Koan Pro v2	£119.11
SEY002	Brian Eno Generative Mus1	£36.00
SEY003	Koan x Platinum	£30.21
SIO001	Quick Score Elite	£49.00
SIO002	Quick Score Elite Level 2	£100.00
SOF004	Software Audio Workshop	£366.00
UBI004	Adventures in Music	£15.95

FM Stereo Radio Card

Aztech brings you high quality FM stereo radio reception directly to your PC

Now you can listen to your favourite radio station, whilst you work. Update your self on the latest news or weather reports - or simply sit back, relax and enjoy the latest music hits.



FM Stereo For your PC!

Features

- Frequency channels ranging from 87MHz - 108MHz
- Alarm slumber and sleep functions
- Graphical user interface radio control panel
- 24 preset channels provides a selection of favourite listing stations

AZT015 Aztech FM Stereo Radio Card **£18⁹⁵** (Inc. VAT £22.27)

Aztech Galaxy Pro 16III 3D

Turn your PC into a complete hi-fi centre with the Aztech PnP Pro 16 III sound card

Aztec are the worlds 2nd largest sound card manufacturer. These high quality sound cards are able to reproduce, crystal clear CD quality sound, transforming your computer into a digital recording and playback studio.

These sound card also provide a gateway to the widest selection of and Windows applications because they support the three major standards: AdLib, SoundBlaster Pro and Microsoft Windows sound System.

Transform your computer into a digital recording and playback studio!



AZT014 16Bit SoundCard **£19⁹⁵** (Inc. VAT £22.95)

Tashika Multimedia Kits

Tashika Multimedia Kits offer the most cost-effective way to turn your PC into a professional multimedia sound system.

- Each kit features:
- 32 Wavetable 3D Sound Card
 - Quality Stereo Headphones
 - Lapel/Monitor Microphone
 - 10X or 16X CD-ROM Drive
 - All Cables & Fitting Instructions

The sound card embeds both wave table synthesis as well as 3D sound effects. It has a built in 32 voice wavetable synthesiser for realistic production of 128 instrumental and up to 132 percussion instruments offering crystal clear, realistic instrumental sound effects.

- SoundBlaster compatible + IDE CD Rom interface
- Speaker Audio jack, Microphone Input jack, Line input jack and a Joystick/Midi port + Record and Playback facility + 6 Channel mixer + Support for Windows 3.X, Win 95, Win NT and OS/2. Each multimedia kit also comes with 13 multimedia and business audio software packages, they work on both Win 3.x and Win 95 and include: AudioStation, VideoStation, ImageStation, Audio Calendar, Say It!, Sound Events, MIDI Screen Saver, Level Controller, MIDI Orchestrator, WinDAT, Sound Script, Sound Check and Juke Box.

TA5027 16x MMedia Kit **£74⁹⁵** (Inc. VAT £88.07)

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TA5021 Tashika 32 **£27⁹⁵** (Inc. VAT £32.84)

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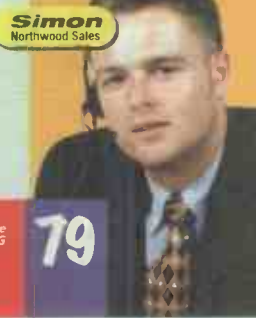
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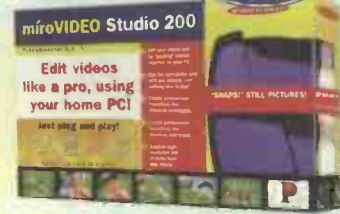
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The easy editing box for the home

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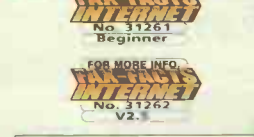
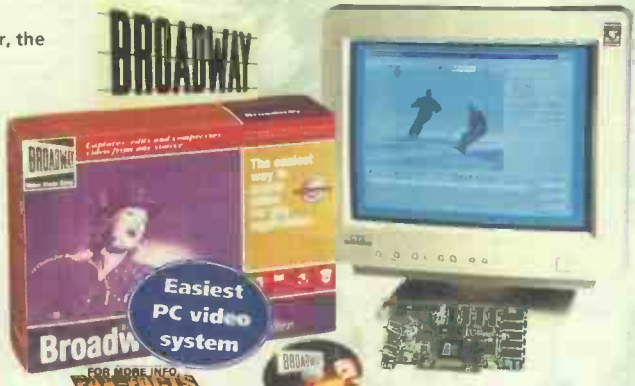
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 - Ulead™ Systems Media Studio™ video editing application
 - Video and audio clip libraries
 - Video playback scalable to full screen
 - Free redistributable MPEG playback software
 - Support for multiple multimedia applications including PowerPoint™, Persuasions™, Astound™, Director™, Authorware™, HTML, and more
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Camcorder & Computer Video Magazine, Dec. '96

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Software included: Creative Audio Tools for both Microsoft Windows 3.1 and Windows 95 (Creative Multimedia Deck, WaveStudio™ LE, Vienna SoundFont studio and INTERNETed software (Microsoft Internet Explorer, RealAudio player and WebPhone.



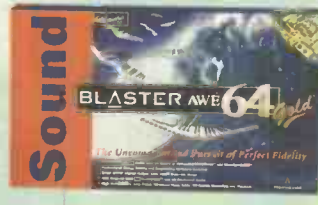
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SoundBlaster AWE 64 Gold

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STB	Velocity 3D VX	PCI	S3 Trio	EDO VRAM 4MB	1600x1200	£119 (Inc VAT £139.83)	STB025
Hercules	Terminator 64 Video	PCI	S3 Trio 64+	2 MB EDO RAM	1024x768 75Hz	£89 (Inc VAT £105.83)	HER012
Hercules	Dynalite 128	PCI	ET6000	2 MB DRAM	1280x1024 75Hz	£69 (Inc VAT £81.08)	HER011
Hercules	Dynalite 128	PCI	ET 6000	4 MB DRAM	1280x1024 Multisync 75Hz	£95 (Inc VAT £113.80)	HER014
Hercules	Stingray 64 V	PCI	Ark	2 MB	1280x1024 75Hz	£45.95 (Inc VAT £53.99)	HER010
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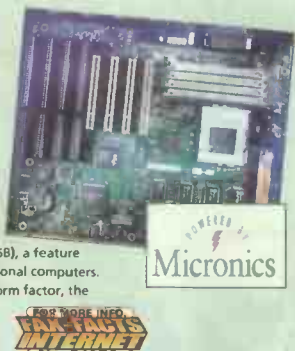


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*See page 2 for Price Pledge

Intel Pentium® OverDrive® Processors with MMX™ Technology



Get improved sound, graphics, and processor performance



Intels Pentium® OverDrive® processors with MMX™ technology are the quick and easy way to have the power to play hot new games, run media rich applications and take advantage of running systems like Windows 95.

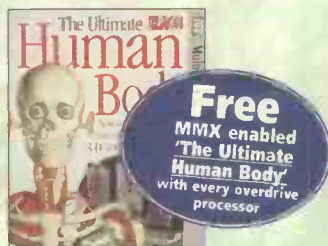
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- 1 Single Chip Upgrade
- 2 Easy installation
- 3 Enables crisper graphics, smoother video, clearer audio
- 4 Speeds up all applications
- 5 Free software included
- 6 Affordable
- 7 3 Year limited warranty
- 8 Backed by Intel's Customer support
- 9 Gears you up to run future MMX technology titles
- 10 <http://www.intel.com/overdrive>

Choosing an Intel Pentium OverDrive Processor with MMX™ technology today not only provides higher levels of your current software applications – it puts you in position to take advantage of an even richer PC experience tomorrow as new MMX technology-enabled applications are introduced.

For more information on MMX technology visit www.intel.com/overdrive

Software Warehouse Exclusive



MMX™ Technology from only

£119 (Inc VAT £137.83)

The Pentium OverDrive processor is available in three versions, depending on your system's bus speed

Present System	Pentium® OverDrive® Processor Upgrade	Stock Code	Price	Inc VAT
100/133/166MHz	200MHz overdrive + MMX	INT122	£185	£217.38
100/133MHz	166MHz overdrive + MMX	INT092	£113	£132.77
190/120/150MHz	180MHz overdrive + MMX	INT121	£159	£186.83
75/90MHz	125/150MHz overdrive + MMX	INT091	£129	£151.58
60/66MHz	133MHz overdrive	INT048	£115	£137.83
486 33MHz SX/DX	83MHz overdrive	INT019	£115	£135.12

**The 200MHz Pentium® Overdrive processor with MMX™ technology is design for upgradable Socket 7 system. Installation in upgradable Socket 5 systems should not be attempted unless the system meets the minimum Socket 7 specification.

For further information and to determine which Pentium Overdrive processor with MMX technology upgrades your system please consult version 16 of the Intel Pentium OverDrive Processor Upgrade Guide or visit Intel's web site at www.intel.com/overdrive/upguide



Need Speed? 586 Power in your 486!!

Evergreen's 586/133 MHz upgrade delivers 75MHz 586 processor performance in just 10 minutes! A simple 10 minute installation of an Evergreen 586 enables you to migrate from a 486SX, 486DX or 486DX2 up to a 133MHz 586 system.

Winstone 96 Test Results: Windows 95

HP Vectra 486DX/33MHz	16.7
Upgraded with Evergreen 586/133	31.6
Upgraded with Intel® Pentium OverDrive 83	30.9
New Gateway 2000 Pentium 60MHz	27.9

What the Press are saying

"Installing the Evergreen upgrade was a simple task taking less than 10 minutes to complete"
PC Week

Installation – it's as easy as ABC

- Locate 486 CPU or OverDrive socket and carefully remove the 486 processor if necessary.
- Allign pin 1 on the upgrade module with the CPU or OverDrive socket and place the upgrade into the socket.
- Firmly press the upgrade down into the socket, and the job's done. Now turn on your PC and enjoy the new 586 Power!

- Uses the highest rated 133MHz AMD 5x86 processor
- Features 16K high speed level 1 cache
- Increases Windows performance by 200%
- Runs Windows 95, OS/2 and Windows NT
- Protects your PC Investment and extends the life of your system
- Includes lifetime warranty



(Including VAT £116.33) **£99**
EVE242 Evergreen 486/586 Processor upgrade

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FaxFacts 0891 518 060*

*See page 2 for details

Internet site www.software-warehouse.co.uk/

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Coleshill Industrial Estate
Coleshill, Warks B46 1HG

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Upgrades Listing

GIG001	Gigabyte 586HX M/BRD512Kb	£85.00
GIG003	Gigabyte ATX Dual Pent Mb	£199.00
GIG004	Dual Pentium Pro Ga 686DX	£299.00
GIG005	Gigabyte 586TX At 512K Ca	£95.00
INT074	Gigabyte Pentium MotivBrd	£88.00
INT078	Intel V544DFX Pent Pro mv	£209.00
INT085	Intel Tuxcon MMX-Ready Mb	£99.00
INT110	Intel PR46DFX Dual Proata	£399.00
INT113	Intel Portland Pentium II	£169.00
INT120	Intel AN430TX Pentium ATX	£119.00
KST263	512Kb Pipelined Burst CAC	£42.00
KST264	256Kb Pipelined Burst CAC	£28.00
MCT001	Tyan Tomcat 1 Pentium Mb	£159.00
PRO100	Proton 486/586 Motherboard	£69.00
SCDD04	QDI JVL Vx MMX Ready 512K	£69.00
SCDD05	QDI Titanium TX Pentium	£85.00
TYA001	Tyan Tahoe 2 ATX P2/PPrio	£249.00
TYA002	Tyan Riser Board	£22.95
AMD002	Amd K5 586-75 75MHz 3.3v	£39.00
AMD003	Amd K5 586-90 90MHz 3.3v	£48.00
AMD004	Amd K5 586-100MHz 3.3v	£59.00
AMD005	Amd K5 586-120 120MHz	£69.00
AMD008	Amd K6 200MHz	£135.00
AMD009	Amd K5 166MHz	£79.00
AMD010	Amd K6 - 233MHz	£209.00
AST012	386DX To 486 Upgrade Chip	£149.00
CYR002	Cyrix 6x86 P150+ Inc Fan	£49.00
CYR003	Cyrix 6x86 P166+ Inc Fan	£48.00
CYR004	Cyrix P200+ Inc Fan	£59.00
CYR005	Cyrix P166 MMX	£149.00
CYR006	Cyrix P200 MMX	£199.00
CYR007	Cyrix P233 MMX	£299.00
GAI001	Gainbery 486Up/pent120	£119.99
GAI002	Gainbery 486Up/pent133 DX	£149.99
HEA002	486 Heatsink & Fan	£4.99
HEA003	Pentium Heatsink & Fan	£5.00
HEA004	Pentiumpro Heatsink & Fan	£10.00
HEA005	Heatsink & Fan For P200	£8.00
INT056	Pentium 166MHz Retail Box	£159.00
INT072	Pentium Pro P180 Retail	£299.00
INT073	Pentium Pro P200 512K	£179.00
INT081	Pentium Pro 200 256K Cach	£440.00
INT083	Pentium 200MMX Retail Box	£189.00
INT084	Pentium 166MMX Retail Box	£119.00
INT119	Pentium 233MHz MMX Retail	£299.00
INT123	Pentium II 233MHz Retail	£399.00
INT124	Pentium II 266 Retail	£499.00

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QUALITY GLASS
SCREEN FILTERS
WITH
ANY
14"-17"
MONITOR

Did you know that it is an EC directive that screens should be free of reflective glare? This became law on December 31st 1992. We didn't, so as soon as we found out we negotiated this fantastic deal with the leading screen filter supplier Fellowes®. All Anti-glare screen filters supplied by Fellowes® comply with EC regulations.

14"-15" Screen Filter
NOW ONLY £19.95

16"-17" Screen Filter
NOW ONLY £39.95

* Usual Software Warehouse Prices

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Recommended SOFTWARE WAREHOUSE Monitors

- Entry Level Screen
- Digital technology at an unbeatable price

Tip:- All businesses will need EEC standard anti-glare screens

What the Press are saying

"14" and 15" monitors should really be restricted to use at 800 x 600"
 PC Direct March '97

- MRP 2 Low radiation
- Energy Saving
- Digital Multiscan
- 0.28 dot pitch
- 1024 x 768 resolution



MON005 SWWH 14" (Including VAT £116.33) **£99**
 MON008 SWWH 14" Dig Multiscan (Including VAT £128.08) **£109**

14"

15"

Recommended Studioworks 56i

- Affordable Multimedia and internet solutions

Tip:- Look for 72Hz vertical refresh minimum to prevent flickering and eyestrain

What the Press are saying

"to our mind the 56i gave a very nice picture"
 Shopper Labs '97

- Multi-synchronous support from 640 x 480 up to 1280 x 1024 NI
- Flicker-free 1024 x 768 NI non-interlaced at 75Hz
- Digital microprocessor controls with on-screen displays
- 3 YRS ON-SITE WARRANTY



LG5003 Goldstar 56i 15" (Including VAT £222.08) **£189**

15"

Recommended ViewSonic 15GA

- Offer usable viewing area for GUI operating systems
- Ideal for Windows 95

Tip:- Use resolutions of 800 x 600 maximum to reduce eyestrain

What the Press are saying

"don't be confused into judging a monitor by it's dot-pitch"
 PC Direct March '97

- 15" CRT with a max. non interlaced resolution of 1280 x 1024
- 0.27mm dot pitch
- Built-in microphone • Built-in speakers
- External microphone port
- OnView controls
- Refresh rates up to 160Hz
- ARAG coating
- Plug and Play compatibility



VIEW07 ViewSonic 15GA (Including VAT £292.58) **£249**

17"

Recommended TAXAN Ergovision 750 TCO-95

- 3 Yr Warranty - 1st yr on site, 2nd/3rd Back to base

What the Press are saying

"A razor sharp image and incredibly comprehensive image controls make Taxan a Star buy."
 May '97 PCPRO
 "Great spec, image and price an excellent choice."
 May '97 PCW

- 17" FST Diamondtron Monitor
- 0.25mm Aperture Grille Pitch
- 30-86kHz (Multiscan)
- Fully TCO 95 compliant
- Volume and mute
- Fully TCO 92 compliant
- 1280 x 1024 up to 80Hz
- Windows 95 Plug and play



TAX016 750 TCO95 (Including VAT £539.33) **£459**

17"

Recommended Iiyama Vision Master Pro 17

- The VisionMaster range has almost single-handedly forced a reduction in the price of 17" monitors

What the Press are saying

"the superb picture quality and simple, yet comprehensive, on-screen controls make it easy to recommend the Iiyama"
 PC Pro Dec '97

- DiamondTron 0.25 AG
- VESA-DPMS, Energy Star and NUTEK.
- Flicker free 1600 x 1200 @ 72Hz, 1280 x 1024 @ 85Hz
- 160 MHz bandwidth
- Windows '95 P & P DDC compatible
- 3 YEAR WARRANTY,
- "VISION CARE" AVAILABLE
- PLEASE CALL



IY004 MT-9017E (Including VAT £515.83) **£439**

17"

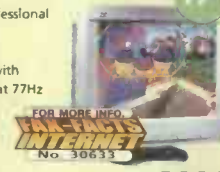
Recommended ViewSonic PT775

- A decent screen pays dividends in increases productivity and reduced eye strain

What the Press are saying

"an extremely high-quality 17" monitor which will satisfy the most demanding users and applications"
 Business computer world April '97

- Ideal for CAD/CAM/CAE & professional DTP and document imaging
- 17" aperture grille monitor
- 0.25mm aperture grille pitch with resolutions up to 1600 x 1200 at 77Hz
- Super contrast screen
- OnView control system
- ARAG anti-reflection and anti-glare coating



VIEW10 Viewsonic 17" PT775 (Inc. VAT £574.58) **£489**

20"

Recommended Studioworks 20i

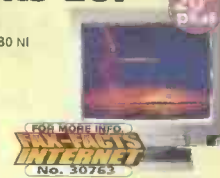
- Essential for CAD, typesetting and high resolution graphics

Tip:- Check for BNC connectors for use on a Macintosh

What the Press are saying

"whilst most 17" monitors claim resolutions of 1280 x 1024 they can be impossible to use"
 PC Format Jan '97

- Multi-synchronous support from 640 x 480 up to 1600 x 1280 NI
- Flicker-free 1280 x 1024 NI non-interlaced at 75Hz
- Digital microprocessor controls with on-screen displays
- 0.28 dot pitch with Double Focus Circuitry
- 3 YRS ON-SITE WARRANTY



LG5009 Goldstar 20i 20" (Including VAT £844.83) **£719**

Goldstar SW44i

- Multi-synchronous support from 640 x 480 - 1024 x 768 NI
- Flicker-free 800 x 600 NI (non-interlaced) at 77 Hz
- Easy to use front manual controls
- EPA Energy Star and VESA DPMS, NUTEK compliant
- MPR1 low emission compliance
- 3 YRS ON-SITE WARRANTY



LG5012 Goldstar SW44i (Including VAT £151.58) **£129**

SOFTWARE WAREHOUSE

- Power saving green energy
- 0.28mm dot pitch
- Digital Multiscan
- Unlimited colour range
- 1280 x 1024 resolution



MON006 SWWH 15" (Including VAT £151.58) **£129**
 MON009 SWWH 15" Dig Multiscan (Including VAT £175.08) **£149**

MAG DJ 530

- 15" FST tube
- Plug and Play
- 0.28mm dot pitch
- Vesa DPMS and EPA
- Energy star, TCO92
- 1280 x 1024 NI resolution
- JAG wheel feature
- 3 YRS ON-SITE WARRANTY



MAG010 MAG DJ530 15" (Including VAT £186.83) **£159**

SAMSUNG SM700S-MS

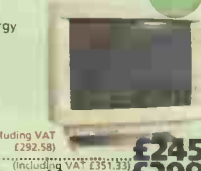
- 17" Hi-Res colour monitor (15.7" visible)
- Horizontal frequency 30-69KHz
- Totally flicker free
- Fine dot pitch, 0.28mm
- Plug & play.
- On-screen display
- Multimedia monitor optional
- 3 YRS ON-SITE WARRANTY



SAM008 SyncMaster SM700S-MS (Including VAT £415.95) **£354**

SOFTWARE WAREHOUSE

- Power saving green energy
- 0.28mm dot pitch
- Digital Multiscan
- Unlimited colour range
- 100MHz Max vertical frequency



MON010 SWWH 17" (Including VAT £292.58) **£245**
 MON005 SWWH 17" Dig Multiscan (Including VAT £351.33) **£299**

MAG DX700T

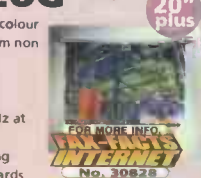
- 17" Trinitron tube
- Frequencies: Horizontal 30-70kHz - Vertical 50-150Hz
- Max resolution 1280 x 1024ni
- Fine dot pitch, 0.26mm
- Plug & play.
- On-screen display
- TCO-95
- 3 YRS ON-SITE WARRANTY



MAG011 MAG DX700T (Including VAT £445.33) **£379**

ViewSonic 20G

- 20" digitally controlled colour monitor with a maximum non interlaced resolution of 1600 x 1200
- 0.28mm dot pitch
- High refresh rate of 80Hz at 1280 x 1024
- ViewMatch colour tuning
- Meets TCO safety standards



VIEW04 ViewSonic 20G (Including VAT £891.83) **£759**

A massive 40,000 items in stock across 8,000 different product lines. Nobody delivers faster!

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at Britain's best prices!

SAMSUNG SYNC 3NE 14"

- 14" Diagonal INVAR/Non-Glare & flicker free
- Horizontal frequency 31.5-35.5 38-48Hz
- Max resolution 1024 x 768
- Fine dot pitch, 0.28mm
- Plug & Play
- Full Energy Star power management controls
- 2 YRS ON-SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 30025

SAM007 SyncMaster SYNC 3NE £129 (Inc VAT £151.58)

TAXAN 410 LR 14"

- 0.28 dot pitch
- Non glare/anti static screen
- 800 x 600 @ 75Hz
- 1024 x 768 max. Resolution
- Front mounted controls
- Energy star and Nutek compliant
- VESA DPMS and MPR II
- WARRANTY AS TAXAN 5750 TCO95**

FOR MORE INFO
FAXFACTS INTERNET
No. 30427

TAX015 TAXAN 410 LR (Including VAT £175.08) £149

Studioworks 44M Multimedia 14"

- High tech design with stereo speakers (3W + 3W) built-in
- Supports up to 1024 x 768@60Hz
- Flicker-free 800 x 600 non-intergrated@75Hz
- Dark glass and non-glare screen for bright and vivid images
- 3YR WARRANTY ON-SITE**

FOR MORE INFO
FAXFACTS INTERNET
No. 30043

LSG001 Goldstar 14" 44/M £159 (Including VAT £186.83)

Iiyama Vision Master 15 15"

- Microprocessor Controls
- Pincushion, Trapezoid and Rotation Controls, Colour Controls
- Max. Resolution 1280 x 1024
- 24-26 kHz Scanning Frequency
- PnP • MPR II Approved (Low Radiation) • VESA DPMS - Energy Star approved • MacCompatible
- EXTENDED WARRANTIES AVAILABLE**

FOR MORE INFO
FAXFACTS INTERNET
No. 30384

IY005 15" MF-8515G £189 (Inc VAT £222.08)

SONY Multiscan 100sx 15"

- Super fine pitch, 15" Trinitron tube
- Image area: 283.5 x 212.4mm
- Aperture grille pitch: 0.25mm
- Max res. and refresh rates: 640x480@120Hz, 800x600@100Hz
- 8 pre-set resolutions
- Power management: NUTEK, EnergyStar, VESA • PnP • Safety & ergonomic approvals: ISO 9241 pt3, MPRII, TUV Ergonomic

FOR MORE INFO
FAXFACTS INTERNET
No. 31280

SONY18 Sony 100 SX £195 (Including VAT £229.13)

TAXAN 530 LR 15"

- FST digital Monitor
- 0.28mm dot pitch
- AGRAS face treatment
- 30-65kHz (multiscan)
- 1024 x 768 up to 80Hz
- Windows 95 plug and play
- WARRANTY AS TAXAN ERGOVISION 750 TCO 95**

FOR MORE INFO
FAXFACTS INTERNET
No. 30306

TAX006 Taxan 530 LR £216 (Including VAT £253.80)

Panasync 4 15"

- Digital MultiScan
- Max Resolutions: 1280 x 1024 @ 63Hz, 1024 x 768 @ 84Hz
- 2 year on-site Exchange
- 3 YRS ON-SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 30001

PAN030 TX-T1565PU1 £185 (Including VAT £217.38)

SAMSUNG SM500S 15"

- 15" diagonal FST
- 0.28mm dot pitch
- 1224 x 768@60Hz
- Non-glare/flicker free screen
- 1224 x 768@60Hz
- 3 YRS ON-SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 31281

SAM011 Samsung SM500S £189 (Including VAT £222.08)

MAG DX 15T 15"

- Trinitron 15" tube
- 0.25mm Stripe pitch
- 1280 x 1024
- Vesa DPMS & EPA Energy star.
- TC095
- 3 YRS ON-SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 31282

MAG012 MAG DX15T £209 (Inc VAT £245.58)

Iiyama Vision Master 17 17"

- 0.26mm dot pitch, Anti-reflect, Anti-static coating
- Windows 95 PnP
- 160 MHz bandwidth
- Flicker free 1280x1024@80Hz
- On-screen menu
- 3 YEAR WARRANTY AVAILABLE - PLEASE CALL**

FOR MORE INFO
FAXFACTS INTERNET
No. 30565

IY001 MF-8617E £399 (Including VAT £468.83)

MAG DJ 707 17"

- 17" High contrast tube
- Anti glare/static
- Versa DPMS & EPA Energy Star TCO95
- 3 YEAR WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 31283

MAG013 MAG DJ707 £349 (Including VAT £410.08)

NOKIA 447 XAV 17"

- Built in 2x2W amplifier
- Ideal for multimedia and administrative applications
- It can be connected to a PC, Macintosh or workstation and using the autsync it knows what it is connected to

FOR MORE INFO
FAXFACTS INTERNET
No. 31081

NOK001 447 XAV £599 (Including VAT £703.83)

Studioworks 76i 17"

- Multi-synchronous support from 640 x 480 - 1024 x 768 NI
- Flicker-free 800 x 600 NI (non-interlaced) at 77 Hz
- Easy to use front manual controls
- EPA Energy Star and VESA DPMS, NUTEK compliant
- MPRII low emission compliance
- 3 YRS ON-SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 31080

LSG008 Goldstar SW 76i £339 (Inc VAT £398.33)

TAXAN 730 TCO-S 17"

- FST digital monitor
- Multimedia version
- Built-in speakers & mic
- Headphone socket
- Volume and mute
- Fully TCO 92 compliant
- Windows 95 plug and play
- WARRANTY AS TAXAN ERGOVISION 750 TCO 95**

FOR MORE INFO
FAXFACTS INTERNET
No. 30440

TAX005 TAXAN 730 TCO-S £389 (Including VAT £457.08)

SONY Multiscan 17se II T5 17"

- Image area 16" visual
- Max resolution refresh rates: 800x600 @120Hz, 1024@80Hz
- Power management: NUTEK, EPA EnergyStar, VESA, DPMS • Safety & ergonomic approvals, ISO9341 pt3, MPR 2, TUV Ergonomics, TCO'95
- On screen display • DDC 1/28 PnP
- RGB user colour control
- Front panel lock
- 3 YRS ON-SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 31081

SONY24 Multiscan 17se II £590 (Including VAT £693.25)

CTX 1765S 17"

- 17" diagonal FST
- Horizontal frequency 35-85Hz
- Anti-glare/static/reflection
- Fine dot pitch, 0.28mm
- Frequency: horizontal 30-70 kHz vertical 50-120Hz
- Plug & play
- On-screen display
- EPA, MPRII, CE
- 3 YRS ON SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 31284

CTX003 CTX1765S £299 (Including VAT £351.33)

SAMSUNG SM700P 17"

- 17" FST Hi-Res
- Horizontal frequency 35-85Hz
- Totally flicker free
- Fine dot pitch, 0.26mm
- Plug & play
- TC095
- Advanced On screen display
- USB (option)
- 3 YRS ON SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 31285

SAM012 SAMSUNG SM700P £489 (Including VAT £574.58)

Studioworks 78M 17"

- Detachable amplifier and speakers
- Multi-synchronous support from 640 x 480 up to 1600 x 1280 NI
- Flicker-free 1280 x 1024 NI@75Hz
- Digital microprocessor controls with on-screen displays
- 0.26 dot pitch with double focus circuitry
- 3 YRS ON-SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 31084

LSG007 Goldstar 78M £449 (Including VAT £527.58)

Iiyama Vision Master 21 21"

- FST 0.27 Dot pitch, 110kHz anti-reflect, anti-static coating
- Flicker free 1600 x 1200 @ 85Hz, 1800 x 1440 @ 75Hz • 240MHz bandwidth • Windows 95 plug and-play DDC compatible
- 3 YEAR WARRANTY, 'VISION CARE' AVAILABLE**

FOR MORE INFO
FAXFACTS INTERNET
No. 30567

IY011 MF 8721T £959 (Including VAT £1126.83)

TAXAN 2150 TCO-95 21"

- FST Diamondtron® monitor
- 0.28mm Aperture Grille Pitch
- 30-95kHz (multiscan)
- Fully TCO 92 compliant
- 1600 x 1200 up to 75Hz
- Windows 95 plug and play
- WARRANTY AS TAXAN ERGOVISION 750 TCO 95**

FOR MORE INFO
FAXFACTS INTERNET
No. 31085

TAX018 2150TCO-95 £949 (Including VAT £1115.08)

ViewSonic 21" P815 21"

ViewSonic's 21" Mega Monitor sets new standards for speed, clarity and colour brilliance. It offers one of the highest resolutions and refresh rates in the industry: 1,800 x 1,440 @ 76Hz refresh and 1,600 x 1,200 @ 91Hz refresh. The P815 is ideal where absolute precision is necessary.

- 3 YRS ON-SITE WARRANTY**

FOR MORE INFO
FAXFACTS INTERNET
No. 31086

VE011 Viewsonic 21 P815 £1199 (Including VAT £1438.81)

Monitor Listings

ADI008	ADI Microscan 4P/TC095	£210.00
CTX002	CTX 1565S 15"	£219.00
GOL007	Goldstar GS1505 15" Monitor	£209.00
GOL008	Goldstar GS1527 15" Monitor	£251.00
HWP226HP	15 SVGA Colour Fst	£278.00
IY010	Iiyama 15" PST (mf-8515g)	£229.00
LSG005	LG5 Studioworks 15" 56m m/m	£249.00
LSG10	LG5 15"150SDM	£229.00
NEC010	NEC XV15+ 15 inch monitor	£189.00
PAN030	Panasync 4 15" Digital	£395.00
PHI007	Philips 1055 15" Col Mon	£184.95
PHI008	Philips 1058 15" Col Mon	£238.00
SONY06	Sony 15 SX 1 Monitor	£297.00
SONY19	sony 15"CPD 100 sft	£279.00
TAX006	Taxan Ergovision 530r15"	£216.00
TAX025	Taxan 15"530 TCO 92	£229.00
TAX026	Taxan 15"540 TCO95-s	£271.00
VE010	Viewsonic 15"1565	£255.00
VE012	Viewsonic 15" E655	£219.00
IY012	Iiyama 13.8" TFT Lod disp	£1,929.00
TAX011	Taxan CV650 14.5" TFT/CD	£1,699.00
TAX013	Taxan crystalvixLCD620	£1,377.00
TAX014	Taxan crystalvixLCD500	£997.00
TAX014	Taxan crystalvixLCD500	£826.00
SAN010	Sanyo PLC-550 Vga Project	£3,599.00
SAN011	Sanyo PLC550S Vuga project	£4,699.00
FEL001	Fellows Anti Glare Screen	£19.95
FEL002	13"-15" Screen Filter-Trd	£29.95
FEL003	Anti Static Scrm 16"-17"	£49.95
FEL009	12"-15" Screenfilter	£29.95
IY006	Iiyama OSW 1yr 15"	£19.99
IY007	Iiyama OSW 1yr 17"	£34.99
RUM015	15" screenfilter	£44.50
RUM017	Monitor Arm	£29.95
STT004	Star Trek Monitor Mask	£4.25
SUN012	Eco Filter	£8.95
VER059	99ASR Anti Glare Screen	£29.99
VER060	99CAD Anti Glare Screen	£83.99
VER061	99ASR31% anti Glare Scrm	£34.99
VER063	99ASR31% Anti Glare Scrm	£39.99
TAX006	Taxan Ergovision 530r15"	£216.00
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EVERYTHING FOR YOUR PC - NEXT DAY!

The best digital camera deals

At Software Warehouse we now use a Digital Camera for taking photos of products for this catalogue. In the past if a photo from a manufacturer didn't arrive before our deadline, we would have to take a whole film and rush it to a 1 hour development store and hope for the best. Once we got the photo back we would have to scan it and convert it to a digital image. The whole process would take over 3 hours.

Today with the use of a Digital Camera, we simply take the photo, instantly review it on screen, shoot again if we are not satisfied and then once we are happy with the picture save it as a digital image and paste it straight into our pages. One of the most useful features of digital cameras is that you can take as many photos as you require and then only use the best pictures.

Presto Photo Album Only £9.99
With any Digital Camera



Usual price £19.95

DP-8000 Digital Printer

Whether you're printing layouts, postcards or labels, the new Casio DP 8000 Printer is the perfect choice for all your multimedia needs. And since it works with all Casio QV cameras, you won't have to sacrifice time and money worrying about compatibility problems.

Features

- Dye-sublimation printer
- Links directly with QV cameras or PC
- Choice of over 400 built in templates
- Maximum resolution 446 x 297 dpi
- 16.7 million colours, 256 tones
- A6 paper size
- 4 paper options set (25) plus ink cartridge
- Includes: AC adaptor, 5862 connection cable, Windows printer driver



CASIO

CAS016 Casio DP-8000 Digital Printer **£319**

FOR MORE INFO
CALL
INTERNET
No. 31036

QV-700 Digital Camera

The QV-700 with its large LCD screen, 3 mods flash and removable memory cards is a great business tool. A 2Mb memory card is included, which can store up to 47 images, and higher memory cards are available. Text can be inserted into pictures, and there is also a daytime stamp, images can be sorted into files, which makes it easy to categorise pictures before downloading to a PC. There are also image modification, collage, and panoramic functions.



Features

- Dial control
- 2.5" LCD screen
- Rotating lens
- Interval and continuous shooting
- AOL internet software including a months free use (up to 50 hours on line)

CASIO

CAS019 Casio QV-700 Digital Camera **£425**

FOR MORE INFO
CALL
INTERNET
No. 30834

QV-200 Digital Camera

The QV-200 has a number of new and exciting features, whilst maintaining the ease-of-use of the previous QV models. Text can be inserted into pictures, for easy labelling or captions. Images can be modified; for instance changing the picture to sepia or black and white, or rotating the image. This is particularly useful if you are viewing pictures directly onto a TV screen.

Features

- Up to 192 image storage capacity
- 1.8" LCD screen
- Ideal for business or personal use
- AOL Internet software including a months free use (up to 50 hours on line)



Just Point and Click

CASIO

CAS021 Casio QV-200 Digital Camera **£299**

FOR MORE INFO
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No. 30148

The QV-70, QV-700 and QV-200 all come with free software*

*Free software offer ends 31st December 1997

QV-70 Digital Camera

A compact and neat design, the QV-70 takes only 3 batteries, and has a viewfinder as well as an LCD screen. Take pictures using either the viewfinder or LCD screen, and then review shots immediately. The QV-70 takes up to 96 shots in its internal memory and comes complete with downloading software.

Features

- Connects to television
- Image protect and delete
- Easy to use menus
- AOL internet software including a months free use (up to 50 hours on line)
- Spin Panorama Software

FOR MORE INFO
CALL
INTERNET
No. 30833

The easiest way to get on TV

CASIO

CAS018 Casio QV-70 Digital Camera **£280**

Kodak Digital Cameras

DC210 - Zoom Camera

- True 1160x872 megapixel CCD
- 1152x864 or 640x480 image resolution
- 4MB picture card included stores 16-60 pictures
- 1.8" TFT colour LCD for picture preview and review
- 2x focus free zoom lens with close-up mode
- Easy function select via Mode Dial
- Finished file format (JPEG or FLASHPIX)
- Drag & drop images straight into application
- Serial (RS232C), Infrared (IrDA) & Video Out (NTSC & PAL) interfaces
- Display pictures straight to TV!

- Supplied with Kodak PictureEasy 2.0, Adobe Photodeluxe & Pagemill software, Windows'95 mounter & TWIN Acquire module.



(Inc. VAT £703.83) **£599**

DC50 - Award winning high resolution with Zoom

- The DC50 offers high resolution images (756 x 504 pixels), for professional purposes. With all its advanced sensor technology and motorised zoom lens, this camera allows you the maximum flexibility in capturing stunning images.
- Built-in 3X zoom lens for maximum flexibility
- Autofocus technology
- Built in indoor/outdoor

- flash
- Accepts removable PC cards for unlimited number of pictures and easy picture transfer
- Complete solution including camera, batteries, Mac & PC cables & software (Inc. VAT £457.08)

KOD003 DC50 Dig. Cam. **£289**

DC120 - For superior professional results

- The top of the range DC120 delivers 1.2Mega pixel quality (1280 x 960) and 24-bit colour for dazzling image detail. If you demand the most vibrant, detailed images for business and professional purposes the DC120 is the camera of choice. The flip up LCD display lets you preview, review and catalogue your shots for easy management and retrieval
- 3X zoom lens combines telephoto and close-up capability
- Infrared sensors provide

- auto-focusing
- Built in indoor/outdoor flash
- Optional CompactFlash card allows for unlimited image storage
- Complete solution including camera, batteries, Mac & PC cables & software (Inc. VAT £762.58)

KOD008 DC120 Dig. Cam. ... **£499**

DVC300 - Instantly share digital video and still pictures

- The brand new DVC300 offers many possibilities from video conferencing to inserting full colour still images (640 x 480 pixels) into reports, presentations and web sites to add interest and immediate

- involvement. Just plug the DVC300 into your USB compatible computer and go!
- High-quality 24-bit colour still images and video
- Zoom in or out
- Includes a host of software.

(Inc. VAT £163.33) **£139**

KOD016 DVC300 Dig. Cam. ...

Fujifilm DS-7 Digital Camera

You'll never run out of capacity with the DS-7. Just slip in another SmartMedia solid-state floppy disk, and you'll always be ready for the next shot. At any point, you can review the shots stored in its 2.0Mb memory - up to 30 images in the standard mode and 60 in the economy mode. For versatile and easy file transfer to your computer, you can also choose the optional PC Card Adaptor based on the international standard for PCMCIA Type II cards.

Of course direct transfers are possible with the RS-232C cable that comes with the Interface Kit. Not only is the DS-7 extremely compact, but it couldn't be simpler to use. On the back of the body there's a 1.8-inch active-matrix colour LCD that makes composing easy and fast. You can also use the monitor to play back your images immediately and delete any that you don't want to keep. The DS-7 makes digital creativity nearly foolproof. Changing settings is as easy as choosing an icon on the Mode Dial. The wide-angle TV-Fuji non lens lets you capture the whole scene easily, and you can shoot when you're only 9cm from the subject.

- FUJ003 Fuji-film DS-7 Digital Camera **£349**
- FUJ006 Fuji-film NC-3D **£297**

Sanyo digiCAM

The future of photography today! **AS SEEN ON TV**
Meet Sanyo's exciting new digiCAM, the incredibly easy to use cameras that are much more flexible than conventional photography. No fuss. No film. You can see the result the instant you take the picture.

digiCAM	Resolution	digiCAM XGA	Resolution
640 x 480	1024 x 768dpi	1024 x 768dpi	1024 x 768dpi
6 seconds	Sound with each picture	4 seconds	4 seconds
TV quality 2.0	LCD display	TV quality 2.0	TV quality 2.0
no	Zoom	yes	yes
16 pictures 3.2 sec	Continuous mode	9 pictures 1.8 sec	9 pictures 1.8 sec
yes	TV Video connect	yes	yes
120	Max pictures	60/34Mb card	60/34Mb card
yes	Auto Timer, Flash, Focus	yes	yes
yes	Viewfinder	yes	yes
yes	IPEG comparison	yes	yes
yes	PC & Mac compatible	yes	yes

- SAN002 Sanyo digiCAM (VPC G200) **£419**
- SAN013 Sanyo digiCAM XGA (VPC X 300) **£669**
- SAN004 Sanyo digiCAM Mains Adaptor **£45**

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*See page 2 for Price Pledge

RDC-2 Multimedia Digital Cameras

The RDC-2 extends the limits of personal multimedia by making the whole world a potential image source. Anything that catches your eye can catch everybody else's too, when you snap it with the RDC-2. Scenic views, portraits materials, even minute objects can be captured in seconds and input straight into your multimedia work. Helping you to add a dash of brilliance to your personal multimedia.

- Record 10 seconds of sound with every picture
- Most advanced TFT monitor available • View pictures on your TV • Record pictures onto VHS cassette • Manipulate and enhance images • Macro facility for close-up work • PC & Mac compatible • Auto focus/flash (RDC2L only) / timer and viewfinder

The RDC300 allows you to view your pictures on a PAL screen using its video connections.



- RDC-2L**
- 758 x 576 dpi • 1cm close focusing • Auto focus • Document mode • High quality image capture • PCMCIA exp. memory • Twin lens 35mm & 55mm • LCD display • Audio facility - Up to 10 seconds sound with each image • Removable LCD display

- RDC-2E**
- 758 x 576 dpi • 1cm close focusing • Auto focus • Document mode • High quality image capture • PCMCIA expandable memory • 35mm f.37 lens • Removable LCD display

- RDC-300 Digital Camera**
- 640 x 480 pixels • 4mb internal memory • Close focusing to 1cm • Compact & lightweight • JPEG & PAL compatibility • LCD monitor for preview and playback • Auto exposure, Auto white balance • Supplied with Photo Studio Lite editing software (PC or Mac)

- RXP-10 Digital Colour Printer**
- Print directly from your Ricoh digital camera • Connect via your computer • A6 Dye sublimation • PC or Mac compatible • Automatic paper feeding tray • Supplied with trial paper pack • Accessories include: Standard print paper kit and 16-Cut adhesive print paper kit

RIC014	Ricoh RXP-10	(inc. VAT £351.33)	£299
RIC013	Ricoh RDC-300	(inc. VAT £351.33)	£299
RIC004	Ricoh RDC-2L	(inc. VAT £680.33)	£579
RIC009	Ricoh RDC-2E	(inc. VAT £527.58)	£449

DPD-200 desktop photo developer

Aztech DPD-200, the world's first revolutionary digital desktop photo developer is the answer to the next wave in the multimedia world... digital PC photography

Aztech's revolutionary desktop photo developer is the perfect low cost solution for digital PC photography, allowing you to develop instant smudge free colour photos.

Easy to install and even more simple to use, the DPD is bundled with Aztech's Photo Developer, the photo editing software. Now you can manipulate your PC and the results can instantly be transformed into real Photographs.

- Features**
- Easy to use
 - Easy to install
 - Windows 95 plug and play compatibility
 - External unit
 - Conveniently plugs into the parallel port
 - Input and sources include Digital Cameras, Photo CD, Video Capture, Internet, and scanners.



REAL photos directly from your PC!

AZT022	Aztech DPD-200	(Including VAT (176.19))	149⁹⁵
AZT023	DI Film cartridge 20 pack	(Including VAT (8.81))	7⁵⁰

Camera Listing

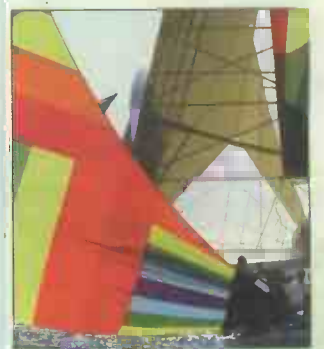
AGF003	Agfa E-Photo 307 Dig Camera	£255.00
AZT021	DPD 100 Internal	£153.15
AZT022	DPD-200 External	£149.95
AZT023	DI Film Cartr 20 Pack	£7.50
CAN039	Canon Powershot 600 Dig cam	£629.00
CAN062	Canon Powershot 350	£399.00
CAS004	Casio Malins Adapter	£14.99
CAS005	Casio PC SW & Cables adapter	£49.95
CAS007	Dig Camera-PC Conn qv100	£365.00
CAS013	Casio QV300 For PC	£485.00
CAS014	Casio QV100 Connect Kit	£49.99
CAS015	Casio QV11	£245.00
EPS122	Epson P1 500 Dig Camera	£308.00
EPS133	LCD Display for P1 500	£189.00
EPS153	Epson 2Mb ug P1 500	£39.00
EPS154	Epson 4Mb ug P1 500	£69.00
EPS155	Epson Power Adap P1 500	£59.99
FUJ003	Fuji DS-7 Digital Camera	£374.00
FUJ004	Smartmedia Image Memory	£125.00
FUJ005	Perma Smartmedia Adapter	£72.00
KOD003	Kodak DC50 Dig Camera	£395.00
KOD004	Kodak DC20 Digital Camera	£134.00
KOD005	Kodak DC25 Digital Camera	£295.00
KOD007	DC120SD40 Power Adapter	£39.00
KOD008	Kodak DC120	£679.00
KOD009	2Mb Memory Card DC25	£89.00
KOD010	2Mb Card-Perma Adap DC25	£99.00
KOD011	Ricoh 4Mb Card For DC50	£108.00
KOD012	Kodak Camera 4Mb ug DC120	£95.50
KOD013	Kodak Camera 10Mb ugDC120E198.00	
KOD014	Kodak Camera 20Mb ugDC120E322.00	
KOD016	OLYMPUS 4100	£395.00
LOG024	Logitech Photomem Plus	£389.00
MIN044	Minolta RD-175 SLR	£3,995.00
OLY003	Power Supply Olymp: c800	£59.00
OLY004	Olympus 4100	£480.00
RIC004	Ricoh RDC-2L	£729.00
RIC009	Ricoh 2E	£499.00
RIC010	Ricoh Power Adapter	£49.00
RIC011	Ricoh 20Mb Camera Memory	£399.00
SAN001	Image PC Digcamera VPcg1	£295.00
SAN002	Sanyo VPr g200 Digicam	£445.00
SAN003	Sanyo Image Carry Case	£16.99
SAN004	Sanyo Image Malins Lead Ad.	£89.00
SAN005	Sanyo Image 2Mb Upgrade	£110.00
SAN006	Sanyo Image 4Mb Upgrade	£189.00
SONY30	Sony DSC-F1 Digital Camera	£585.00

EPSON PhotoPC 500 colour digital camera

The EPSON PhotoPC 500 is the ideal way to add high quality colour photos to your computer. Now you can add the impact of real life pictures to your letters, documents and presentations quickly and easily with the Epson PhotoPC 500 colour digital camera.



Auto focus from two feet to infinity!



- High quality 24 bit colour images
- Capacity for 30 high resolution or 60 standard images
- Windows and Macintosh compatible
- Twain compliant
- Built-in automatic flash with red-eye reduction feature
- Self timer
- Expandable storage for up to 200 images
- PhotoEnhancer photo editing software
- Optional LCD display
- Output your pictures with photo-real quality on an Epson Stylus inkjet printer

STOCK CODE: EPS122
£271 (inc. VAT £318.43)

EPSON PhotoPC 600 colour digital camera

Prints directly to the EPSON Stylus Photo - no PC required

The ultimate presentation tool - no PC required

Superior Quality XGA Photos

Built-in LCD view finder

The EPSON PhotoPC 600 makes high resolution digital photography a snap! This easy to use XGA (1024 x 768 pixels) AutoFocus digital camera, provides outstanding quality images for printing and filing photos, recording visual data and more. It has exciting new features including printing directly to the EPSON Stylus Photo Inkjet printer, 3x digital zoom, built-in 2" colour LCD viewfinder, file upload capabilities, video output, multi-shot mode and large image storage capacity. Making it the most fully featured and affordable digital camera in its class.



- XGA Resolution up to 1024 x 768 pixel
- Capacity for 30 high resolution or 60 standard images
- Windows and Macintosh compatible
- Twain compliant
- Built-in automatic flash with red-eye reduction feature
- Self timer
- Expandable storage for up to 200 images
- PhotoEnhancer photo editing software
- Optional LCD display
- Output your pictures with photo-real quality on an Epson Stylus inkjet printer

STOCK CODE: EPS193
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EVERYTHING FOR YOUR PC - NEXT DAY!

Connectix QuickCam VC (for Windows 95)



Powerful Camera and Video-conferencing System

Connectix QuickCam VC is the affordable video-conferencing solution that brings the excitement, immediacy and expressiveness of video communications to your desktop. Use QuickCam for one-click video e-mail or real-time video-conferencing over the internet, your company LAN or modem-to-modem. QuickCam VC is optimized for video-conferencing, and also captures still or motion video images quickly and easily to add impact to a broad range of home and business applications.

Pack E-mail Messages with Video, Sound and Text

Using QuickCam VC's one-click video e-mail integration, you can enliven text e-mail messages with graphics, sound, still images and full-motion video clips. You can send video clips as easily as text from your desktop. Best of all, video clips that you can send are self-playing, so your friends, colleagues, and family members don't need QuickCam to view or listen to your messages. Communicating has never been easier or more satisfying.

Over the Internet or a Modem, Nothing is Easier

QuickCam includes Connectix VideoPhone 3.0 video-conferencing software, which, unlike most shareware or freeware video-conferencing products, supports both Internet and modem connections. VideoPhone 3.0 uses technology from PictureTel Corporation to support the H.324 standard for communicating with a modem over plain-old-telephone (POTS) lines, so you can reach a broader community of people using H.324-compliant products. Also included is Microsoft Net Meeting which supports the H.323 standards based protocol for communication over the internet. QuickCam also works with popular software packages, supporting the TWAIN standard to acquire still images and capture Video for Windows AVI format.

More Affordable Video-conferencing

If you've been waiting for a more affordable path to video-conferencing, QuickCam is for you. QuickCam lets you leverage your investment in your Windows PC without the need for purchasing expensive software or hardware.

Easy to Set-up and Use

Installation is a snap. Simply load the software, plug in the camera and you're ready to go. QuickCam uses your PC's parallel or universal Serial Bus (USB) port, so there are no special cards to install or other confusing settings to make.

System Performance (thousands of colours)

- Parallel (ECP): 15+ fps@352 by 288 (CIF) • USB: 15+fps@352 by 288 (CIF)

QuickCam Camera Includes:

- Custom camera base for easy adjustment
- Connectix VIDECC (patent pending) compression for improved video quality, faster frame rates and larger frame sizes
- 6' cable with parallel connector and pass-through keyboard power adaptor (parallel version)
- USB connector (USB version)
- Standard tripod socket
- Video-conferencing Software, Videophone 3.0 and Microsoft Net Meeting 2.0

STOCK CODE: CON032



£85

(inc VAT £99.88)



NEW PRODUCT

Connectix QuickCam

Plug straight into your computer for brilliant colours pictures and video

The most popular camera for personal computers. The original Colour QuickCam can take still pictures in millions of colours at 640 x 480 pixel resolution and record video at 24fps in thousands of colours. Plug and play, everything you need is in the box and can be set up in minutes with no interface cards required. The fast, manually adjustable focus lens provides sharp images from less than 1-inch to infinity. Connectix developed new VIDECC™ (patent pending) technology for Colour QuickCam to provide faster frame rates at larger frame sizes.

- CON029 Colour QuickCam™ (Including VAT £151.58) **£129**
- CON004 Mono QuickCam™ (Including VAT £81.08) **£69**

Connectix VideoPhone V2.0 for Windows

Make video calls using your Modem ISDN, or the Internet

Connectix VideoPhone™ V2 is the easy way to see your friends, colleagues and family. It's available with the worlds leading digital camera, Colour QuickCam™, or in a software any version if you already have a camera. With Connectix VideoPhone™ V2, your fellow net chatters are just a mouse click away. All you need is a 28.8Kbps modem (or an ISDN connection or TCP/IP network). Connectix VideoPhone™ V2 is your low cost alternative to being there.

- CON027 VideoPhone™ V2 Software (Including VAT £41.13) **£35**
- CON030 Videophone™ V2 and Colour QuickCam (Including VAT £182.13) **£155**

Digital Radar for Windows 95

Keeps watch while you're away

Connectix Digital Radar™ is the easy way to keep watch over your personal space. Whether you step out of your office for a minute, or you're gone for a week. Digital Radar is a software application that works in conjunction with most tethered digital video cameras. The Auto-Monitoring function lets you schedule Digital Radar for automatic surveillance that goes to work when you're not around automatically recording when someone enters your work area. And Digital Radar knows just what to do: record silently, play a customised message, or sound an alarm.

- CON031 Digital Radar (Including VAT £23.44) **£19.95**

Wig Out! for Windows 95

Try on New Looks in your Virtual Salon!

Do blondes have more fun? Ever wonder what you'd look like as a redhead? Thinking of a drastic style change but you're just not sure? Want to just have some fun with your friend's picture? Connectix Wig Out! lets you try on hundreds of different hairstyles and dozens of different accessories, including hats, eyeglasses, jewelry, moustache's and beards on your computer. Wig Out! is a fun, easy to use program that's great for creating crazy new looks for your family and friends or a cool new look for yourself!

- CON033 Wig Out! (Including VAT £29.38) **£25**

Acer VUEGO Scan Brisa 310S

Your perfect productivity tool

Acer brings image processing power and colours to your desktop. With VuegoScan 310, (SCSI or Parallel versions) superior documents and presentations of outstanding quality, are achievable within minutes of pressing a button, and at a price you can afford!

Features

- Most affordable colour flatbed scanner.
- High speed 1 pass scan: Colour preview takes only 8 seconds.
- High image quality. Acer patented R.O.S. Technology (Revolving optical system) optimises the colour spectrum of the scanned image, and enables you to obtain vivid colours faithful to the original colour spectrum and exceptional image quality.
- Friendly and versatile TWAIN-compliant driver for Win 3.1, Win 95 and Mac
- Built-in self-error detection and on screen diagnosis.
- Built-in SCSI Interface Plug & Run interface card for easy use: Just plug in the SCSI card and install the driver, then Vuego Scan is up and running.
- Ultra light weight, so you never have to leave it behind.
- Low acoustic noise.
- Parallel version 310P available

- MiraScan powerful scanner driver
- Xerox TextBridge OCR software
- Photo Plus 4.0
- Microsoft Internet Explorer 3.0
- Optical resolution 300 x 600 dpi
- Max. resolution 4800 x 4800 dpi
- Scanning modes: Colour:30 bit Grey scale:10 bit Halftone/Line Art: 1 bit

Acer S200

- Compact design (inc VAT £52.86)
- 1200 x 1200dpi
- 256 Greyscale
- A4 mass scanner



Comes with SCSI interface

- ACE008 VUEGO Scan S-200 (Including VAT £52.86) **£45**
- ACE007 Acer 610 Plus (Including VAT £233.83) **£199**
- ACE010 VUEGO Scan 310P (Including VAT £104.58) **£89**

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88 SOFTWARE WAREHOUSE

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Microsoft IntelliMouse

Faster, easier navigation
Microsoft Intellimouse is the best selling Microsoft Mouse 2.0 with a new IntelliMouse Wheel, allowing you to quickly zoom & scroll without clicking a button.

- IntelliMouse 'Wheel' adds fast and easy navigation
- Works as a normal Mouse 2.0 with all other PCs and software

MC031 Microsoft Mouse 2 (Inc VAT £28.14) **£23.95**
MC542 Microsoft IntelliMouse (Inc VAT £41.13) **£35**

Microsoft IntelliMouse TrackBall

Microsoft® IntelliMouse™ TrackBall is the most comfortable, ergonomic and accurate way to get work done

Use the smooth, natural movement of your fingers on the trackball and Wheel to control IntelliMouse™ TrackBall comfortably and accurately. Place your hand on the unit and you will find that your fingers rest comfortably over the trackball and Wheel.

MC883 MS IntelliMouse TrackBall (Inc VAT £50.47) **£42.95**

SideWinder Precision Pro

Make it your joystick, your strategy, your game.
With its programmable button functions and fully-digital optical technology, The Microsoft® SideWinder® Precision Pro gives you the speed and accuracy to make every game your game.

- Programme your best moves to the eight buttons
- Use the shift button to double the functionality of your button functions (in supported games).
- Save winning profiles in the Game Device Profiler software.
- The digital-optical "camera" built into Precision Pro provides pinpoint accuracy, optimal speed and no drift.

MC898 Microsoft SideWinder Pro (Inc VAT £46.94) **£39.95**

SideWinder GamePad

More buttons, more functions, & more control!
With its amazing comfortable design, advanced programmability, & full-function multipad gaming.

- Designed to ensure lightning fast responses in all kinds of fighting, sports, and arcade style games
- Daisy - chain up to 4 Microsoft SideWinder game pads together for multiplayer gaming - with no extra hardware

MC546 MS SideWinder GamePad (Inc VAT £28.79) **£24.50**

SideWinder Force Feedback Pro

Introducing Microsoft® SideWinder® Force Feedback Pro, an advanced joystick that adds tactile sensations to the gaming experience.

Its durable high-precision mechanisms, sophisticated electrical and optical components, digital-optical tracking technology, powerful yet easy-to-use software, and sleek and comfortable design make it the ideal game device for extreme gamers.

- The SideWinder SDK helps game developers include force feedback in their new and existing games.
- State of the art materials like this Acetal co-polymer make the SideWinder almost indestructible.
- An infrared sensor tells the joystick you're grasping the handle. You can hang on tightly or loosely, but the handle stays put once you release it - some games even pause when you let go.
- The SideWinder offers exceptional comfort with separate controls for your left and right hands.
- The Force Feedback Pro has only one computer cable and plugs into your soundcard just like a standard joystick - installation is simple.

MC887 SideWinder Force Feedback Pro (Inc VAT £104.58) **£89**

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- Supports TWAIN- and OLE- compliant applications
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- Designed with energy-saving features for low power consumption
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 - Scanning of full pages, textured material and 3-dimensional objects in high-quality

- Captures the complete colour image spectrum in one exposure (this provides speed, better image processing, less distortion, high-quality scans of 3-dimensional objects)
- Hardware accelerated image processing (this provides speed, doesn't use PC resources)
- Dynamic sampling, variable-y scanning (this provides speed, smaller files to process, less scanning artifacts (Moiré))
- sRGB colour rendering (this provides better, consistent colour matching)
- Auto illumination control for improved colour stability
- Adaptive sharpening (this provides more detail without adding noise)

Sees the image like a human eye



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PRIMAX Powerful imaging at amazingly low prices

Primax 4800 Jewel

Primax is the largest scanner manufacturer in the world. With the Primax Jewel 4800 you have one of the scanners out of the top of the range of Primax

The Primax Jewel 4800 offers a professional scanner, high quality and high definition 30 bit colors. This powerful scanner turns your images, letters and other printed material into easy to edit electronic information. The originals are easy to scan, from 35 mm slides (with the slide option) unto A4 pages.



NEW PRODUCT

The Primax Jewel 4800 is rightfully a Jewel

Features

- 30 bit a must for resolution scanning
- The colour mode 30 bit stands for more depth to your colours. So you can scan more realistically your colour images into your computer or print it on your printer.
- Powerful and easy to use image editing software
- Comes with software which is already prepared for the MMX technology of Intel. It uses fully the built-in pixelflash which makes the program extremely fast.
- ReadIRIS: "learning by itself" OCR software
- This unique text recognition software learns from the directions you give it. With this software you can really get the best results from newspapers, books, letters or any other printed document.
- SCSI, the interface designed for high image transfer
- Comes with a 16 bit SCSI Interface. It is in principal faster than a scanner without an adapter. SCSI was designed for high speed image or data transfer.

PR1015 Primax 4800 Jewel (SCSI) (Including VAT £176.24) **£149⁹⁹**

PR1016 Primax 9600 Profi (SCSI) (Including VAT £211.49) **£179⁹⁹**

Primax colour hand scanner

A Colour Scanner at the right price

The PRIMAX Colour Hand Scanner helps you create powerful colour images for presentation packages. The Colour Hand Scanner comes complete and ready to use for many applications thanks to ReadIRIS Intelligent Text Recognition software (IOCR) and Finishing Touch photostyling software.

- True colour scanning for high quality presentations
- Pocket sized answer to your scanning needs



Powerful imaging at your fingertips

PR1103 Primax Colour Hand Scanner (Inc VAT £58.74) **£49⁹⁹**

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The only pen that reads.

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- Scans only the information that you want
- Parallel port connection makes it ideal for laptops



PR1105 Primax DataPen (Including VAT £117.44) **£99⁹⁹**

A massive 40,000 items in stock across 8,000 different product lines. Nobody delivers faster!

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Extended warranties available on UMAX. Please ask your sales contact for details

PowerLook ColourStudio II UMAX

A professional, high resolution flatbed scanner!

The PowerLook ColourStudio II is the flatbed scanner of choice with professional designers for all pre-press and DTP applications, plus it comes complete with a comprehensive bundle of industry standard design software. Its superior quality means you produce superb final scans. Any printer can then produce your full colour leaflets and brochures. The PowerLook ColourStudio II's 36-bit colour mode, 3.3D density range and true 600x1200dpi optical resolution ensures excellent image clarity, and stunning depth of colour, detail and shadow - definitely not to be confused or compared with cheaper entry level models. You also receive a host of top quality software including:

- Macromedia's Freehand Graphics Studio 2: comprising Freehand-2D illustration; Extreme 3D-3D illustration and animation; xRES image manipulation of large graphic files; and Fontographer to create and edit fonts.
- PhotoPerfect, powerful colour correction and image separations package
- Photoshop, the industry standard image editing package

JMA012	PowerLook ColourScanner w/ Photoshop LE	(Inc.VAT £880.08)	£749
JMA013	PowerLook ColourScanner w/ Full Photoshop	(Inc.VAT £1056.33)	£899
JMA014	PowerLook Transparency Adapter	(Inc.VAT £293.75)	£250

UMAX Astra 1200S Colour Scanner

Create powerful presentations and reports. UMAX Astra 1200S colour scanner from Umax is possibly the easiest scanner you'll ever use. With Vistascan automated scanner control software just place your image on the scanner and in one simple step it's in your computer and ready to go. High quality is assured with true 30 bit output, and all at super quick speed. The UMAX Astra 1200S also includes Magic Match, an automatic colour calibration profile and Kodak colour management system for consistent colours from scan, display to print.

JMA016	Astra 1200S	(Inc.VAT £269.08)	£229
JMA023	Astra 1210P (EPP/SPP parallel ports only)	(Inc.VAT £198.58)	£169
JMA017	Astra 1200S & Photoshop LE	(Inc.VAT £304.33)	£259
JMA018	Astra 1200S & Full PhotoShop	(Inc.VAT £421.83)	£359

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It's easy, Pagis Pro 97 lets you do it all!

Pagis Pro 97, from Xerox, is the first full featured scanning - you can capture, use, organise and communicate colour and black and white documents. It is simplicity itself to scan, copy, find, print and drag-and-drop documents onto favourite desktop applications. With the incorporation of professional level OCR software, scanning colour or black and white documents is simple. Xerox' Perfect Scan™ imaging technology eliminates many of the limitations which have long been associated with scanning - poor image quality, large and unwieldy file size and limited ability to handle colour images efficiently. Now you have automatic image enhancement and very compressed, high - quality colour files, enabling you to, preserve documents, preserve document formatting and share them via fax, Email and the web.

- Scans documents and images in full colour
- One touch drag and drop to fax, Email and the Web
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- Highly compressed image files
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- Find any document on your PC in seconds.

(Inc. VAT £81.08) **£69**

XR001 Pagis Pro 97

XEROX TextBridge Pro98

Upgrade any scanner's OCR software to TextBridge Pro98.

Virtually every scanner today comes bundled with a limited edition or lite OCR software package which may not meet your expectations. Xerox's new TextBridge Pro98 lets you get the results you need at the most affordable price. Improved accuracy up to 82% better than previous versions, tables and columns are maintained, and custom control with creating zones a page. New features include a proofreader, Wizards to help through the OCR process, Adobe Acrobat PDF output, full MS Office97 compatibility with Intel MMX certification and much more. TextBridge Pro98 works with all your desktop applications including WordPerfect 8.0, WinFax Pro and Excel for easy conversion of faxes and paper. Any scanner user, including HP, Microtek, UMAX, Visioneer (its Paperport Ready) and many more can experience the accuracy you expect from a Pro OCR package.

Upgrade to TextBridge Pro 98 for only **£48.95** (Inc. VAT)

Upgrade Any Sc... £48.95 (Inc. VAT)

TextBridge Pro

TEX002	TextBridge Classic Win 3.x Only	(Inc. VAT £34.02)	£28.95
TEX004	TextBridge Pro 95 Upgrade	(Inc. VAT £57.52)	£48.95
TEX003	TextBridge Pro 96, Win3.x, 95, NT	(Inc. VAT £81.02)	£68.95

UMAX Astra 610P

The 30-bit Colour Scanner with enhanced colour quality

The new Umax adds more fun and efficiency to your day-to-day documents: it is easy to use and provides excellent picture quality. Built with 30-bit single-pass colour CCD, the Astra 610P brings out the richness and preciseness of the original image be it photographs, artworks, graphics, magazines, books, newspapers or any document up to a maximum scanning area of US legal size. The Umax 610P also comes free with Adobe Photo Deluxe. The scanner driver, VistaScan provides automatic scanning control settings. For example, the Auto-density adjustment ensures the optimal brightness of images and the De-screen function removes moiré patterns when scanning images in halftone.

YES! Now only £85 +VAT

It is relatively easy to get professional image quality even for novices. Another new function included in the scanner driver is the UMAX Copy Utility.

To make a copy, simply place the document on the scanner, select the number and size. With a click of the button, the Copy Utility will automatically scan the document, perform MagicMatch and print out from the printer. Both Astra 600's come with Presto!PageManager, the scanning operating system for desk top scanning and document/imaging management. With Presto!-PageManagement, users can drag and drop a scanned image to a printer, fax application, e-mail, filing system, OCR software, or word processor for further processing.

600s only £129 +VAT

Brand new UMAX Copy Utility turns your printer into a copy machine

Includes Presto! PageManager, the versatile scanning operating system and Adobe Photo Deluxe

Presto photo-album - allows you to organise your images

Main Features

- 300 x 600 dpi optical resolution; 4800 x 4800 dpi max. resolution
- 8.5" x 11.7" max. scan area
- 30-bit single-pass colour CCD
- Includes VistaScan, the intelligent scanner driver which has incorporated MagicMatch, the colour calibration system.

(Inc.VAT £99.88) **£85**

UMA022 Umax Astra 610P (EPP/SPP parallel ports only)

(Inc.VAT £151.58) **£129**

UMA010 Umax Astra 600S

Scanner Listings

AGF007	agfa studioScan adf	£319.00
AGF008	agfa studioScan transpar	£299.00
AGF009	agfa arcus li	£1,499.00
AGF010	agfa duScan	£2,999.95
AGF011	agfa snapscan	£1,169.00
AGF012	agfa snapscan adf	£1,169.00
AGF013	agfa snapscan 300	£1,179.00
EP5108	epson gte 9500/8500 adf	£329.00
EP5112	epson trans unit 98500	£399.99
EP5128	epson gte8500 scsi mac	£499.00
EP5164	epson gte9500 mac	£590.00
EP5166	epson gte8500 mac	£399.00
EP5167	epson gte9500 mac	£499.00
EP5186	adv photo sys cart holder	£65.95
HWP118	h18p scanjet 4c adf	£349.99
HWP119	h19p scanjet 4c trans adapt	£449.99
HWP193	h193p scanjet 5 rj45bnc	£1,599.00
HWP200	h200p network scanjet 5 ring	£1,599.00
HWP201	h201p network scanjet 5 100b	£1,799.00
HWP203	h203p scanjet 5s pip	£1,299.00
HWP243	h243p scanjet 6100c	£439.00
IBM053	ibm colour scanner	£149.00
IMC002	vista 56 with full photo	£349.00
MC596	microtek scanmaker e3 a4	£189.99
PAG030	page office	£238.95
PAN029	panasonic kv-550 scanner	£3,990.00
PLU001	spectra 1200 sheetfed	£89.95
PLU002	optipro 4800p flatbed	£119.00
PR014	primax 4800 mediastorm	£159.95
PR015	primax jewel 4800 scsi	£134.95
PR129	primax paperease parallel	£99.95
PR135	primax page partner	£124.95
SCA004	microtek ts 11 trans adp111	£299.00
SCA005	microtek adf 600	£399.00
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UMA002	umax 2yr warranty 56e+12	£29.95
UMA006	umax powerlook li pro	£1,599.00
UMA007	umax powerlook 2 color	£1,899.00
UMA008	umax powerlook pro2/cymk	£2,299.00
UMA011	umax astra 600/1200 uta 2	£199.00
UMA012	umax powerlook colstud 2	£276.00
UMA013	powerlook colstud 2 full	£899.00
UMA014	powerlook colstud uta	£250.00
UMA015	umax astra 1200s	£299.00
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EP5109	GTX-8500 SCSI	(Inc.VAT £460.60)	£392
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Logitech's Pilot Mouse+ has a wheel button, a third customisable mouse button and a wheel providing full functionality in Microsoft Office 97. Scroll in all Windows 95 applications. Three-year warranty.



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LOG057 MouseMan Plus (Inc. VAT £41.13) **£35**

Logitech MouseMan

Superior comfort by design

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LOG058 MouseMan (Including VAT 34.08) **£29**

Logitech TrackMan

Save desk space and gain comfort

The innovative three-button design offers a finger-operated trackball and features two top buttons and a convenient thumb button. Use MouseWare software to customise buttons with draglock, double click, and other one-click commands. 3 year warranty. For Windows* 95, Windows* 3.1 and DOS.

- 3 Buttons, including a convenient thumb button
- Saves space on your desk
- Large, finger-operated ball for easy and efficient cursor control
- Comfortable design
- Three-year guarantee



LOG059 TrackMan (Including VAT £28.20) **£24**

Logitech TrackMan Marble

Thumb operated

TrackMan Marble* offers unmatched reliability, precision and performance in a comfortable thumb-operated design. Patented Marble* technology provides fast, precise cursor motion without needing regular cleaning. Scroll easily in Microsoft Office.

- Marble sensing technology for smooth and precise tracking
- Doesn't require cleaning
- Small, thumb-operated ball for easy and efficient cursor control
- 3 customisable button
- Comfortable design
- Three-year warranty



LOG043 TrackMan Marble (Including VAT £56.40) **£48**

Logitech FreeScan

FreeScan™ for Windows 95

FreeScan is a compact, multipurpose scanner that gives you high performance and freedom to scan almost anything. Including photos books, text, business cards, receipts, and multipage documents. It features 30-bit colour with an optical resolution of 600 x 600dpi and enhanced resolution up to 4800 x 4800dpi. The detachable, motorised scanning head easily scans books and magazines. Text recognition (OCR) with formatting is handled by Xerox* TextBridge* for Logitech. Adobe PhotoDeluxe™ is provided for photo editing. DocuMagix™ PaperMaster™ 3.0 for Logitech provides electronic filing capabilities.



LOG060 FreeScan (Including VAT £198.58) **£169**

Logitech PageScan Parallel

Colour Parallel for Windows 95

Pagescan™ Colour Parallel is a compact, multipurpose scanner capable of scanning photos, books, text, business cards, and receipts quickly and easily. The detachable, motorised scanning head easily scans books and magazines. Scan oversize items in multiple passes, and Logitech AutoStitch™ automatically merges them. The ten-page Automatic Document Feeder makes scanning multipage originals a snap. Text recognition (OCR) with formatting is handled by Xerox™ PaperMaster™ 3.0 for Logitech provides electronic filing capabilities.



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2 Ways to get more information!

1. If you have a fax machine simply dial 0851 518 060 to receive brochures through your fax machine, see page 2 for more details and charges.

2. If you are connected to the internet simply visit our website to get more in-depth information on the products you require.
http://www.software-warehouse.co.uk/

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Toner



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HWP019 HP 1600 Yellow Cart	£23.44	£19.95
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HWP045 HP Designjet 650C Magenta	£28.14	£23.95
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HWP051 HP 5P/MP 6P/MP Laser Toner	£63.39	£53.95
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Product	Price	Price (Including VAT)
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HWP166 Paintjet Tri-colour Cart	£24.68	£21
HWP167 Paintjet Black Cartridge	£22.27	£18.95
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Accessories Listings

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NOM003 Syquest 200Mb Cart (Nomal)	£49.00
NOM004 Syquest 270Mb Cart (Nomal)	£39.99
NOM013 230Mb 3 1/2" Syquest Cartri	£19.00
PAN003 Panasonic 1.5Gb Disk	£75.00
PAN042 PD Disk 650Mb 5 Pack	£89.00
RIC007 Ricoh CD-R Media	£2.99
RIC012 Ricoh Rewritable Disks	£19.00
SON100 Zip Disk 100Mb Sony Brand	£29.99
SON066 Sony 650MB CD-R Media	£1.50
SYO002 Syquest Sq3270 Disk Media	£45.00
SYO011 Syquest E220Mb Cartridge	£19.95
SYO017 Syquest Syjet 1.5Gb Cart	£75.00
TEA006 Teac Branded CD-R Media	£2.19
XYR006 Maxit 540Mb Cartridge	£39.00
XYR007 Maxit 3 Pack 540Mb Cart	£125.00
HWP171 HP DLT Tape (HXT Cart	£44.95
HWP172 HP DLT Tape IV Cartridge	£74.99
HWP217 HP DLT drive clean" cart	£39.00
HWP221 HP T1000 cartridge	£19.99
IOM016 Qic 80-250Mb - For Iomega	£18.00
IOM038 Iomega 2Gb Cartridge	£15.99
IOM042 Iomega Ditto Cleaning Kit	£14.99

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Barring system failure, if you order an in-stock item by 8pm (Mon-Fri) you will receive your order next working day.

Next-day £6²⁵
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Huge Stocks
Our aim is to fulfil 95% of orders from stock. Our financial stability ensures that we hold a minimum of 48,000 items in-stock.

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Mail-order lines are open 7 days a week 8am to 8pm Mon to Fri and 9pm to 5pm Saturday and Sunday.

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Mike Technical Support

Dataproducts A new concept in printer cartridges!

GROUP HITACHI KOKI

Should ANY of Dataproducts compatible cartridges harm your printer in any way Dataproducts will repair or replace it. (See inside box for details). For Technical Support Tel: 0990 275 220

New Hewlett Packard compatible Click-in System

- 1 modified HP 51649A head, 2 cyan, 2 magenta, 2 yellow tanks (equivalent to 4 original cartridges)
- 100% Hewlett Packard compatible
- Upto 45% more ink capacity per colour tank (against original)
- NO syringes, NO spillage, NO waste
- Revolutionary tank system - No need for an expensive new head each time, you just purchase replacement ink tanks
- No preparation - simply 'PLUG & PRINT' (Packaging shown - DTP011)

DTP009 Click-in system (Inc. VAT £41.11)	£34⁹⁹
DTP010/DTP012 Replacement tanks (Inc. VAT £19.96)	£16⁹⁹

Epson compatible cartridges	Apple/Canon compatible cartridges
<ul style="list-style-type: none"> Plug & print Includes 20ml ink per colour 100% Epson compatible Tri Colour and single black available 	<ul style="list-style-type: none"> Plug & print 3 x 9ml colour kit available 100% Apple/Canon compatible Tri Colour and single black available
DTP005/007 Compatible cartridges from (Inc. VAT £4.99)	£4²⁵

Manu'er	Printer Model	Product Code	OEM Part Number	Type of Cartridge	Price Ex VAT
Canon	BJC-4000/4100	DTP007	BCI-21	Black	£4.25
	BJC-4000/4100	DTP008	BCI-21 Colour	Tri Colour	£6.99
	BJC-6000/610	DTP006	BJI-201 C/M/Y	Includes C,M,Y Colours	£10.99
	BJC-6000/610	DTP005	BJI-201 Bk	Black	£4.25
Epson	Stylus Colour / Pro / Pro XL	DTP001	SQ20034	Black	£6.99
	Stylus Colour / Pro / Pro XL	DTP002	SQ20036	Tri Colour	£14.49
	Stylus Colour / iWills	DTP003	SQ20047	Black	£6.99
	Stylus Colour / iWills	DTP004	SQ20049	Tri Colour	£10.99
Hewlett Packard	DeskJet 500/500C	DTP011	HP 51626a	Head + 3 Black Ink Tanks	£34.99
	DeskJet 500/500C	DTP012	HP 51626a	2 Replacement Black Tanks	£16.99
	DeskJet 500/500C	DTP009	HP 51625a	Head + 2 C/M/Y Ink Tanks	£34.99
	DeskJet 500/500C	DTP010	HP51625a	C/M/Y Replacement Ink Tanks	£16.99

For further information on Dataproducts cartridges see <http://www.dplinkjets.co.uk>

***Next-day delivery from £6²⁵ E&OE. All prices exclude delivery, see page 2 for Terms & Conditions.**

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Stops are opening throughout the country.

See pages 4-5 for existing store location.

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BELKIN

Network Cables




COLOUR CABLES:- CATEGORY 5 UTP	90cm assembled cables	3 Metre Snagless cables	5 Metre cables	15 Metre cables
Orange	BEL108	BEL110	BEL109	BEL217
Grey	BEL111	BEL113	BEL112	BEL085
Blue	BEL114	BEL116	BEL115	BEL206
White	BEL117	BEL119	BEL118	BEL218
Red	BEL120	BEL122	BEL121	BEL208
Price Inc VAT	£2.50 £2.94	£3.50 £4.11	£4.50 £5.29	£12.95 £15.22

CPU Sharing with OmniView

Control all your PCs from a single Keyboard, Monitor & Mouse

The Belkin OmniView™ PS/2 is perfect for system administrators, developers, trade show representatives or any other computer user that needs control of multiple computers without purchasing another monitor, mouse or keyboard. The OmniView™ quickly and easily connects existing AT or PS/2 computer systems to one mouse, keyboard and monitor using standard cables and allow you to select any computer without removing your hands from the keyboard.

- Allows multiple (up to 64) PC, AT, or PS/2 computers to be controlled by one keyboard monitor and mouse
- Works with any operating system
- Simple and economical
- Easy Installation with Belkin Cable Kits



BEL211	OmniView™ 2 Port PS/2	£199.99	£234.99
BEL016	OmniView™ 4 Port PS/2	£299.99	£352.49
BEL018	OmniView™ AT Style Cable Kit Includes: One VGA Monitor Extension Cable w/ Thumbscrews, HDD815 M/F, 6' (F2N025-06-T); One AT Style Keyboard Cable, 5 Pin Din M/M, 6' (F3AS10-06); One IBM Serial Mouse Extension Cable, DB9 M/F, 6' (F2N209-06)	£11.33	£13.31
BEL017	OmniView™ PS/2 Style Cable Kit Includes: One VGA Monitor Extension Cable w/ Thumbscrews, HDD815 M/F, 6' (F2N025-06-T); Two PS/2 Keyboard/Mouse Cable, 6 Pin Mini Din M/M, 6' (F2N036-06)	£11.33	£13.32

FOR MORE INFO CALL FACTS INTERNET No. 31124

STOCK CODE: BEL211

£199⁹⁹

(Inc VAT £243.99)

Bitronics Data switch Kit

Finally an easy way to use multiple parallel port devices has arrived! The new Belkin Components Bitronics Data Switch is the easiest and safest way to switch between Bitronics and IEEE 1284 printers, tape backup units, scanners, QuickCams, and EZ Drives - virtually any parallel port device! The Bitronics Data Switch won't slow you down, either, with full support for all advanced parallel port modes.

Simply use the included cable to connect the switch to your PC, and use your existing cables to connect devices to the Data Switch. Choose between the selected device with an easy to use manual button on the switch. You'll have the full communication between the selected device and your PC, allowing the use of data storage devices and printer status monitors.

- Perfect for use with:
 - HP Deskjet, LaserJet, and HP PhotoSmart Photo Printers
 - Zip Drives
 - EZ Drives
- Snappy
- QuickCams
- Scanners
- CD Roms
- Tape Backups

The Bitronics Data Switch is completely plug and play, requiring no software installation - simply attach cables, and your done.

- Works with HP PhotoSmart Photo Printers, Deskjets, Laserjets, and any other Parallel Devices
- Includes One IEEE 1284 Cable for Connection to computer
- Supports Full IEEE 1284 Bi-directional Communication
- Full Lifetime warranty

FOR MORE INFO CALL FACTS INTERNET No. 31128

BEL184

FOR MORE INFO CALL FACTS INTERNET No. 31129

BEL197

Compact Parallel AutoSwitches

Compact, convenient, and cost effective - a perfect combination. These flexible AutoSwitches install quickly and easily to allow 2 or 4 PCs to share a parallel printer. Reversible models can also be used to print from 1 PC to 2 or 4 printers. These models use straight through cables (Belkin part #F3D111-06) to connect to PCs, and standard Parallel printer cables on output (part #F2A032-06).

2-Port Reversible compact Parallel AutoSwitch Allows 2 PCs to Share 1 Parallel Printer or 1 PC to Direct 2 Printers (Including VAT £35.19)

BEL013 Model FIU109 **£29⁹⁹**

2-Port Compact Parallel AutoSwitch Allows 2 PCs to Share 1 Parallel Printer (Automatic and Manual Mode Selectable) Parallel Printer (Including VAT £17.56)

BEL215 Model FIU115E **£14⁹⁹**

4-Port Reversible Parallel AutoSwitch Allows 4 PCs to Share 1 Parallel Printer or 1 PC to Direct 4 Printers (Including VAT £58.69)

BEL216 Model FIU119U **£49⁹⁹**

Rotary Switches

BEL001 2 Position Rotary Data Switch Parallel £11.99 **£14.0**
 BEL002 2 Position DB25 Rotary Data Switch Serial (Economy) £11.99 **£14.0**
 BEL003 2 Position Parallel Rotary Data Switch KIT (Connect 2 PCs to 1 printer) £24.99 **£29.3**
 BEL004 2 Position Parallel Rotary Data Switch KIT (Connect 1 PC to 2 printers) £24.99 **£29.3**
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 BEL008 4 Position DB25 Rotary Data Switch Serial (Econ) £12.95 **£15.2**
 BEL009 4 Position Manual Slimswitch £19.99 **£23.44**
 BEL005 2 Position Manual Slimswitch £17.99 **£21.14**

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BEL183 Bitronics DataSwitch Kit (Model FIU123) (Inc. VAT £58.69) **£49⁹⁹**
 Also available fully bi-directional auto switches for use with printers

From 2 PCs to 1 printer

BEL197 2 Port Bitronics AutoSwitch (Model FIU122) (Inc. VAT £58.69) **£49⁹⁹**
 From 4 PCs to 1 printer

BEL214 4 Port Bitronics AutoSwitch (Model FIU124) (Inc. VAT £93.94) **£79⁹⁹**

Bulldog Security Kit

Safeguard valuable computers and home and office equipment.

Belkin unleashes a new bulldog for computer security! The Bulldog Universal Security Kit is the newest, strongest and most durable theft deterrent security system yet to safeguard valuable computers and home and office electronic equipment. Typical office equipment conveniently secured are personal computers, laser printers, FAX machines, copiers, typewriters and cash registers. At home, the Bulldog is perfect for protecting electronic games, CD players, amps, receivers, TVs and VCRs, home PCs and a variety of sporting equipment.

All components carry a Lifetime Belkin Product Warranty!

(Including VAT £23.49) **£19⁹⁹**

BEL199 Bulldog Security Kit.....

Portable Parallel SCSI Adaptor

Connect a SCSI device & a parallel printer to your parallel port.

The Belkin Portable Parallel to SCSI Adaptor is the perfect solution for connecting a CD-ROM drive, hard drive, or just about any SCSI device to your laptop or desktop computer with a parallel port. Installation is simple - connect the adaptor to your parallel port and SCSI device, install the software and the adaptor takes care of the rest!

(Including VAT £117.49) **£99⁹⁹**

BEL070 Parallel/SCSI Adaptor Kit

SOFTWARE WAREHOUSE

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CABLES

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 2 for Price Pledge

PRIMAX

Universal Cable

High-Speed PC to PC connection with full network capability
Fast access to files on connected PC or network
Ideal for portables or notebooks
10 second Installation using the PC parallel port

Primax Universal Direct Connection Cable not only links PCs, it also provides access to an attached network. The advanced built-in electronics allow a normal PC to PC to send data more than 100 times faster than a high-speed modem connection. Plug cable into the parallel port of each PC, click on the Direct Cable Connection icon (standard in Windows 95) for a full connection to be established.

Including VAT £70.44
Universal Cable **£59.95**



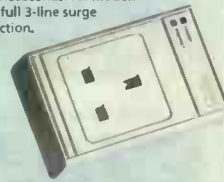
Product Specifications

- Length: 1.8m
- Connectors: DB25 male
- Performance: 400Kbyte/sec (on ECP & EPP ports)
- Power free operation
- Supports all ports (4-bit, 8-bit, EPP & ECP)

PRIMAX

Surge Protector Cube

With EM/RFI noise filter
Primax range of surge protectors safeguard your equipment and data against power disturbances: short-term increases or decreases in voltage levels, total loss of power, or noise interference (M/RFI). Small and large single outlets and multi-outlet models have a clamping response time of less than (or equal to) 1 nanosecond. All models offer full 3-line surge protection.



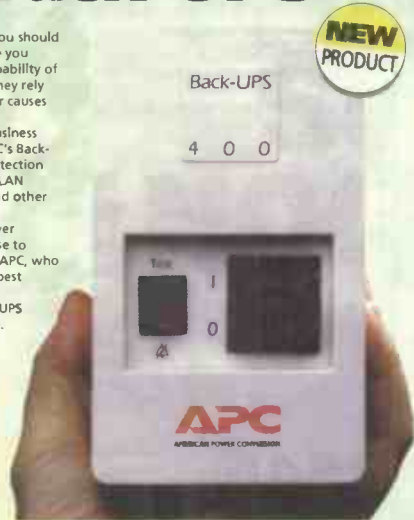
Product Specifications

- Models with side earth, earth pin and British plugs are available
- Electrical rating: 250V, 13A, 3250W
- Full 3-line surge protection line to neutral, line to ground, neutral to ground
- Maximum spike load: 600V/ 13500A - Maximum clamping voltage: 710V/150 ns
- Maximum energy dissipation: 225 Joule
- EM/RFI noise filter: Frequency range: 500KHz to 100MHz
- Surge indicator light (on operative, off defective)

(Including VAT £11.74)
PRI006 Surge Cube..... **£9.99**
(Including VAT £29.36)
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When you buy a desk top PC you should buy a UPS. Why a UPS? Because you need to do business, so the reliability of your computer is everything. They rely on power, but that same power causes nearly 50% of all data loss. APC UPS's mean high margin business and peace of mind for you. APC's Back-UPS provide reliable power protection for personal computer systems, LAN nodes, Point-of-Sale stations and other sensitive electronic devices. Whether you know about power protection or not, it makes sense to work with the market leader - APC, who designs and manufactures the best selling Uninterruptible Power Supply in the world - the Back UPS with over 4 million sold to date.



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Features

- Instantaneous battery backup power
- Increases productivity
- Full-time lighting & surge suppression offers maximum hardware protection
- Network-grade line conditioning prevents data glitches
- User replaceable, hot swappable batteries
- User adjustable option switches allow customisation of transfer voltage and alarm settings
- Two year swap out warranty



Backups Pro PnP 420
STOCK CODE: UPS002

£149.95 (Inc VAT £176.19)

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	Ex. VAT	Inc. VAT
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173 FBE062 Computer Tool Kit 55 Piece	£49.99	£58.74
193 FBE066 Computer Tool Kit 36 Piece	£39.99	£46.99
199 FBE500 Bulldog Security Kit	£19.99	£23.49
200 FBE066 Stackable Zip Rack (fits 10)	£7.99	£9.39

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	Ex. VAT	Inc. VAT
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1050 IBM AT Serial Adaptor Block, DB25F/DB9M	£4.99	£5.86
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1052 AT/PS2 Keyboard Converter	£4.99	£5.86
1053 5 Pin Din Female/6Pin Mini Din Male	£4.99	£5.86
1053 Reverse Keyboard Adaptor, 5 Pin Din Male/6 Pin Mini Din Female	£5.99	£7.04
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1056 Gender Changer, DB25 Male/Male	£4.99	£5.86
1057 Gender Changer, DB9 Female/Female	£4.99	£5.86
1058 Gender Changer, DB9 Male/Male	£4.99	£5.86

25 Pin Cables

These 25 pin RS232 serial cables are wired straight through.

	Ex. VAT	Inc. VAT
1043 25 pin RS232 Male / Male 6'	£9.99	£11.74
1044 25 pin RS232 Male / Male 10'	£12.99	£15.26
1047 25 pin RS232 Male / Female 10'	£12.99	£15.26
1132 25 pin RS232 Male / Male 3m GOLD	£14.99	£17.61
1133 25 pin RS232 Male / Female 3m GOLD	£14.99	£17.61

*Next-day delivery from £6**

Belkin Cables

Ground Indents

on Tin Plated D-Subminiature Connectors, provide excellent connector retention and shielding conductivity.

Product Identification

with Belkin name and part number. Guarantees warranty and world class technical support.

State of the Art Wiring Design

ensures 100% compatibility with all devices 100% of the time.

Aluminum Undermold Shielding

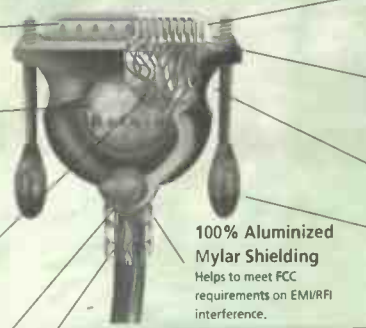
helps to prevent Radio Frequency and Electro-Magnetic Interference (RF/EMI). Hood shielding eliminates antennae excitation.

Molded Strain Relief and PVC Overmolding

to ensure a lifetime of error free data transmissions.

Flextec™ Cable

for increased flexibility and outstanding life and durability.



Gold Plated Copper Contacts

provide maximum conductivity and ensure no data loss.

28 AWG Stranded Tinned Copper, PVC Insulated Conductors

for excellent signal transmission.

PVC Premold

encapsulates individual conductors to ensure electrical isolation and eliminate stress on conductors.

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for installation and removal of cable assembly without tools.

100% Aluminized Mylar Shielding

Helps to meet FCC requirements on EM/RFI interference.

Modem Cables

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	Ex. VAT	Inc. VAT
BEL034 DB9 f/m - DB25 Male Port Hayes compatible (6 Ft)	£7.99	£9.39
BEL033 DB25 male - DB25 Female Port Hayes compatible (6 Ft)	£7.99	£9.39
BEL127 DB25 male - DB25 Female Port Hayes compatible (3m) (GOLD)	£12.99	£15.26
BEL128 DB9 f/m - DB25 Female Port Hayes compatible (3m) (GOLD)	£12.99	£15.26

Serial Cables

	Ex. VAT	Inc. VAT
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BEL028 Laplink universal parallel.....	£12.99	£15.26
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These Serial cables are for use with serial printers. They are fully compatible with HP LaserJet, Epson and compatible serial printers (Not for use with the HP 7500A plotters). If you need a longer length please call our sales team who will be able to help you.

Parallel Printer Cables

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BEL025 IEEE 1284 A-B Parallel Printer Cable, DB25/Cent 36M, 1.8m	£11.99	£14.09
BEL026 IEEE 1284 A-B Parallel Printer Cable, DB25/Cent 36M, 3m	£14.99	£17.61

SCSI Cables

	Ex. VAT	Inc. VAT
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BEL062 SCSI Peripheral Cable, 50 Centronics Male/Male, 6'	£14.99	£17.61
BEL063 SCSI Terminator-Single End, 50 Centronics Male	£14.99	£17.61
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BEL069 Int. Dual SCSI Drive Cable, 50SOK/50K/SOK, 23' Ribbon Cable	£7.99	£9.39

Cables Listing

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ALA001 Aladin UPS 250va.....	£89.00
ALA003 Aladin UPS 500va.....	£149.00
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APC002 Smart-UPS vs850va + PiCh.....	£204.95
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EXP015 Expert UPS 900va.....	£325.00
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UPS005 APC Smart 400i 400v.....	£239.00
UPS006 APC Smart 700i 700v.....	£225.00
UPS007 APC Smart 1400i 1400v.....	£449.00
UPS008 APC Backups 250 250v.....	£79.00
UPS009 APC Backups 400i 400v(ed).....	£119.00
UPS010 APC Backups 600i 600v.....	£144.00
UPS012 Back UPS Pro PnP 1400.....	£505.00
UPS013 Back ups pro pnp 1000.....	£389.00
UPS015 APC Smart 3000i 3000va.....	£1,195.00
UPS016 APC Smart UPS 1000 va.....	£409.00
BEL143 Joystick Y Cable, 6.....	£8.99
BEL144 Joystick Extension Cable.....	£12.99
BEL145 Midi Attachment Cable.....	£29.99
BEL162 Computer Power Cable+Plug.....	£7.99
BEL166 Parashare 50' RJ12 Cable.....	£9.99
BEL167 Parashare Coupler.....	£1.99
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WHICH?



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If you received a tax return earlier in the year BUT have not sent it back to the Inland Revenue you are now obliged to perform the tax calculations yourself, for submission before January 1998.

TaxCalc is a personal taxation software package from Which? TaxCalc checks the amount you must pay the Inland Revenue, does all the calculations and forms the basis for any tax refund.

The last published figures for refunds from the Inland Revenue totalled over £6 billion of which £4 billion was to individual taxpayers. In particular, £500 million was waiting to be claimed from an estimated six million people who had overpaid tax on bank and building society accounts.

Under the new Self Assessment rules you - as a taxpayer - are expected to take a much greater degree of responsibility for your tax position. You are expected to understand and defend your tax data if the Revenue queries the facts and figures you have given them. You will be expected to keep records and to be able to prove that the Income and deductions you declare and claim are true and accurate. In turn the Inland Revenue will accept your version of your affairs, and if, for example, you can show that you have over paid tax, they will refund the amounts claimed on your say so.

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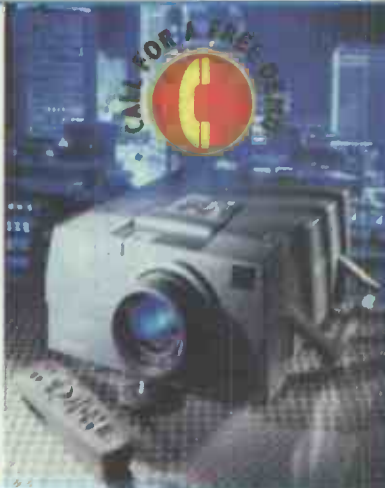
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HP 320LX Palmtop PC	£369	433.57

VELO 1 PHILIPS

The Award Winning Philips Velo 1 packs everything you need from your desktop into a small 17 cm case for the road. It's built for Windows CE, the pocket version of Windows 95. But it also has Pocket Word, Pocket Excel, Pocket Internet explorer...along with software for corporate e-mail, a database, voice recording and scheduling.

- Integrated Voice recorder
- Integrated 19.2 Kbps data / fax modem
- Backlightable display
- GSM Connection

Philips VELO1	ex vat	inc vat
	£495	581.62

SIEMENS NIXDORF SIEMENS PRO VIEW

The SCENIC Mobile 300 is a State of the Art entry level notebook with Intergrateable 8x CD-ROM. With a 133Mhz Intel Pentium processor, 8Mb of Ram upgradeable to 40Mb and a 1.35Gb hard disk, this notebook represents superb value for money from europe's largest manufacturer.

Model	HDD	Screen	ex vat	inc vat
Mobile 300	P133Mhz, 8Mb Ram, 1.35GbHD,	11.3" screen	£899	1056.33
	8 speed CD-Rom		£159	186.82

The Siemens Nixdorf SCENIC Mobile 700 and 710 models provide the ultimate high end multimedia notebook solution. Unique Pro view models come with detachable screens allowing you to deliver professional presentations in conjunction with an OHP display unit. You simply remove the 12.1" TFT SVGA display, place it on the projector and start your presentation. The projector in combination with Full screen/Full motion MPEG video playback and stereo audio function gets your message across in a big way!



Processor	HDD	Screen	Memory		CD	ex vat	inc vat
			Std	Max			
P166MMX	2.1Gb	12.1" TFT	16Mb	192Mb	20x	£2999	3523.83
P166MMX	2.1Gb	12.1" TFT	32Mb	192Mb	20x	£3249	3817.58
P166MMX	3.0Gb	12.1" TFT	32Mb	192Mb	20x	£3499	4111.33
P200MMX	3.0Gb	12.1" TFT	32Mb	192Mb	20x	£3599	4228.82
P233MMX	3.0Gb	12.1" TFT	32Mb	192Mb	20x	£3749	4405.08
ProView Models:-							
P166MMX	2.1Gb	12.1" Removable	32Mb	192Mb	20x	£3499	4111.33
P166MMX	3.0Gb	12.1" Removable	32Mb	192Mb	20x	£3699	4346.33
P233MMX	3.0Gb	12.1" Removable	32Mb	192Mb	20x	£3999	4698.83

INTEGRATED DVD ONLY WITH

PANASONIC

Panasonic

CF63 MULTIMEDIA NOTEBOOK



If it seems like you never have enough storage on your notebook PC, Panasonic has good news. Now breakthroughs in optical disk technology can solve the problem for good. The new CF63 from Panasonic comes fitted with a DVD ROM drive that also acts as a 20X CD ROM drive allowing up to 2Hrs of high quality MPEG playback.

£3889 ex vat

£4569.57 Inc vat

- Intel Pentium 166MMX with 32Mb EDO DRam (upgradable)
- 13.3" XGA TFT (1024x768), 4Mb VRAM
- 650MB DVD-ROM drive and 20X speed CD-ROM drive
- 3.24Gb Hard Disk and internal 3.5" floppy drive
- SoundBlaster Pro compatible with built-in speakers/microphone
- Windows 95

CF61 MODELS

KXF4	150MMX 2Gb 16MB 12.1" XGA TFT 8xCD	£2889	3394.57
DJC4	120Mhz 1.35Gb 16MB 12.1" TFT 8xCD	£1899	2231.32

UNIQUE RUGGEDIZED CASING FROM

PANASONIC

CF25 RUGGEDIZED NOTEBOOK



Ruggedized design for high performance under tough conditions

Designed for harsh field and office conditions in mind, the CF-25 and CF-25 MKII are ruggedized notebook PC's built to resist water, vibration, shock and dust. Panasonic's unique Shlrato Ruggedized Mounting System is employed. With these notebooks, Panasonic's high standards of performance can now be yours over a wider mobile computing range.

133Mhz
£1669 + vat

- Intel Pentium 120-150MHz processors
- 10.4" or 12.1" TFT SVGA colour screen
- CD-ROM drive options available
- 8Mb or 16Mb of EDO RAM (upgradable)
- Windows 95 operating system included

DJC4	120Mhz 1.35Gb 16MB 12.1" TFT Win95	£2349	2760.07
EGC2V	133Mhz 1.35Gb 8MB 10.4" TFT Win95	£1679	1972.82
FJF4	150Mhz 2Gb 16MB 12.1" TFT Win95	£2849	3347.57

CF35 MODELS

KJF4	150MMX 2Gb 16MB 12.1" TFT Win95	£2599	3053.82
EJC4	133Mhz 1.44Gb 16MB 12.1" TFT Win95	£2249	2642.57



ThinkPad



- Pentium 120MHz
- 12.1" TFT
- 8MB - 40MB SO DIMM
- Super-slim and lightweight
- Standard I/O plus floppy, audio
- 85-key, palm rest, TrackPoint III
- Windows 95
- Lotus SmartSuite on CD included FREE
- 1 year warranty with international service
- 60 days preinstalled operating system software support
- Free 24 hour telephone hardware support

LIMITED OFFER

£799+VAT

CALL FOR PRICING ON OTHER THINKPAD MODELS

olivetti ECHOS NOTEBOOKS

One glance at an Olivetti Echos multimedia notebook tells you that they too have a certain something - distinctive lines that only a company with Olivetti's design heritage could understand. But take a closer look and you'll see that the Olivetti Echos range has everything you need for business on the move. Capable, powerful and adaptable - there is an Olivetti notebook to suit the way you work and to suit your budget.

P133C	11.3" DSTN, 8Mb, 1.0Gb, CD	£1009	1185.57
P133E	11.3" TFT, 16Mb, 1.4Gb, CD	£1439	1690.82
P150D	12.1" CSTN, 16Mb, 1.4Gb, CD	£1289	1514.57
P150E	11.3" TFT, 16Mb, 2.0Gb, CD	£1649	1937.57
Pro P133D	12.1" DSTN, 8Mb, 1.3Gb, CD	£1149	1350.07
Pro P133S	12.1" TFT, 16Mb, 2.0Gb, CD	£1539	1808.32
Pro P150S	12.1" TFT, 16Mb, 2.0Gb, CD	£1699	1996.32
Pro P150X	12.1" TFT, XGA, 16Mb, 2.0Gb, CD	£1899	2231.32
Pro P166SM	12.1" TFT, 16Mb, 2.0Gb, CD	£2299	2701.32
Pro P166XM	12.1" TFT, 32Mb, 3.0Gb, CD	£2679	3147.83

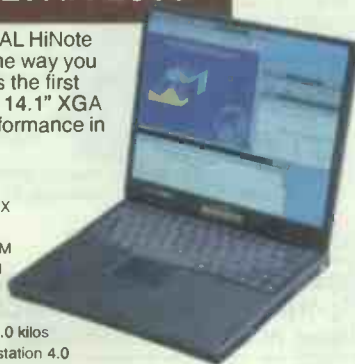
14.1" TFT IS HERE FROM

digital

HI-NOTE ULTRA 2000

The truly revolutionary DIGITAL HiNote 2000 notebook will change the way you look at notebooks forever. It's the first premium notebook to offer a 14.1" XGA TFT display, and sizzling performance in a thin and light form factor.

- 14.1" XGA TFT Screen
- 166MHz Pentium processor with MMX technology, 512K L2 cache
- Outstanding graphics with 2MB VRAM
- 3.2 GB storage; user-removable hard disk drive
- Long life Lithium Ion battery
- Only 33mm thin and weighing only 3.0 kilos
- Windows95 and Windows NT Workstation 4.0 configurations available
- 32MB EDO RAM (max configuration 144MB)
- Three year limited international warranty



HI-NOTE VP 500

The DIGITAL Hi-Note VP 500 notebook, now with the Intel Pentium MMX processor, offers all the power of a desktop, with integrated 12x CD-ROM and fast 128 bit PCI graphics for stunning multimedia demonstrations. Optimized for Windows 95 and Windows NT v4.0, Pentium/PCI powered and network ready. The DIGITAL Hi-Note VP 500 notebook is the mobile client for every enterprise, combining high performance, connectivity, multimedia, modularity and a low price.



HiNote Ultra	166MMX, 32Mb, 14.1" TFT	£3750	4406.25
HiNote VP 575	166Mhz MMX, 16Mb, 2.16Gb, TFT, CD	£2350	2760.25
HiNote VP 562	133Mhz MMX, 16Mb, 1.44Gb, DSTN, CD	£1499	1761.32
HiNote VP 567	133MMX, 16Mb, 1.44Gb, TFT, CD	£1849	2172.57

AMAZING VALUE FROM



Extensa™ TravelMate™
ACER products developed by TI

Texas Extensa 355 Notebook

Another incredible value for money notebook offer from tech direct!! Check the features and call for your own Star of Texas!!

- Intel Pentium 133Mhz processor and 66Mhz host bus
- 11.3" DualScan Colour LCD display (800 x 600)
- 1.4Gb enhanced-IDE upgradeable Hard Disk
- 1Mb EDO Video Ram, 32-bit PCI bus
- 16Mb EDO Ram expandable to 48Mb
- 1.44Mb 3.5" built-in floppy disk drive
- PCI Local Bus with video accelerator
- 2 x Type II PCMCIA slots, serial port, EPP/ECP parallel port,
- external VGA port, PS/2 port
- 64-bit memory bus, 256Kb Flash Bios, 256Kb 2nd level Synch SRAM cache
- NiMH battery, International AC Adaptor
- Win95 keyboard and built-in touchpad
- Includes Microsoft Windows 95 pre-loaded
- One year worldwide limited warranty



£799+
VAT

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tech direct

Portables & Accessories



7

GOLD CARD GLOBAL PC CARD PSION



ex Vat £195
inc Vat 229.13

- K56flex technology
- Upgradeable via 2MB flash memory
- Globally approved
- Compatible with telephone networks worldwide
- Ready for GSM Fax & Data
- Onboard DAA with country switching software
- Lifetime Warranty

The Gold Card is Europe's No1 PCcard Modem.

It's reliability, performance and ease of use that make the Gold Card the No1 choice. The Gold Card series uses the latest technology to provide mobile communication and network connectivity.

IMATION
Home of 3M Imation

The new diskette standard is here! If you're like most computer users, your data storage needs are rapidly outgrowing the capacity of your system. Multimedia programs, digitised photographs, internet downloads and other large files can overwhelm your hard drive quickly. Yet they rarely fit on standard 3.5" diskettes. This drive has already been adopted by many leading world manufacturers such as Compaq, Microsoft, Fujitsu / ICL, Panasonic & Samsung to name just a few. Isn't it time you upgraded your system?



120MB capacity
Each SuperDisk diskette uses LS-120 technology to hold more data than 83 conventional 3.5" floppies and 20 percent more data than alternative high-capacity floppy solutions.

Familiar technology
SuperDisk diskettes are the same size and shape as standard floppy diskettes. The drive works just like the one you use today - but much faster!

ex Vat £99
inc Vat 116.33

Dual compatibility
The Imation SuperDisk Drive and other LS-120 drives read and write both 120MB SuperDisk diskettes and all standard high-density and double-density diskettes.

Similar Internal version from
Panasonic
ex Vat £75
inc Vat 88.13

FOR MORE STORAGE PRODUCTS SEE PAGES 26 - 29

NOVA Max

Fast Upgrade For Compaq, IBM And Toshiba Notebooks

NOVA Max Hard Drive Solutions
1.00Gb, 2.1Gb And 3.0Gb Available
•Micro-Code Software Ensuring Compatability •Removable And Replacement options •Full Step by Step Instructions.
•Disk Management software Included.
•Free Technical Support all Backed By 3 Year Manufacturers Warranty



1.0GB	1.4GB	2.1GB
£229 269.07	£269	£399 468.82

NOVA Data-Trans Transfer Device
•Allows The easy transfer Of data for all notebooks having Upgrades
•Win95 'Plug And Play' Compatible.
•Type II PCMCIA Socket Required
•Full Step By Step Instructions Included
•Safer Than 'Floppy Disk' Backup Transfer
•Valuable Hardware Tool That Can Be Used Repeatedly
•Full Three Year Manufacturers Warranty

£145

NOVA Motion 16X PCMCIA CD-ROM

- A True 16 Speed Portable PCMCIA CD-ROM
- WIN 95 "Plug and Play"
- Built in CIS Taking Advantage Of WIN95 ATAPI Support
- 16-bit Data Access, Transfer Rate Up To 3Mb / Sec
- Low Power Consumption And APM Management Compatible
- Full Operating Instructions And External Power Supply
- All Backed By Full 12 Month Manufacturers Warranty

£289 339.57

AMACOM

FLIP DISK MOBILE DATA STORAGE

The Flip Disk is a revolutionary, new portable data storage device that is smaller, faster and offers more capacity than anything else on the market! The unit is powered directly from the notebook or desktop computer. The unit incorporates industry standard 2.5" hard drives with capacities of over 4Gb. Data transfer speeds and access times are phenomenal - as fast as internal hard drives - making the unit ideal for expanding your computers data capacity and as a remarkably fast backup device. The 2.5" hard drives used in the Flip Disk are industry standard and have a proven track record for reliability. The Flip Disk also incorporates built-in shock absorbers for added reliability.

FD 2.8 £345 ~~£433.57~~ **FD 4.2 £429**

External Parallel Port CD-ROM Drives

4 speed CD-ROM	£115	135.12	16 speed CD-ROM	£145
8 speed CD-ROM	£132	155.10		

External Parallel Port CD-ROM Drives with Sound

4 X CD-ROM sound	£175	205.62	16 X CD-ROM sound	£209	245.57
8 X CD-ROM sound	£189	222.07			

External PCMCIA based CD-ROM Drives

4 speed CD-ROM	£128	150.40	16 speed CD-ROM	£162	190.35
8 speed CD-ROM	£142	166.85			

AMACOM EZCD PLUS - External PCMCIA CD-ROM & Audio CD Player
EZCD PLUS x8 - Eight speed CD-ROM/Audio CD Player **£167** 198.22

Robotics
The Intelligent Choice in Information Access

Sportster X-Jack 28.8k PCMCIA **£106**

Sportster Winmodem PCMCIA **£75**

Palm pilot Personal **£155** ~~£182.12~~ Pro **£212**

ABSOLUTE

Absolute are the leading name in the manufacture of laptop/notebook batteries. Tech direct now offer the complete line of Absolute batteries for portable computers. Absolute's high quality batteries are made of the finest materials available, guaranteed to meet or exceed O.E.M. specifications and are backed by a one year warranty.

NOTEBOOK MEMORY

CALL OUR KNOWLEDGEABLE SALES STAFF FOR PRICES AND SPECIFICATIONS FOR YOUR NOTEBOOK!!



SERIES 4000 FAX/MODEM/V.34/GSM

International modem with integrated electronics and twice as much flash memory as any other.

When you're on the move, you need to keep in touch. The 4000 Series PC Card lets you connect to market leading GSM mobile phones as well as standard telephone lines (33.6Kbps) so that you can stay connected, wherever

- V.34 modem combined with support for GSM data
- Global modem with flag software selector
- Internal DAA - no external pods
- GSM support for multiple handsets
- Flash upgradeable to support future phones

£290 ex vat
£340.75 inc vat

SERIES 6000 GSM DATA CARDS

For GSM data only, the Series 6000 allows data, fax and SMS functionality whilst connecting to most of the leading handsets.

Series 6000 GSM DATA Card **£240 282.00**

Compatible with most NOKIA, ERICSSON, PANASONIC and ORANGE phones. PLEASE CALL TO CHECK YOUR MODEL.

SERIES 3400 FAX/V.34/ETHERNET PC CARD

East-to-install PC Card providing Ethernet, fax and modem functions all in one

- V.34 fax/modem combined with Ethernet on 1 card
- Global modem with flag software selector
- 10Base-T and 10Base-T/BNC combo available
- 100% NE 2000 driver compliant
- Windows 95 Plug & Play, Windows NT compatible
- Internal DAA - No external pods

10Base-T **£220 258.50** 10Base-T/BNC **£240 282.00**

SERIES 2200 ETHERNET CARDS

Type II 10Base-T Ethernet Card **£90 105.75**
Type II 10Base-T/2 Ethernet Card **£106 124.55**
Type II Fibre Ethernet Card **£280 329.00**

Xircom 33.6 PC Card Modem

The Mobile Networking Experts

The Xircom Global ACCESS family of 33.6 PC Card Modem products provide versatile communication solutions for accessing information from any locations, anywhere in the world. Whether in the office, at home or travelling internationally, the Xircom GlobalACCESS 33.6 PC Card Modem provides the versatility, performance, and ease-of-use that make it the ideal solution for all your mobile connectivity needs.



£118 ex vat
£138.30 inc vat

CreditCard Ethernet 10/100+Modem 56

The CreditCard Ethernet 10/100+ Modem 56TM Global ACCESS is the ideal multi-function solution for portable PC users. A member of Xircom's award winning family of the Fast Ethernet products, it combines a 10/100Mbps Ethernet adapter, a high-speed 56K modem and GSM capabilities in a single PC Card.



£225 ex vat
£284.37 inc vat

CreditCard Ethernet Adapter 10/100

Portable PC users can now connect to both 10Mbps Ethernet and 100Mbps Fast Ethernet networks with this high performance PC Card. Autonegotiation of 10Mbps or 100Mbps speeds provides a seamless connection in both network environments. Fast ethernet is the natural migration path for over-burdened 10Mbps Ethernet networks.



£98 ex vat
£115.15 inc vat

CreditCard GSM

The Global ACCESS CreditCard GSM provides notebook users with data and fax communications over GSM (Global Systems for Mobile Communications) networks worldwide. Connect your GSM handset to the Xircom CreditCard GSM PC Card and turn your notebook into a mobile office.



£93 ex vat
£109.27 inc vat



Global Class 2814 V.34

One Card for Worldwide Use!

The Global Class 2814 PC Card is a full featured, ultra high speed PCMCIA data/fax/modem card with internal DAA phone line interface. It supports V.34 33,600 bit/sec data 14,400 bit/sec and receive fax, data compression, and error correction. In addition to full V.34 capability, the Global Class 2814 is also compatible with existing V.Fast Class and slower modems.

- Multi-National Capability V.34 PC Card
- Global Class Country Selector Software
- High Speed Parallel Port in Windows
- Guaranteed Compatible - Future Proof

£139 ex vat
£183.32 inc vat

Global Networker 3410 & 3412

The Next Generation in Modems

TDK's Global Networker 3410 and 3412 are full featured, ultra high speed V.34 PCMCIA data/fax/voice modem cards with built-in Ethernet LAN capability. The Global Networker 3410 supports 10Base-T, while the Global Networker 3412 supports 10Base-2 wiring. The Global Networker cards can simultaneously use LAN and modem functionality. Additional features include international + telephone answering machine capability.

- Ethernet LAN Capability 3410 **£179 ex vat**
- GLOBAL CLASS SERIES™ **£210.35 inc vat**
- UltraPort Capability - up to 230,00 bps
- Telephone Answering Machine Capability 3412 **£199 ex vat**
- £243.83 inc vat**

Network Flyer 100

The Next Generation in Networking

TDK's newest networking solution, the Network Flyer 100, is an Ethernet LAN adapter card for both 10Base-T and 100Base-TX connections. This PC Card is ideal for the corporate environment or anywhere 10Base-T/100Base-TX Ethernet LANs are available. The Network Flyer 100 uses new CardBus technology to eliminate the interface bottleneck that other PCMCIA 2x 100Base-TX cards experience.

- PC Card 95/CardBus Technology **£119 ex vat**
- Auto-sensing - 10Base-T & 100Base-TX **£139.82 inc vat**
- ODI and NDIS LAN Drivers Included
- Novell NetWare, Windows 95 and Windows NT

NEW GLOBAL CLASS 3310 DATA/FAX/GSM PC CARD **£139 163.32**

CALLUNA

PCMCIA HARD DRIVE

PORTABLE - SECURE - COST EFFECTIVE



With the launch of Calluna's new 520MB PCMCIA Hard Drive (1GB with compression) tech direct can now offer the last word in portable secure data. Using this in conjunction with the SCM Cardreader enables the business user to remove their hard drive from their system, slip it into their pocket and pop it into their system at home to carry on working - or simply lock it in a safe overnight.

Digital camera users with removable media will appreciate the benefit of having the SCM Cardreader fitted to their desktop PC, removing the need to have access to a notebook to download their images or using the very slow serial connection. Business users will optimise the functionality of any PCMCIA device bringing potentially large savings on the expense of buying the same device for both desktop and notebook.

Easily installed and with support for all main platforms, including OS/2 Warp and Windows NT, the SCM Cardreader is an essential addition to your PC hardware.

£319 ex vat
£374.83 inc vat



DESKTOP CARD READER

The SCM SwapBox PCMCIA card adapter adds a new dimension to desktop computing, enabling the quick and seamless interchange of PC Cards between your portable and desktop PCs. The SCM SwapBox PC Card Adapter provides unprecedented convenience and flexibility in expanding the functionality of your desktop PC. The SCM SwapBox Adapter Includes a comprehensive set of PC Card software. This software enables easy card configuration and trouble-free operation of all your PC Card peripherals.

- Ideal for exchanging data and programs between your mobile and desktop PCs
- Most advanced Plug & Play adapters for Windows 95
- Fully compatible with the PC Card Standard
- Maximises your PC Card investment

The SwapBox SBI-D1 has one front PCMCIA socket and supports Type I, II or III PC Cards.

£69 ex vat
£81.07 inc vat

Portables & Accessories



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CUSTOMER SERVICES: 0181 286 2286
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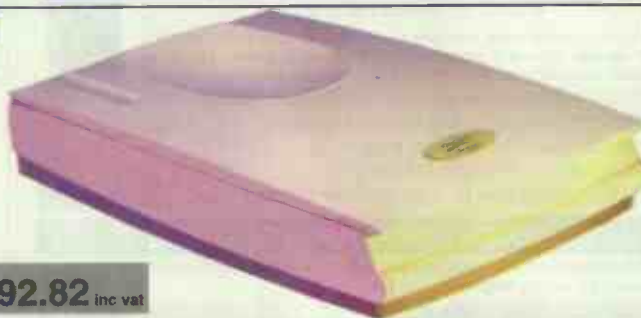
Vivitar

Vivitar's digital cameras, scanners and photo printers give you more creative freedom. For the first time, these advanced technologies are available at an affordable price!

Scanners & Cameras

VIVISCAN VSF-300 SCANNER

- 300 x 600 dpi optical resolution
- Includes Xerox TextBridge Classic OCR software
- Includes i Photo Plus image enhancement software
- High speed, single pass 30 bit colour scanning
- Scanner features pass-through port for your printer
- PC TWAIN Driver in 6 languages (EFIGSJ) on CD-ROM



OUR BEST SELLING FLATBED SCANNER

Price Buster

£79 ex vat £92.82 inc vat

VIVICAM 3000 DIGITAL CAMERA



£299 ex vat
£351.33 inc vat

Price Buster

Features:

- 1000 X 800 (800,000 Pixels) XGA Resolution.
- 30 Bit 1 Billion colours
- Internal image storage, 25 standard 12 hi-resolution
- Upgrades image storage Via PCMCIA memory cards
- Automatic Electronic Flash
- Erase individual Images
- 4 Seconds Audio storage per Image

VIVISCAN ULTRAPHOTO

LivePix software features image manipulation and more!

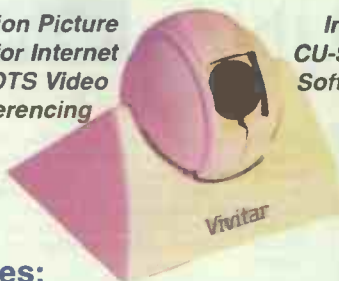


£79 ex vat £92.82 inc vat

- Small, external, 400 x 600 dpi optical resolution photo scanner
- Plug and Play external Installation
- Connect to your parallel port interface (EPP or SPP)
- Pass through parallel port connector for your printer
- Scans photos and slides without any additional accessories
- 4" x 6" maximum scannable image

MPP-2i MOTION PICTURE PHONE

PC Motion Picture Phone for Internet and POTS Video Conferencing



Includes **FREE** CU-SEE-ME Internet Software worth £50

£99 ex vat
£116.32 inc vat

Features:

- PC Video phone system for use over regular telephone lines (POTS) or the Internet
- Works with your PC as a digital input device
- Sold complete with all necessary software and hardware for POTS conferencing, as well as video drivers for Internet applications
- Works with the image processing and communications capability of a PC with a modem and sound card
- Complete with MicroPhone, Leads, Software & 12 Month Warrantee

VIVICAM 2500 DIGITAL CAMERA

Immediately view or review images on the camera's 1.8" Colour LCD Display.



Features:

- Immediately view or review images on the camera's 1.8" Colour LCD Display
- Output images to any NTSC TV, VCR or PC
- 2MB internal memory stores up to 64 Images
- Graphics manipulation and photo album software included
- Automatic Electronic Flash
- Erase Individual Images
- 480 x 360 pixels resolution
- Macro setting for close ups to 8 inches

£189 ex vat
£222.07 inc vat

DIGIPHOTO 5000 CYLITHOGRAPHIC PRINTER

NEW



Features:

- Full colour photo printer prints vivid continuous tone images up to 16 million colours (24-bit)
- High quality completely dry printing process - needs no toner, ribbon or ink cartridges
- The "ink" is inside the photosensitive paper
- Windows 95 Plug and Play compatibility
- E-Mail photographs and print them instantly or later on demand
- Make personalised greeting cards or invitations
- Touch - up and colour correct photographs before printing
- Cylithographic photo process

Price Buster

£169 ex vat
£198.57 inc vat

10

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10.30AM - 4.30PM Sun

Kodak



Aug '97

NEW DC120 CAMERA

- 1280 x 960 resolution (1.2 million colours)
- 2Mb internal memory stores 20 pictures
- Optional PCMCIA cards for extra storage
- 1.6" colour LCD viewfinder
- Focus free lens with 3X zoom
- 24-bit colour and built in flash

Sept '97

£429 ex vat £504.07 inc vat

DC120 ZOOM CAMERA

- Video out to TV/VCR
- 2X zoom lens
- 1.8" colour LCD
- Resolution 1152 x 864



£549 ex vat £645.08 inc vat

CASIO

QV-300 CAMERA

- 640 x 480 resolution (JPEG compression)
- 2.5 inch colour TFT LCD screen
- 4Mb flash memory built in
- Wide angle and telephoto lens options



£339 ex vat £398.32 inc vat

QV - 100	£275	323.12
QV - 11	£199	233.82
QV - 700	£349	410.07
DP8000 PhotoPrinter	£269	316.07

Panasonic

KXL-600A	£249	£292.58
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Nikon

COOLPIX 100	£329	£386.58
COOLPIX 300	£498	£585.15

Canon

POWERSHOT 600	£625	£734.38
POWERSHOT 350	£386	£453.55

AGFA ePhoto 307	£209	245.58	RICOH RDC - 300	£299	351.32	MINOLTA RD - 175	£3795	4459.12
KONICA Q - Mini	£399	468.82	RDC - 2L	£499	586.32	DImage V	£469	551.07
			RDC - 2E	£399	468.82	JVC DVX	£1139	1338.33

ATA FLASH	2Mb	4Mb	6Mb	8Mb	12Mb	16Mb	24Mb	32Mb	40Mb
Canon Powershot 600, EDS-1N									
EDS-DCS1, EDS-DCS3									
Fuji DS 505A, DS 515A, DS 220									
Kodak DC50, DCS420, DCS460, DCS465, EDS DCS1, EDS DCS2									
EDS DCS5									
Nikon E2N, E2S									
Ricoh RDC 2									

COMPACT FLASH	4Mb	8Mb	12Mb	16Mb	24Mb	32Mb	SSFDC	2Mb	4Mb
Canon Powershot 350							FujiFilm DX-5		
Epson Photo PC 600 XGA							Olympus D-220L, D-320L		
Kodak DC25, DC-120									
Panasonic Cool Shot KXL-600A, KXL-601A							MINIATURE CARD		
Vivitar Vivicam 3000							Hewlett Packard HP PhotoSmart	2Mb	4Mb

COMPACT FLASH CARDS

Compact Flash Card 4Mb	£65	76.37
Compact Flash Card 8Mb	£89	104.57
Compact Flash Card 12Mb	£145	170.37
Compact Flash Card 16Mb	£179	210.32
Compact Flash Card Adapter	£19	22.32

ATA FLASH CARDS

ATA Flash Card 4Mb	£65	76.37
ATA Flash Card 8Mb	£89	104.57
ATA Flash Card 12Mb	£145	170.37
ATA Flash Card 16Mb	£179	210.32
ATA Flash Card Adapter	£19	22.32

OLYMPUS



C-820L

- 810,000 Pixel Camera
- Autofocus
- Recording on next generation SmartMedia Cards
- Data Transfer via PCMCIA adapter
- Optional SmartMedia Cards
- 2" TFT Colour LCD Screen
- Versatile Built-in flash
- Continuous Shooting Mode
- TV Connection
- Highest Resolution in its class
- Light and Compact Design
- Upgrade to award winning C-800L
- All Glass Lenses

£765 ex vat £898.87 inc vat

C-1400L

- 1.4 Million Pixel Camera
- 1280 x 1024 Resolution
- 36-110 mm (equivalent) Zoom
- 2.8-3.9 Aperture
- SLR - see through the lens!
- 2" TFT LCD Screen
- Built-in flash
- TTL Metering
- Exposure Compensation
- Removable Smart Media (Inc 2 x 4Mb)
- Leather Case
- Rechargeable batteries and charger
- PhotoSoap Software



£1106 ex vat £1299.55 inc vat

C-420L Digital Camera	£425	499.37	P 300 Printer	£510	599.25
C-410L Digital Camera	£499	586.33	PCMCIA Adapter		
C-800L Digital Camera	£679	797.82	4 Smart media	£72.33	84.98

SANYO

DIGICAM X300e

£655 ex vat £769.63 inc vat

AS SEEN ON TV

DIGICAM G200

- 4Mb Memory 60/120 images (high resolution/standard resolution)
- 2.0" Polysilicon TFT LCD screen
- Auto focus, Optical viewfinder
- 6 second audio annotation
- Video output, built in flash
- VPC G1 £295+vat



£439 ex vat £515.83 inc vat

EPSON

EPSON PHOTOPC 500	£308	£361.90
EPSON PHOTOPC 600	£499	£586.33

FUJIFILM

FUJI DX-7	£279	£327.82
FUJI DX-5	£199	£233.82

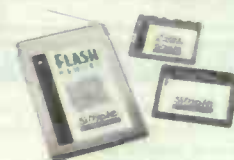
Most digital cameras come with only enough built-in memory to store about a dozen pictures. Flash cards are used as "digital film" to increase photo storage capacity. Flash cards are "must" add-ons for today's digital cameras and HPCs. And Simple Technology flash cards are available in a range of MB capacities to match your budget and needs.

CompactCard Adapter

- A 68-pin CF PC card adapter is available, allowing the 50-pin CompactCard to be inserted into desktop and notebook PC's.

CompactCard™

- Ultra-small and rugged solid state flash memory devices that store data indefinitely without the use of a battery
- CompactCard dynamically supports 3.3 and 5 volt systems



ATA Flash

- The ATA flash Memory PC Card is similar to a floppy disk, but has an on-board ATA controller which eliminates the need for FFS software and ensures compatibility
- Solid-state construction with no moving parts
- Ability to retain information written to it without use of a battery
- DOS, Windows 3.x/95 and MAC OS compatibility
- Ultrasonically-welded steel case for maximum durability
- Five year warranty



Nikon

Coolskan 35mm Scanner external	£559	656.82
Coolskan 35mm Scanner internal	£499	586.32
Supercoolskan	£1149	1350.05

EPSON

GT 5000 PC Parallel	GTX-5000WINP	£154	180.95
GT 5000 PC SCSI	GTX-5000WINS	£246	289.05
GT 8500		£300	352.50
GT 8500 PC Parallel	GTX-8500WINP	£369	433.58
GT 8500 PC SCSI	GTX-8500WINS	£392	460.60
GT 8500 PC SCSI	GTX-8500WINS	£469	551.08
GT 9500		£383	450.03
GT 9500 PC Parallel	GTX-9500WINP	£446	524.05
GT 9500 PC SCSI	GTX-9500WINS	£469	551.08
GT 9500 PC SCSI	GTX-9500WINS	£538	632.15
NEW GT 12000	CALL	CALL	CALL

Logitech

PageScan Colour parallel	£89	104.57	Freescan	£125	146.87
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HEWLETT PACKARD

HP Scanjet 5P	EX Vat	Inc Vat
HP Scanjet 6100C	£149	175.75
	£449	527.57

OLYMPUS

ES-10 Scanner	£392	448.85
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AGFA

Arcus II	£1479	1737.82
NEW Snapscan 310	£145	170.37
NEW Snapscan 600	£295	346.62
Studiostar Photoshop 4.0LE	£485	569.87
Studiostar Photoshop 4.0Full	£539	633.32
DuoScan	£2785	3272.37

Genius

NEW Colorpage EP	£79	92.82
NEW HR5 Flatbed Scanner	£149	175.07

PRICEMATCH

We will usually match or beat any price lower than our own

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 CUSTOMER SERVICES: 0181 286 2286
 CORPORATE SALES: 0181 286 2277

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11

Scanners & Cameras



AGFA



ARCUS II



The Arcus II features 36-bit pixel depth, a true density range of 3.0D, resolution up to 2400 ppi for continuous tone pictures and an astounding 3600 ppi for line art. Clearly this is the desktop professional!

- Desktop, flatbed, single pass colour scanner
- 600 x 1200 ppi optical resolution
- 2400 ppi by interpolation, 3600 ppi in line art
- FotoLook, FotoFlavor + FotoTune Light software
- Photoshop 3.0 full version software

£1299 ex vat
£1528.33 inc vat

NEW - SNAPSCAN 310 - NEW



SnapScan is designed for use with every desktop PC or Macintosh, at home or office. It's a low cost, A4 flatbed scanner, which automatically captures images of outstanding quality within seconds.

- Desktop, CCD flatbed, single pass colour scanner
- 300 x 600 ppi optical resolution
- 4800 x 4800 ppi through interpolation
- 30 bit colour depth, 10 ms/line scan speed
- FotoLook and FotoSnap 2.09 software

£134 ex vat
£157.45 inc vat

Improved version of the award winning SnapScan



AGFA PAPER

AgfaJet

ePHOTO 307 DIGITAL CAMERA



Now you can quickly and easily create digital photos and transfer them to your PC. The new Agfa ePhoto 307 is ideal for both business and home use. Not only is the ePhoto 307 efficient and economical, but it's also fun!

- Two resolution options: 640 x 480 or 320 x 240 pixels
- Stores 36 high or 72 standard resolution images
- High quality 24-bit colour images
- Built-in auto flash from 3-10 feet

£209 ex vat
£245.57 inc vat

NEW - SNAPSCAN 600 - NEW



Low cost scanning is raised to superb quality levels by the SnapScan 600. It's an outright winner in the personal, A4 flatbed scanner market. Razor-sharp images are captured on PC.

- The ultimate low-cost A4 flatbed scanner
- 600 x 1200 ppi resolution, 30 bit colour depth
- Interpolated resolution up to 4800 ppi
- FotoLook, FotoSnap + FotoFlavor software
- OmniPage LE OCR software

£275 ex vat
£323.13 inc vat

STUDIOSTAR



Studiostar is the fastest, sharpest Legal/A4 flatbed scanner in its class, offering exceptional value for money. Its very high scanning speed produces colour previews of your photograph or artwork in less than 10 seconds

- 600 x 1200 resolution
- Colour line speed 6.5 ms/line
- FotoLook, FotoSnap
- Softcopy, Omnipage
- Photoshop LE, OCR software

£479 ex vat
£562.83 inc vat

£529 ex vat
£621.58 inc vat

DuoScan

£2590 3043.25

Ink Jet Paper A4 200 Sheets

ex vat inc vat
£16.13 18.95

Ink Jet Paper A3 200 Sheets

£38.26 44.95

Ink Jet Photographic Paper 20 Sheets

£14.85 17.45

Ink Jet Photographic Paper 50 Sheets

£34.00 39.95

Ink Jet Transparency Film 50 Sheets

£34.00 39.95

Ink Jet Multi Pack

£8.47 9.95

(5 sheets Photographic - 5 sheets Transparency Film - 10 Hi Res Paper)



PIXPRINT 150 DYE SUBLIMATION PRINTER

The PIXprint 150 is designed to print photographs from a PC, MAC, Video source or a digital camera. This small and inexpensive printer produces glossy photographic quality prints using dye sublimation technology. The printer is user friendly, inexpensive to operate and prints are produced in a rapid ninety seconds. Windows 95 and MAC drivers allow easy connection to a computer environment. PIXprint is ideal for printing images from many sources e.g. scans, digital cameras.

NEW



- Photo quality 16.7 million colours
- Around 90 seconds print speed
- Prints up to 25 photos unattended
- Compact, stylish desktop design

£269 ex vat
£316.07 inc vat

VIDEO COPY PRO

VIDEO copy pro is a stand alone unit which will accept a variety of video signals in PAL, NTSC or SECAM format, captures a single frame and then outputs to a colour printer.

A video output is provided so that both the captured image and live video can be displayed. A serial port provides a link to a PC or MAC. Images can be printed, displayed or manipulated with the software provided. The unit features an on screen menu for system setup.



£299 ex vat £351.32 inc vat

SHINKO COLORSTREAM II

The new ColorStream II dye-sublimation PostScript super A and B size printers set new standards in quality, reliable and performance printing.

COLORSTREAM II DYE-SUB PRINTERS			
A3 Colour 3-pass Dye-sub	£8499		
A3 Colour 1-pass Dye-sub	£7950		
A3 Thermal transfer	£4950		
A4 Thermal transfer	£2950		
Colorstream A4 Dye-sub	Now £5995	£7044	12
Colorstream A3 Dye-sub	Now £11495	£13506	62



ASTRA 600S AND 610P INCLUDE ADOBE PHOTO DELUXE SOFTWARE - FREE!!

NEW - ASTRA 610P

PARALLEL & SCSI VERSIONS



The parallel version of the Astra 610 flatbed scanner features a through parallel port for printer connection, plus all the superb features of the Astra 600S SCSI version at a super low price!!

Amazing low price
30 bit scanner!!

- New single pass colour scanner
- 30-bit, over one billion colours
- 600 x 300 dpi optical resolution
- Easy-to-fit model
- User friendly

PARALLEL **£84 ex vat**
£98.70 inc vat

600S SCSI **£129 ex vat**
£151.58 inc vat

ASTRA 1210P FLATBED SCANNER



£169 ex vat
£198.57 inc vat

- 600 x 1200 dpi optical resolution
- New 30-Bit model
- Free Umax VistaScan software
- Adobe Photoshop LE **£30 + vat**

Astra 1200S Flatbed Scanner	£229	269.07
Astra 1200S with PhotoShop 4.0	£349	410.07
With PhotoShop & Transparency Adapter	£679	797.82
2nd year extended warranty for ASTRAS	£29.95	35.25

Canon		
BJC80	£141	166.68
BJC250	£102	119.85
BJC4200	£124	146.70
BJC620	£166	195.05
BJC4550	£190	223.25
BJC550	£484	568.70
BJ30	£122	143.35

EPSON		
Stylus 200 Mono	£105	123.37
Stylus 200 Colour	£111	130.42
Stylus 300 Colour	£106	124.55
Stylus 400 Colour	£133	156.27
Stylus 600 Colour	£169	198.58
Stylus 800 Colour	£243	285.53
Stylus Photo	£308	361.90
Stylus 1000	£292	343.10
Stylus 1520 Colour	£593	696.77
Stylus Colour 3000	£1118	1313.65
Postscript RIP	£89	104.57

HEWLETT PACKARD		
Deskjet 340C	£144	169.20
Deskjet 340CBI	£166	195.05
Deskjet 400L Colour	£86	101.05
Deskjet 870C	£121	142.18
Deskjet 690C+	£150	176.25
Deskjet 820Cxl	£153	179.78
Deskjet 870Cxl	£202	237.35
Deskjet 890C	£255	299.63
Deskjet 1600C	£871	1029.43
Deskjet 1600CN	£1110	1304.25
Deskjet 1600CM	£1280	1504.00
Deskjet 1100C	£285	334.88
Officejet 590	£339	398.33
Officejet Pro 1150C	£491	576.93

LEXMARK		
Colour Jetprinter 1000	£95	111.83
Colour Jetprinter 2030PE	£130	152.75
Colour Jetprinter 7000	£218	257.33

INKJET CARTRIDGES

Canon
CALL FOR EXCELLENT PRICES

EPSON		
Stylus 800/1000 Black	£9	10.57
Stylus 1500 Black	£26	32.90
Stylus 820/1115/200 Black	£14	6.45
Stylus II/115/200 Black	£18	21.15
Stylus 400/500/600 Black	£14	16.45
Stylus 200/500 Colour	£18	21.15
Stylus 800/1520 Black	£18	21.15
Stylus Photo 5 Colour	£14	16.15
Stylus 3000 Black	£38	44.65
Stylus 3000 Colours	£38	44.65
Stylus 4/6/800/1520 Colour	£14	16.45
Stylus Colour/Pro Black	£10	11.75
Stylus Colour/Pro Colour	£22	25.85
Stylus Pro XL+ Colour	£22	25.85

HEWLETT PACKARD		
DJ 500 Black	£15	17.62
DJ 500 Colour	£16	18.80
DJ 600/660/690	£16	18.80
DJ 600/660/690	£16	18.80
DJ 820/850/870/1600 Black	18.80	
DJ 820/850/870 Colour	£18	21.15
DJ 690 PhotoRealistic	£23	27.02
DJ 690 PhotoRealistic Kit	£29	34.07
DJ Port/310/320/340	£14	15.45

LEXMARK		
WinWriter 150 Black	£19	22.98
WinWriter 150 Colour	£26	30.55
ColourJet 1020	£20	23.60
ColourJet 2070 Black	£24	28.20
ColourJet 2070 Colour	£26	30.55
ColourJet 2050 Black	£19	22.98
ColourJet 2050 Colour	£26	30.55

FAX / MULTIFUNCTION

brother		
Brother Fax 1030	£309	363.07
Brother MFC 9000	£609	715.57
Brother FAX 510	£147	172.72
Brother FAX 1020	£255	299.62
Brother 520DT	£179	210.32
Brother FAX 8000P	£545	640.37

HEWLETT PACKARD		
OfficeJet	£341	400.67
OfficeJet 350 Multifunction	£416	468.80

GOLDSTAR		
GF 550	£128	150.40
GF 1110	£136	162.15
GF 3010 TAM	£218	258.15
LGf 1000	£289	338.57
LGf 2000	£305	358.37

OKI		
OKI Fax 4100	£489	574.57
OKI Fax 740	£339	398.33
OKI Fax	£435	511.12

SAMSUNG		
SF 40	£129	151.57
SF 100	£139	163.32
SF 1600	£195	229.12
SF 910 TAM	£189	222.07
SF 2900M TAM	£199	233.82
SF 4000	£289	339.57
SF 4100 Multifunction	£325	381.17
SF 4200 Multifunction	£399	468.82
SF 5600	£699	821.32

SHARP
SEE PAGE 18 for details

Panasonic
CALL FOR EXCELLENT PRICES

RANK XEROX

RANK XEROX have a history of excellence in document management - With products installed in many leading corporates worldwide. Now, as they focus on the direct channel, Tech Direct are proud to be able to supply their products. Their feature rich, price competitive products are already winning

DOCUPRINT 4512

TECH DIRECT LIMITED OFFER
FREE Docuprint XJ4C colour inkjet with any 4512 model.



Let the DocuPrint 4512 show you a new side of productivity. Xerox have included many features in this model as standard that are expensive options on printers from some other manufacturers: Duplex printing, 2 x 250 sheet paper input bins and a one year on site "swap out" warranty to name but a few.

- 600 x 600 dpi laser technology
- Up to 12ppm print speed
- Duplex standard - two sided printing
- Two built-in 250 sheet universal trays
- Long-life recyclable cartridges

NEW DOCUPRINT XJ4C

The XJ4C makes an excellent debut in the inkjet market for Xerox. Not only does it provide excellent value for money at £129 but its 4 colour head technology ensures running costs are kept low. Plus, the optional high capacity black turbo cartridge lets you print laser like quality at an incredible 6ppm. For superior colour documents, the XJ4C also utilises "SmartPrint" automatic image enhancement. If that's not enough, the XJ4C also provides "on screen feedback" to let you know when your ink is running low. No more "DOWN TIME" for your print jobs!

- 4 ink print head system
- On screen prompt for low ink
- Prints up to 6 ppm Mono 1.5 ppm Colour
- Suitable for both DOS and Windows Printers
- Free image software enhancement

£129 ex vat
£151.59 inc vat

DOCUPRINT C55

The No1 colour laser in the U.K here's why -



For colour laser technology that meets the demands of busy workgroups and high quality documents you expect from laser printing look to the most fully featured desktop colour laser printer for the price - the DocuPrint C55.

£2899 ex vat
£3406.32 inc vat

PC Plus, Editors Choice beating Lexmark, HP and QMS
"Xerox has come through with a stonking little colour laser printer, which offers a lot at a low price."

- 600 x 600 dpi colour and mono resolution
- Up to 12 pages per minute performance
- 30Mb standard memory - upgradable
- Multiple media versatility
- PCL 5C emulation, Adobe PostScript L2

Network World, Recommended against HP 55i mopler, Lexmark Optra S 2450n, QMS 2425Ex Print System
"Yes, even against the cream of monochrome printers, the C55 more than holds its own - it beats them!"

NEW HOMECENTRE

Colour printer, Colour Copier, Detachable Colour Scanner ALL IN ONE!



The Ultra compact, affordable Homecentre from Xerox only takes up the space of a typical printer, but is also a high quality full colour scanner and colour copier! The Homecentre comes bundled with scanning, creative & image enhancement software which allows you to get up and running immediately.

£339 ex vat
£398.33 inc vat

- Scanning, creative and image enhancement software
- High quality colour and monochrome output
- Copying up to 99 pages
- Plain paper fax with 14.4kbps transmission speed
- Up to 6ppm mono and 1ppm colour

4508	£449	527.57	4517	£849	997.57	4520 MP	£2799
4510	£795	934.12	4517 D	£999	1173.82	N24	£1599
4510MP	£1149	1350.07	4517 MP	£999	1173.82	N32	£1749
			4520	£1899	2231.33		

brother		
HL 730+	£199	233.83
HL 760	£229	269.08
HL 760 5Mb	£245	287.86
HL 1060	£399	469.83
HL 1260e	£599	703.83
HL 1260e 6Mb	£615	722.63
HL 1660	£699	811.33
HL 1660	£715	840.13
HL 1660ex	£925	1086.89

Canon		
LBP 660	£188	220.90
LBP 1260+	£698	820.15

EPSON		
EPL 5500 1Mb	£274	321.95
EPL 5500 2Mb	£319	374.82
EPL 5500 PS	£570	686.75
EPL 9000	£580	681.50
EPL 9000 PS	£982	1183.85
EPL N1200	£593	696.77
EPL N1200 EN	£791	929.41
EPL N1200 PS	£986	1188.55
EPL N2000	£1278	1501.69
EPL N2000	£1582	1868.85

HEWLETT PACKARD		
LaserJet 8L	£217	254.87
LaserJet 6P	£480	564.00
LaserJet 6MP	£592	695.40
LaserJet 4000	£749	880.08
LaserJet 4000T	£855	1004.63
LaserJet 4000N	£963	1131.51
LaserJet 4000TN	£1061	1246.63
LaserJet 4V	£1184	1391.26
LaserJet 4Mv	£1724	2025.70
LaserJet 5Si	£1691	1986.32
LaserJet 5SiNX	£1851	2174.92
LaserJet 5SiMX	£2328	2735.40
LaserJet 5Si Mopler	£4447	5225.22
LaserJet 5 Colour	£2861	3381.87
LaserJet 5M Colour	£3600	4230.00

KYOCERA		
FS 600	£239	286.32
FS 1550	£562	660.36
FS 3400	£769	903.68
FS 1700	£629	739.68
FS 1700N	£790	928.26
FS 3700	£849	981.88
FS 6500	£1169	1375.53
FS 7000	£1749	2065.08

LEXMARK		
Optra S1250	£655	769.82
Optra S1650	£769	893.67
Optra S1650N	£949	1115.07
Optra S2450	£1499	1761.32
Optra S2450N	£1749	2056.07
Optra SC1275 Colour	£2749	3230.07
Optra SC1275N Colour	£3049	3582.57

OKI		
OKIPAGE 4W Plus	£165	193.37
OKIPAGE 6e	£210	257.32
OKIPAGE 6ex	£270	321.32
OKIPAGE 810ex	£392	460.40
OKIPAGE 16N	£622	730.85

Panasonic		
KX P6300	£172	202.10
KX P6500	£232	272.60
KX P4440	£665	781.87
KX P7200	£1170	1381.32

Tally		
T 9108	£245	287.87
T 9208	£319	374.82
T 9014	£525	616.88

LASER TONERS

brother		
HL 630/631/660	£19	22.32
HL 730/760	£19	22.32
HL 1060/1660	£19	22.32
HL 1260	£70	82.25

Canon		
LBP 460	£40	47.00
LBP 1260	£63	74.32

EPSON		
EPL 5000/5200	£92	108.10
EPL 5500	£39	45.82

HEWLETT PACKARD		
LaserJet IIP/HP	£46	54.05
LaserJet II/HP	£42	49.35
LaserJet 4/4+5	£54	63.80
LaserJet 4L/4P	£39	45.82
LaserJet 4V	£84	98.77
LaserJet 5P/6P	£45	53.87
LaserJet 5L	£38	42.30
LaserJet 5Si	£95	111.82

KYOCERA		
FS 400	£15	17.62
FS 600	£26	30.55
FS 1550/1600/3400/3600	£44	51.90
FS 1700/3700	£39	45.82
FS 1700/3700 HiCap	£49	57.87

OKI		
OL 1200ex/Okipage 16n	£35	41.12
Okipage 4w	£18	21.15

Panasonic		
KX P4410/4430/4400	£28	33.80
KX P4400/4401/5400	£10	11.75
KX P6100/6150	£12	14.10
KX P6300/6500	£12	14.10

Tally		
T 9108/9208	£80	94.00

Printers - Faxes & Copiers



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EPSON

Printers - Faxes & Copiers



FREE Printing Media Package:
A4 Photo Quality Glossy Paper
A4 Photo quality Inkjet Paper
A6 Greeting cards Envelopes
4x6 Photo Paper Transfer T-Shirt
Self Adhesive Paper

Epson Stylus Color 400 And 600
Low cost Hi quality. Ideal for:
Business Presentations, Design
proofing, Documents, Letters,
Business Stationery, Photo-
reproduction, Envelops, Stickers
& 'T' Shirts.

EPSON STYLUS COLOR 400

The EPSON Stylus Color 400 produces 720 dpi output on plain paper providing superb colour output at an exceptional price - and for a limited period includes the Epson Fun Factory bundle.

- 720 dpi PhotoReal colour inkjet **£133 ex vat**
- Up to 3 pages per minute in colour **£156.27 inc vat**
- Up to 4 pages per minute in black
- Epson Quick-Dry inks - ideal for most media
- Windows compatible software with online help
- Class leading Epson MicroPiezo Technology
- 3 Year Extended Warranty £65 + VAT

EPSON STYLUS COLOR 600

The EPSON Stylus Color 600 produces high-definition 1440 dpi PhotoReal colour printing at an affordable price, making it ideal for any application demanding the ultimate results! Now includes the Epson Fun Factory bundle.

- 1440 dpi PhotoReal colour inkjet **£169 ex vat**
- Up to 4 pages per minute in colour **£198.58 inc vat**
- Up to 6 pages per minute in black
- Advanced dual ink cartridge system
- Fully Windows or Mac compatible
- Easy to use with in-built online help
- 3 Year Extended Warranty £65 + VAT

FREE
WITH THE EPSON STYLUS
400 & 600
PERFORMANCE PRINTERS

FREE Software PrintArtist v4 - imaging editing graphic software with 25 Funtastic Fonts, 100+ fab photos & 1000+ clip art images (Windows & Macintosh)

FREE LivePix Special Edition - Professional photo image editing software (Windows only)

FREE The Big Red Racing Game
(A seriously rapid rock and roll racing game where absolutely anything goes - fast and frantic fun!)

EPSON®



FREE WITH THE EPSON STYLUS

14

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LINES

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OPENING HOURS

9AM - 8PM Mon-Fri 9AM - 5PM Sat
10.30AM - 4.30PM Sun

EPSON



EPSON STYLUS COLOR 800

Combining 1440dpi PhotoReal colour printing with phenomenal print speeds - at 8ppm its as fast as a laser - the EPSON Stylus Color 800 is the ultimate performance printer for the busy office and graphics professionals.

£221 ex vat
£259.68 inc vat



- 1440dpi PhotoReal colour - no upgrades required
- Up to 7ppm colour, up to 8ppm mono printing
- EPSON Super MicroDot technology
- 720dpi plain paper printing
- Windows and Mac compatible
- Network + PostScript capability
- 3 Year Extended Warranty £65 + VAT

SUPER 1440dpi PRINTING

NEW

EPSON GT-5500

Other epson scanners see page

Compact 400 dpi, 30 bit colour scanner for business and home use



- Single pass, full 30 bit colour scanning
- TET (Text Enhancement Technology) for higher OCR accuracy
- AAS (Auto Area Segmentation) for accurate copying and faxing
- Complete, easy-to-use package including both hardware and software

£209 ex vat
£245.57 inc vat

EPSON STYLUS COLOR 300

A new low cost four colour inkjet printer for the home, home office or education establishments. With the single four-in-one-colour ink cartridge, you can achieve high quality colour and true BLACK output at an affordable price. Includes PhotoReal colour as standard.



- Up to 720dpi colour + true black printing
- Single four colour (CMYK) ink cartridge
- Up to 3ppm black and 1.2ppm colour
- EPSON Quick-Dry inks
- Designed exclusively for Windows
- EPSON autoColour function
- 3 Year Extended Warranty £40 + VAT

£106 ex vat
£124.55 inc vat

NEW 720dpi PRINTER

EPSON STYLUS PHOTO

The Epson Stylus Photo is the ultimate colour photo printer for homes, businesses and professionals.

- Photo Reproduction Quality output
- Optimised for photo reproduction
- Prints 4" x 6" format and enlargements to A4
- Normal and light colour QuickDry inks
- Up to 720 x 720 dpi resolution
- Free LivePix software for Win95/MAC
- 3 Year Extended Warranty £65 + VAT



£308 ex vat
£361.90 inc vat

NEW EPSON PhotoPC 600



£529 ex vat
£621.57 inc vat

The EPSON PhotoPC 600 makes high resolution digital photography a breeze. This latest EPSON digital camera has exciting **NEW** features.

- XGA Resolution up to 1024 x 768 pixels, 24 bit colour images
- Prints directly to the EPSON Stylus Photo - no PC required
- Displays presentations directly through video output - no PC required
- High Quality built-in 2" LCD colour viewfinder
- Digital zoom, panoramic, B&W and Macro image capture modes
- 4MB internal memory and external CompactFlash card (option 4MB, 15MB) for flexible image storage
- Picture works, Hotshots, PhotoEnhancer & Netcard, Presto, PhotoAlbum and EPSON Photo Suite software packages for Windows 95 and Power Macintosh computers



NEW One Box Solutions from EPSON

	ex vat	inc vat
Colour in Colour out (save over £20)		
EPSON Stylus Colour 400 & GT 5000	£263	309.02
PhotoStudio in a Box 1 (save over £80)		
EPSON Stylus Photo & Epson PhotoPC 600	£750	881.25
PhotoStudio in a Box 2 (save over £50)		
EPSON Stylus Photo & Epson FilmScan 200	£581	682.67

PhotoPC 500	£271	318.42	EPL5500 2Mb	£319	374.82
Stylus 200	£105	123.37	EPL5500PS	£570	669.75
Colour 200	£111	130.42	EPL9000	£580	681.50
Stylus Photo	£308	361.90	EPL9000PS	£982	1153.85
Stylus Pro XL+	£446	524.05	EPL-N1200	£593	696.77
Stylus 1000	£292	343.10	EPL-N1200EN	£791	929.42
Stylus 1520	£593	696.77	EPL-N1200PS	£986	1158.55
Stylus 3000	£1118	1313.65	EPL-N2000	£1278	1501.65
EPL-5500	£274	321.95	EPL-N2000PS	£1582	1858.85

EPSON DOT-MATRIX RANGE

* Professional features + simple operation is the trademark of the printers in Epson's range of dot-matrix models.



LX 300	£97	113.97	LQ 300	£115	135.12
LX 1050+	£200	235.00	LQ 570+	£216	253.80
FX 870	£247	290.22	LQ 670	£230	270.25
NEW FX 880	Call		LQ 870	£377	442.97
FX 1170	£307	360.72	LQ 2070	£330	387.75
FX 2170	£395	464.12	LQ 2170	£468	549.90
DFX 5000+	£1226	1440.55	DLQ 3000	£831	976.42
DFX 8000+	£1911	2245.42	NEW DLQ 3000+	Call	

PRICEMATCH

We will usually match or beat any price lower than our own

SALES LINES: 0181 286 2222
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CORPORATE SALES: 0181 286 2277

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Printers - Faxes & Copiers





HEWLETT PACKARD

HEWLETT PACKARD OFFICEJETS

HP OfficeJet 1150C

PRINTER:

- Superb colour and 256 greyscales
- 600 x 300 dpi colour, up to 4 ppm
- 600 x 600 dpi black, up to 8 ppm

COPIER:

- Digital copying in colour and black
- Near Photo Quality
- Up to 7 ppm in black
- Up to 3 ppm in colour
- Sizing adjustable 50% to 400%

SCANNER:

- 24-bit colour scanning
- 300 dpi optical resolution
- 1200 dpi enhanced resolution
- Includes HP PictureLink for Win 95
- Includes Adobe PhotoDeluxe image software
- Includes Caere OmniPage LE OCR
- Connects via Parallel port



£491 ex vat £576.93 inc vat

WITH 3YR ON - SITE SUPPORT PACK

£610 ex vat £716.75 inc vat

NEW - HP OfficeJet 590 - NEW

PRINTER:

- 600 x 300 dpi colour up to 2 ppm
- 600 x 600 dpi black up to 5 ppm
- Prints on plain paper, transparencies and glossy

COPIER:

- 256 greyscale copying
- Size adjustable 50% to 200%
- Up to 99 copies

SCANNER:

- 300 dpi optical resolution
- 600 dpi enhanced resolution
- 256 greyscale scanning
- Includes Caere OmniPage LE OCR

FAX:

- 100 number speed dialling
- 65 page memory
- 20 page document feeder
- 14,400 bps send speed
- Auto redial, delayed dialling



£339 ex vat £398.33 inc vat

WITH 3YR ON - SITE SUPPORT PACK

£404 ex vat £474.70 inc vat

hp HEWLETT PACKARD

HP LaserJet 5Si

- 24 page per minute throughput
- 600 x 600 dpi plus enhancement
- 4Mb memory (optional to 132Mb)
- HP JetAdmin software
- Intelligent media handling



£1649 ex vat
£1937.57 inc vat



WITH 3YR HP SUPPORT PACK

HP LaserJets

	EX VAT	INC VAT	EX VAT	INC VAT
HP LASERJET 6L	£232	272.60	£307	360.72
HP LASERJET 6P	£480	564.00	£619	727.32
HP LASERJET 6MP	£592	695.60	£731	858.92
HP LASERJET COMPANION	£138	162.15	Call	Call
HP LASERJET 5	£674	791.95	£854	1003.45
HP LASERJET 5N	£847	995.22	£1027	1206.72
HP LASERJET 5M	£997	1171.47	£1177	1382.97
HP LASERJET 5SIMX	£2249	2642.57	£2778	3264.15
HP LASERJET 5SINX	£1799	2113.82	£2328	2735.40
HP LASERJET 5SIMOPIER	£4326	5083.05	£5055	5939.62
HP LASERJET 4000	£749	880.08	£929	1091.58
HP LASERJET 4000T	£855	1004.63	£1035	1216.13
HP LASERJET 4000N	£963	1131.53	£1143	1343.03
HP LASERJET 4000TN	£1061	1246.68	£1241	1458.18
HP LASERJET 4MV	£1724	2025.70	£1959	2301.82
HP LASERJET 5 COLOUR	£2861	3361.67	£3800	4465.00
HP LASERJET 5M COLOUR	£3600	4230.00	£4539	5333.32

HP DeskJet 820Cxi

- Professional mono and colour inkjet
- 600dpi black, 600 x 300 dpi colour
- 4 ppm per minute in Best Mode
- Microsoft Windows 95 and 3.x compatible



£153 ex vat
£179.77 inc vat



ColorSmart™



WITH 3YR HP SUPPORT PACK

HP DeskJets

	EX VAT	INC VAT	EX VAT	INC VAT
HP DESKJET 340 Colour	£144	169.20	£183	215.02
HP DESKJET 340 CBI	£166	195.05	£205	240.87
HP DESKJET 400 L Colour	£86	101.05	£125	146.87
HP DESKJET 670 Colour	£121	142.17	£160	188.00
HP DESKJET 690C+	£150	176.25	£190	223.25
HP DESKJET 820Cxi	£153	179.78	£218	256.15
HP DESKJET 870Cxi Colour	£202	237.35	£267	313.72
HP DESKJET 890c <i>New!!</i>	£255	299.62	£320	376.00
HP DESKJET 1100c <i>New!!</i>	£285	334.87	£324	380.70
HP DESKJET 1600 C	£871	1023.42	£976	1146.80
HP DESKJET 1600 CM	£1280	1504.00	£1385	1627.37
HP DESKJET 1600 CN	£1110	1304.25	£1215	1427.62

HP Plotters

HP DESIGNJET 700 A1	£2317	2722.47	Call
HP DESIGNJET 700 A0	£2767	3251.22	Call
HP DESIGNJET 750C A1/D	£3142	3691.85	Call
HP DESIGNJET 750C A0/E	£3742	4396.85	Call
HP DESIGNJET 755CM A0	£5017	5894.98	Call
HP DESIGNJET 2000CP	£5392	6335.60	Call
HP DESIGNJET 2500CP	£6292	7393.10	Call



ALL YOU NEED FROM A PRINTER IN BLACK & WHITE

NEW - KYOCERA FS-600 LASER PRINTER

The FS-600 is the newest edition to Kyocera's superb range of personal and shared laser printers. Featuring a super fast processor to ensure rapid delivery of the first page and continual printing. Robust design and construction and it's low-cost modular upgrade options ensure it's long term value and use and makes it ideal as a personal or shared laser printing solution.



- 600dpi, 6ppm laser printer
- Cartridge - free technology
- 50MHz PowerPC processor
- Internal 150 - sheet cassette
- Ethernet/serial interface options
- IEEE 1284 parallel plus option port

Upgrade Options:

Paper feeder	£119	139.82
Serial Interface	£26	30.55
Ethernet I/F	£99	116.32
Toner refill	£26	30.55

Warranty Options:

1-year on-site	£49	57.57
3-year on-site	£99	116.32

£239 ex vat £280.82 inc vat

CHECK THE SPEC!!
Fantastic value for money new model!

Ecosys FS-1550 10ppm	£562	660.35
Ecosys FS-3400 18ppm	£769	903.58
Ecosys FS-6500 13ppm A3 printer	£1169	1373.58
Ecosys FS-7000 28ppm	£1749	2055.08

KYOCERA NETWORK LASER PRINTERS

Easy-to-install and setup, Kyocera's two network laser printers, the FS-1700 and the FS-3700 provide a superb multi-user printing solution. At just 0.4 pence per page they provide an ultra low cost of ownership. With intelligent features such as the ability to overlay fonts, forms and logos and with clear upgrade paths via modular paper handling options the FS-1700 and FS-3700 prove excellent all round network printers.

- 12ppm and 18ppm network laser printers
- 6Mb memory plus memory enhancement
- Pre-installed multi-protocol Ethernet interface
- Fully SNMP compliant/Windows plug & play
- High speed parallel and serial interfaces
- Supported by Kyocera PrintMonitor management utility
- 250 sheet standard cassette plus 100 sheet multi-purpose feed

Upgrade Options:

500 sheet cassette	£190	223.25
Compact cassette	£190	223.25
Duplex upgrade	£490	575.75
15-bin sorter/stacker	£1155	1357.13
1500 sheet bulk stacker	£615	722.63
Regular toner refill	£39	45.82
High capacity refill	£49	57.57

Warranty Options:

1-year on-site	£99	116.32
3-year on-site	£199	233.82



Kyocera FS-1700 (12 PPM)	£629 ex vat	£739.08 inc vat	Kyocera FS-3700 (18 PPM)	£849 ex vat	£997.58 inc vat
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Printers - Faxes & Copiers



PRICEMATCH

We will usually match or beat any price lower than our own

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brother®

The future at your fingertips

NEW - BROTHER MC-3000 - NEW

MC-3000 Colour Multi-function Printer



NEW

- 3-in-1 printer/copier/scanner
- Up to 720 x 720 dpi output
- Up to 2.5 ppm in colour
- Up to 5 ppm in black
- 200 sheet input tray
- 30 sheet auto-feeder
- Handles plain paper, glossy transparencies + envelopes
- 24-bit roller scanner built-in

£449 ex vat
£527.58 inc vat

OTHER BROTHER LASERS

HL 1260e 12ppm, 2Mb	£599	703.82
HL 1260e 12ppm, 6Mb	£615	722.62
HL 1660 16ppm, 4Mb	£699	821.32
HL 1660 16ppm, 10Mb	£715	840.12
HL 1660ex 10Mb, Networked	£925	1086.87

NEW - BROTHER HL-730 plus - NEW

- Fast 6 pages per minute
- 600 dpi printing in Windows
- GDI mode for Windows
- PCL4 emulation for DOS
- 24 Bmp + 35 TrueType fonts
- 200 sheet straight paper path
- Optional networking interface
- 1 MB of RAM
- Intelligent sleep mode
- email printing software



£199 ex vat
£233.82 inc vat

BROTHER HL-760

- New 6 page per minute laser printer
- 1200 x 600 dpi printing in Windows
- Microfine toner - improved resolution
- Enhanced Memory Management
- 200 sheet multi-purpose feeder
- TrueType scaleable fonts on disk
- HL760 5Mb **£245 + vat**



£229 ex vat
£269.07 inc vat

BROTHER HL-1060



- 10 ppm laser printer
- 1200 x 600 dpi resolution
- High Res Microfine toner
- Straight Paper Path
- Enhanced Memory Manager
- 2x200sht multi-purpose feeder
- TrueType scaleable fonts **£399 ex vat**

£468.82 inc vat

SHARP

FO-1450 FACSIMILE



The SHARP FO-1450 is a compact personal facsimile, ideal in domestic, home and small business environments. The FO-1450 uses plain paper and thermal ink film transfer technology. The FO-1450 has an extremely low profile as well as a small footprint for minimal space usage.

£215 ex vat £252.62 inc vat

- 300 sheet drawer capacity
- 20 sheet auto document feeder
- 2 in 1 print function
- Standard 512 KB memory
- Substitute reception
- Help function
- 64-level halftone control
- Anti-junk fax function
- Answering machine hook-up
- Broadcasting
- Extension telephone transfer
- Memory transmission
- 9 second transmission
- 20 one touch, 79 two touch dialling
- Timer transmission
- Superfine resolution
- Error correction mode
- Electronic telephone directory

UX-70 FACSIMILE



The SHARP UX-70 is a compact personal facsimile, ideal in domestic, home and small business environments. The UX-70 is approximately 2cm smaller than its predecessor and features new soft touch keys.

£129 ex vat £151.57 inc vat

- Answerphone hook-up
- 5 one touch, 10 two touch dialling
- Auto fax/phone changeover
- Extension phone transfer
- 15-sheet auto document feeder
- Copier function
- Auto-redial
- Polling function
- 20 second transmission

SHARP FACSIMILE RANGE

UX-70	£129	151.57	FO-1450	£215	252.62
UX-75	£145	170.38	FO-2600	£449	527.58
UX-81	£159	186.83	FO-2700M	£489	574.58
UX-85	£189	222.08	FO-4850	Call	

brother

FAX MACHINES

NEW - BROTHER FAX 1030

- Plain paper fax
- Fixed cost per copy
- Transmission report on request
- 20 sheet document feeder
- Optional PC interface
- Caller line identification
- Personal copy mode
- 20 page memory
- 60 speed dial stations
- 64 grey scales
- Fax forwarding and retrieval
- Image smoothing function
- 200 sheet paper cassette
- Answering machine interface
- Error correction mode



£309 ex vat £363.07 inc vat

BROTHER MFC-9000

- 6 second transmission speed
- Broadcasting function
- 60 page memory
- 36 speed dial buttons
- 64 level grey scale
- 200 sheet A4 paper cassette
- Reduce/enlarge 50-200%
- Editable cover page
- Telephone index
- Auto document feeder



£609 ex vat £715.57 inc vat

OTHER BROTHER FAXES

FAX-510	Thermal Fax	£147	172.72
FAX-1020	Thermal Fax	£255	299.62
520DT	Fax/Answering Machine	£179	210.32
FAX-8000P	Plain Paper Laser	£545	640.37



OKI



People to People Technology

OKI PAGE 16N

A super-fast printer which offers top-quality output. The ideal choice for demanding office environments, and a double award winner in the latest review.

QUALITY AND VALUE WINNER - PC PRO NOVEMBER '97

The OkiPage 16N not only won the prestigious PC Pro printer review for both Value and Quality - but actually scored an unbelievable 6 out of 6 in every category. The toner and drum are separate in the 16N to also save considerable money on your running costs, and according to the PC PRO review the engine runs 13% faster than its closest rival, the HP Laserjet 5M. The PC Pro overall verdict was as follows: 'A super-fast printer which offers top-quality output. The ideal choice for demanding office environments, and a double award winner.'



- 16 pages per minute at 600 x 600 dpi
- Network and Postscript cards installable
- PCL5e (HP LaserJet 4 compatible)
- 6 Mb as standard (up to 66 Mb)
- 45 scalable fonts x 3 bitmap fonts
- High capacity 500 sheet tray

£622 ex vat
£730.85 inc vat



PC PRO	PERFORMANCE	★★★★★
	QUALITY	★★★★★
PC PRO	VALUE FOR MONEY	★★★★★
	OVERALL	★★★★★

OKIPAGE 6e

- 600 dpi class resolution with MicroRes 600
- Standard 1Mb memory expandable to 18Mb
- Drivers for Win3.x, Win95 & Windows NT
- Separate toner and drum units
- Toner Recycling System
- Energy Star approved
- Optional 2nd paper cassette
- 45 Scaleable fonts



£219 ex vat
£257.32 inc vat

OKIPAGE 4W PLUS

- **New** LED 4ppm personal page printer from OKI
- Excellent alternative to a network laser
- Fast high quality text and graphics output
- Improved paper guide system and cover latch
- 600 dpi class with MicroRes 600
- Improved Windows 3.x/95 driver
- New Windows NT 4.0 driver



£165 ex vat
£193.87 inc vat

THE RANGE OF OKI PRINTERS

OKIPAGE 6e - 600dpi, 6ppm, PCL5e	£219	257.32
OKIPAGE 6ex - 1200dpi, 8ppm, PCL5e, 2Mb	£279	327.82
OKIPAGE 810ex - 600dpi, 8ppm, PCL5e, 2Mb	£392	460.60
OKIPAGE 4W Plus - 600 dpi, 4ppm	£165	193.87
OKIPAGE 16N - 600 dpi, 16ppm	£622	730.85

OKI DOT-MATRIX RANGE

ML280	£192	225.60	ML3320	£325	381.88
ML320P	£308	361.90	ML3390	£345	405.38
ML321P	£367	431.23	ML3321	£379	445.33
ML380P	£224	265.20	ML3391	£395	464.13
ML385	£319	374.83	ML521P	£399	468.83
ML395M	£544	756.70	ML590P	£439	515.88
ML395C	£715	840.13	ML591P	£509	598.02
ML520P	£337	395.88	ML3410	£810	951.75

OKI FAX MACHINES

OKIFAX 4100

The OKIFAX 4100 is a high-quality, high performance desktop LED facsimile, perfect for use in small and home offices and for personal desktop use.



- Fast 14.4k modem speed
- 100 sheet paper capacity
- Memory expandable to 75 pages
- Separate toner and drum
- Advanced dialling features
- Power save mode
- Energy saving system

£489 ex vat
£574.57 inc vat

OKIFAX 740

The OKIFAX 740 is ideal for the small office, workgroup or business, offering all the convenience of plain paper faxes with the quality and economy of inkjet printing.



- 150 page plain paper handling
- Telephone/facsimile auto switch
- Error correction mode (ECM)
- 512Kb memory (upgradeable to 1.5Mb)
- 18 seconds per A4 sheet
- 10 one touch numbers
- 50 autodial numbers

£339 ex vat
£398.32 inc vat

OKIFAX 740MF

The OKIFAX 740mf is now offered at this incredible price for a limited period, offering 2 in 1 functionality for plain paper faxing and inkjet printing in mono or full colour!



PRICE CRASH!!

- 18 secs/page transmission speed
- 600 dpi mono/300dpi colour printing
- Autodial: 10 one-touch/50 speed-dial
- Print speeds up to 3 ppm mono
- Compact and space saving design
- Windows 3.11 and 95
- 150 sheet paper capacity

£349 ex vat
£410.08 inc vat

PRICEWATCH

We will usually match or beat any price lower than our own

SALES LINES: 0181 286 2222
FAX LINE: 0181 286 0200
CUSTOMER SERVICES: 0181 286 2286
CORPORATE SALES: 0181 286 2277

tech direct

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Printers - Faxes & Copiers





- 21" colour monitor with 20" diagonal viewable area
- 0.28mm aperture pitch
- 1600 x 1200 resolution at 85Hz
- Sonic Tron™ vertically flat screen
- Super Contrast screen



- PC and Mac compatible
- Maximum resolution 1280 x 1024
- 0.28mm dot pitch
- 35cm diagonal viewing
- Anti-glare, anti-static screen treatment
- OnView controls
- Plug & Play for Win 95
- EPA Energy Star and MPRII compliant



- OnView controls
- ViewMatch colour control
- TCO, MPRII and Energy Star compliant

£899 ex vat
£1056.33 inc vat

£179 ex vat
£210.33 inc vat



- 17GA**
- PC and Mac compatible
 - 17" colour monitor with 40.6cm diagonal viewable area
 - Displays 1,024 x 768 pixels at 85Hz refresh
 - Provides maximum resolutions of 1,280 x 1024 and refresh rate as high as 160Hz



- 15GA**
- PC and Mac compatible
 - 15" colour monitor with 35.6cm diagonal viewable area screen coating
 - Plug & Play for Win 95
 - Hi Fi dome speakers built into bezel
 - Internal microphone**
 - Headphone jack and external microphone port
 - Displays 1,024 x 768 pixels at 85Hz refresh
 - Provides maximum resolutions of 1,280 x 1024 and refresh rate as high as 160Hz

- E641**
- PC and Mac compatible
 - Maximum resolution 1024 x 768
 - 0.28mm dot pitch
 - 33.3cm diagonal viewing
 - Anti-glare, anti-static screen treatment
 - Digital controls
 - Plug & Play for Win 95
 - EPA Energy Star and MPRII compliant



- Hi Fi dome speakers built into bezel
- Internal microphone**
- Headphone jack and external microphone port
- Plug & Play for Win 95

£399 ex vat
£468.83 inc vat

£109 ex vat
£128.08 inc vat



- 15GS**
- PC and Mac compatible
 - 15" colour monitor with 35.6cm diagonal viewable area
 - Energy Star compliant
 - Screen definition aided by 0.27mm dot pitch and anti-glare screen coating
 - Plug & Play for Win 95

£225 ex vat
£264.38 inc vat

- 17GS**
- PC and Mac compatible
 - 17" colour monitor with 40.6cm diagonal viewable area
 - Displays 1,024 x 768 pixels at 86Hz refresh
 - Screen definition aided by 0.27mm dot pitch and anti-glare screen coating

£379 ex vat
£445.33 inc vat



Provides maximum resolutions of 1280 x 1024 and refresh rate as high as 160Hz
 • Plug & Play for Win 95



1569SE 15" MONITOR

1569MS 15" MONITOR

1769MS 17" MONITOR



- 15" flat square display
- 13.8" viewable image
- 0.28mm dot pitch
- 1280 x 1024 @ 60Hz
- On-screen display
- Plug & Play compatible
- Energy Star compliant
- MPRII, TCO 92, CE

- 15" flat square display
- 13.8" viewable image
- 0.28mm dot pitch
- 1280 x 1024 @ 60Hz
- On-screen display
- Integrated speakers
- Microphone jack
- EPA, TCO 92, CE

- 17" flat square display
- 15.7" viewable screen
- 0.28mm dot pitch
- 1280 x 1024 @ 60Hz
- On-screen display
- Integrated speakers
- Energy Star compliant
- MPRII, CE

£155 ex vat
£182.43 inc vat

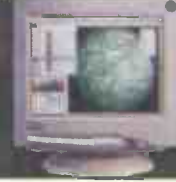
£198 ex vat
£232.65 inc vat

£319 ex vat
£374.83 inc vat

1785S 17" MONITOR

1785XE 17" MONITOR

2185XE 21" MONITOR



- 17" flat square display
- 15.7" viewable image
- 0.26mm dot pitch
- 1600 x 1200 @ 70Hz
- On-screen display
- Plug & Play compatible
- Energy Star compliant
- MPRII, CE

- 17" flat square display
- 15.7" viewable image
- 0.26mm dot pitch
- 1600 x 1200 @ 70Hz
- On-screen display
- Plug & Play compatible
- BNC Connectors
- TCO 92, MPRII, CE

- 21" flat square display
- 20" viewable image
- 0.26mm dot pitch
- 1600 x 1200 @ 70Hz
- On-screen display
- Plug & Play compatible
- BNC Connectors
- TCO 92, MPRII, CE

£299 ex vat
£351.33 inc vat

£329 ex vat
£398.58 inc vat

£849 ex vat
£997.58 inc vat



XPERT@Work

XPERT@Work is the most powerful graphics accelerator for corporate and small business, with fast 2D and 3D performance, three times that of previous boards and the best video acceleration for the price on the market. Designed as the ideal accelerator for business applications, the XPERT@Work provides levels of visual display not previously available to the business user in a mainstream priced board.



- ▶ The fastest performance for greater productivity in Windows NT and Windows 95
- ▶ Up to 8MB of ultra fast SGRAM for high resolution and true colour acceleration
- ▶ A huge 230 Mhz RAMDAC
- ▶ Optimised for the best performance on Pentium IVPRO systems
- ▶ Flicker-free images at up to 200Hz refresh rate to eliminate eye strain
- ▶ Rock solid stability and worry free compatibility with ATI's Microsoft certified drivers
- ▶ Available in 2MB and 4MB upgradeable or 8MB memory configurations

4MB	£129 ex vat	£151.57 inc vat	8MB	£179 ex vat	£210.32 inc vat
OEM 4MB	£99 ex vat	£116.33 inc vat	OEM 8MB	£125 ex vat	£146.88 inc vat



XPERT@Play

XPERT@Play sets a new standard for 3D gaming, multimedia and entertainment applications. "Best of Breed" design uses a single card/slot solution to provide high powered, fully featured 3D performance for intense gaming.

- ▶ A huge 230 Mhz RAMDAC
- ▶ 4KB on-chip texture cache
- ▶ Microsoft certified drivers
- ▶ High performance 3D, 2D and video acceleration with TV-out display
- ▶ Brute force 3D acceleration with over 1 million triangles per second with setup engine, texture cache and more
- ▶ DVD quality full screen, full motion video
- ▶ Floating point set up engine, up to 1.2 million triangles per second
- ▶ Superior 3D quality with bilinear filtering, alpha blending and special effects
- ▶ Great gaming in Windows 95 (Direct 3D, DirectDraw) and DOS
- ▶ Connect to a large screen TV for truly engrossing game play, or record your stratospheric scores on a VCR
- ▶ Includes the hottest games - Formula 1, Terraclade and WIRL



4MB	£149 ex vat	£175.07 inc vat	8MB	£199 ex vat	£233.82 inc vat
OEM 4MB	£109 ex vat	£128.08 inc vat	OEM 8MB	£147 ex vat	£172.73 inc vat

MYSTIQUE

The Complete Windows, 3D and Video Accelerator

- Fast Windows, 3D and Video at up to 1600X1200 resolution
- Powerful single-ported SGRAM memory upgradeable to 8MB
- New high speed 220 MHz RAMDAC
- 5 free software titles included
- Upgradeable with Matrox Rainbow Runner series if video add-on's 4MB

£73 ex vat £85.78 inc vat

COMBO



Rainbow Runner plus Mystique 220 4Mb

£179 ex vat £210.33 inc vat

OEM Millennium II 4Mb	£99	116.33
OEM Millennium II 8Mb	£149	175.08
Millennium II 4Mb	£107	125.73
Millennium II 8Mb	£162	190.35

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- Support for a wide number of Direct 3D games
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Explosive Acceleration for 3D Games

Dedicated 3D accelerator for arcade-level performance

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- Accelerates PowerVR and Direct3D titles
- Included: Tomb Raider, WipeOut 2097, Ultimate Race, Mech Warrior, Terracide
- NEC/VideoLogic PCX2 PowerVR 3D processor
- Works with any Win95 accelerator card via Microsoft DirectX 3.0
- 4MB of high performance SDRAM texture memory on board
- Minimum requirement: P133 with 24MB

GrafixStar 550 2Mb 2D/3D	£56	68.14
GrafixStar 550 4Mb 2D/3D	£78	89.29
GrafixStar 600 2D	£58	68.14
Apocalypse 3D Accelerator	£45	52.87
Apocalypse 3DX Accelerator	£99	116.32
Apocalypse 5D Accelerator	£137	160.97
Captivator PCI/V C Videophone	£149	175.07

MONITORS

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15HX 15"	£245	£287.87	£889	£1021.06	£105
87TXV 17"	£395	£464.12	£719	£845.82	£139
87TXM 17"	£455	£534.52	£929	£1091.58	£159
91TXM 21"	£995	£1184.12	£314	£366.99	£289
			£1038	£1220.84	£358
			£1569	£1843.58	£429
					£575
					£925
					£969.37
					£199
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					£269
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					£244.88
					£405
					£440.62
					£419
					£462.32
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					£115.07
					£379
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					£419
					£462.32
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- Flicker free up to 1024 x 768 @ 75Hz
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- Low emission MPRII standards
- EPA Energy Star power management
- DDC 1/2B for optimal video configuration
- Digitally controlled geometric adjustment

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105S 15"	£155	£182.13	107BR 17"	£439	£515.82	201BRC 21"	£1569	£1842.57
105B 15"	£189	£222.07	20C 20"	£579	£680.32	29PX 29"	£1569	£1842.57
105BR 15"	£219	£257.32	200B 20"	£649	£762.57	33PX 33"	£1999	£2348.82

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- Proliant 1500/R,
- 4500/R, 5000/R

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- 166MMT, 200+97-1B
- 200M System 97-3, 97-5

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	£-	£24.67	£41.12	£61.10	£123.37	£358.37
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	£-	£16.45	£25.85	£42.30	£78.72	£346.5
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	£-	£16.45	£25.85	£42.30	£123.37	£346.5
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			10		
			11.75		
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	10	18	36	70	--
	11.75	21.15	42.30	82.25	--
72 PIN PARITY	4Mb	8Mb	16Mb	32Mb	64Mb
	15	30	42	83	--
	17.62	35.25	49.35	97.52	--
72 PIN EDO	4Mb	8Mb	16Mb	32Mb	64Mb
	10	23	40	77	--
	11.75	27.02	47.00	90.47	--

Memory



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CREATIVE LABS					
CR-585B	IDE	24	Int	£51	59.93
TECH DIRECT					
8X Speed IDE	IDE	8	Int	£32	37.80
16X Speed IDE	IDE	16	Int	£41	48.19
24X Speed IDE	IDE	24	Int	£48	56.40
GOLDSTAR					
GCD-R8240	IDE	24	Int	£61	71.66
MITSUMI					
FX-400	IDE	Quad	Int	£23	27.02
FX-800	IDE	8	Int	£33	38.75
FX-160	IDE	16	Int	£42	49.38
FX-240	IDE	24	Int	£49	57.88
PANASONIC					
CR-585	IDE	24	Int	£51	59.93
CR-506	SCSI	8	Int	£49	57.88
PLEXTOR					
PX-20T51 Tray Loading	SCSI	20	Int	£104	122.20
PX-20T5E Tray Loading	SCSI	20	Ext	£164	192.70
Models					
Interface	Speed	In/Ext	Bare Drive	Software Only	S/W & SCSI Card
CD RECORDING					
MITSUMI					
CR2600TE	IDE	6x/2x	Int	£189	
NOMAI					
CD-RW	IDE	6x/2x	Int	£308	354.00
CD-RW	SCSI	6x/2x	Int	£308	354.00
CD-RW	SCSI	6x/2x	Ext	£374	438.00
CD-RW	Parallel	6x/2x	Ext	£348	407.00
SONY					
MP 6200 CD-RW	SCSI	6x/2x	Int	£298	344.00
MP 6200 CD-RW	SCSI	6x/2x	Ext	£338	384.00
SONY					
CDU-928E	IDE	8x/2x	Int	£224	

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SureStore CD-Writer PLUS 7100 external	£279	327.82
SureStore CD-Writer PLUS 7100 internal	£229	269.07
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HP Rewritable CD X3	£44	51.70
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CDR400t 4X-write 6X-read internal retail kit	£335	393.62
CDR400tx 4X-write 6X-read external retail kit	£368	432.10
CDR200t 2X-write 6X-read internal retail kit	£223	262.02
CDR200tx 2X-write 6X-read external retail kit	£268	314.90

Yamaha CDR kit contents: Yamaha CDR Recorder, Yamaha-Certified CD Recorder software, SCSI ribbon cable, Audio cable, 2 x Yamaha 74 min CD Recordable disks, User Installation guide, mounting screws / jumper.

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WebCam	£99	116.33
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VideoBlaster RT300	£199	231.83
Action Blaster	£25	29.38
MIDI Cable	£19	22.25
Hands Free Microphone	£19	22.25
3D Blaster PCI	£59	69.38

SAMSUNG SCR 2340 24X £52 61.10

PHILIPS

CDD 2600	6X/2X	£198	232.45
CDD 2600E	6X/2X	£228	267.40
CDD 3610 CD-RW	6X/2X	£288	336.40
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10146	Tape Connect 4000/8000 MB, TR-4 drive, Parallel & SCSI	£509	598.08
10151	PD Connect Panasonic PD drive, 650 MB optical and 4X speed CD-ROM, Parallel & SCSI	£389	457.08
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10812	CD-Rec Connect, 2X write/6X read, parallel & SCSI, incl. Adaptec Easy CD Creator/ Direct CD & 2 CD-R Disks	£314	368.95
11626	CD-RW Connect-PS, 2X write/ 6X read, parallel & SCSI, includes Easy CD Creator/ Direct CD & 1 CD-RW Disk	£356	418.30



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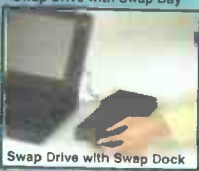
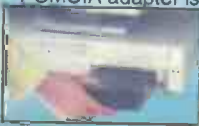
		ex Vat	inc Vat
10448	DAT Satellite external SCSI - DDS-1, 2GB, includes Seagate Backup for Windows 3.x/95 and DOS	£509	598.08
10451	DAT Satellite external SCSI - DDS-1, 2-4GB, includes Seagate Backup for Windows 3.x/95 and DOS	£529	621.58
10445	DAT Satellite external SCSI - DDS-2, 4-8GB, includes Seagate Backup for Windows 3.x/95 and DOS	£659	774.33
10454	DAT Satellite external SCSI - DDS-3, 12-24GB, Includes Seagate Backup for Windows 3.x/95 and DOS	£929	1091.58
10695	PD Satellite, external SCSI Panasonic PD drive 650 MB optical + 4X speed CD-ROM	£244	286.70
11627	CD-RW Satellite, external SCSI CD-ReWritable 2X (re)write, 6X read	£297	348.98
10816	CD-Rec. Satellite, external SCSI CD-Recorder 2X write, 6X read	£239	280.83
10671	MO Satellite, external SCSI - 640 MB rewritable optical	£328	385.40

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11211	Swap Dock - PS, for external connection to the parallel port & SCSI controller (PCMCIA optional)	£59	69.33
11212	Swap Bay - PS, for internal connection (directly to SCSI controller)	£19	22.33
11292	Swap Disk Drive - PS, harddrive 2.1GB for use with Swap Dock or Swap Bay	£229	269.08
11293	Swap Disk Drive - PS, harddrive 4.3GB for use with Swap Dock or Swap Bay	£319	374.83
10695	Swap ZIP Drive - PS, 100MB for use with Swap Dock or Swap Bay	£119	139.83
11288	Swap JAZ Drive - PS, 1GB for use with Swap Dock or Swap Bay	£159	186.83
11290	Swap Syjet Drive - PS, 1.5GB for use with Swap Dock or Swap Bay	£215	252.63
11296	Swap Tape Drive - PS, 8GB TR-4 for use with Swap Dock or Swap Bay	£263	309.03



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Zip Drive SCSI	£85	99.87	Zip Disk 6 Pack	£50	58.75

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- Faster than most hard drives
- Easy to use Jaz Tools software
- Eliminate the anxiety of drive upgrades

Jaz Internal 1Gb	£194	227.95	Jaz Disk Single	£60	70.50
Jaz External 1Gb	£254	298.45	Jaz Disk 3 Pack	call	

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The Ditto tape drive makes backing up your stuff easier than ever and without waiting!

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- One-step easy backup
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Ditto 2Gb Internal	£59	69.32	Ditto 3.2Gb Int	£104	122.20
Ditto 2Gb External	£89	104.57	Ditto 3.2Gb Ext	£119	139.82

hp PACKARD

HP COLORADO		
T3000I Internal 3.2GB	£109	128.08
T4000S Internal 8GB	£223	262.03
T4000ES External 8GB	£285	334.88
T4I 8GB Internal Streamer	£245	287.87
HP SURESTORE DAT PRODUCTS		
HP SURESTORE 2000I	£439	515.83
HP SURESTORE 2000E	£523	614.53
HP SURESTORE 5000I	£489	574.58
HP SURESTORE 5000E	£549	645.08
HP SURESTORE DAT 8I	£615	722.63
HP SURESTORE DAT 8E	£669	786.08

Seagate

All Tapestor products come with one free tape except Tapestor 3200ext parallel

Seagate Tape Products		
Tapestor 3200 INT TR3	£106	124.56
Tapestor 3200 EXT Parallel	£109	128.08
Tapestor 8000 INT SCSI	£209	245.57
Tapestor 8000 INT IDE	£209	245.57
Tapestor 8000 EXT SCSI	£269	316.07
Scorpion STD 2400N 4GB	£349	410.08
Scorpion STD 2800N 8GB	£459	539.33

SyQuest

SyJet 1.5Gb Parallel Port - Ext	£278	326.65
SyJet 1.5Gb SCSI - Ext	£278	326.65
SyJet 1.5Gb SCSI - Int	£211	247.93
SyJet 1.5Gb EIDE - Int	£211	247.93
EZFlyer 230Mb Parallel Port - Ext	£115	135.13
EZFlyer 230Mb SCSI - Ext	£115	135.13
EZFlyer 230Mb EIDE - Int	£115	135.13
SYQUEST MEDIA		
SyJet 1.5Gb Cartridge	£78	91.65
SyJet 1.5Gb Cartridge - 3 pack	£199	222.08
EZFlyer 230Mb Cartridge	£17	19.98
EZFlyer 230Mb Cartridge - 5 pack	£76	89.30

Panasonic

LS-120 Disk Drive

- High performance
- Five times faster than standard 1.44Mb drives when using LS-120 diskettes
- Three times faster than standard drives when using existing 1.44Mb diskettes
- Interchange
- 120Mb interchange among LS-120 users
- Data interchange operations identical to existing diskettes - 120Mb/1.44Mb/720Kb
- Functions as standard Drive A
- Can act as a Boot drive
- Viewed as Drive A for any diskette

£75 ex vat £88.12 inc vat

External version available for £99 + vat (see page 8)

HARD DRIVES SCSI HARD DISCS

Models	Capacity	Interface	Access time	Speed	Ex Vat	Inc Vat
IBM						
09J0306/46H6130	3.6Gb	EIDE	9.5ms	5400	£127	149.23
46H6131	4.3Gb	EIDE	9.5ms	5400	£141	165.68
00K0400	4.3Gb	EIDE/Ultra DMA/33	9.5ms	5400	£157	184.48
09J0308	6.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£220	258.50
00K0394	8.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£376	441.80
MICROPOLIS						
Stinger 4743	4.3Gb	UltraSCSI	10ms	5400	£210	246.75
Stinger 4743W	4.3Gb	UltraWide SCSI	10ms	5400	£221	259.68
Tomahawk 4345	4.3Gb	UltraSCSI	7.9ms	7200	£352	413.60
Tomahawk 4345W	4.3Gb	UltraWide SCSI	7.9ms	7200	£366	430.05
Tomahawk 4345WAV	4.3Gb	UltraWide AV	7.9ms	7200	£398	467.65
Tomahawk 3391	9.1Gb	UltraSCSI	7.9ms	7200	£594	687.95
Tomahawk 3391W	9.1Gb	UltraWideSCSI	7.9ms	7200	£605	710.87
Tomahawk 3391 WAV	9.1Gb	UltraWide AV	7.9ms	7200	£630	740.25
Quantum						
Fireball Stratus 2110	2.1Gb	UltraSCSI	10ms	5400	£148	173.90
Fireball Stratus 3220	3.2Gb	UltraSCSI	10ms	5400	£189	222.07
Fireball Stratus 4320	4.3Gb	UltraSCSI	10ms	5400	£203	238.53
Fireball Stratus 6480	6.4Gb	UltraSCSI	10ms	5400	£283	332.52
Atlas II 3455OS	4.5Gb	UltraSCSI	8ms	7200	£419	492.89
Atlas II 3455OSW	4.5Gb	UltraWideSCSI	8ms	7200	£450	528.75
Atlas II 39100S	9.1Gb	UltraSCSI	8ms	7200	£619	727.33
Atlas II 39100SW	9.1Gb	UltraWideSCSI	8ms	7200	£654	768.45
Viking	2.2Gb	UltraSCSI	8ms	7200	£234	274.95
Viking	2.2Gb	UltraWideSCSI	8ms	7200	£239	280.83
Viking	4.5Gb	UltraSCSI	8ms	7200	£344	404.20
Viking	4.5Gb	UltraWideSCSI	8ms	7200	£375	440.62
Seagate						
Medalist Pro ST52160N	2.1Gb	UltraSCSI	11ms	5400	£144	169.20
Barracuda ST32272N	2.2Gb	UltraSCSI	9ms	7200	£274	321.95
Barracuda ST32272W	2.2Gb	UltraWideSCSI	9ms	7200	£299	351.32
Barracuda ST34572N	4.5Gb	UltraSCSI	9ms	7200	£410	481.75
Barracuda ST34572W	4.5Gb	UltraWideSCSI	9ms	7200	£440	517.00
Barracuda ST19171N	9.0Gb	UltraSCSI	9ms	7200	£668	784.30
Barracuda ST19171W	2.2Gb	UltraWideSCSI	9ms	7200	£685	804.87
Cheetah ST34501N	4.5Gb	UltraSCSI	8ms	10000	£466	547.56
Cheetah ST34501W	4.5Gb	UltraWideSCSI	8ms	10000	£502	589.85
Cheetah ST19101N	9.0Gb	UltraSCSI	8ms	10000	£775	910.62
Cheetah ST19101W	9.0Gb	UltraWideSCSI	8ms	10000	£802	942.35
WESTERN DIGITAL						
Enterprise AC22170	2.1Gb	UltraSCSI	8ms	7200	£271	318.45
Enterprise AC22170	2.1Gb	UltraWideSCSI	8ms	7200	£271	318.45
Enterprise AC24360	4.3Gb	UltraSCSI	8ms	7200	£393	461.78
Enterprise AC24360	4.3Gb	UltraWideSCSI	8ms	7200	£393	461.78

EIDE HARD DISCS

Models	Capacity	Interface	Access time	Speed	Ex Vat	Inc Vat
Maxtor						
81280A Diamond Max	1.2Gb	EIDE	10ms	5400	£82	88.3
81750D2 Diamond Max	1.7Gb	EIDE/Ultra DMA/33	10ms	5200	£90	105.75
82100A Crystal Max	2.1Gb	EIDE	12ms	4480	£108	126.00
82560A Diamond Max	2.5Gb	EIDE	10ms	5400	£112	131.60
83240D4 Diamond Max	3.2Gb	EIDE/Ultra DMA/33	10ms	5200	£125	146.88
84000A Diamond Max	4.0Gb	EIDE	10ms	5400	£149	175.07
85120A Diamond Max	5.1Gb	EIDE	10ms	5400	£184	216.20
85250D6 Diamond Max	5.2Gb	EIDE/Ultra DMA/33	10ms	5200	£187	219.73
87000A Diamond Max	7.0Gb	EIDE	10ms	5400	£222	260.85
87000D8 Diamond Max	7.0Gb	EIDE/Ultra DMA/33	10ms	5200	£229	269.08
MICROPOLIS						
MIC4525	2.5Gb	EIDE	10ms	5200	£103	121.03
MIC4540	4.0Gb	EIDE	10ms	5200	£137	160.98
MIC4550	5.0Gb	EIDE	10ms	5200	£172	202.10
Quantum						
Bigfoot 1280	2.1Gb	EIDE 5.25"	16ms	3600	£79	92.83
Bigfoot 2550	2.5Gb	EIDE 5.25"	16ms	3600	£114	133.85
Fireball Status 1620	1.6Gb	EIDE/Ultra DMA ATA	10ms	5400	£87	100.23
Fireball Status 2160	2.1Gb	EIDE/Ultra DMA ATA	10ms	5400	£112	131.60
Fireball Status 3240	3.2Gb	EIDE/Ultra DMA ATA	10ms	5400	£129	151.57
Fireball Status 4320	4.3Gb	EIDE/Ultra DMA ATA	10ms	5400	£154	180.85
Fireball Status 6480	6.4Gb	EIDE/Ultra DMA ATA	10ms	5400	£213	250.27
Cyclone 2111	2.1Gb	EIDE	14ms	3600	£96	112.80
Cyclone 4335	4.3Gb	EIDE	14ms	3600	£128	150.40
Cyclone 6510	6.5Gb	EIDE	14ms	3600	£196	230.30
Seagate						
312016A	1.2Gb	EIDE	11ms	5400	£90	105.75
31601A	1.6Gb	EIDE	11ms	5400	£94	110.45
32160A	2.1Gb	EIDE	11ms	5400	£102	119.85
325430A	2.5Gb	EIDE	11ms	5400	£120	141.00
Seagate						
Medalist ST31277A	1.2Gb	EIDE	12ms	5400	£75	88.13
Medalist ST31722A	1.7Gb	EIDE/Ultra ATA3	12ms	4500	£85	99.87
Medalist ST32122A	2.1Gb	EIDE/Ultra ATA3	12.5ms	4500	£99	116.32
Medalist ST32531A	2.5Gb	EIDE	12ms	4500	£104	122.20
Medalist ST33323A	3.2Gb	EIDE/Ultra ATA3	10.5ms	4500	£125	146.88
Medalist ST34342A	4.3Gb	EIDE/Ultra ATA3	14ms	4500	£149	175.03
Medalist Pro ST36451A	6.4Gb	EIDE/Ultra ATA3	10.5ms	5400	£209	245.57
WESTERN DIGITAL						
AC21600	1.6Gb	EIDE	12ms	5200	£102	119.85
AC22000-UD	2.0Gb	EIDE/Ultra DMA/33	12ms	5400	£109	128.07
AC22500-UD	2.5Gb	EIDE/Ultra DMA/33	12ms	5400	£125	146.87
AC33000-UD	3.0Gb	EIDE/Ultra DMA/33	12ms	5400	£134	157.88
AC34000-UD	4.0Gb	EIDE/Ultra DMA/33	12ms	5400	£167	196.23
AC35000-UD	5.0Gb	EIDE/Ultra DMA/33	12ms	5400	£209	245.57

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- 512K pipelined burst level 2 cache
- I/O supports Ultra DMA 33mb/sec
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- Available in AT or ATX form factor
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- PS2 style keyboard and mouse connectors
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- Intel 440FX chipset
- Max memory 1024Mb
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- 2 x 16550 compatible serial ports
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- 4 x 3.3v unbuffered DIMM
- PS2 style keyboard and mouse connectors ATX form factor



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K6 MMX 200 MHz	£119	139.83
K6 MMX 233MHz	£179	210.33
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486 - 586/133 Upgrade	£99	116.32
EXTREME		
486 - 586 Upgrade	£69	81.07
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Pentium MMX 166MHz	£75	88.13
Pentium MMX 200MHz	£140	164.50
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Pentium II 233MHz	£263	309.03
Pentium II 266MHz	£354	415.95
Pentium II 300MHz	£530	622.75
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AX5 Pentium 430TX + 512k	£79	92.82
TX5 Pentium 430TX + 512k	£75	88.12
PP6 Pentium Pro 440FX	£99	116.32
PS6 Pentium Pro 440FX ATX	£105	123.37
AN6 Pentium II 440FX ATX	£129	151.57
INTEL ATX		
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KEYBOARDS

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CHERRY		
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105 Key W 95 PS/2 Soft Touch	£20	23.57
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105 Key W 95 PS/2 Non-Click	£25	29.37
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105 Key W 95 PS/2 Click	£38	44.65
MICROSOFT		
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LCS-1224 10W 3D	£49	57.57
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LCS-3210 20W 3D	£67	78.72
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Intellipoint Trackball	£40	47.00
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ATI - SEE PAGE 20		
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Stealth 3D 2400	£36	42.30
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Viper V330	£14	13.99
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Dynamite 3D/GL 8Mb PCI	£169	198.57
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MATROX - SEE PAGE 21

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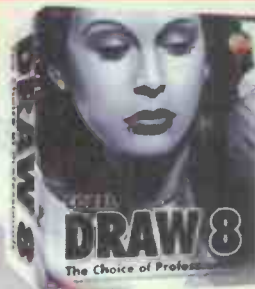
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MS Money 97 for Windows 95 on CD or 3.5	£19	22.39
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AutoCad Release 2 LT for Windows 3.1 on CD	£285	334.88
AutoCad LT 3.1 Upgrade from LT Earlier Version on CD	£82	96.35
AutoCad LT 3 for Windows 95 on CD	£419	492.33
AutoCad LT 95 Upgrade from LT Any Version on CD	£175	205.63
Autodesk View V1 on CD	£119	139.83
Autosketch V2.1 for Win 3.1/Win 95 on CD & 3.5	£45	52.88
Genius LT95 for Windows 95 on CD	£350	411.25
Genius LT3.1 for Windows 3.1 on CD	£142	166.85
COREL		
Visual CADD on CD Win 95 & NT (NOT 3.1)	£215	252.63

DATABASE

MICROSOFT		
MS Access V2.0 on 3.5	£222	260.85
MS Access V2.0 CCP Upgrade on 3.5	£81	95.18
MS Access 97 for Windows 95 on CD	£224	263.20
MS Access 97 Competitive & Version Upgrade for Win 95 on CD	£88	103.40
MS Access Developes Toolkit V7 for Win 95 on CD	£335	393.63
MS Visual FoxPro V3 for Windows on CD or 3.5	£120	141.00
MS Visual FoxPro V3 for Windows Ver UPG on CD or 3.5	£69	81.08
MS Visual FoxPro V3 for Windows Professional CD or 3.5	£299	351.33
MS Visual FoxPro V3 for Win Prof Comp UPG on CD or 3.5	£185	217.46
MS Visual FoxPro V5 for Windows Professional on CD	£319	371.13
MS Visual FoxPro V5 Version Upgrade for Windows on CD	£199	233.83

DTP

ADOBE		
Illustrator V7 for Windows 95 on CD	£172	202.10
Illustrator V7 for Windows 95 Upgrade from V4 on CD	£79	92.83
Pagemill V2 Windows 95 on CD	£59	69.35
Pagemaker V6.5 Win 95 on CD	£355	417.13
Pagemaker 5 to 6 Upgrade on CD & 3.5	£86	101.06
Pagemaker U/G from any previous version to V6.5 Win 95 CD	£89	104.58
MICROSOFT		
MS Publisher for Windows V2.0 on 3.5	£65	76.38
MS Publisher 97 for Windows 95 on CD	£65	76.38
MS Publisher 97 for Windows 95 on 3.5	£65	76.38
MS Publisher 97 Upgrade for Windows 95 on 3.5	£39	45.83
MS Publisher 97 Upgrade for Windows 95 on CD	£39	45.83

QUARK		
Express V3.32 for Windows on 3.5	£550	646.25

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ADOBE		
Acrobat V3 for Windows 3.1 & 95 on CD	£129	151.58
Acrobat Capture V2 for Windows 95 on CD	£440	517.00
Type Manager WP V3 on 3.5	£25	29.38
After Effects for Windows 95 on 3.5	£471	553.43
After Effects Pro for Windows 95 on 3.5	£944	1109.20

INTEGRATED

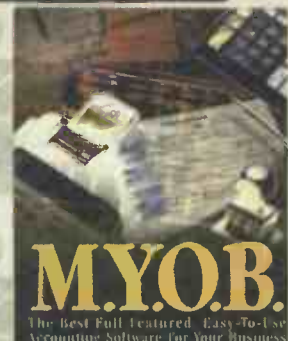
MICROSOFT		
MS Small Business Manager CD	£48	56.40
MS Home Essentials 97 for Win 95 on CD	£76	89.30
MS Office 97 Standard Edition for Win 95 on CD	£320	376.00
MS Office 97 Version & Competitive Upgrade for Win 95 on CD	£148	173.90
MS Office 97 Small Business Edition for Win 95 on CD	£325	381.88
MS Office 97 Small Business Edition Ver & Comp on CD	£148	173.90
MS Office Pro 97 with Bookshelf Basics for Win 95 on CD	£418	491.15
MS Office Pro 97 Upgrade with Bookshelf for Win 95 on CD	£205	240.88
MS Office 97 Developers Edition for Win 95	£525	616.88
MS Office 97 Developers Upgrade from Office Pro 97 on CD	£195	229.13
MS Office 97 Developers Edition Comp/Ver U/G on CD	£330	387.75
MS Office 97 V4.2 on 3.5 or CD	£325	381.88
MS Office 97 V4.2 CCP Upgrade on 3.5	£161	189.18
MS Office 97 V4.2 Competitive Upgrade on 3.5	£212	249.10
MS OfficePro V4.3 on 3.5 or CD	£419	492.33
MS OfficePro V4.3 CCP Upgrade on 3.5	£242	284.35
MS OfficePro V4.3 CCP Upgrade on CD	£242	284.35
MS Works V3.0 Upgrade Win/Dos on 3.5	£54	63.45
MS Works V3.0 Windows on 3.5	£75	88.13
MS Works V4 for Windows 95 on 3.5 only	£73	85.78

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- Sales Ledger
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M.Y.O.B. Version 6	£114	£133.95
M.Y.O.B. Test Drive Version 6	£8	£9.40
Technical Support 1 Year	£69	£81.07
Technical Support 2 Year	£115	£135.12
M.Y.O.B. Upgrade & Support Bundle Version 6	£99	£116.32
M.Y.O.B. Upgrade from Bestbooks	£85	£99.87
M.Y.O.B. upgrade to V 6 (no existing support)	£55	£64.62
M.Y.O.B. upgrade to V 6 (with existing support)	£37	£43.47
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Pagis PRO 97

The best way to Scan, Organise and Use your colour documents!!

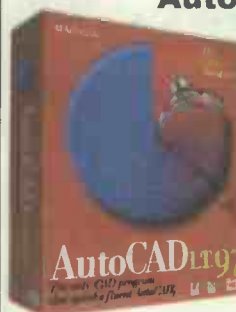


Pagis Pro 97 from Xerox is the first fully-featured scanning software to be completely integrated into the Windows 95/NT desktop. It allows you to capture, organise and use your colour documents and incorporate them easily into the Windows Explorer file system. With Pagis Pro 97, you can expect the same flexibility with paper-based documents that you enjoy with your electronic files. That's because Pagis Pro 97 takes advantage of three innovative technologies: Xerox PerfectScan image enhancement technology, TextBridge Pro OCR technologies and Verity's Topic search engine.

£68 ex vat £79.90 inc vat TEXTBRIDGE PRO 98 £52 61.10

Autodesk

Auto CAD LT 97



AutoCAD LT® 97 is the only CAD program that speaks 100 percent fluent AutoCAD®. Loaded with powerful 2D drawing and editing features, AutoCAD LT® 97 now has a drag & drop Content Explorer™ for easy symbol management, Office 97 logo compliance plus precision drawing tools like AutoSnap™ and PolarSnap™. You can even share drawings on the Internet.

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Protects popular operating systems

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- Provide detailed virus descriptions

Dr Solomon's Protection Plan

- Free monthly or quarterly anti-virus updates for term of licence

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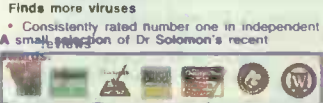
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- Enables scanning of compressed files (e.g. as downloaded from Internet) - more than any other anti-virus product

Finds more viruses

- Consistently rated number one in independent small selection of Dr Solomon's recent



For all popular business-critical operating environments, Dr Solomon's Anti-Virus Toolkit provides the widest range of tools available for complete virus detection and disinfection.

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Windows	Monthly	£119	139.82
Win NT	Quarterly	£68	79.90
Win NT	Monthly	£119	139.82
Win 95	Quarterly	£69	79.90
Win 95	Monthly	£119	139.82

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MiniCAD can simplify your daily work and enhance your overall productivity... giving you more time to concentrate on what you're doing.

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Infini-D

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Form Z Renderzone

2D/3D Solid and Surface Modeler & Renderer

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£449 £527.58

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Photoshop U/G From any previous full version to V4 CD

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£128 150.40

Photoshop V4 for Windows

£370 434.75

Premier Software V4.2 on CD & 3.5

£295 346.63

Photo Deluxe 1.0 for Win 95 on CD

£52 61.10

Texturemaker for Win 95 on 3.5

£92 108.10

Publishing Collection for Win 95 on CD

£740 869.50

OPERATING SYSTEMS

MICROSOFT

MS3in1 Value Pack on CD Contains:-Windows 95 Upg

£65 76.38

MS Plus, MS Internet Starter Kit

£38 44.65

MS DOS 6.22 Upgrade on 3.5

£58 68.15

MS Windows to Win 95 Upgrade on CD

£58 68.15

MS Windows to Win 95 Upgrade on 3.5

£111 130.43

MS DOS to Windows 95 on 3.5

£99 116.33

MS Plus for Windows 95 on CD

£26 30.55

MS Plus for Windows 95 on 3.5

£26 30.55

MS Windows for workgroups 3.11 on 3.5

£89 104.58

MS Windows for workgroups Upgrade on 3.5

£40 47.00

MS Windows NT Server V4 with 5 Client Licences on CD

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MS Windows NT Server V4 Ver Upg + 5 Client Licences on CD

£279 327.83

MS Windows NT Server V4 Comp Upg + 5 Client Licences on CD

£282 331.35

MS Windows NT Server V4 with 10 Client Licences on CD

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MS Windows NT Server V4 Upgrade + 10 Client Licences on CD

£372 437.10

MS Windows NT Workstation V4 on CD

£213 250.28

MS Windows NT Workstation V4 Upgrade From Prev Ver on CD

£99 116.33

MS File & Printer Server for Windows NT on CD

£69 81.08

MS Netware Services for Win NT on CD

£115 135.13

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LOTUS

1-2-3 V4.0 DOS on 3.5

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1-2-3 97 for Windows 95 on CD

£219 257.33

1-2-3 97 Version U/G for Windows 95 on CD

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MICROSOFT

MS Excel V5.0 on 3.5

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MS Excel V5.0 CCP Upgrade on 3.5

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MS Excel 97 for Windows 95 on CD

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MS Excel 97 Competitive & Version Upgrade for Win 95 on CD

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FrameMaker V5.5 Authoring/Publish for Windows 95 on CD

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LOTUS

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Organizer 97 for Windows 95 on CD

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Word Pro 96 for Win 95 on 3.5

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Organizer V2.1 on 3.5

£39 45.83

MICROSOFT

MS Word V6.0 for Windows on 3.5

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MS Word V6.0 CCP Upgrade on 3.5

£81 95.18

MS Word V6.0 Comp Upgrade on 3.5

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MS Word 97 for Windows 95 on CD

£220 258.50

MS Word 97 Competitive & Version Upgrade for Win 95 on CD

£87 102.23

VOICE RECOGNITION

IBM VoiceType Simply Speaking for Windows 95 CD **£33** 38.71

IBM VoiceType Simply Gold for Windows 95 on CD **£59** 69.33

Dragon Dictate Solo for Windows 95 on CD **£39** 45.83

Dragon Dictate Naturally Speaking on CD **£427** 501.73

Dragon Dictate Professional for Win 95/3.11 on CD **£74** 86.95

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Software



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Dictate to your PC and control your windows applications by voice alone!
Work directly within your choice of MS Word, Excel, Access, PowerPoint or Internet Explorer - just say the words!

NEW! DragonDictate Solo Pro Classic

The Premier PC Dictation Program

The power of speech is here! Concentrate on your work, not your computer!

Dictate into MS Word, Lotus WordPro and Corel WordPerfect!

- Now you can work in multiple applications at the same time!
- UK English dictionary - understands regional accents!
- 120,000 word vocabulary with 30,000 word active dictionary.
- Reach possible dictation speeds of 70 - 120 words per minute, increasing with use.
- Control most other Windows applications* just by saying what you see on the screen.
- Contains over 4,500 voice macros to recall standard templates & paragraphs by a single voice command.
- Voice-control your mouse, so your keyboard becomes an option, not a necessity.
- Dictation training gets you started right away

NEW Solo Pro Classic is a professional quality speech recognition system that instantly recognises your Windows application and allows you to work within it using commands that you already know. You can avoid your keyboard altogether, so it's ideal if you prefer to avoid typing in a busy business environment.

*Fully supports dictation and command-control in all Windows applications prior to Microsoft Office 97. Supports dictation only in Microsoft Office 97 applications.

£63 ex vat £74.03 inc vat



DRAGON DICTATE SOLO

Includes a high quality noise-cancelling microphone
New UK English Version 120,000 word vocabulary with 10,000 word active customisable dictionary

The only PC dictation program to do ALL this!

- Dictates, edits, moves and formats text and numbers directly within your chosen application for Windows 95 or Windows 3.1.
- Voice controls Microsoft Exchange, Netscape Navigator Ver 3.0, Adobe Acrobat Reader and Windows accessories, including Write, WordPad, Calculator, Solitaire and Mine sweeper.
- Voice -activates commands and pull down menus.
- Tells your mouse to move to a precise spot on the screen
- Creates accurate documents by dictating to your PC
- Spells correctly every time
- Reduces repetitive keyboard and mouse motions
- Fast enrolment and Quick Training program Included

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Dragon Naturally Speaking

• True Continuous Speech • Speak Without Having to pause • Highly Accurate • 30,000 word active vocabulary • Words can be added • Natural Spelling

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3C-509B Combo ISA bare card	£49	
3C-800TPO RJ45 PCI bare card	£45	
3C-800 Combo PCI bare card	£59	
3C-905 10/100 PCI bare card	£45	
3C-509B RJ45 ISA	£59	
3C-509B Combo ISA	£79	
3C-509B RJ45 PCI	£85	
3C-900 Combo PCI	£79	
3C-905 10/100 PCI	£85	
3C-575TX 10/100 PCMCIA cardbus	£89	
3C-589 RJ45 PCMCIA	£79	
3C-589 Combo PCMCIA	£105	
3C-592 Combo EISA	£135	
3C-597TX 10/100 EISA	£159	
3C-563 RJ45 & 336 Modem PCMCIA	£199	
3C-563 Combo & 336 Modem PCMCIA	£229	
TECH DIRECT		
Combo ISA PnP	£12	
Combo PCI	£16	
10/100 PCI	£26	
Combo PCMCIA	£48	
DLINK		
DE-220PCT Combo ISA PnP	£19	
DE-530CT Combo PCI	£24	
DFE-500TX 100Mb PCI	£36	
DE-650CT Combo PCMCIA	£46	
DE-620CT Combo Parallel	£71	
GENIUS		
16bit Combo PnP	£20	
32bit Combo PCI	£25	
10/100 PCI	£55	
Pocket Parallel	£46	
Combo PCMCIA	£55	
GREYCELL		
RJ45 PCMCIA	£89	
Combo PCMCIA	£105	
RJ45 Ethernet & 336 Modem PCMCIA	£249	
Combo Ethernet & 336 Modem PCMCIA	£249	
INTEL		
Ether Express Pro 10+ Combo	£85	
Ether Express Pro 10+ Combo Flash	£88	
Ether Express Pro 10+ Combo PCI	£98	
Ether Express Pro 100 ISA	£109	
Ether Express Pro 100 PCI	£49	
Ether Express Pro 100 EISA	£165	
PSION DACOM		
SoloCard Combo PCMCIA	£85	
SoloCard Combo & V34 Modem PCMCIA	£204	
SMC		
8416BT EtherEZ Combo ISA PnP	£48	
8432BT EtherPower Combo PCI	£49	
8332BDT EtherPower 10/100 PCI	£55	
8020T EtherEZ RJ45 PCMCIA	£79	
8020BT EtherEZ Combo PCMCIA	£108	
XIRCOM		
RJ45 Parallel	£162	
BNC Parallel	£165	
Combo Parallel	£189	
RJ45 PCMCIA (10/100 upgradeable)	£87	
Combo PCMCIA (10/100 upgradeable)	£107	
10/100 PCMCIA	£99	
10/100 PCMCIA Cardbus	£128	
RJ45 Ethernet & 336 Modem PCMCIA	£161	
Combo ethernet & 336 Modem PCMCIA	£208	
RJ45 10/100 & 56k Modem PCMCIA	£229	

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3COM		
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3C16700 8TP0 8port	£59	
3C16701 8TPC 8port	£78	
3C16710 8TPM 8port	£233	
3C16720 8TP100 8port 100TX	£388	
3C16702 16TPC 16port	£147	
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3C16590 Dual Speed 12port	£739	
3C16591 Dual Speed 24port	£118	
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3C16671A 24port	£475	
3C250TX 12port 100TX	£1075	
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EN104UK 4port	£55	
EN108UK 8port & AUI	£69	
EN116UK 16port & AUI	£139	
EN308UK 8port & BNC & AUI	£39	
EN316UK 16port & BNC & AUI	£159	
FE104UK 4port 100Mb	£149	
GENIUS		
GH4080 8port	£59	
GH4160 16port	£99	
GH4080R 8port 100TX	£399	
GH4120R 12port 100TX	£585	
FE108UK 8port 100Mb	£299	
FE508UK 8port 100baseTX	£529	
FE516UK 16port 100baseTX	£899	
TECH DIRECT		
5port	£33	
8port	£45	
16port	£85	
8port 100TX	£279	
DLINK		
DE805TP 5port	£40	
DE905 2 User starter kit	£79	
DE809TC 8port & BNC	£49	
DE805TP 8port	£49	
DE812TP+ 12port	£99	
DE816TP 16port	£155	
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DE1824 24port	£324	
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DFE812TX 12port 100TX	£425	
DFE816 16port 100TX	£559	
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3605-EZ EtherEZ 5T 5port	£52	
3608TC-EZ EtherEZ 8TC 8port	£79	
3616TC-EZ EtherEZ 16TC 16port	£173	
5208TX-EZ EtherEZ 8port 100TX	£392	
FMS II 12port	£379	
FMS II 24port	£670	
NETWORK SWITCHES		
3COM		
3C16405 Port Switch 12port	£215	
3C16406 Port Switch 24port	£384	
3C16901A Switch 1000 12port	£349	
3C16900A Switch 1000 24port	£1379	
3C16941A Switch 3000TX 18port	£1635	
3C16942A Switch 3000TX 12port	£1969	
BAY NETWORKS NETGEAR		
SW502UK 2port 10/100	£359	
SW507UK 7port 10/100	£689	
DLINK		
DES802 2port 10/100	£205	
DES805 5port 10/100	£388	
DES810 10port 10/100	£635	
DES1004 4port N-Way	£489	
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DES2208 8port 10/100	£859	
DES3208 8port 10/100	£1145	



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APC's Smart-UPS are the perfect uninterruptible power supply (UPS) for file servers, minicomputers, UNIX CPUs, Internet hubs, telecommunications systems and other mission critical applications. If downtime has immediate effects on your business, you need an APC Smart-UPS. Protect your data, protect your hardware, increase your productivity with APC.

- Lightning and Surge Protection shields hardware
- Network-grade Line Conditioning prevents glitches
- SmartBoost automatically corrects brownout conditions
- SmartTrim automatically corrects overvoltage conditions
- Sine Wave Output suits sensitive loads

SmartUPS 450i	£224	SmartUPS 1400i	£373
SmartUPS 700i	£228	SmartUPS 2200i	£539
SmartUPS 1000i	£286	SmartUPS 3000i	£1079

BACK-UPS

Effects of power events such as surges, swells, brownouts and blackouts include keyboard lockup, complete data loss, hardware degradation, damaged motherboards and more, making downtime inevitable. Back-UPS is the best way to provide high-performance workstation protection, prevent data loss and increase your systems lifespan and productivity.

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- Communications interface port saves important data
- User replaceable, hot swappable batteries
- Intelligent Battery Management - reliable, long life batteries
- Advanced warning diagnostics for high reliability
- Automatic self-test increases reliability

BackUPS EI250	£69	B/UPS Pro 420i	£145
BackUPS EI400	£99	B/UPS Pro 650i	£185
BackUPS EC600	£137	B/UPS Pro 1000i	£279
B/UPS Pro 280i	£95	B/UPS Pro 1400i	£373

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News • Latest Products • Latest Price Listings

Issue No: 7 December 1997

Christmas Offers

...and gift ideas,
see page 2

ScanTak

Slim, Affordable, Powerful Performance

Single-Pass, 24-bit Color Scan

Yes

Star Buy!

Novatech 24x Max
CD ROM (page 19)

£49^{+VAT}

Free
delivery on
consumables!

See pages 30 & 31

DECEMBER



Printers



Scanners



Modems



Memory



Monitors



Software



Cameras

and much
more inside...

Christmas presents

Christmas is a time for giving, and at Novatech, we believe in giving

With our extensive product range, we're confident you will be able to find the perfect gift, no matter who you're buying for.



For Dad, how about the Hewlett Packard Office Jet 590 at just £400.68, inc vat? This all-in-one fax, copier, scanner and colour printer represents superior quality with exceptional convenience. Combine that with an intuitive, easy to use interface, and you have the ideal multi-function machine for the small business. It also gives Dad the ideal excuse to work from home!

If Mums need a convenient, compact printer for the home, what better machine than the Canon BJC 250. Fast, economical and reliable, this printer currently comes with a Thomas Cook holiday voucher, worth up to £140, so you can treat her to a holiday as well. Add to that a free black cartridge and



a software bundle that includes a desktop publishing package and a computer based 'virtual pet' in the form of a cat and you have the perfect excuse for buying at just £118.68 inc vat.

For older children, perhaps those studying for GCSE or 'A'-Levels, a scanner is the ideal companion when it comes to coursework. Allowing you to scan in, edit and manipulate images and text in almost any way you can imagine, the Scantak 2C, at £104.58 inc vat, will be just what they need.

Alternatively, how about a modem to give them access to the Internet and the 'information super highway'? At just £69.33 inc vat for an internal model, or £81.08 for the external, the 56k Novatech brand modem can get you on the World Wide Web fast!

We are

TEN

- 1 We've been successfully trading for TEN years, which has provided financial stability.
- 2 Our friendly sales team are second to none at dealing with your enquiry, and taking your order.
- 3 If you experience any problems, our excellent technical support team will be waiting to help you.
- 4 Our sales to after sales staff ratio of 3:1 offers one of the highest levels of support in the industry.
- 5 It's FREE to call us! We don't expect an order every time - don't hesitate to call with your enquiry.
- 6 We were voted No.1 for scanners in the PC Direct Hits Awards '97, you get the same service on all of our products.
- 7 We ship over 500 orders every day! And take care over every single one, including yours!
- 8 We keep huge stocks for rapid delivery. Don't hesitate to call us to check availability - it's FREE!
- 9 We are very competitive on price, give us a call, we can usually match all but the silliest of prices!
- 10 Novatech is a family run business. We really care and intend to offer an excellent service for many years to come.

Reasons to trust

novatech



David Furby

Dear Reader

Welcome to our December edition.

With Christmas nearly upon us again it is time to think about presents for friends and family. We've suggested some gift ideas above in 'Christmas Presents from Novatech' and our Top Ten list (right) is always good for those 'must have' products.

Choose from our software selection (p22) or why not group together as a family and buy something more substantial? Our best selling CD Rom drive is now 24x max! (p19) and still only £49 + VAT.

Finally, whatever you're looking for, don't forget our Price Promise (p32) to ensure you make that Christmas budget stretch as far as possible!

Merry Christmas...

davidfurby@novatech.co.uk

TOP TEN

LAST MONTHS BEST SELLERS

- | | |
|-----------------------------|-----|
| 1 Spot Scantak 2c | P13 |
| 2 Epson Stylus Color 600 | P6 |
| 3 Novatech 14" Monitor | P16 |
| 4 Epson Stylus Color 400 | P6 |
| 5 Novatech 20X Max CD Rom | P19 |
| 6 Novatech 33.6 Int. Modem | P15 |
| 7 HP DeskJet 670C | P9 |
| 8 Quantum IDE HD 3.2Gb | P27 |
| 9 HP DeskJet 690C | P9 |
| 10 Novatech 33.6 Ext. Modem | P15 |

NEW PRODUCT

Look for these logos to help you rapidly find new products and those which have recently reduced in price.

PRICE REDUCED

Star Buy!

Each month we will select an incredible value Star Buy (see front cover)

2 **novatech**



PRICE PROMISE

We won't be **Call now for Next Day Delivery** beaten. See back page. Please read the order information on the back page before ordering.

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you as much value for money as possible,

Using the latest K56Flex technology, our modem will run at speeds of up to 56,000 bits per second.

Of course, you never know what you may be downloading along with your files, and so Anti-Virus protection is a must. Dr Solomon's, available for Windows 3.x, 95, NT and Dos, is a must have if you want to avoid the danger of virus infection when 'surfing' the 'net. Younger children will be delighted by the range of software we supply. From the early learning educational software of the Dorling Kindersley range, to the famous Microsoft Encarta encyclopaedia, we have a package for every age. Also, don't forget that we now supply titles from the Microsoft entertainment range such as Close Combat 2 and Age of Empires.

Whatever you buy, you can be assured that you'll be treated to the same friendly service and professional approach that you've come to expect from Novatech over the years.



The Personal Touch

If you are within travelling distance of Novatech, it is always worth remembering that we have a sales counter in the building.

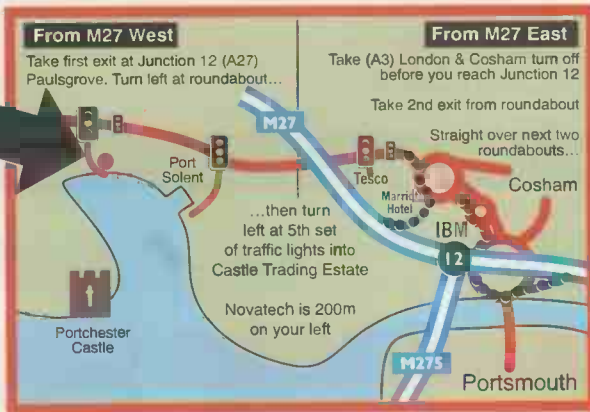
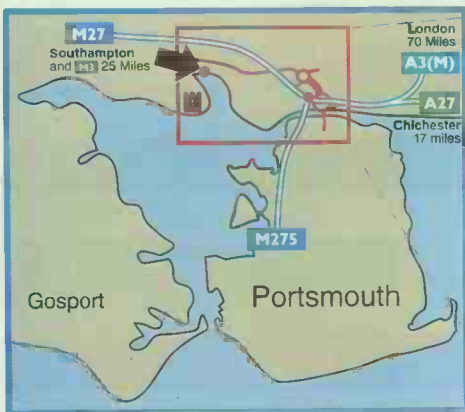
Collecting your goods just couldn't be simpler. All you need to do is phone our friendly, professional sales team to check stock availability and price. If the item you require is in stock, then we will gladly hold it aside for you for up to 24 hours.

Just leave your name and a contact telephone number, and your sales contact will give you an order number to quote on your arrival at the building.

We accept Visa, MasterCard, American Express & Switch, and can also provide a cheque clearing service if the amount of the purchase is higher than your cheque guarantee card limit. We gladly welcome personal callers and are happy to assist you.



Our friendly team are waiting to take your call.



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novatech **3**

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Desktop Memory

Find the type of memory for your PC using the coloured dots or call our experts for help.

AMSTRAD

- 7 Series
- 9 Series

APPLE

- Quadra 700,900,950
- Performa 200,410,430
- Quadra 610,650,800,840
- LC475,LC550,LC630
- PowerMac 6100,7100
- Performa 5200,5300
- Performa 6200
- PowerMac 7, 8, 9000 series

AST

- Bravo LC,LP,MS,MT
- Premmia LX, GX, MX
- Advantage series

COMPAQ

- Deskpro 2, 4, 6000 series
- Deskpro XL 6100, XL 6150
- Presario 4764, 4770, 8772
- Proliant 2500 / 2500R
- Proliant 800, 2100, 4300

COLOSUS

- 150 Multimedia DT, 166 +PMT
- 166MMT, 200+ System 97-1B
- 200M System 97-3, 97-5

DAN

- Dantum/S, 95/S, Value/S
- Home, Home +
- Dantum, Dantum Pro
- Ultimate, Ultimate +

DELL

- Dimension XPS Pro 180n
- Dim P133v,166v+,M166s,M200s
- Dimension XPS H233, H266
- XPS Pro 200N/NT, Pro 200N MT
- Performance L,M,T
- Power Edge 2100, 4100
- Power Edge 2200, 4200
- Omniplex, Optiplex
- Optiplex GXpro 6150, 6200
- Optiplex GXI 5133, 5166, 5200
- XPS P200s,P166s

ELONEX

- Kayak Server
- PC5120, PC5166, PT6200

ESCOM

- DX2,P60,P75,P100

EVESHAM

- Vale Prima/MMX/686
- Vale Prestige/MMX/686
- Platinum/MMX/Pro
- Platinum SEMMX/SE Pro/Dual

FUJITSU

- ErgoPro X453/100, 133, 166
- ErgoPro X653/166, 200, 166s

GATEWAY

- PC4sx33,DX33v,
- 66v,P/V,
- P4D
- P575,90,100,120,
- 133 EDO, 133 Elite
- P5-133, 166, 200 Elonex
- P5 150MM, 166MM, 200MM
- G6-233, 266, 233M, 266XL
- G6 - 200, 200XL

HIGHMEAD

- DX2/66,DX4/100
- P75,P90,P100

ICL

- Ergo Pro

HEWLETT PACKARD

- Vectra VE, VL, VA, XM, XA
- Vectra XU, XW
- Netserver Lh+ 5/133, Lh2 Pro
- Netserver Ld Pro 6/180
- N2,M2,XM2,VL2

IBM

- Aptiva 300, M, A Series
- 700 Series
- Valuepoint
- PS/2
- PC 365 EDO Model
- PC 300GL, 6282-3XX
- PC Server 325 Pro180, Pro200

MITAC

- DX2/66,DX4/100
- P60

MJN

- Discovery 150, 166+
- 150, 166, 200 M Series
- 150B, 200+B, Lan PC

OLIVETTI

- SNX 400

OPUS

- Powerhouse 166M, 200M, P200
- Premier PR150
- Prestige PR166/MM
- Fileserver PR150, Pro P200

PACKARD BELL

- 386, 486sx
- 486DX

SIMPLY

- DX2,DX4,P60,75,90
- Family Series, Internet Series
- Office 97

VIGLEN

- Bus PC133,166+,200+,PC Pro2000
- Genie 486, Contender
- Home 133, 150, Performance166M
- Pentium EX
- Ultimate 120,133
- Ultimate 166M, Awsome 200M

Decide how much more memory you need – Remember if you have a Pentium PC and use SIMMs you'll need to upgrade in pairs (eg. for 16Mb you need 2 x 8Mb modules)

Memory Type / Size	1Mb	4Mb	8Mb	16Mb	32Mb	64Mb	
30 Pin	£5	£13	—	—	—	—	ex VAT
	£5.88	£15.28					inc VAT
72 Pin Parity	—	£14	£25	£36	£72	—	ex VAT
		£16.45	£29.38	£42.30	£84.60		inc VAT
72 Pin Non Parity	—	£9	£14	£29	£59	—	ex VAT
		£10.58	£16.45	£34.08	£69.33		inc VAT
72 Pin EDO 60ns	—	£9	£14	£29	£59	—	ex VAT
		£10.58	£16.45	£34.08	£69.33		inc VAT
168 Pin Sync. Dram	—	—	—	£39	£69	£162	ex VAT
				£45.83	£81.08	£190.35	inc VAT
168 Pin FPM Dimm	—	—	—	£41	£72	£145	ex VAT
				£48.18	£84.60	£170.38	inc VAT
168 Pin EDO Dimm (Unbuffered)	—	—	—	£42	£79	£165	ex VAT
				£49.35	£92.83	£193.88	inc VAT
168 Pin EDO ECC	—	—	—	£54	£114	£227	ex VAT
				£63.45	£133.95	£266.73	inc VAT

Prices correct at time of going to press & may be subject to fluctuation. Please call to check - it's free.

Notebook & Camera Memory

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Notebook Memory

	4Mb	8Mb	16Mb	32Mb
Acer				
Acernote 760i,780i,900i,350i,350e,355	●	●	●	●
Acernote 350P, 510, 810, 970,370 Series	●	●	●	●
AST				
Ascentia 700, Bravo Notebook	●	●	●	●
Ascentia 800N 4/33, 4/50, 900N 4/50, 4/75	●	●	●	●
Ascentia 950N	●	●	●	●
Ascentia A Series, Ascentia J Series, P Series	●	●	●	●
Power Exec 4/25SL Colour	●	●	●	●
COMPAQ				
LTE Lite 4/25C,33C,25E,25SL Mono Notebk	●	●	●	●
LTE Elite 4/40C, /50E, /40CX, /50CX, /75CX	●	●	●	●
LTE 5000Series 5000P75,5100P90,5200 P120	●	●	●	●
Concerto 4/25, 4/33	●	●	●	●
Contura 4/25, 4/25c, 4/25cx	●	●	●	●
Contura 400C, 400CX, 410, 410C, 410CX	●	●	●	●
Contura 420 Dx4/75, 430 Dx4/100	●	●	●	●
Contura Aero 4/25, 4/33C	●	●	●	●
Armada 1100,1120,1130,1500,4100 series	●	●	●	●
Presario 1010, 1020, 1030, 1060, 1070, 1080	●	●	●	●
DEC				
DEC Hi-Note, Hi-Note Ultra, Ultra II	●	●	●	●
DEC Hi-Note VP CSS, CTS, LSS, LTS	●	●	●	●
DEC Hi-Note VP 520, 525, 535, 560, 565, 575	●	●	●	●
DELL				
Latitude 425,433,433c,433cx,450c,450cx	●	●	●	●
Latitude XP 450c,475c,4100c,4100cx, XPI	●	●	●	●
Latitude MX,MC,LX4100C	●	●	●	●
Latitude XPI 100,133	●	●	●	●
Latitude LM P133ST, M166ST, LM CD P150ST	●	●	●	●
GATEWAY				
2000 Handbook 486, Liberty DX2/50,DX4/100	●	●	●	●
Solo 2000 V75, P3C, 2100 S90,S120,SS133XL,S150	●	●	●	●
Solo 9100	●	●	●	●
HEWLETT PACKARD				
Omnibook 600C,600CT	●	●	●	●
Omnibook 4000,5000,5500	●	●	●	●
Omnibook 800	●	●	●	●
IBM				
Thinkpad 701,230C,230CS	●	●	●	●
ThinkPad 700, 700C, 720,720C	●	●	●	●
ThinkPad 730T,730TE,345C,345CS,355,360	●	●	●	●
ThinkPad 750,755,370C	●	●	●	●
ThinkPad 760C,760CD,760L,760LD	●	●	●	●
ThinkPad 760EX,760ED,760EL,365X,365XD,560,535	●	●	●	●

Notebook Memory

	4Mb	8Mb	16Mb	32Mb
NEC				
UltraLite Versa, Versa E, M, P, V 4000 P75	●	●	●	●
Versa 4050 P90, Versa 4050H, 6000	●	●	●	●
Versa S,2000	●	●	●	●
OLIVETTI				
Echos Pentium series, Echos Pentium Pro	●	●	●	●
PANASONIC				
CF21P,CF41 mkII,mkIII,Pentium	●	●	●	●
TEXAS-INSTRUMENTS				
Extensa 450,455,455T,550,555CD,560,565	●	●	●	●
Extensa 510	●	●	●	●
Extensa 600,650,Travelmate,6020,6030,6050	●	●	●	●
Travelmate 5000, 5300	●	●	●	●
TOSHIBA				
Portege 610, 620 Series	●	●	●	●
Satellite Pro 400, 410, 415, 420, 425, 430 Series	●	●	●	●
Satellite Pro 100, 105, 110, 115, 200, 210 Series	●	●	●	●
Dynabook Satellite Pro 430, 110, 200 Series	●	●	●	●
Dynabook Satellite 220, 440	●	●	●	●
Tecra T500, 510, Portege 650, 660	●	●	●	●
Tecra T700CS,T700CT	●	●	●	●
Tecra T710CS, T710CT, T720CS, T720CT, T730	●	●	●	●
T2000, T2000SX, T2000Sx, T2200SX;	●	●	●	●
T1000LE, T1800, T1850, T1850C Notebook	●	●	●	●
T2100/CS/CT, T2105/CS/CT;	●	●	●	●
T2150CDT, T2150CDS, T2155CDT, T2155CDS;	●	●	●	●
T2110, T2115, T2130, T2135	●	●	●	●
T4400, T6400, T6600 Notebook (All)	●	●	●	●
T4500, T4600, T4700, T4800, T4850CT;	●	●	●	●
T1900, T1910, T1950, 1960 (All), T4900CT;	●	●	●	●
T2400, T2450, T3400, T3600	●	●	●	●

Digital Camera Memory

	4Mb	8Mb	16Mb	32Mb
Associated Press NC 2000	●	●	●	●
Canon EOS-1N, EOS-DCS1, EOS-DC33	●	●	●	●
Canon Powershot 600	●	●	●	●
Canon Powershot 350	●	●	●	●
Chicon ES-1000, ES-3000	●	●	●	●
Dycam DC-10	●	●	●	●
Fujii DS-505a, DS-515a, DS-220	●	●	●	●
Kodak DC50, DCS420, DCS460, DCS465	●	●	●	●
Kodak EOS DCS1, DCS2, DCS5	●	●	●	●
Kodak DC25, DC120	●	●	●	●
Nikon E2N, E2S	●	●	●	●
Ricoh RDC-2, RDC-2E	●	●	●	●

Memory Size	4Mb	8Mb	16Mb	32Mb	
Price Band A	£37	£54	£85	£169	ex VAT
	£43.48	£63.45	£99.88	£198.58	inc VAT
Price Band B	£39	£57	£97	£195	ex VAT
	£45.83	£66.98	£113.98	£229.13	inc VAT
Price Band C	£45	£63	£109	£219	ex VAT
	£52.88	£74.03	£128.08	£257.33	inc VAT
Price Band D	£49	£74	£119	£239	ex VAT
	£57.58	£86.95	£139.83	£280.83	inc VAT
Price Band E	£55	£89	£154	£309	
	£64.63	£104.58	£180.95	£363.08	inc VAT
Price Band F	£59	£89	£169	£279	
	£69.33	£104.58	£198.58	£327.83	inc VAT
Price Band G	£83	£139	£249	—	
	£97.53	£163.33	£292.58	—	inc VAT
Price Band H	£63	£99	£159_(15Mb)	£269_(30Mb)	ex VAT
	£74.03	£116.33	£186.83	£316.08	inc VAT

We also stock a wide range of notebook accessories & upgrades. See listings.

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novatech 5

Printers

EPSON



Money-saving 'one-box' solutions

'Colour-In Colour-Out' – Stylus Color 400 printer and GT5000 Scanner for only **£263!** ex VAT

ONE BOX SOLUTION...
Stylus Color 400 & GT5000
Save over £20!



EPSON Stylus Color 400 **£133** **£156** ex VAT

- 720 dpi printing in colour & mono with Epson MicroDot™
- Photo Real Colour & Laser Sharp Mono Printing as standard
- Up to 3ppm Colour, 4ppm Mono printing on plain paper
- Windows compatible
- Prints on plain paper with Epson Quick-Dry Ink
- Easy to use, in built online help – Epson Answers
- Epson AutoColour function
- Advanced Dual Ink Cartridge System with Epson Quick-Dry Ink
- Optimised Printing of Video / Digital Camera Images
- Windows '95 ICM & Colour Matching
- 1 year RTB with optional 3 Year On Site Warranty
- Epson CoverPlus three year extended warranty service available
- Free 'Epson Fun Factory' bundle for PC and Mac

The EPSON Stylus Color 400 is a high quality inkjet printer providing 720 x 720 dpi Photo Real output on plain paper providing outstanding results for the business or home user.

Epson Photo Studio



EPSON Stylus Photo **£308** **£361** ex VAT

- Photo Reproduction Quality output (PRQ) reproduction (can also print text as usual)
- Prints 4" x 6" format and enlargements to A4 size
- Normal and light colour QuickDry inks (6 colours)
- Up to 720 x 720 dpi resolution
- From 2 minutes per 4"x 6" photo print
- Windows and Mac Compatible
- LivePix for Windows 95 & Mac

ONE BOX SOLUTION...
Stylus Photo & FilmScan 200
Save over £50!

Buy both products and save money with our One Box Solutions. There are 4 to choose from, call for details.



- Affordable high quality scanning
- 1200 dpi optical res. (4800 int)
- 30 bit per pixel image processing
- Single pass scanning
- Optional APS cartridge holder
- Batch scanning capability
- Fully TWAIN compliant

EPSON FilmScan 200 **£326** **£383** ex VAT



Photo Real Colour at 1440 dpi!

EPSON Stylus Color 600 **£169** **£198** ex VAT

- 1440dpi colour or true black printing with Epson Super MicroDot™
- Photo-Real Colour & Laser Sharp Mono Printing as standard
- Windows & Mac Compatible
- Easy to use, in built online help – Epson Answers
- Up to 4ppm Colour, 6ppm Mono Printing
- Advanced Dual Ink Cartridge System with Epson Quick-Dry Ink
- Epson AutoColour Function
- Optimised Printing of Video / Digital Camera Images
- Windows '95 ICM & Colour Sync 2.0 Compliance
- 1 year RTB with optional 3 Year On Site Warranty
- Free 'Epson Fun Factory' bundle for PC and Mac

PRICE REDUCED



Ultra Fast – 8 pages per minute!

EPSON Stylus Color 800 **£221** **£259** ex VAT

- Ultra fast print speed – up to 8ppm mono, 7ppm colour
- 1440dpi with Epson Super MicroDot™ & Epson Super MicroWeave™
- Laser Sharp mono and photo-real colour printing as standard
- Windows & Mac Compatible
- Optional Postscript & Network Capability
- High capacity dual ink cartridge system
- Epson AutoColor Function
- Optimised Printing of Video / Digital Camera Images
- Windows '95 ICM & Colour Sync 2.0 Compliance
- 1 year RTB with optional 3 Year On Site Warranty
- Epson CoverPlus three year extended warranty service available – £65

PRICE REDUCED



Low cost colour inkjet printer

EPSON Stylus Color 300 **£106** **£124** ex VAT

- Affordable four colour inkjet
- 720dpi colour and true black printing
- Photo Real colour & laser sharp mono as standard
- Speed: 3ppm black and 1.2ppm colour
- Excellent results on many medias including plain paper
- Designed exclusively for Windows using EPSON printer driver
- On-line help and Epson Answers hints & tips software
- Epson quick dry inks
- Windows driver provided on CD ROM
- 1 year RTB with optional 3 Year On Site Warranty
- Epson CoverPlus three year extended warranty service available



Inkjet Cartridge Finder for Epson

Full Consumables listings including coated papers inside back cover.

Stylus	300	400	600	800	Photo	Product Code	Price ex VAT
Black	●	●	●	●	●	I-EPS20093	2.89
Colour	●	●	●	●	●	I-EPS20089	115.67
Black	●	●	●	●	●	I-EPS20108	115.21
4 Colour	●	●	●	●	●	I-EPS20138	115.80
5 Colour	●	●	●	●	●	I-EPS20110	114.90

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COVER plus

Epson CoverPlus is a new extended warranty service designed to offer 3 years on-site repair, from the date of purchase, by an Epson trained engineer on Epson printers and scanners.

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Let your imagination run wild!

Included in the Fun Factory are:

Software

PrintArtist v4 – Imaging editing graphics and software with 25 fantastic fonts, 100+ fab photos and 1000+ clip art images (Windows and Mac)

LivePix Special Edition – Professional photo image editing software (Windows only)

The Big Red Racing Game (A seriously rapid rock and roll racing game where absolutely anything goes – fast and fancic fun)

Print Media

2 sheets of A4 Photo quality glossy paper
 2 sheets of A4 Photo quality inkjet paper
 3 A6 Greeting cards
 3 Envelopes
 5 4"x6" Photo paper
 2 sheets of Transfer T-shirt paper
 2 sheets of self adhesive paper

Epson Fun Factory comes only when you purchase an Epson Stylus 400 or 600.



See facing page



Fun Factory comes with...

EPSON Stylus Color 400 <small>EPS-STY400</small>	£133 <small>ex VAT</small>	£156.28 <small>inc VAT</small>
EPSON Stylus Color 600 <small>EPS-STY600</small>	£169 <small>ex VAT</small>	£198.85 <small>inc VAT</small>

Camera that prints directly to your Epson Stylus Photo

Exciting new features including 3x digital zoom, built-in 2" colour LCD viewfinder and much more... the most fully featured digital camera in its class.



PhotoPC 600 CAN-BJC620 **£495** **£581**
ex VAT inc VAT

- XGA Resolution up to 1024 x 768 pixels, 24 bit colour images
- Prints directly to the Epson Stylus Photo – no PC required
- Displays presentations directly through video output – no PC required
- High quality built-in 2" LCD colour viewfinder
- 4Mb internal memory and external CompactFlash card (option 4mb, 15Mb)
- PAL TV/Video output for excellent large screen viewing
- Digital zoom, panoramic, B&W and macro image capture modes
- Multi-frame mode (captures 9 sequential shots in 1 frame)
- PictureWorks HotShots, PhotoEnhancer & NetCard, Presto! PhotoAlbum and Epson Photo! Suite software packages for Windows 95 and Power Macs

PRICE REDUCED

Compact 30 bit colour scanner

Compact 400dpi, 30 bit colour scanner for business and home use.



GT-5500 EPS-GT550S **£209** **£245**
ex VAT inc VAT

- Small footprint
- Single pass, full 30 bit colour scanning
- TET (Text Enhancement Technology) for higher OCR accuracy
- AAS (Auto Area Segmentation) for accurate copying and faxing
- Complete, easy-to-use package including both hardware and software



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Save over £80!

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Call us on **FREephone: 0800 777500**

novatech **7**

New HP LaserJet 4000

The new 17-page-per-minute HP LaserJet 4000 warms up in less than 15 seconds and achieves a first page out time with Instant-on-Fuser Accelerated also in less than 15 seconds. Featuring HP Transmit Once capability, it allows Mopying (Multiple Original Prints) with saves on trips to the photocopier. With HP FastRes 1200 (1200 dpi quality) at full speed and (PCL 6) HP ProRes 1200 (True 1200 dpi) at half engine speed (PCL 6 & PostScript) the LaserJet 4000 allows the maximum flexibility in speed and performance. Uses up to five input bins with a total capacity of up to 1,100 sheets and 75 envelopes means less refills and its straight paper path means less jams.

- Resolution Enhancement technology (RET) 220 levels of grey
- Prints 1/6" from edge of the page
- Standard 10,000 page UltraPrecise toner cartridge
- 300 dpi and 600 dpi
- HP JetAssist connector for easy installation of paper handling accessories Paper level indicators
- Standard output capacity of 300 sheets (250 sheets face-down and 50 sheets face-up) with output full sensor
- Standard input capacity of 600 sheets (100 sheet multipurpose tray and a 500 sheet tray or two 250-sheet trays)
- PostScript Level 2 Emulation
- Duty Cycle up to 65,000 pages per month



LaserJet 4000 HP-DJ890C **£749** **£880**
ex VAT inc VAT



LaserJet 5 HP-LJ5 **£674** **£791**
ex VAT inc VAT

- Easier to use
- Intuitive control panel with new "Go" & "Job Cancel"
- Enhanced performance for faster output
- Hardware-assisted scaling, halftoning /compression
- New bi-directional port transfers data twice as fast
- Dependable 35,000 page monthly duty cycle
- Uses the same toner cartridge as HP LaserJet 4 Plus
- HP warranty, reliability, service and support



LaserJet 5Si HP-LJ5Si **£1649** **£1937**
ex VAT inc VAT

- 24 pages per minute
- 40MHz RISC processor
- First page out in 16 seconds
- 600 x 600dpi plus RET & HP microfine toner
- 4Mb upgradeable to 132Mb
- Optional PostScript Level 2

Departmental printers have never been easier to use than the Laserjet 5Si. It is a high volume, high quality machine with a 24 page per minute engine and true 600 x 600 dpi. Point and click control and monitoring of print jobs and the printer itself, reducing time-consuming hassles for both end-user and network administrator.



LaserJet 5Si Mopier HP-LJ5SiMOP **£4326** **£5083**
ex VAT inc VAT

- 24 page per minute
- 3,100 sheet capacity with 4 input sources
- Send multiple print jobs once, collated at the Mopier
- Mailbox & stapler offers 5 addressable output sources
- A3 paper size max. size 297 x 450mm
- 600 x 600 dpi with microfine toner
- 12Mb upgradeable to 76Mb
- Handles 60gsm to 200gsm paper
- Enhanced software for Windows 3.1 & 95

With the new 'HP transmit once' feature, the HP Laserjet 5Si Mopier is ideal for making Multiple Original Printouts (MOPies) in conjunction with lower network traffic. And because each MOPy is a laser-sharp original, there is no generational deterioration in quality.

LaserJet 5N HP-LJ5N **£847** **£995**
ex VAT inc VAT

- Network ready for Ethernet 10Base-T environments
- Novell NDPS capability with latest version of Netware
- Industry standard parallel, serial & wireless ports

LaserJet 5M HP-LJ5M **£997** **£1179**
ex VAT inc VAT

- Network ready PC/Mac environments
- Genuine Adobe, PostScript Level 2 & new HP PCL 6
- Industry standard parallel, serial & wireless ports

Laser Toner Finder for Hewlett Packard

	5N	5M	5Si	5Mop	6P	6L	Product Code	Price
Toner	●	●	●	●	●	●	LTC03	£66.50
Toner	●	●	●	●	●	●	LTC04	£144.76
Toner	●	●	●	●	●	●	LTC05	£278.07
Toner	●	●	●	●	●	●	LTC05	£41.88

Full Consumables listings inside back cover. ex VAT



We won't be beaten. See back page.

Call now for Next Day Delivery
Please read the order information on the back page before ordering.

Brilliant photo-quality colour for every business need!

Add vibrant, natural-looking colour to all your business documents faster than ever-with the HP DeskJet 890C Professional Series printer.

The HP DeskJet 890C with HP PhotoREt II delivers the smallest ink drops in the inkjet printing industry as compared to other desktop inkjet printers. The result? More shades of colour for brilliant photo-quality images on any paper-plain or special.



HP PhotoREt II

You'll spend less time waiting for the printer, and more time managing your business.



- Multiple users with optional HP DirectJet print servers
- 3,000 pages per month duty cycle
- Compatible with DOS, Windows 3.1x, 95, NT 4.0
- Handles a wide variety of media
- 9 pages per minute black
- 5 pages per minute colour
- One year warranty

DeskJet 890C HP-DJ890C **£255** **£299**
ex VAT inc VAT



DeskJet 670C+ HP-DJ670C **£121** **£142**
ex VAT inc VAT

Incredible Printer, Incredible Value!

- RealLife system for true-to-life imaging
- Two built in cartridges. 1 black, 1 colour
- Up to 4 pages per minute black
- Up to 1.5 pages per minute colour
- Windows and DOS compatible

Achieving great quality with affordable costs has never been easier: the HP DeskJet 670C has two built in cartridges – one for colour and one for black – which means there is no need to switch between cartridges.

Inkjet Cartridge Finder for Hewlett Packard

DeskJet	400L	670C	690C	Product Code	Price	Full Consumables
Black	●				£12.89	Listings including coated paper inside back cover.
Colour	●				£15.67	
Black		●	●	E-51629A	£12.90	
Colour		●	●	E-51649A	£19.18 ex VAT	



DeskJet 690C+ HP-DJ690C **£150** **£176**
ex VAT inc VAT

- Now Includes HP Photo Cartridge
- 600 x 600 dpi mono
- 600 x 300 dpi colour
- 30 TrueType fonts
- 512K RAM, 32K receive buffer
- Black Econofast 1.7 ppm (normal mode 0.8 ppm)
- Colour 1.7 ppm (normal 0.8 ppm) 0.25 Photo Cart



LaserJet 6L HP-LJ6L **£232** **£272**
ex VAT inc VAT

- Rapid results thanks to a 24MHz processor
- 18 seconds for first-page-out
- Instant Fuser eliminates warm up time
- Quick return-to-application
- Sharp blacks & true greys with 600 x 600 dpi
- HP's exclusive Resolution Enhancement technology
- Fast, 6 page per minute engine
- 1Mb RAM expandable to 9Mb



LaserJet 6P HP-LJ6P **£480** **£564**
ex VAT inc VAT

- True 600 dpi output with RET
- 24 Mhz Intel RISC processor
- 2 Mb RAM upgrade to 50Mb
- 8 pages per minute
- 65 TrueType fonts



Call us on FREEPHONE: 0800 777500

novatech **9**

New Creative Colour Printer

- New image optimizer technology
- Allows enlarging & printing without 'jaggedness'
- Mono 720 x 360 dpi Colour 360 x 360 dpi
- T-shirt transfer & new GP-201 glossy paper
- Improved Windows 3.1x/95 driver -
- Better colour matching
- PhotoRealism™ & fluorescent inks available
- 100 sheet built-in sheet feeder
- More media Support - banners & glossy paper
- Automatic power off function
- 1 Year return to Canon Warranty
- Reduction facility using IBM/Epson emulations - A3 to A4



Free holiday voucher with your BJC-250!

£140



Canon BJC-250

CAN-BJC250

£101

ex VAT

£118

inc VAT

- Free £140 Thomas Cook holiday voucher
- Free BC-02 mono cartridge (RRP £19.99 ex VAT)
- Free Print Master Gold software

Complete independence when you're out & about

Travel around the world with the BJC-80 and you'll always have the facility for high quality A4 printing at your fingertips. Compact, lightweight and easily portable, it outputs bright, vivid colours at unrivalled colour quality for a portable in its class.

The BJC-80 offers true portability with an optional battery pack i.e., no need for mains power.

It also offers a built in infra red which provides easy cordless communication.



NEW PRODUCT!

- 720 x 360 dpi mono on plain paper with smoothing
- 720 x 360 dpi colour graphics/photos
- 4.5 ppm - draft mode mono
- 1.9 ppm - high speed colour graphics
- Incorporates new Image Optimizer technology - smoothes away jagged edges
- New BC-11e Cartridge - Smudge proof and fade resistant
- Automatic sheet feeder - carries 30 sheets at a time
- Built in IrDA sensor for automatic infra red communication - Windows 95 only
- Compatible with Windows(95, 3.1x and NT
- Optional colour image scanner cartridge - 360 dpi resolution (Windows only)
- Optional universal power adapter - Enables local power supply wherever you travel in the world
- One year return to Canon warranty - operates on an international basis

An exciting new accessory is the availability of an optional Colour Image Scanner Cartridge which enables the scanning of full colour photos, images and documents at 360 dpi, straight into your PC!

Canon BJC-80

CAN-BJC80

£142

ex VAT

£166

inc VAT

Canon BJC-80 plus scanner cartridge

CAN-BJC80+

£185

ex VAT

£217

inc VAT

Intense colour that shines out every time

The BJC-4300 is equally at home in the study or office. For family and business use, from club newsletters to working at home, every document you produce will be in high quality, impressive colour.

An optional colour Image Scanner Cartridge is available which enables the scanning of all colour photos, images and documents. This gives you full colour sheet fed scanning capability up to 360 dpi resolution. When scanning is complete simply replace the cartridge with an ink cartridge and the BJC-4300 is ready to print.



Thomas Cook

Two new technologies are also available with this product: **Image Optimiser** processing technology improves the quality of low resolution images such as those you might capture from the Internet. **£200**

- 720 x 360 dpi mono on plain paper with smoothing
- 720 x 360 dpi colour graphics
- 360 x 360 dpi using drop modulation technology
- 4.5 ppm - draft mode mono
- 0.23 ppm - standard speed colour graphics
- Incorporates new image optimizer technology
- Drop modulation technology
- New BC-21e cartridge - smudge proof and fade resistant
- Compatible with Windows 95, 3.1x and NT
- Optional colour image scanner cartridge - 360 dpi resolution (Windows only)
- Supports all types of media including new Banner paper
- One year return to Canon warranty

Drop Modulation Technology ensures printed images have greater depth of colour, subtlety of shading and less grain than those produced by printers with supposedly higher resolutions.

Canon

CANON. YOUR FIRST CHOICE

Canon BJC-4300

CAN-BJC4300

£139

ex VAT

£163

inc VAT

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PRICE

We won't be **Call now for Next Day Delivery** beaten. See back page. Please read the order information on the back page before ordering.

- 4 pages per minute
- 600 dpi with MicroRes 600
- Improved Windows driver
- Improved paper guide system
- New Windows NT 4.0 driver
- Improved cover latch



A4 footprint!

The OKIPAGE 4W LED printer is one of the smallest personal page printers available. It takes up less space on your desk than a sheet of A4, so it is an excellent choice wherever space is at a premium. The 4W is a 4 page per minute LED printer and can deliver an outstanding 600 dpi class output for razor sharp text, graphics and photography from all your Windows software. Plus it features a generous 100-sheet autofeed.

OKI

Toner Finder for OKI Printers

Printer:	4W+	6ex	16m	Product Code	Price
Toner:	•			LTC45	£17.36
Toner:		•		LTC26	£16.44
Toner:			•	LTC09	£34.13
					ex VAT

Full Consumables listings inside back cover.

OKIPAGE 4W Plus

OKI-4W

£155

£182



HL730 Plus

BRO-HL730

£199 £233

- Fast 6 pages per minute
- 600dpi printing in MS Windows
- Auto Email Printing software
- 1Mb standard memory
- Intelligent sleep mode
- Straight paper path technology



HL760

BRO-HL760

£229 £269

- Fast 6 pages per minute
- 1200 x 600 dpi printing in MS Windows
- Brother's Printing System for Windows
- PCL4e emulation for MS-Dos printing
- Straight paper path + 200 Sheet tray
- Optional interface for networking

Entry Level through to professional user laser printers

Introducing Brother's range of Laser Printers, the HL-730, an entry level 6 page per minute laser engine design. True 600 dots per inch quality print for clear, crisp text and images. Still using Brother's excellent 'straight paper path' design. Paper input is 200 sheets. The first page print time is less than 20 seconds! Windows and DOS compatible. Separate drum and toner reduce the running costs making this printer not only economical to buy but economical to use.

The HL-760 has the same features of the HL-730 with the added benefits of 1200 x 600 dpi, PCL5e (HPIV) and Windows emulation, RISC processing power and extra memory for more graphics intensive applications.



HL1060

BRO-HL1060

£399 £468

- Fast 10 pages per minute
- 1200 x 600dpi
- PCL5e emulation
- Optional postscript Level 2 emulation
- 2Mb Ram expandable to 34Mb
- Paper weight 60gsm - 158gsm
- Networking Models available
- 12 bitmap, 49 scaleable fonts



HL1260

BRO-HL1260

£599 £703

- Fast 12 pages per minute
- 1200 x 600dpi
- Postscript Level 2 & PCL5e emulation
- 2Mb Ram expandable to 66Mb
- Dual Bin - 150sheet + 500sheet
- Optional 500 bin & duplex unit
- Networking Models available
- 12 months on-site warranty

Laser Toner Finder for Brother Printers

Brother	HL730	HL760	HL1060	HL1260	Product Code	Price
Toner:	•				LTC52	£19.17
Toner:		•			LTC53	£13.89
Toner:			•		LTC03	£66.50
						ex VAT

Full Consumables listings inside back cover.

Call us on FREEPHONE: 0800 777500

novatech 11

New digital cameras from Olympus...

**NEW
PRODUCT**



- 640 x 480 (high res) – 350,000 pixel imager
- 3.3v Smart Media Cards increase versatility
- Supplied with replaceable 2 Mb Smart Media Card
- SM Cards available in 2Mb, 4Mb & soon 8, 32 & 64Mb!
- Panorama function for synthesising up to 20 images

**PRICE
REDUCED**

Olympus C-420L

MAT-ME3D

£388 ~~£455~~

ex VAT

inc VAT



- 1024 x 768 (high res) – 810,000 pixel imager
- 3.3v Smart Media Cards increase versatility
- Supplied with replaceable 2 Mb Smart Media Card
- SM Cards available in 2Mb, 4Mb & soon 8, 32 & 64Mb!
- Panorama function for synthesising up to 20 images

**PRICE
REDUCED**

Olympus C-820L

MAT-ME22

£683 ~~£802~~

ex VAT

inc VAT

All-in-one SLR digital camera



- High Resolution 1,400,000 pixel CCD imager
- Aspherical 3x zoom lenses
- Developed from decades of Olympus optical experience
- Allows wide angle landscapes & effective close-ups
- f2.8 lens with zoom range equivalent to 36-110mm in 35mm

**PRICE
REDUCED**

Olympus C-1400L

OLY-1400

£1009 ~~£1185~~

ex VAT

inc VAT

Personal Digital Photo Lab



- Dye sublimation printer for brilliant picture quality
- Less than two minute to produce postcard size prints
- Print directly from camera or via PC

OLYMPUS

**PRICE
REDUCED**

Digital Photo Lab

OLY-300E

£466 ~~£547~~

ex VAT

inc VAT

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**PRICE
REDUCED**

We won't be beaten. See back page.

Call now for Next Day Delivery

Please read the order information on the back page before ordering.

Award-winning scanners



PC Direct
HITS
AWARDS '97

THAT BUNCHY LIST
SCANNER LABS

14 day
money
back

ScanTak 2C

SPO-ST2C

£89 **£104**
ex VAT ex VAT

The ScanTak-2c A4 flatbed is winning awards all over the world. And it's not difficult to see why. Superb value package with Scantastic™ software incorporating sophisticated image manipulation and OmniPage OCR from Caere.

Single-Pass, 24-Bit Colour Scanner

RESOLUTION	300 X 600 dpi
INTERPOLATED	4,800 x 4,800
MODES	Colour, Greyscale, B/W
24-BIT COLOUR	16.7 Million
8-BIT GREYSCALE	256 Shades
MAX SCAN AREA	216 x 297mm
DIMENSIONS	488 x 297 x 56mm
WEIGHT	3.5 KG

SCANTASTIC SOFTWARE INCLUDES:

Interactive Prescan Window:	Colour and B / W
Batch Scan:	Scan more than one window
Downloadable Gamma Correction:	Gamma value
Shadow / Highlight:	B or W point setting
Zoom In / Out Prescan	Real Time Flip / Invert
Optical Character Recognition	Image Editing
Business Card Reader	Colour Matching
Scan to E-mail	Colour Copy
Fax Enhancement	Slide Show
Digital Copy	Photo Album
Auto Image Enhancement	Magic Morphing

SYSTEM REQUIREMENTS

IBM PC 486	8Mb RAM
MS-DOS 6.0	Windows 3.1x, 95

SPOT
The Most Advanced Graphics

Scan negatives & prints!



FotoTak-6

SPO-PT6

£129 **£152**
ex VAT ex VAT

The FotoTak-6 scans transparencies as well as prints for only £129! Perfect for web page images, family photos and any image A5 size or smaller. After all, how often do you scan entire pages?

ComputerLife
Buy it

14 day
money
back

Single-Pass, 24-Bit Colour Scanner

RESOLUTION	600 x 1200 dpi
MODES	Colour, Greyscale, B/W
24-BIT COLOUR	16.7 Million
8-BIT GREYSCALE	256 Shades
MAX SCAN AREA	178 x 127mm
DIMENSIONS	330 x 188 x 46mm
WEIGHT	1.5 KG

SCANTASTIC SOFTWARE INCLUDES:

'Net Web Publisher	Metatools - Power Goo Lite
Micrografx - Greeting Card	Windows Draw
Scan-on-T-Shirt Program	Scan to Puzzle Game

SYSTEM REQUIREMENTS

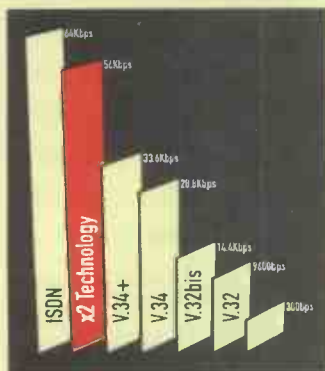
IBM PC	8Mb RAM
486	Windows 95

SPOT
The Most Advanced Graphics

Call us on **FREEPHONE: 0800 777500**

novatech 13

Get connected in a Flash!



Download from the Internet at an amazing 56Kbps with the new Sportster Flash – the first x2 ready Sportster from US Robotics. Nearly 100% faster than the highest speed currently available over normal telephone lines.



And you'll be able to download upgrades when ITU-T 56K standard etc are available – over 100 major Internet and On-line services have agreed to adopt x2 technology worldwide.

Faxmodem with Personal Voice Mail

With free Internet trials plus all the necessary cables and connectors you'll need to get on-line, Sportster Voice allows you to be up and running within minutes of taking it out of the box. You'll also be backed by a five year warranty and free lifetime technical support.

Sportster Sportster Voice 33K **£96** **£112**
ex VAT inc VAT

Sportster Sportster Flash **£106** **£124**
ex VAT inc VAT

Sportster ISDN Terminal Adapter



Sportster ISDN TA is a low-cost, easy to use terminal adapter for ISDN connectivity. ISDN is the fast developing technology which works over a totally digital network, and allows for clear visual communication from your workplace.

Sportster ISDN **£107** **£125**
ex VAT inc VAT

Internal Faxmodem for Windows

Designed exclusively for the Windows environment, the Sportster Winmodem provides 33.6 'net access, fax, voice mail and speaker-phone facilities at an amazingly low price.



5 year warranty
Free 'net trials with:
Virgin, AOL, Netcom & CompuServe
Free lifetime technical support

WinModem **£68** **£79**
ex VAT inc VAT

All Modems are:

APPROVED for connection to telecommunications systems specified in the instructions for the use subject to the conditions set out in them.

US Robotics
The Intelligent Choice in Information Access



High Speed connection at low prices.



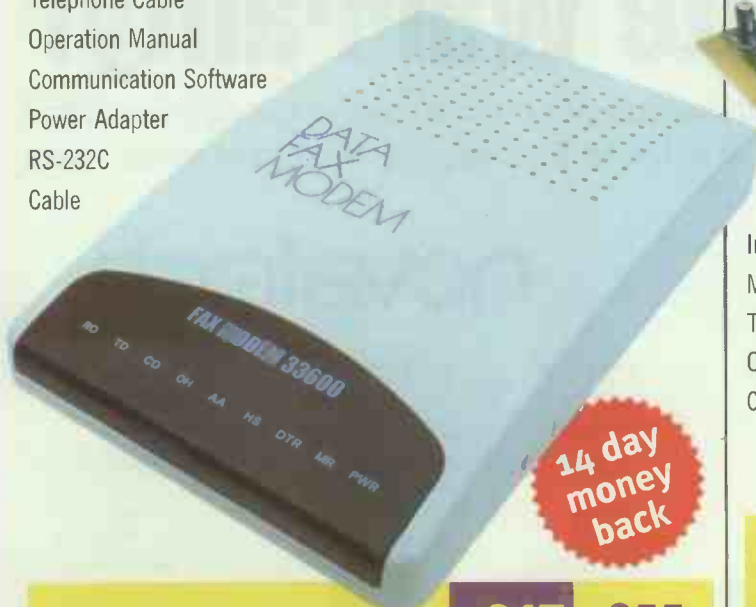
These superb modems feature in our Top Ten best sellers every month!

- Free 30 day internet connection at 33.6
- Supervoice 2/Fax/Voice software
- 14,400 bps Fax
- Group 3 compatible
- Fully B.A.B.T. approved
- Pipex Dial Trial at 33.6
- Auto Dialing
- Auto Answering
- Auto Speed Selection
- Power On Self Test
- MS Windows 95

- Free 30 day internet connection at 33.6/56
- Supervoice 2/Fax/Voice software
- 14,400 bps Fax
- Group 3 compatible
- Fully B.A.B.T. approved
- Pipex Dial Trial at 33.6
- Auto Dialing
- Auto Answering
- Auto Speed Selection
- Power On Self Test
- MS Windows 95

Includes:

- Modem Unit
- Telephone Cable
- Operation Manual
- Communication Software
- Power Adapter
- RS-232C
- Cable



14 day money back

33.6 Netsurfer2 Ext NOV-NS33/E

£47

£55



14 day money back

Includes:

- Modem Unit
- Telephone Cable
- Operation Manual
- Communication Software

33.6 Netsurfer2 Int NOV-28BINT

£38

£44

56K Netsurfer2 Int

£59

£69

All Modems are:

APPROVED for connection to telecommunication systems specified in the instructions for use subject to the conditions set out in them.

novatech

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novatech 15

Monitors



19" Microscan 6P (18"v)

- Use 1280 x 1024 and 1600 x 1200 flicker free
- Integral Microphone, stereo speaker option
- 0.26mm dot pitch, TCO 95 approved
- Built in USB hub

ADI Microscan 19" ADI-19 **£579** ex VAT **£680** inc VAT



- ## 17" Microscan 5G (16"v)
- Resolution 1280 x 1024 & 1600 x 1200 flicker free
 - 0.26 Dot pitch for sharp focus
 - On Screen display and colour adjustment
 - TCO 95 approval as standard

PRICE REDUCED
ADI Microscan 5G ADI-5G **£369** ex VAT **£433** inc VAT



- ## 15" Microscan 4P (13.8"v)
- New look Microscan monitor with added features
 - Integral microphone and stereo speaker option
 - Resolution of 1024 x 768 flicker free
 - USB hub option for easy peripheral connection

PRICE REDUCED
ADI Microscan 4P ADI-4V **£165** ex VAT **£193** inc VAT

Display Excellence

- 14"-21" Professional colour monitors
- Superb value for money compared to other leading brands
- Award winning monitors
- 3 year warranty (2 year on site, 3rd year RTB)
- See page 27 to choose from the complete ADI range.



Personal Computer World
ADI 17" 5G



ADI 17" 5G

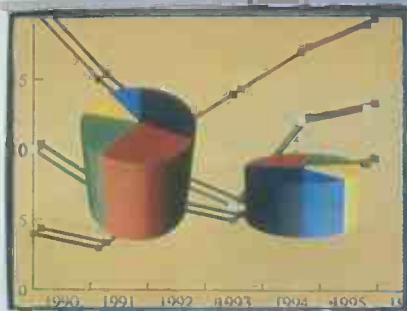


Three year on-site warranty!

For the ultimate peace of mind, a three year on-site warranty cannot be beaten. If anything goes wrong, a technician comes to you!



14 day money back



Size (viewable)	14" (13.2")	15" (13.8")	17" (15.9")	17" (15.9")	21"
Screen	Diagonal FST	Diagonal FST	Diagonal FST	Diagonal FST	Diagonal FST
Dot Pitch	0.28mm	0.28mm	0.27mm or 0.28mm	0.25mm or 0.26mm	0.26mm
Reflection	Non-Glare	Non-Glare	Non-Glare	Non-Glare	Non-Glare
Synchronization					
Horizontal	30-48KHz	30-55KHz	30-69KHz	30-85KHz	30-85KHz
Vertical	50-120Hz	50-120Hz	50-120Hz	50-120Hz	
User controls					
OSD control	Yes	Yes	Yes	Yes	Yes
MPRII	Yes	Yes	Yes	Yes	Yes
AC POWER					
AC Input (50/60 Hz)	90-264V AC	90-264V AC	100-264V AC	100-264V AC	100-250V AC
Video					
Band Width	65MHz	65MHz	110MHz	120MHz	
connector	15pin, D-sub	15pin, D-sub	15pin, D-sub (M)	15pin, D-sub (M)	15pin, D-sub (M)
Plug-N-Play	Yes	Yes	Yes	Yes	DDC1/2B
Maximum Resolution	1024 x 768 @ 60 Hz	1024 x 768 @ 60Hz	1024 x 768 @ 85 Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 82Hz
Physical Characteristics					
L x W x H	439mm x 455 x 405	459mm x 446 x 492	1280 x 1024 @ 60 Hz	1600 x 1200 @ 66 Hz	1600 x 1200 @ 70 Hz
Weight	11.5Kg	12.7Kg	544mm x 530 x 553	544mm x 530 x 553	
Warranty	3 Year On-site	3 Year On-site	17.6Kg	19.14Kg	
Product Code	NOV-1428	NOV-1528	3 Year On-site NOV-1728	3 Year On-site NOV17/26	NOV21/28
Ex Vat	£102	£144	£263	£333	£809
Inc Vat	£120	£169	£309	£391	£951



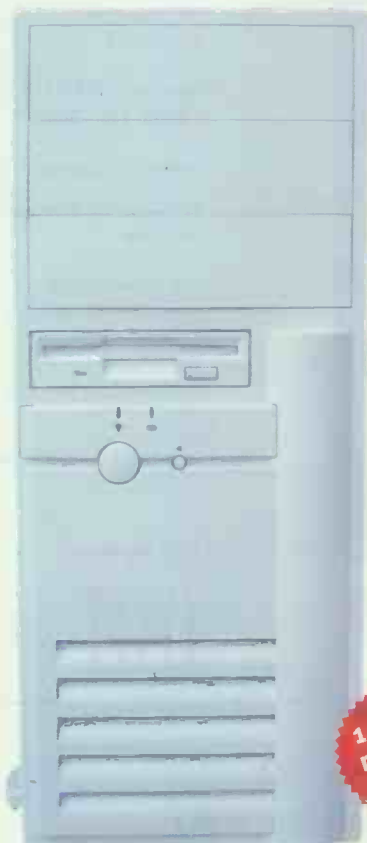
We won't be beaten. See back page.

Call now for Next Day Delivery

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Do it Yourself...

A cost effective way to upgrade your PC and take advantage of the latest technology



14 day money back



With the explosion of new technologies more and more people want to upgrade their systems but don't need to replace all the expensive components on board. Top of the list for upgrading are CPU's, Memory and the ability to fit the latest PCI cards. Novatech have introduced a range of Self Build Systems which provide the bare bones of an upgradeable PC. Allowing you to utilise your existing HDD, Graphics card etc thus reducing dramatically the cost of the project while benefiting from the devices built into the new motherboard including USB, I/O, Cache, ATX Power(ATX System only). Alternatively by adding components from the extensive Novatech range you can very inexpensively build a complete new computer.

*Case designs subject to change without notice.

ATX System **£189** **£222** ex VAT inc VAT

- Elite P5 TX-A ATX Motherboard with:
- Award Flash Bios
- Intel TX Chipset
- Processor Support
One Socket 7 which supports:
Pentium P200MMX
AMD K6
Cyrix IBM 6x86+
- Expansion Slots
3x16 bit ISA Slots
4x32 bit PCI Slots
- Memory
3 Dimm Sockets supporting 256Mb
- Cache Ram
512K On Board
- I/O Ports
2 High Speed 16s550 UART Serial Ports
1 EPP/ECP Parallel Port
- 2 USB Ports
- PS/2 Mouse and Keyboard Connectors
- On - board I/O for 2FDD & 4 IDE Devices
- Novatech ATX Midi Tower Case with :
3x 5.25" Drive Bays
2x 3.5" Drive Bays
235 Watt ATX Power Supply
- 3.5" 1.44Mb Floppy Disk Drive
- Warranty 12 Months Exchange

AT System **£99** **£116** ex VAT inc VAT

- VX Motherboard with:
- Award Flash Bios
- VX Pro Chipset
- Processor Support
One Socket 7 which supports:
Pentium P200MMX
AMD K6
Cyrix IBM 6x86+
- Expansion Slots
3x16 bit ISA Slots
4x32 bit PCI Slots
- Memory
2 Dimm Sockets
4x 72 Pin EDO
- I/O Ports
2 High Speed 16s550 UART Serial Ports
1 EPP/ECP Parallel Port
- USB Connector on Board
- AT Keyboard Connectors
- On - board I/O for 2FDD & 4 IDE Devices
- Novatech AT Midi Tower Case with :
3x 5.25" Drive Bays (1 with Removable HDD Cradle)
2x 3.5" Drive Bays
200 Watt Power Supply
- 3.5" 1.44Mb Floppy Disk Drive
- Warranty 12 Months Exchange

Now with
**512K Cache
on board**

PCW Built One!

"Plugging the whole lot together and watching it go is definitely a satisfying experience... Novatech's technical support line is also a major selling point"

PCW August '97

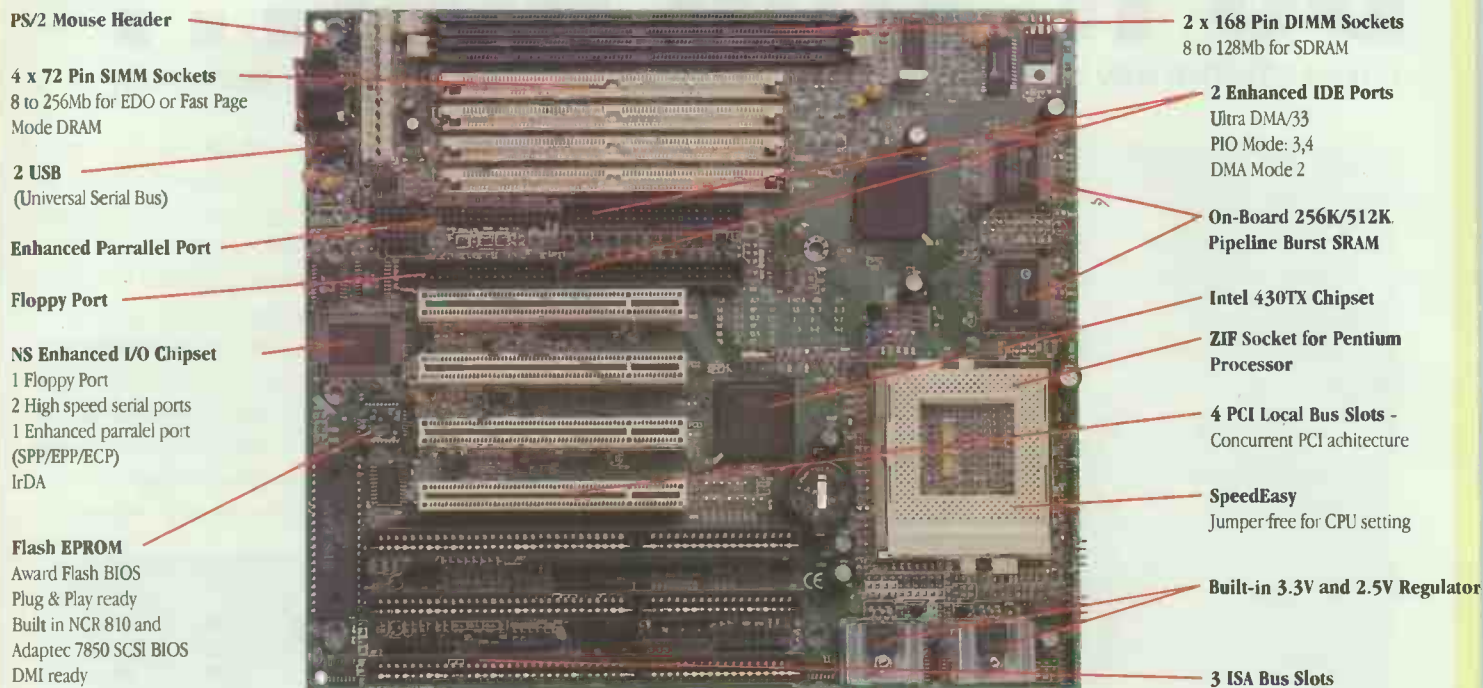
Personal Computer World recently put together a Novatech Bare Bones system for £1,500 including software and a printer. Below we have listed two typical systems which you can build using Novatech products:

ATX System		AT System	
Bare Bones	£189	£99	Bare Bones
Intel P200 MMX	£166	£81	AMD K6/166
16 Mb SD Ram	£56	£20	8 Mb Ram
4.0 Gb HDD	£149	£94	1.7 Gb HDD
Novatech 20 Speed CD	£49	£49	Novatech 20 Speed CD
Novatech 33.6 Int. Modem	£38	£38	Novatech 33.6 Int. Modem
Novatech Magic 3D Voodoo	£119	£35	Novatech S33D Video Card
Novatech 3D Sound Card	£19	£19	Novatech 3D Sound Card
Novatech 15" Monitor	£144	£105	Novatech 14" Monitor
Novatech PS2 Keyboard	£14	£8	Windows Keyboard
PS2 3 Button Mouse	£14	£6	3 Button Mouse
Total Cost Ex Vat	£957	£554	

Call us on FREEPHONE: 0800 777500

novatech 17

World Class Motherboards



PS/2 Mouse Header

4 x 72 Pin SIMM Sockets
8 to 256Mb for EDO or Fast Page Mode DRAM

2 USB
(Universal Serial Bus)

Enhanced Parallel Port

Floppy Port

NS Enhanced I/O Chipset
1 Floppy Port
2 High speed serial ports
1 Enhanced parallel port (SPP/EPP/ECP)
IrDA

Flash EPROM
Award Flash BIOS
Plug & Play ready
Built in NCR 810 and Adaptec 7850 SCSI BIOS
DMI ready

2 x 168 Pin DIMM Sockets
8 to 128Mb for SDRAM

2 Enhanced IDE Ports
Ultra DMA/33
PIO Mode: 3,4
DMA Mode 2

On-Board 256K/512K Pipeline Burst SRAM

Intel 430TX Chipset

ZIF Socket for Pentium Processor

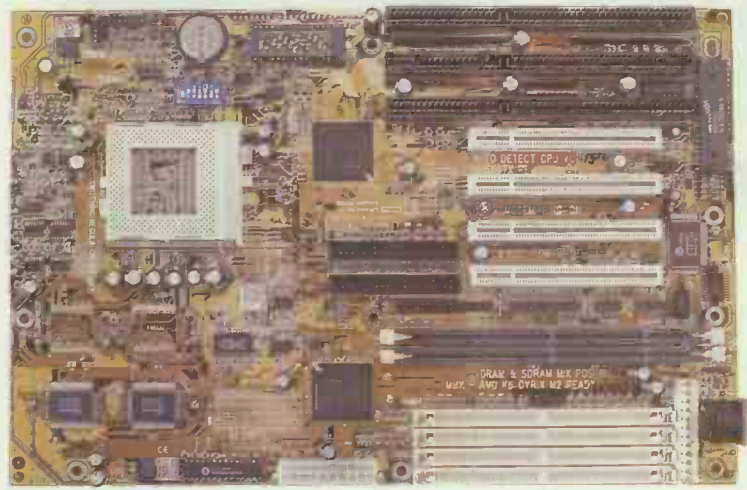
4 PCI Local Bus Slots - Concurrent PCI architecture

SpeedEasy
Jumper free for CPU setting

Built-in 3.3V and 2.5V Regulator

3 ISA Bus Slots

QDI Titanium TX/B Motherboard ODI-EXP2 **£83** vs AT **£97** vs AT



- Intel 75-200Mhz Pentium Processor (OverDrive, MMX)
- AMD K5/Cyrix 6x86 Processor support
- 256KB/512KB PB SRAM
- 8-256MB EDO/FP/Sync. DRAM
- 4 x 72 pin SIMM socket
- 2 x 168 pin DIMM socket
- 4 x Master PCI slot
- 3 x ISA 16 bit slot
- ATAPI & high speed I/O
- USB port (optional)

Gigabyte Intel 430TX Motherboard GIG-TX **£89** vs VAT **£104** vs VAT

Special Function	CPU over heat protect Switching mode Voltage regulator on Board Modem Ring On, Win95 Power Off	PCI IDE	2 x Pci Bus Master IDE ports (up to 4 IDE Devices) Support PIO Mode 3,4 IDE & Atapi CD ROM Support DMA Mode 1,2 & Ultra DMA/33
Processor	Intel Pentium Processor 90-200Mhz (Auto detect & Setup Intel P55C Processor) AMD K5/K6 Processor support Cyrix IBM/6 x 86/M2 Processor support ZIF Socket 7 for the Intel Pentium OverDrive Processor, MMX Processor	I/O Interface	AT Keyboard & PS/2 Mouse support 1 x floppy port (up to 2.88Mb) 2 x serial ports (16550 high speed) 1 x parallel port (EPP/ECP) 2 x USB ports (optional) IrDA TX/RX Header (optional)
Chipset	Intel 82430TX PciSet UMC 8669 I/O chip	Expansion Slot	4x PCI 32 bits slots 3 x ISA 16 bit slots
Cache Memory	256KB/512KB PB SRAM on board	BIOS	128Kb Flash Eeprom Award Pci Bios with Green Plug & Play features support
System Memory	8Mb to 256Mb DRAM size Support 4 x 72 pin 32/36 bit access capability Support 2 x 168 pin 64/72 bit Dimm module Use 4/8/16/64/128Mb Simm module DRAM with fast page Mode or EDO DRAM and sync. DRAM (3.3v)	Board Size	AT Form Factor



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WinBench 97 Test Results

Pentium P166	340
AMD K5 PR 166	348
Pentium P200 MMX	428
AMD K6 PR166 MMX	470
AMD K6 PR200 MMX	518
Pentium Pro P200	608
AMD K6 PR233 MMX	627



AMD K6 166Mhz	AMD-K6/166	£62 <small>ex VAT</small>	£72 <small>inc VAT</small>
AMD K6 200Mhz	AMD-K6/200	£112 <small>ex VAT</small>	£131 <small>inc VAT</small>
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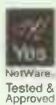
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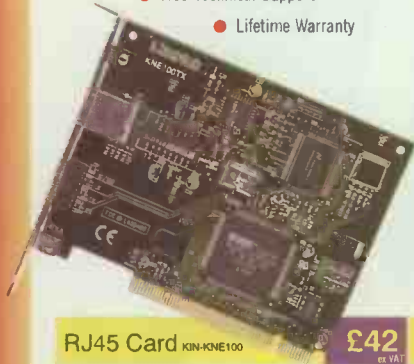
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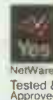
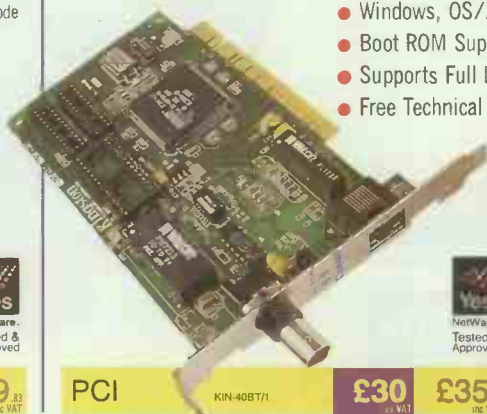
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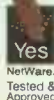
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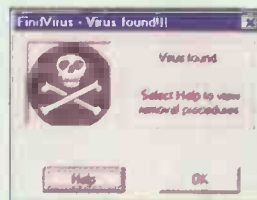
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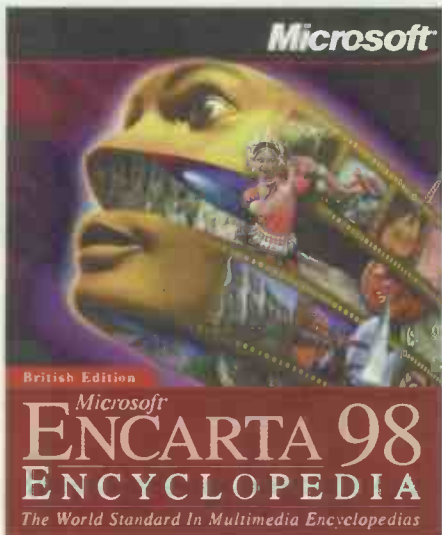
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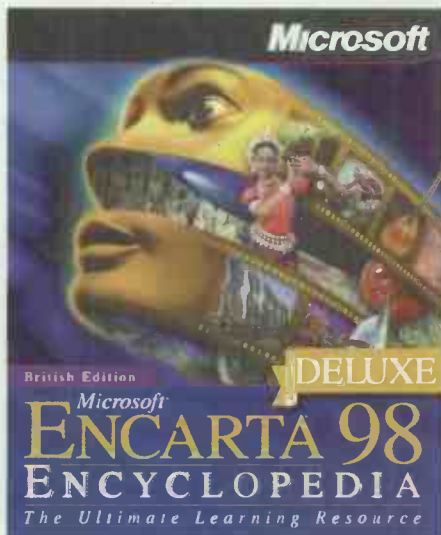
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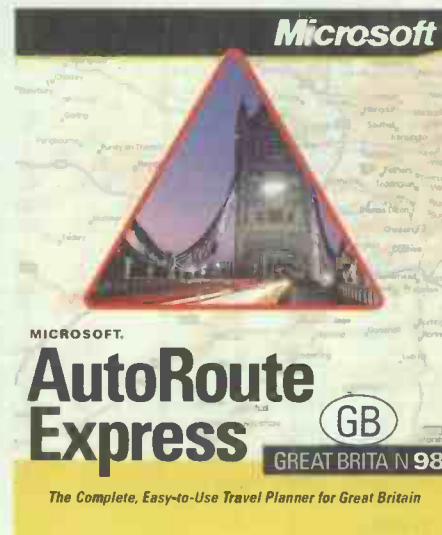
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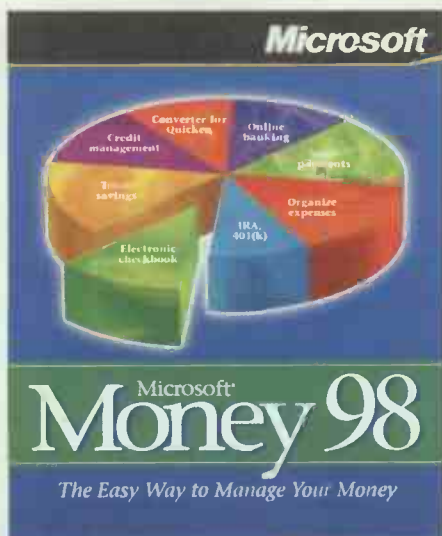
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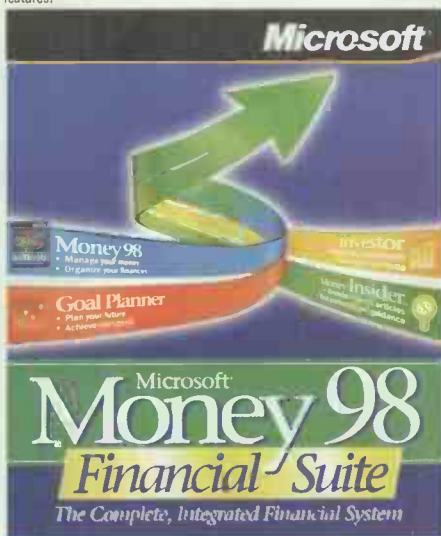
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BRO-HL760	HL760 1Mb 600dpi	£229	£269.08
BRO-HL765	HL760 5Mb 600dpi	£245	£287.88
BRO-HL1060	HL1060 600dpi 10ppm	£399	£468.83
BRO-HL1066	HL 1060 6Mb 600dpi	£415	£487.63
BRO-HL1260	HL1260e 2Mb 600dpi 12ppm	£599	£703.83
BRO-HL1266	HL1260e 6Mb 600dpi 12ppm	£615	£722.63
BRO-HL1660	HL1660 10Mb 16ppm	£716	£841.30

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CAN-BJC80+	BJC 80 Plus Scanner	£191	£224.43
CAN-BJC150	BJC150	£95	£111.63
CAN-BJC250	BJC250 Colour	£105	£123.38
CAN-BJC430	BJC 4300	£139	£163.33
CAN-BJC455	BJC4550 A3 Portrait Colour	£186	£218.55
CAN-BJC555	BJC5550 A3 Colour	£441	£518.18
CAN-BJC620	BJC620 Colour	£165	£193.88
Lasers			
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EPS-LX1050	LX1050+	£202	£235.00
EPS-FX870	FX870	£247	£290.23
EPS-FX1170	FX1170	£307	£360.73
EPS-FX2170	FX2170	£395	£464.13
EPS-DFX500+	DFX5000+	£1,226	£1,440.55
EPS-DFX800	DFX8000	£1,911	£2,245.43

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EPS-LQ570	LQ570+	£216	£253.80
EPS-LQ670	LQ670	£230	£270.25
EPS-LQ870	LQ870	£377	£442.98
EPS-LQ2070	LQ2070	£330	£387.75
EPS-LQ2170	LQ2170	£468	£549.90

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EPS-STY300	Stylus Colour 300	£106	£124.55
EPS-STY400	Stylus Colour 400	£133	£156.28
EPS-STY600	Stylus Colour 600	£169	£198.58
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EPS-STYPHO	Stylus Photo	£308	£361.90
EPS-STYCXL	Stylus Pro XL+	£446	£524.05
EPS-STY152	Stylus 1520 A2 Portrait	£593	£696.78
EPS-STY3A2	Stylus 3000 A2 1440dpi	£1,118	£1,313.65

Lasers

		Exc Vat	Inc Vat
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EPS-EPL55P	EPL5500 5Mb P/Script	£570	£669.75
EPS-N1200	EPL-N1200 600dpi 12ppm	£593	£696.78
EPS-N1200N	EPL-N1200 Network	£791	£929.43
EPS-N1200P	EPL-N1200 Postscript	£986	£1,158.55
EPS-N2000	EPL-N2000	£1,278	£1,501.65
EPS-N2000P	EPL-N2000 Postscript	£1,582	£1,858.85

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HP-DJ340C	DeskJet 340	£144	£169.20
HP-DJ340CB	DeskJet 340 + Batt + I/Red	£166	£195.05
HP-DJ400L	DeskJet 400L Color	£86	£101.05
HP-DJ670C	DeskJet 670C	£121	£142.18
HP-DJ690C	DeskJet 690C + Photo Cart	£150	£176.25
HP-DJ690PS	DeskJet 690C + Photo Stu.	£158	£185.65
HP-DJ870CX	DeskJet 870Cxi	£202	£237.35
HP-DJ890C	DeskJet 890 Colour	£255	£299.63
HP-DJ1100C	DeskJet 1100 Colour	£285	£334.88
HP-DJ1600C	DeskJet 1600C	£871	£1,023.43
HP-DJ1600M	DeskJet 1600CM PS	£1,280	£1,504.00
HP-OJ590	OfficeJet 590	£341	£400.68
HP-OJ1150C	OfficeJet 1150C Scan, copy	£491	£576.93

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HP-LJ6P	LaserJet 6P	£480	£564.00
HP-LJ6MP	LaserJet 6MP	£592	£695.60
HP-LJ5	LaserJet 5	£674	£791.95
HP-LJ5N	LaserJet 5N Network	£847	£995.23
HP-LJ5M	LaserJet 5M	£997	£1,171.48
HP-LJ4V	LaserJet 4V A3	£1,184	£1,391.20
HP-LJ4MV	LaserJet 4MV Pscript A3	£1,724	£2,025.70
HP-LJ5Si	LaserJet 5Si	£1,649	£1,937.58
HP-LJ5SiN	LaserJet 5SiNX Network	£1,799	£2,113.83
HP-LJ5SiMX	LaserJet 5SiMX	£2,249	£2,642.58

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		Exc Vat	Inc Vat
HP-LJ5MOP	LaserJet 5Si MOPIER	£4,326	£5,083.05
HP-LJ4000	LaserJet 4000 C4118A	£749	£880.08
HP-LJ400T	LaserJet 4000T C4119A	£855	£1,004.63
HP-LJ400N	LaserJet 4000N C4120A	£963	£1,131.53
HP-LJ40TN	LaserJet 4000TN C4121A	£1,061	£1,246.68

Colour Lasers

		Exc Vat	Inc Vat
HP-LJ5C	Colour LaserJet 5C	£2,861	£3,361.68
HP-LJ5CM	Colour LaserJet 5M	£3,600	£4,230.00
HP-LJ5CN	Colour LaserJet 5N	£3,142	£3,691.85

Lexmark

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LEX-J3000	JETPRINTER 3000	£141	£165.68
LEX-1000	1000	£95	£111.63
LEX-2030	2030	£145	£170.38
LEX-2050	2050	£178	£209.15
LEX-2070	2070	£237	£278.48

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		Exc Vat	Inc Vat
LEX-S1250	Optra S 1250 12ppm	£659	£774.33
LEX-S1650	Optra S 1650 16ppm	£770	£904.78
LEX-S1650N	Optra S 1650 N Network	£953	£1,119.78
LEX-S2450	Optra S 2450 24ppm	£1,522	£1,788.35
LEX-S2450N	Optra S 2450 N Network	£1,760	£2,068.00
LEX-C1275	Optra SC 1275 Colour	£2,758	£3,240.65
LEX-C1275N	Optra SC 1275 N Network	£3,046	£3,579.05

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		Exc Vat	Inc Vat
KYO-FS600	FS600	£223	£262.03
KYO-FS1700	FS1700	£727	£854.23
KYO-FS3700	FS3700	£1,017	£1,194.98
KYO-FS7000	FS7000	£1,830	£2,150.25

Oki

		Exc Vat	Inc Vat
OKI-4W	OKIPAGE 4w PLUS	£155	£182.13
OKI-6E	OKIPAGE 6e	£204	£239.70
OKI-6EX	OKIPAGE 6ex	£260	£305.50
OKI-810EX	OLB10ex	£383	£450.03
OKI-16N	OKIPAGE 16n 16ppm 6Mb	£610	£716.75

Tally

		Exc Vat	Inc Vat
24 Pin Dot Matrix			
TAL-2030	2030 80 Column	£378	£444.15
TAL-2130	2130 132 Column	£473	£555.78
Ink Jet			
TAL-7110	7110	£124	£145.70
Lasers			
TAL-9108	9108	£254	£298.45
TAL-9208	9208	£317	£372.48
TAL-9014	9014	£536	£629.80

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HP-DJ430A0	DesignJet 430 A4-A0	£1,643	£1,930.53
HP-DJ450A1	DesignJet 450C A4-A1	£1,493	£1,754.28
HP-DJ450A0	DesignJet 450C A4-A0	£1,943	£2,283.03
HP-C6069A	430/450C Stand & Bin A1	£139	£163.33
HP-C4717A	430/450C A1 Roll Feed Kit	£139	£163.33
HP-C6070A	430/450C Stand & Bin A0	£168	£197.40
HP-C4719A	430/450C A0 Roll Feed Kit	£139	£163.33
HP-DJ700A1	DesignJet 700 A4-A1	£2,318	£2,723.65
HP-DJ700A0	DesignJet 700 A4-A0	£2,768	£3,252.40
HP-DJ750A1	DesignJet 750C+ A4-A1	£3,143	£3,693.03
HP-DJ750A0	DesignJet 750C+ A4-A0	£3,743	£4,398.03
HP-DJ755CM	DesignJet 755CM + A4-A0	£5,687	£6,682.23

Fax Machines

		Exc Vat	Inc Vat
BT			
BT-DF50	Thermal Fax Machine	£177	£207.98
BT-IM350	Image 350 Plain Paper Fax	£296	£347.80
BT-IM370	Image 370 PP Fax/Answer	£334	£392.45
BT-BF550E	Plain Paper Inkjet Fax	£557	£654.48
BT-BF850S	SE Laser Plain Paper Fax	£1,076	£1,264.30

Brother

		Exc Vat	Inc Vat
BRO-1020	1020	£273	£320.78
BRO-1030	1030	£318	£373.65
BRO-8000	8000P	£575	£675.63

Oki

		Exc Vat	Inc Vat
OKI-740MF	740MF	£403	£473.53
OKI-4100	4100	£483	£567.53

HP Accessories

		Exc Vat	Inc Vat
HP DeskJet 340 Accessories			
C3062A	World-wide rapid charger	£70	£82.25
C3059A	European rechargeable batt.	£29	£34.08
C3050A	Carrying Case	£52	£61.10
C3277A	Infrared Adapter	£31	£36.43

HP5Si & 5Si MX Paper Handling

		Exc Vat	Inc Vat
C3764A	Multi-Bin Mailbox	£1,014	£1,191.45
C3768A	Paper Handling Controller	£192	£225.60
C3765A	Envelope Feeder	£352	£413.60
C3763A	2000-Sheet Input Tray	£839	£985.83
C2975A	Printer Cabinet	£285	£334.88
C3762A	Duplex Unit	£432	£507.60
C2965A	HP 420MB Disk Drive	£397	£466.48

HP5, 5N & 5M Paper Handling

		Exc Vat	Inc Vat
C3920A	Duplex Unit	£435	£511.13
C3924A	Multipurpose Tray, 250 sheet	£79	£92.83
C3925A	Tray, Letter size	£79	£92.83
C3926A	Tray, A4 size	£79	£92.83
C3921A	500 Sheet Feeder	£192	£225.60
C3927A	Power Envelop Feeder	£223	£262.03

Extended Warranties

Canon 3year warranty

		Exc Vat	Inc Vat
CAN-GRP1	BJ30,BJ70,BJ230	£28	£32.90
CAN-GRP2	LBP460,BJC4100	£48	£56.40
CAN-GRP3	BJC4200,4550,620	£64	£75.20

Epson 3 year warranty

		Exc Vat	Inc Vat
EPS-GRP1/8	LQ100, Stylus 200	£40	£47.00
EPS-GRP2/8	Stylus 600,800, GT5000	£65	£76.38
EPS-GRP3/8	EPL-5500	£99	£116.33
EPS-GRP4/8	GT8500,GT9500	£149	£175.08
EPS-GRP5/8	Stylus 1520	£199	£233.83
EPS-GRP6/8	EPL-9000	£259	£304.33

Printer Memory

Brother		Exc Vat	Inc Vat
LPM-024/2	HL-6 Series 2Mb Board	£59	£69.33
LPM-024/4	HL-6 Series 4Mb Board	£86	£101.05
LPM-001/1	HL630, 641,730 1Mb	£59	£69.33
LPM-001/15	HL630, 641,730 1.5Mb	£79	£92.83
LPM-002/4	HL-660, HL-1260 4Mb Mod	£65	£76.38
LPM-002/8	HL-660, HL-1260 8Mb Mod	£99	£116.33
LPM-002/4	HL-760 4Mb Module	£65	£76.38
LPM-002/8	HL-760 8Mb Module	£99	£116.33
LPM-002/16	HL-760 16Mb Module	£189	£222.08
LPM-002/32	HL-760 32Mb Module	£309	£363.08
LPM-023/1	HL-8, 8D, 8e, 8V 1Mb	£79	£92.83
LPM-023/2	HL-8, 8D, 8e, 8V 2Mb	£105	£123.38

Canon		Exc Vat	Inc Vat
LPM-004/4	LBP860, LBP1260 4Mb	£59	£69.33
LPM-004/8	LBP860, LBP1260 8Mb	£99	£116.33
LPM-004/16	LBP860, LBP1260 16Mb	£169	£198.58
LPM-004/32	LBP860, LBP1260 32Mb	£279	£327.83
LPM-005/1	LBP-430, LBP-4U, 8IV 1Mb	£35	£41.13
LPM-005/4	LBP-430, LBP-4U, 8IV 4Mb	£79	£92.83
LPM-006/1	LBP-8III, 8III Plus, 1Mb Bd	£89	£104.58
LPM-006/2	LBP-8III, 8III Plus, 2Mb Bd	£109	£128.08
LPM-006/3	LBP-8III, 8III Plus, 3Mb Bd	£139	£163.33
LPM-012/1	LBP-8II, 8IIR, 8IIT 1Mb Bd	£65	£76.38
LPM-012/2	LBP-8II, 8IIR, 8IIT 2Mb Bd	£109	£128.08
LPM-012/4	LBP-8II, 8IIR, 8IIT 4Mb Bd	£149	£175.08

Epson		Exc Vat	Inc Vat
LPM-007/4	EPL 5600, 5500, 9000 4Mb	£69	£81.08
LPM-007/8	EPL 5600, 5500, 9000 8Mb	£119	£139.83
LPM-007/16	EPL 5600, 5500, 9000 16Mb	£199	£233.83
LPM-007/32	EPL 5600, 5500, 9000 32Mb	£309	£363.08

Hewlett Packard		Exc Vat	Inc Vat
LPM-008/4	Ljet 4+,4M+,4V,4MV 4Mb	£39	£45.83
LPM-008/8	Ljet 4+,4M+,4V,4MV 8Mb	£65	£76.38
LPM-008/16	Ljet 4+,4M+,4V,4MV 16Mb	£119	£139.83
LPM-008/4	Ljet 5/P,MP,6,P/MP 4Mb	£39	£45.83
LPM-008/8	Ljet 5/P,MP,6,P/MP 8Mb	£65	£76.38
LPM-008/16	Ljet 5/P,MP,6,P/MP 16Mb	£119	£139.83
LPM-008/4	Colour Laserjet 5, 5M 4Mb	£39	£45.83
LPM-008/8	Colour Laserjet 5, 5M 8Mb	£65	£76.38
LPM-008/16	Colour Laserjet 5, 5M 16Mb	£119	£139.83
LPM-008/32	Colour Laserjet 5, 5M 32Mb	£209	£245.58
LPM-008/4	Laserjet 5Si,5Si MX 4Mb	£39	£45.83
LPM-008/8	Laserjet 5Si,5Si MX 8Mb	£65	£76.38
LPM-008/16	Laserjet 5Si,5Si MX 16Mb	£119	£139.83
LPM-008/32	Laserjet 5Si,5Si MX 32Mb	£209	£245.58
LPM-008/4	Deskjet 1600C,CN,CM 4Mb	£39	£45.83
LPM-008/8	Deskjet 1600C,CN,CM 8Mb	£65	£76.38
LPM-008/16	Dskjet 1600C,CN,CM 16Mb	£119	£139.83
LPM-008/32	Dskjet 1600C,CN,CM 32Mb	£209	£245.58
LPM-008/4	Laserjet 4P,4MP 4Mb	£39	£45.83
LPM-008/8	Laserjet 4P,4MP 8Mb	£65	£76.38
LPM-009/4	DesignJet 600, 650C 4Mb	£45	£52.88
LPM-009/8	DesignJet 600, 650C 8Mb	£79	£92.83
LPM-010/1	Laserejet 4L 1Mb	£39	£45.83
LPM-011/4	LaserJet 5L, 5L-FS 4Mb	£59	£69.33
LPM-011/8	LaserJet 5L, 5L-FS 8Mb	£109	£128.08
LPM-009/4	D/Jet 230,230C,650C 4Mb	£45	£52.88
LPM-009/8	D/Jet 230,230C,650C 8Mb	£79	£92.83
LPM-009/16	D/Jet 230,230C,650C 16Mb	£139	£163.33
LPM-009/32	Design 230,230C,650C 32Mb	£239	£280.83
LPM-009/4	Design 700, 750C/C+ 4Mb	£45	£52.88
LPM-009/8	Design 700, 750C/C+ 8Mb	£79	£92.83
LPM-009/16	Design 700, 750C/C+ 16Mb	£139	£163.33
LPM-009/32	Design 700, 750C/C+ 32Mb	£239	£280.83
LPM-009/4	LJet 4, 4M, 4SI, 4SIMX 4Mb	£45	£52.88
LPM-009/8	LJet 4, 4M, 4SI, 4SiMX 8Mb	£79	£92.83
LPM-009/4	DskJet 1200C,C/PS 4Mb	£45	£52.88
LPM-009/8	DskJet 1200C,C/PS 8Mb	£79	£92.83
LPM-009/4	DesignJet 200, 220 4Mb	£45	£52.88
LPM-009/8	DesignJet 200, 220 8Mb	£79	£92.83
LPM-012/2	LaserJet II, IID 2Mb	£109	£128.08
LPM-012/4	LaserJet II, IID 4Mb	£149	£175.08
LPM-013/2	LJet III, IID, IIP, IIP 2Mb	£99	£116.33
LPM-013/4	LJet III, IID, IIP, IIP 4Mb	£145	£170.38

Kyocera		Exc Vat	Inc Vat
LPM-014/1	F800, 800A, 800T 1Mb	£79	£92.83
LPM-014/2	F800, 800A, 800T 2Mb	£109	£128.08
LPM-014/4	F800, 800A, 800T 4Mb	£159	£186.83

Lexmark		Exc Vat	Inc Vat
LPM-015/4	LaserPrinter 4039 4Mb	£45	£52.88
LPM-015/8	LaserPrinter 4039 8Mb	£69	£81.08
LPM-015/4	Opra Lxi,R,Lx+,C,Rx 4Mb	£45	£52.88
LPM-015/8	Opra Lxi,R,Lx+,C,Rx 8Mb	£89	£92.83
LPM-015/16	Opra Lxi,R,Lx+,C,Rx 16Mb	£129	£151.58
LPM-015/32	Opra Lxi,R,Lx+,C,Rx 32Mb	£219	£257.33

Printer Memory

OKI		Exc Vat	Inc Vat
LPM-016/1	OL400e,400ex,410ex 1Mb	£89	£104.58
LPM-016/2	OL400e,400ex,410ex 2Mb	£119	£139.83
LPM-016/4	OL400e,400ex,410ex 4Mb	£179	£210.33
LPM-016/1	OL600,600e/ex,610ex 1Mb	£89	£104.58
LPM-016/2	OL600,600e/ex,610ex 2Mb	£119	£139.83
LPM-016/4	OL600,600e/ex,610ex 4Mb	£179	£210.33
LPM-017/2	OL1200, OL1200ex 2Mb	£59	£69.33
LPM-017/4	OL1200, OL1200ex 4Mb	£109	£128.08
LPM-017/8	OL1200, OL1200ex 8Mb	£159	£186.83

Panasonic		Exc Vat	Inc Vat
LPM-018/1	KXP4420,P4450i,P4451 1Mb	£69	£81.08
LPM-018/2	KXP4420,P4450i,P4451 2Mb	£99	£116.33
LPM-018/4	KXP4420,P4450i,P4451 4Mb	£149	£175.08
LPM-024/1	KX-P4450 1Mb	£69	£81.08
LPM-019/1	KX-P4410, P4430 1Mb	£69	£81.08
LPM-019/2	KX-P4410, P4430 2Mb	£99	£116.33
LPM-019/3	KX-P4410, P4430 3Mb	£129	£151.58
LPM-019/4	KX-P4410, P4430 4Mb	£149	£175.08
LPM-020/2	KX-P4401 1Mb	£99	£116.33
LPM-020/4	KX-P4401 4Mb	£149	£175.08
LPM-022/1	KX-P4400 1Mb	£59	£69.33
LPM-022/2	KX-P4400 2Mb	£89	£104.58
LPM-022/4	KX-P4400 4Mb	£139	£163.33

Scanners

Agfa		Exc Vat	Inc Vat
AGF-SP310	SnapScan 310	£138	£162.15
AGF-SP600	SnapScan 600	£294	£345.45
AGF-SSL	StudioStar + PhotoShop LE	£484	£568.70
AGF-SSF	StudioStar + PhotoShop 4	£530	£622.75
AGF-ARC2/P	Arcus II + PhotoShop 4	£1,347	£1,582.73
AGF-DUO/P	DuoScan	£2,575	£3,025.63

Canon		Exc Vat	Inc Vat
CAN-80 CART	BJC 80 Scanner Cart	£65	£76.38

Epson		Exc Vat	Inc Vat
Flatbed Scanners			
EPS-GTX50P	Epson GTX5000 Parallel	£154	£180.95
EPS-GT550S	Epson GT5500 Scsl for PC	£209	£245.58
EPS-GT550M	Epson GT5500 Mac	£209	£245.58
EPS-GTX50S	Epson GTX5000 Scsi	£246	£289.05
EPS-GTX50M	Epson GTX5000 Mac	£223	£262.03
EPS-GTX85P	Epson GTX8500 Parallel	£369	£433.58
EPS-GTX85S	Epson GTX8500 Scsi	£392	£460.60
EPS-GTX85M	Epson GTX8500 Mac	£369	£433.58
EPS-GTI85S	Epson GTI8500 Scsl	£469	£551.08
EPS-GTI85M	Epson GTI8500 Mac	£469	£551.08
EPS-GTX95P	Epson GTX9500 Parallel	£446	£524.05
EPS-GTX95S	Epson GTX9500 Scsl	£469	£551.08
EPS-GTX95M	Epson GTX9500 Mac	£446	£524.05
EPS-GTI95S	Epson GTI9500 Scsl	£538	£632.15
EPS-GTI95M	Epson GTI9500 Mac	£538	£632.15
Film Scanners			
EPS-FS200S	FilmScan 200 PC SCSI	£326	£383.05
EPS-FS200M	FilmScan 200 Mac	£326	£383.05

Hewlett Packard		Exc Vat	Inc Vat
HP-LJCOM	LaserJet Companion	£116	£136.30
HP-SJ5S	ScanJet 5S Portable Colour	£134	£157.45
HP-SJ5P	ScanJet 5P Flatbed Colour	£144	£169.20
HP-SJ6100	ScanJet 6100C Flatbed Col	£432	£507.60

Spot		Exc Vat	Inc Vat
SPO-PT6	FotoTak 6 A5 Col Flatbed	£99	£116.33
SPO-PT6/T	FotoTak 6 Transparency unit	£30	£35.25
SPO-ST2C	ScanTak 2C A4 Col Flatbed	£89	£104.58

Visioneer		Exc Vat	Inc Vat
VIS-PPMX	Paperport MX Mono	£85	£99.88
VIS-PPIX	Paperport IX Keyboard Mono	£85	£99.88
VIS-PPS	Paperport Strobe Colour	£143	£168.03

Modems

Hayes		Exc Vat	Inc Vat
HAY-A56/I	Accura 56k Fax/Voice Int.	£87	£102.23
HAY-A56/E	Accura 56k Fax/Voice Ext.	£96	£112.80
HAY-AISDN	Accura ISDN Terminal adapt	£173	£203.28

Motorola		Exc Vat	Inc Vat
MOT-56INTX	56k Internet Solution Ext.	£83	£97.53
MOT-56VSUR	56k VoiceSurf Internal	£83	£97.53
MOT-56VHOM	56k VoiceSurf External	£95	£111.63
MOT-BSP	Bit Surf Pro ISDN	£259	£304.33

Modems

Novatech		Exc Vat	Inc Vat
NOV-33/I	33.6 Fax/Voice Internal	£38	£44.65
NOV-33/E	33.6 Fax/Voice External	£47	£55.23
NOV-56/I	56k Fax/Voice Flash Internal	£59	£69.33
NOV-56/E	56k Fax/Voice Flash External	£69	£81.08

US Robotics		Exc Vat	Inc Vat
Sportster			
USR-WINMOD	WinModem 33.6 Int.	£68	£79.90
USR-SV33/I	Voice 33.6 Int.	£96	£112.80
USR-FLASH	Flash X2	£106	£124.55
USR-288PCM	X-Jack V34 PCMCIA	£107	£125.73
USR-336PCM	Sports Xjack Winmod PCMCIA	£69	£81.08
USR-ISDNATA	Sportster ISDN T/A	£97	£113.98
Courier			
USR-CVF	V34 Internal	£194	£227.95
USR-CVF/E	V34 External	£194	£227.95
USR-C/I	Courier I ISDN Internal	£259	£304.33
USR-C/E	Courier I ISDN External	£259	£304.33

Zoom		Exc Vat	Inc Vat
ZOO-336I	33.6 Internal	£49	£57.58
ZOO-336E	33.6 External	£63	£74.03
ZOO-56I	56k Internal	£81	£95.18
ZOO-56E	56k External	£100	£117.50

Cameras

Agfa		Exc Vat	Inc Vat
AGF-EP307	ePhoto 307	£208	£244.40

Casio		Exc Vat	Inc Vat
CAS-QV11	QV11 320x200	£193	£226.78
CAS-QV70	QV70 320x240	£213	£250.28
CAS-QV100	QV100 640x480	£273	£320.78
CAS-QV200	QV200 640x480	£258	£303.15
CAS-QV300	QV300 640x480 Wide Angle	£326	£383.05
CAS-QV700	QV700 640x480	£323	£379.53
CAS-QG100	QG100 Thermal Printer	£153	£179.78
CAS-DP8000	DP8000 Colour Printer	£258	

Monitors

Model	Specs	Exc Vat	Inc Vat
ADI			
ADI-PROVI	Provista 14"	£105	£123.38
ADI-E30	Provista E30 14"	£109	£128.08
ADI-E40	Provista E40 15"	£145	£170.38
ADI-4P	Microscan 4P 15"	£165	£193.88
ADI-5P	Microscan 5P 17"	£309	£363.08
ADI-5G	Microscan 5G 17"	£369	£433.58
ADI-DUO	Microscan Duo 17"	£249	£292.58
ADI-17X+	Microscan 17X+	£309	£363.08
ADI-6P	Microscan 6P 19"	£579	£680.33
ADI-6G	Microscan 6G 21"	£839	£985.83

Model	Specs	Exc Vat	Inc Vat
CTX			
CTX-1451	1451CLR 14"	£104	£122.20
CTX-1569	1569SE 15"	£159	£186.83
CTX-1569MS	1569MS 15" Multimedia	£189	£222.08
CTX-1769MS	1769MS 17" Multimedia	£309	£363.08
CTX-1765S	1765S 17"	£283	£332.53
CTX-1785S	1785S 17"	£313	£367.78
CTX-1785XE	1785XE 17"	£332	£390.10
CTX-1792UA	1792UA 17"	£369	£433.58
CTX-1785	1785XA 17"	£369	£433.58
CTX-2185	2185XE 21"	£858	£1,008.15

Model	Specs	Exc Vat	Inc Vat
Iiyama			
ILL-8515G	Vision Master 15G	£180	£211.50
ILL-8617E	Vision Master 17E	£376	£441.80
ILL-8617ES	Vision Master 17ES	£408	£479.40
ILL-9017T	Vision Master Pro 17	£422	£495.85
ILL-8721T	Vision Master 500	£868	£1,019.90
ILL-9221T	Vision Master Pro 500	£896	£1,052.80
ILL-TS17	Touch Screen 17"	£999	£1,173.83
ILL-TS21	Touch Screen 21"	£1,425	£1,674.38

Model	Specs	Exc Vat	Inc Vat
Mag Innovation			
MAG-DJ530	Mag Innovision DJ530 15"	£169	£198.58
MAG-DX15T	Mag Technitron DX15T 15"	£195	£229.13
MAG-DJ707	Mag Innovision DJ707 17"	£305	£358.38
MAG-DJ717	Mag Innovision DJ717 17"	£349	£410.08
MAG-DX715	Mag Technitron DX715 17"	£389	£457.08
MAG-DJ800	Mag Innovision DJ800 19"	£555	£652.13
MAG-DJ920	Mag Innovision DJ920 21"	£799	£938.83

Model	Specs	Exc Vat	Inc Vat
Novatech			
NOV-1428	1428 14" 28dp Digital	£102	£119.85
NOV-1528	1528 15" 28dp OSD DDC	£144	£169.20
NOV-1728	1728 17" 28dp OSD DDC	£263	£309.03
NOV-17/26	1726 17" 26dp 1600x1200	£333	£391.28
NOV-21/28	21" 28dp	£809	£950.58

Model	Specs	Exc Vat	Inc Vat
Panasonic			
PAN-PS4	Panasync 4 15"	£174	£204.45
PAN-4GM	Panasync 4 Multimedia 15"	£171	£200.93
PAN-4GPRO	Panasync 4G Pro 15"	£225	£264.38
PAN-5G	Panasync 5G 17"	£302	£354.85
PAN-5GPRO	Panasync 5G Pro 17" MM	£361	£424.18
PAN-PRO5G	Panasync Pro 5G	£401	£471.18

Model	Specs	Exc Vat	Inc Vat
Philips			
PHI-14M	14M 14" Mono	£82	£96.35
PHI-104S	104S 14" SVGA	£102	£119.85
PHI-104B	104B 14" NI SVGA	£117	£137.48
PHI-105S	105S 15"	£164	£192.70
PHI-105B	105B 15"	£187	£219.73
PHI-105BR	105BR 15"	£195	£229.13
PHI-107S	107S 17"	£281	£330.18
PHI-107B	107B 17"	£342	£401.85
PHI-107BR	107BR 17"	£393	£461.78
PHI-109B	109B 19"	£576	£676.80
PHI-201B	201B 21"	£826	£970.55
PHI-201BR	201BR 21"	£1,425	£1,674.38
PHI-201BRC	201BRC 21" CYBER	£1,566	£1,840.05
PHI-33PX	33PX 8001 33"	£1,589	£1,867.08

Model	Specs	Exc Vat	Inc Vat
Sony			
SON-100SX	100SX 15"	£194	£227.95
SON-100SFT	100SFT 15"	£224	£263.20
SON-200SX	200SX 17"	£359	£421.83
SON-200SFT	200SFT 17"	£382	£448.85
SON-17SE2	17SE2T5 17"	£569	£668.58
SON-300SFT	300SFT5 20"	£779	£915.33
SON-20SE2	20SE2T5 20"	£920	£1,081.00
SON-W900	W900 24" Superwide	£1,839	£2,160.83

Model	Specs	Exc Vat	Inc Vat
Taxan			
ErgoVision			
TAX-430	430 LR 14"	£113	£132.78
TAX-550	550 TCO95 15"	£199	£233.83
TAX-550A95	550 TCO95 + Audio 15"	£208	£244.40
TAX-730	730 TCO 92 17"	£370	£434.75
TAX-730A	730 TCO 92 + AUDIO	£379	£445.33
TAX-730A95	730 TCO 95 + AUDIO	£389	£457.08
TAX-740	740 TCO 92	£446	£524.05
TAX-740A95	740 TCO 95 + AUDIO	£461	£541.68
TAX-750	750 TCO 95	£431	£506.43
TAX-2040	2040 TCO 92	£664	£780.20
TAX-2040DB	2040 TCO 95	£683	£802.53
TAX-2150	2150 TCO 95	£949	£1,115.08

LCD DISPLAYS

Model	Specs	Exc Vat	Inc Vat
NEC			
NEC-LCD400	LCD 400 14" Display	£1,706	£2,004.55
CTX			
CTX-P550	10.4" TFT + Speakers	£840	£987.00
CTX-P600	12.1" TFT + Speakers	£1,012	£1,189.10
CTX-P740	14.1" TFT + Speakers	£2,145	£2,520.38
CTX-P745	14.5" TFT + Speakers	£1,575	£1,850.83
Panasonic			
PAN-LC40	14" TFT	£1,604	£1,884.70
Philips			
PHI-4500	14.5" TFT + Speakers	£1,393	£1,636.78
Taxan			
TAX-600	10.4" TFT	£902	£1,059.85
TAX-620	12.1" TFT	£1,149	£1,350.08
TAX-650S	14.5" TFT	£1,699	£1,996.33

Graphics Cards

Model	Specs	Exc Vat	Inc Vat
ATI PCI			
ATI-TV7	ATI TV Tuner	£60	£70.50
3D Xpression			
ATI-XP/2	2mb Sgram + actua soccer	£69	£81.08
ATI-XPTV/2	PC2TV 2mb SDRAM	£92	£108.10
ATI-XPTV/4	PC2TV 4mb SDRAM	£109	£128.08
3D Turbo			
ATI-TBTV/4	PC2TV 4mb Sgram	£112	£131.60
ATI-TBTV/8	PC2TV 8mb SGRAM	£155	£182.13

Model	Specs	Exc Vat	Inc Vat
Oem version no box or games			
ATI-CHA2/0	3D Charger 2Mb SGRAM	£40	£47.00
ATI-CHA4/0	3D Charger 4Mb SGRAM	£52	£61.10
ATI-CHT20	3D Charger + PC2TV 2Mb	£69	£81.08
ATI-CHT40	3D Charger + PC2TV 4Mb	£89	£104.58
ATI-OTBTV4	3D Turbo PC2TV 4mb SGRAM	£82	£96.35
ATI-OTBTV8	3D Turbo PC2TV 8mb SGRAM	£119	£139.83
ATI-TVG	ATI TV Games Pack	£15	£17.63

Model	Specs	Exc Vat	Inc Vat
Xpert			
ATI-XPW4	Xpert @ Work 4Mb Sgram	£127	£149.23
ATI-XPW8	Xpert @ Work 8Mb Sgram	£159	£186.83
ATI-XP4	Xpert @ Play 4Mb Sgram	£139	£163.33
ATI-XP8	Xpert @ Play 8Mb Sgram	£169	£198.58
ATI-XWA/4	Xpert @ Work 4Mb Sgram AGP		Call
ATI-XWA/8	Xpert @ Work 8Mb Sgram AGP		Call
ATI-XP4/4	Xpert @ Play 4Mb Sgram AGP		Call
ATI-XP4/8	Xpert @ Play 8Mb Sgram AGP		Call
ATI-XP2UP	Xpert 2Mb Upgrade	£29	£34.08
ATI-XP4UP	Xpert 4Mb Upgrade	£59	£69.33

Model	Specs	Exc Vat	Inc Vat
Diamond			
Diamond Stealth PCI			
3D Edge			
DIA-3D2200	3D2200 2mb Edo Dram	£34	£39.95
DIA-3D2240	3D2240 2mb Edo upg to 4mb	£36	£42.30
DIA-3D224P	3D2240 Pro2mbEdo 3D Virge	£42	£49.35
DIA-3D2400	3D2400 4mb Edo no upgrade	£45	£52.88
DIA-3D240P	3D2400 Pro 4mb Edo 3DVirge	£49	£57.58
DIA-3D24PT	3D2400 4mb Edo Dram ProTV	£62	£72.85
DIA-MONS/O	Stealth Monster 3D OEM	£97	£113.98
DIA-MONS/S	Stealth Monster 3D	£109	£128.08
DIA-MONS/S	Stealth Monster 3D S/store	£118	£138.65
DIA-VIP4/O	Viper 4Mb PCI	£109	£128.08
DIA-VIP4/A	Viper 4Mb AGP	£109	£128.08
DIA-VPTV/4	Viper 4Mb PCI TV Output	£125	£146.88

Model	Specs	Exc Vat	Inc Vat
Fire			
DIA-GL1800	Diamond Fire GL1800 8mb	£124	£145.70
DIA-GL1800P	Dmnd Fire GL1800 8mb Pro	£165	£193.88

Model	Specs	Exc Vat	Inc Vat
Hauppauge			
HAU-TVPCI	Win Tv PCI	£85	£99.88
HAU-CIN95	Cinemanía pro 95 ISA	£189	£222.08
HAU-TVPREM	Hauppauge Win TV PCI Primio	£55	£64.63
HAU-TVTR	Hauppauge Win TV PCI Radio	£89	£104.58
HAU-VMAG	Hauppauge Videomagic ISA	£169	£198.58
HAU-WM60	Hauppauge Win Mtn 60 PCI	£295	£346.63

Model	Specs	Exc Vat	Inc Vat
Matrox			
Retail Box			
MAT-MI2/4	Millenium II 220DAC 4Mb	£115	£135.13
MAT-MI2/8	Millenium II 220DAC 8Mb	£166	£195.05
MAT-MN254	Millenium II 250DAC 4Mb	£120	£141.00
MAT-MN258	Millenium II 250DAC 8Mb	£170	£199.75
MAT-MNU/4	Millenium II 4mb upgrade	£77	£90.48
MAT-MNU/8	Millenium II 8mb upgrade	£120	£141.00
MAT-MNU/12	Millenium II 12mb upgrade	£170	£199.75
MAT-ME24HR	Mystique 220 4mb Home	£79	£92.83
MAT-RR	Matrox Rainbow Runner Sdo	£115	£135.13
MAT-M3DI	Matrox M3D accelerator card	£65	£76.38

Model	Specs	Exc Vat	Inc Vat
Oem (No Games)			
MAT-ME24HO	Mys 220 4mb Home OEM	£72	£84.60
MAT-MI24/O	Mill II 220DAC 4mb OEM	£89	£104.58
MAT-MI28/O	Mill II 220DAC 8mb OEM	£135	£158.63

Model	Specs	Exc Vat	Inc Vat
Novatech			
NOV-S33D	S3 3D Virage Mpeg 2mb PCI	£35	£41.13
NOV-S332UP	S3 3D 2Mb upgrade	£25	£29.38

Model	Specs	Exc Vat	Inc Vat
Orchid			
ORC-RIG/3D	Righteous 4mb Dram PCI	£112	£131.60

Model	Specs	Exc Vat	Inc Vat
Videologic			
VID-APO3D	Apocalypse 3D 4mb Edo PCI	£45	£52.88
VID-A3DX	Apocalypse 3DX	£69	£81.08
VID-A5D	Apocalypse 5D	£137	£160.98
VID-G410/1	Grafixstar 410 1mb PCI	£26	£30.55
VID-G410/2	Grafixstar 410 2mb PCI	£35	£41.13
VID-G550/2	Grafixstar 550 4mb PCI	£65	£76.38
VID-600/2	Grafixstar 600 2mb PCI Dram	£56	£65.80
VID-600/2U	Grafixstar 600 2mb upgrade	£38	£44.65
VID-CAP	Captivator PCI	£52	£61.10
VID-CAP/VC	Captivator PCI/VC with cam	£149	£175.08

Palmtops

Model	Specs	Exc Vat	Inc Vat
Hewlett Packard			
300 Series Windows CE Palmtops			
HP-300LX	300LX 2Mb	£324	£380.70
HP-320LX	320LX 4Mb Backlit	£396	£465.30
HP-H5465A	3yr Next Day Exchange	£66	£77

Motherboards

		Exc Vat	Inc Vat
Gigabyte GIG-T2	Gigabyte Intel 430tx AT	£79	£92.83
GIG-TX	Gigabyte Intel 430tx	£89	£104.58
GIG-LX	Gigabyte Intel 440Lx Pent.2	£159	£186.83
QDI			
QDI-TX1B	TITANIUM IB TX	£83	£97.53
QDI-EXP	EXPLORER 4 VX	£65	£76.38
AIR			
AIR-TXA	Intel 430 Tx AT Format	£89	£104.58
AIR-TX	Intel 430 Tx ATX Format	£102	£119.85
AIR-LXI	Intel 440 Lx ATX Format	£159	£186.83
AIR-LXS	Intel 440 Lx + UW SCSI ATX	£279	£327.83
PC CHIPS			
CHI-VXPRO	PC CHIPS VX Pro Chst 512K	£43	£50.53
CHI-TXPRO	PC CHIPS TX Pro Chst 512K	£49	£57.58
CHI-430TX	PC CHIPS 430TX Chst 512K	£57	£66.98

Processors

		Exc Vat	Inc Vat
Intel MMX Pentium			
ITL-166MMX	Pentium MMX 166MHz	£77	£90.48
ITL-200MMX	Pentium MMX 200MHz	£139	£163.33
ITL-233MMX	Pentium MMX 233MHz	£189	£222.08
Intel PentiumII			
ITL-P2/233	Pentium II 233MHz	£288	£338.40
ITL-P2/266	Pentium II 266MHz	£374	£439.45
AMD K6			
AMD-K6/166	K6 166MHz	£62	£72.85
AMD-K6/200	K6 200MHz	£112	£131.60
AMD-K6/233	K6 233MHz	£164	£192.70

Removeable Storage

		Exc Vat	Inc Vat
Iomega			
IOM-ZIP/P	ZIP Drive 100Mb Ext Par.	£86	£101.05
IOM-ZIPS/I	ZIP Drive 100Mb Int SCSI	£86	£101.05
IOM-ZIP/S	ZIP Drive 100Mb Ext SCSI	£86	£101.05
IOM-ZIP/H	ZIP 100Mb Disk	£10	£11.75
IOM-ZIPCN	Zip Carry Case Normal	£18	£21.15
IOM-ZIPCM	Zip Carry Case Mini	£9	£10.58
IOM-DMAXE	External 5/7Gb D.max	£125	£146.88
IOM-DMAXPE	External 10Gb D.max Pro	£184	£216.20
IOM-DITNT	Ditto NT Tools Software	£14	£16.45
IOM-JAZ/I	JAZ Drive 1Gb Int SCSI	£173	£203.28
IOM-JAZ/E	JAZ Drive 1Gb Ext SCSI	£227	£266.73
IOM-JAZ/I	JAZ 1Gb Disk	£69	£81.08
IOM-JAZ/T	Jaz Trav/Par.-SCSI Adapt	£34	£39.95
IOM-JAZ/C	Jaz Carry Case	£19	£22.33
SysQuest			
SYS-EZ230S	EZ Flyer 230Mb Ext SCSI	£93	£109.28
SYS-EZ230P	EZ Flyer 230Mb Ext Par.	£93	£109.28
SYS-230MB	EZ Flyer 230Mb Disk	£15	£17.63
SYS-SJ15IE	SyJet 1.5Gb Internal IDE	£187	£219.73
SYS-SJ15IS	SyJet 1.5Gb Int. SCSI	£187	£219.73
SYS-SJ15ES	SyJet 1.5Gb Ext. SCSI	£250	£293.75
SYS-SJ15EP	SyJet 1.5Gb Ext Parallel	£250	£293.75
SYS-1500MB	SyJet 1.5Gb Disk	£74	£86.95
Hewlett Packard			
HP-C3322C	Re-writable CD7100 series	£18	£21.15

CD ROM Drives

		Exc Vat	Inc Vat
Creative Labs			
CRE-CD24	Blaster CD24 EIDE	£60	£70.50
Goldstar			
GOL-8160B	CDR8160B 16X Max EIDE	£49	£57.58
GOL-8241B	CDR8241B 24X Max EIDE	£61	£71.68
Hitachi			
HIT-CD16	16 Speed EIDE 125ms ac	£53	£62.28
HIT-CD24	24 Speed EIDE 125ms ac	£61	£71.68
Hewlett Packard			
Reader/Writer			
HP-7100I	CD Writer Plus EIDE	£239	£280.83
HP-7100E	CD Writer Plus Parallel	£293	£344.28
Novatech			
NOV-CD24	24X Max Speed IDE	£49	£57.58

Controller Cards

		Exc Vat	Inc Vat
Novatech			
CLI-MIO	IDE 2Hdd 2Fdd 1Parrr 1Game 2 16550 Serial Ports	£14	£16.45
Adaptec			
EIDE Controllers			
ADA-AT32	EIDE-AT32 ValuePak	£25	£29.38
ADA-AT42	EIDE-AT42 ValuePak	£34	£39.95
ADA-AT52	EIDE-AT52 ValuePak	£43	£50.53
SCSI Controllers			
ADA-1520	AHA1520B ISA kit	£94	£110.45
ADA-2825	AHA2825 VL Bus kit	£87	£102.23
ADA-2920	AHA2920 PCI kit	£91	£106.93
ADA-2940	AHA2940 Ultra PCI kit	£152	£178.60
ADA-2940UW	AHA2940 Ultra Wide PCI kit	£177	£207.98
ADA-3940	AHA3940 Ultra PCI kit	£257	£301.98
ADA-3940UW	AHA3940 Ultra Wide PCI kit	£293	£344.28
ADA-1460	1460-2 SCSI PCMCIA kit	£98	£115.15

IDE Hard Drives

		Exc Vat	Inc Vat
Fujitsu			
FUJ-3017AT	MPA3017AT 1.7Gb	£98	£115.15
FUJ-1624	M1624T 2.1Gb	£105	£123.38
FUJ-3026AT	MPA3026AT 2.6Gb	£106	£124.55
FUJ-3035AT	MPA3035AT-UD 3.5Gb	£118	£138.65
FUJ-3043AT	MPA3043AT 4.3Gb	£156	£183.30
Quantum Fireball ST			
QUA-ST2160	Stratus 2160 2.1Gb 10ms	£107	£125.73
QUA-ST3240	Stratus 3240 3.2Gb 10ms	£126	£148.05
QUA-ST6480	Stratus 6480 6.4Gb 10ms	£209	£245.58
Seagate IDE			
SEG-31277A	ST31277A 1.2Gb 12ms	£84	£98.70
SEG-31720A	ST31720A 1.7Gb 12ms	£94	£110.45
SEG-32122A	ST32122A 2.0Gb 12.5ms U	£106	£124.55
SEG-32531A	ST32531A 2.5Gb 11ms	£123	£144.53
SEG-33232A	ST33232A 3.2Gb 10.5ms U	£120	£141.00
SEG-34342A	ST34342A 4.3Gb 12ms Ult	£159	£186.83
SEG-36450A	ST36450A 6.4Gb 9.5ms	£223	£262.03
Western Digital IDE			
WES-1600	AC-21600 1.6Gb <12ms	£101	£118.68
WES-2000UD	AC-22000 2.0Gb <12ms U	£111	£130.43
WES-2100	AC-221000 2.1Gb <12ms	£108	£126.90
WES-2500	AC-22500 2.5Gb 11ms	£126	£148.05
WES-3100	AC-33100 3.1Gb <12ms	£135	£158.63
WES-4000	AC-34000 4.0Gb 11ms	£167	£196.23
Toshiba Notebook Drives			
NB-HTD1401	T2100,T4500 Series 1.4Gb	£119	£139.83
NB-HTD2101	T2100,T4500 Series 2.1Gb	£179	£210.33
NB-HTD3003	T2100,T4500 Series 3.0Gb	£409	£480.58
NB-HTD1401	Satellite/Pro Series 1.4Gb	£119	£139.83
NB-HTD2101	Satellite/Pro Series 2.1Gb	£179	£210.33
NB-HTD3003	Satellite/Pro Series 3.0Gb	£409	£480.58
NB-HTD1401	Portege 610,700,710 1.4Gb	£119	£139.83
NB-HTD2101	Portege 610,700,710 2.1Gb	£179	£210.33
NB-HTD3003	Portege 610,700,710 3.0Gb	£409	£480.58

SCSI Hard Drives

		Exc Vat	Inc Vat
Quantum Fireball Stratus			
QUA-FS2110	2110 2.1Gb 10ms Ultra SCSI	£145	£170.38
QUA-FS3220	3220 3.2Gb 10ms Ultra SCSI	£184	£216.20
QUA-FS4320	4320 4.3Gb 10ms Ultra SCSI	£205	£240.88
QUA-FS6480	6480 6.4Gb 10ms Ultra SCSI	£274	£321.95
Seagate Baracuda ST			
SEG-32272N	ST32272N 2.2Gb 9ms Ultra SCSI	£267	£313.73
SEG-34572N	ST34572N 4.5Gb 9ms Ultra SCSI	£378	£444.15
SEG-19171N	ST19171N 9Gb 9ms Ultra SCSI	£676	£794.30
Western Digital Enterprise			
WES-22170	AC-22170 2.1Gb 8ms Ultra SCSI	£275	£323.13
WES-24360	AC-24360 4.3Gb 8ms Ultra SCSI	£395	£464.13
WES-22170W	AC-22170 2.1Gb 8ms Ultra Wide	£289	£339.58
WES-24360W	AC-24360W 4.3Gb 8ms Ultra Wide	£411	£482.93

Memory

		Exc Vat	Inc Vat
30 Pin			
RAM-S170	1Mb 1 x 9 3 chip	£5	£5.88
RAM-432	4Mb 4 x 9 3 chip	£13	£15.28
RAM-432/TP	4Mb 4 x 9 9 chip	£25	£29.38
72 Pin Non Parity			
RAM-472/32	1x32 4Mb 70ns	£9	£10.58
RAM-872/32	2x32 8Mb 70ns	£14	£16.45
RAM-16/32	4x32 16Mb 70ns	£29	£34.08
RAM-32/32	8x32 32Mb 70ns	£59	£69.33
72 Pin Parity			
RAM-472/36	1x36 4Mb 70ns	£14	£16.45
RAM-872/36	2x36 8Mb 70ns	£25	£29.38
RAM-16/36	4x36 16Mb 70ns	£36	£42.30
RAM-32/36	8x36 32Mb 70ns	£72	£84.60
72 Pin EDO 60ns			
RAM-472EDO	1x32 4Mb 60ns	£9	£10.58
RAM-872EDO	2x32 8Mb 60ns	£14	£16.45
RAM-16EDO	4x32 16Mb 60ns	£29	£34.08
RAM-32EDO	8x32 32Mb 60ns	£59	£69.33
168 Pin 5v Fast Page			
RAM-168/16	2x64 16Mb	£41	£48.18
RAM-168/32	4x64 32Mb	£72	£84.60
RAM-168/64	8x64 64Mb	£145	£170.38
168 Pin 5v EDO Unbuffered			
RAM-5EU16	2x64 16Mb	£42	£49.35
RAM-5EU32	4x64 32Mb	£79	£92.83
RAM-5EU64	8x64 64Mb	£165	£193.88
168 Pin 3.3v Synchronous DRAM			
RAM-SD16	2x64 16Mb	£39	£45.83
RAM-SD32TX	4x64 32Mb for TX Mboards	£69	£81.08
RAM-SD32VX	4x64 32Mb for VX Mboards	£73	£85.78
RAM-SD64	8x64 64Mb	£162	£190.35
RAM-SD128	16x64 128Mb	£489	£574.58
168 Pin 3.3v EDO Unbuffered			
RAM-DU16	2x64 16Mb	£42	£49.35
RAM-DU32	4x64 32Mb	£79	£92.83
RAM-DU64	8x64 64Mb	£165	£193.88
168 Pin 3.3v EDO Buffered			
RAM-DB16	2x64 16Mb	£42	£49.35
RAM-DB32	4x64 32Mb	£79	£92.83
RAM-DB64	8x64 64Mb	£165	£193.88
168 Pin 3.3v ECC Unbuffered			
RAM-CU16	2x64 16Mb	£52	£61.10
RAM-CU32	4x64 32Mb	£99	£116.33
RAM-CU64	8x64 64Mb	£204	£239.70
168 Pin 3.3v ECC Buffered			
RAM-CB16	2x64 16Mb	£52	£61.10
RAM-CB32	4x64 32Mb	£99	£116.33
RAM-CB64	8x64 64Mb	£204	£239.70
168 Pin 3.3v EDO ECC Unbuff			
RAM-DCU16	2x64 16Mb	£55	£64.63
RAM-DCU32	4x64 32Mb	£114	£133.95
RAM-DCU64	8x64 64Mb	£227	£266.73
168 Pin 3.3v EDO ECC Buffered			
RAM-DCB16	2x64 16Mb	£54	£63.45
RAM-DCB32	4x64 32Mb	£114	£133.95
RAM-DCB64	8x64 64Mb	£227	£266.73
Tape Backup			
Colorado			
COL-T3000	T3000 3.2Gb Internal	£112	£131.60
COL-T5000	T5000 5Gb Internal	£123	£144.53
COL-T5000+	T5000 5Gb Internal + Tape	£138	£162.15
Iomega			
IOM-D200/I	Ditto 2Gb Internal	£63	£74.03
IOM-D200/E	Ditto 2Gb External Parallel	£90	£105.75
IOM-D320/I	Ditto 3.2Gb Internal	£107	£125.73
IOM-D320/E	Ditto 3.2Gb External Par	£126	£148.05
Seagate			
SEG-TS32I	TapeStor 3200 Internal	£112	£131.60
SEG-TS32P	TapeStor 3200 External	£128	£150.40

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Networking

3Com

Network Cards		Exc Vat	Inc Vat
3C-509T/1	3COM 509B TPO	£33	£38.78
3C-509T/5	3COM 509B TPO 5 Pack	£157	£184.48
3C-509T/20	3COM 509B TPO 20 Pack	£578	£679.15
3C-509C/1	3COM 509B Combo	£69	£81.08
3C-509C/5	3COM 509B Combo 5 Pack	£306	£359.55
3C-509C/20	3COM 509B Combo 20 Pk	£1,118	£1,313.65
3C-900	3COM 900 Combo PCI	£75	£88.13
3C-900/5	3COM 900 Combo PCI 5 Pk	£353	£414.78
3C-905	3COM 905 10/100 TX PCI	£54	£63.45
3C-905/5	3COM 905 10/100TX PCI 5Pk	£256	£300.80
Network Hubs		Exc Vat	Inc Vat
3C-16700	8 Port Office Connect	£56	£65.80
3C-16701	8 Port + 1 BNC Office Conn	£72	£84.60
3C-16670A	12 Port SuperStack II Hub 10	£285	£334.88
3C-16671A	24 Port SuperStack II Hub 10	£504	£592.20
3C-16673B	12 Port SuperStack II Mgd	£530	£622.75
3C-250B-TX	12 Port Hub 100TX	£740	£869.50

Kingston

Network Cards		Exc Vat	Inc Vat
KIN-2021LC	ISA 20bt Combo Card	£23	£27.03
KIN-2021/6	ISA 20bt Combo Card 6 Pk	£134	£157.45
KIN-40BT/1	PCI 40bt Combo Card	£30	£35.25
KIN-40BT/6	PCI 40bt Combo Card 6 Pk	£162	£190.35
KIN-KNE100	PCI 10/100Mbps RJ45 Card	£42	£49.35
KIN-PCM/M	PCMCIA Combo Card	£79	£92.83
Network Hubs		Exc Vat	Inc Vat
KIN-5TP/SO	5 Port Solo Workgroup	£55	£64.63
KIN-BTP/S	8 Port Stackable	£85	£99.88
KIN-8TP/WG	8 Port Workgroup	£75	£88.13
KIN-8PTX/S	8 Port 100Mbps Stackable	£325	£381.88
KIN-16/WG	16 Port Workgroup	£130	£152.75
KIN-16/S	16 Port Stackable	£139	£163.33

SMC

Network Cards		Exc Vat	Inc Vat
SMC-EZUTP	SMC EtherEZ ISA RJ45	£30	£35.25
SMC-EZUTP5	SMC EtherEZ RJ45 5 Pk	£139	£163.33
SMC-EZCOM	SMC EtherEZ ISA Combi	£34	£39.95
SMC-EZCOM5	SMC EtherEZ ISA 5 Pk	£159	£186.83
SMC-PCICOM	SMC EtherPower PCI Combo	£42	£49.35
SMC-PCIC5	SMC EtherPower PCI 5 Pk	£205	£240.88
SMC-10/100	SMC EtherPower PCI 10/100	£42	£49.35
SMC-10/1005	SMC PCI 10/100 5 Pk	£205	£240.88

Network Cables

10 Base 2 Thin Ethernet		Exc Vat	Inc Vat
CAB-TN2	BNC Thin Ethernet 2 Metre	£5	£5.88
CAB-TN3	BNC Thin Ethernet 3 Metre	£6	£7.05
CAB-TN5	BNC Thin Ethernet 5 Metre	£9	£10.58
CAB-TN10	BNC Thin Ethernet 10 Metre	£15	£17.63

10 Base T & 100Mbps Category 5		Exc Vat	Inc Vat
CAB-C5/05	RJ45 Category 5 1/2 Metre	£4	£4.70
CAB-C5/1	RJ45 Category 5 1 Metre	£5	£5.88
CAB-C5/2	RJ45 Category 5 2 Metre	£6	£7.05
CAB-C5/3	RJ45 Category 5 3 Metre	£7	£8.23
CAB-C5/5	RJ45 Category 5 5 Metre	£10	£11.75
CAB-C5/10	RJ45 Category 5 10 Metre	£17	£19.98

Notebook Upgrades

PCMCIA CD-Rom Drives.

NB-CD12XPC	12-Speed PCMCIA CD-Rom	£229	£269.08
NB_CD8XPA	8-Speed Parallel CD-Rom	£185	£217.38

PCMCIA Network Cards.

NB-KINETPC	PCMCIA Net Card 10baseT/2	£69	£81.08
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Combined Modem And Network Cards.

NB-PAEM001	Net Mobile Net/V.34 Modem	£249	£292.58
NB-PAEM002	Net Mobile combo Net/V.34	£269	£316.08
NB-PATM002	Token ring Net/V.34 Modem	£329	£386.58

PCMCIA and GSM Modems

NB-PAPC100	Euromodem V34 Data/fax	£159	£186.83
NB-PAPC003	Freespirit V.34 GSM ready	£159	£186.83
NB-PAPC006	Freespirit V.34 Nokia 2110/BT	£309	£363.08

Please call for connection to many other phones.

PCMCIA Hard Drives.

NB-PAPH520	520Mb PCMCIA Hard Drive	£409	£480.58
NB-PAPH260	260Mb PCMCIA Hard Drive	£249	£292.58

Desktop - PCMCIA Adaptors.

NB-PACM001	PCMCIA front slot adaptor	£79	£92.83
NB-PACM002	PCMCIA front & rear slots	£129	£151.58
NB-PACM003	PCMCIA rear slot adaptor	£65	£76.38

New Media PCMCIA Products.

NB-PANM008	GameJammer PCMCIA Sound	£149	£175.08
NB-PANM009	Laptalk Speakers	£85	£99.88
NB-PANM007	Toast'n Jam Sound+SCSI	£299	£351.33
NB-PANM004	.WAVJammer 16-Bit Sound	£189	£222.08
NB-PAMP001	Vision Mobile PCMCIA MPEG	£179	£210.33

Targus Notebook Carry Cases

TAR-CN01	Notebook Carry Case	£37	£43.48
TAR-CNP1	Notebook Plus with extra stor	£57	£66.98
TAR-CUN1	Notebook and Printer case	£65	£76.38

Notebook Hard Drives

Seagate

SEG-91350A	Seagate2.5" 1.4Gb hard Drive	£195	£229.13
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Toshiba

NB-HDT1401	Toshiba T2100 Series 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T2100 Series 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba T2400 Series 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T2400 Series 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba T3400CT 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T3400CT 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba T3600CT 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T3600CT 2.1Gb	£249	£292.58
NB-HDT3003	Toshiba T3600CT 3.1Gb	£489	£574.58
NB-HDT1401	Toshiba T4400C 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T4400C 2.1Gb	£249	£292.58

Notebook Upgrades

NB-HDT1401	Toshiba T4400SXC 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T4400SXC 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba T4500C 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T4500C 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba T4600C 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T4600C 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba T4700C 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T4700C 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba T4800/T4850 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T4800/T4850 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba T4900 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba T4900 2.1Gb	£249	£292.58
NB-HDT3003	Toshiba T4900 3.1Gb	£489	£574.58
NB-HDT1401	Tosh Satellite Pro 100 1.4Gb	£189	£220.08
NB-HDT2101	Tosh Satellite Pro 100 2.1Gb	£249	£292.58
NB-HDT1401	Tosh Satellite Pro 4** 1.4Gb	£189	£220.08
NB-HDT2101	Tosh Satellite Pro 4** 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba Satellite 4** 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba Satellite 4** 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba Portege 610 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba Portege 610 2.1Gb	£249	£292.58
NB-HDT1401	Toshiba Tecra 7** Series 1.4Gb	£189	£220.08
NB-HDT2101	Toshiba Tecra 7** Series 2.1Gb	£249	£292.58
NB-HDT3003	Toshiba Tecra 7** Series 3.1Gb	£489	£574.58

Batteries

NB-BAT003	Apple Powerbook 140,150,160	£49	£57.58
NB-BAT003	AST Bravo NB, 700N	£79	£92.83
NB-BAT005	AST Power Executive	£89	£104.58
NB-BAT006	Compaq LTE Elite	£109	£128.08
NB-BAT007	Compaq LTE Lite	£109	£128.08
NB-BAT008	Compaq Contura 3/20,3/25	£69	£81.08
NB-BAT009	Compaq Contura Aero	£63	£74.03
NB-BAT010	Toshiba T1900,1910,1950,4700	£95	£111.63
NB-BAT011	Toshiba T4500,T4600 Series	£139	£163.33
NB-BAT012	Toshiba Satellite, Satellite Pro	£229	£269.08
NB-BAT013	Toshiba Portege	£229	£269.08
NB-BAT014	Tosh T2100,2110,2130 Series	£95	£111.63

UPS

APC BackUPS Pro		Exc Vat	Inc Vat
APC-B280	280 PnP inc Powerchute Pro	£96	£112.80
APC-B420	420 PnP Inc Powerchute Pro	£145	£170.38
APC-B650	650 PnP Inc Powerchute Pro	£185	£217.38
APC-B1000	1000	£270	£317.25
APC-B1400	1400	£348	£408.90
APC SmartUPS		Exc Vat	Inc Vat
APC-S450i	450i NET	£224	£263.20
APC-S700i	700i NET	£228	£267.90
APC-S1000i	1000i NET	£286	£336.05
APC-1400i	1400i NET	£371	£435.93
APC-2200i	2200i NET	£537	£630.98

Software

Adobe		Exc Vat	Inc Vat
ADO-ACRO/3	Acrobat 3.0	£129	£151.58
ADO-ILL4	Illustrator v 7	£178	£209.15
ADO-PS4/U	Photoshop v4.0 ver update	£128	£150.40
ADO-PS4/T	Photoshop v4.0 cross upg	£130	£152.75
ADO-PS	Photoshop v4.0	£371	£435.93
ADO-PM6/U	PageMaker 6.5 ver update	£86	£101.05
ADO-PM6	PageMaker 6.5	£366	£430.05

Autodesk		Exc Vat	Inc Vat
AUT-ACL/W	AutoCAD LT Win 3.1	£285	£334.88
AUT-ACL97	AutoCAD LT Win 97	£425	£499.38

Borland		Exc Vat	Inc Vat
BOR-DS3	delphi 3 standard	£73	£85.78
BOR-DP3	delphi 3 professional	£325	£381.88
BOR-DPU3	delphi 3 professional upg	£203	£238.53
BOR-DC3S	delphi 3 client server	£1,128	£1,325.40
BOR-DCSU3	delphi 3 client server upg	£895	£1,051.63
BOR-JB	jbuilder Std	£69	£81.08
BOR-JBP	jbuilder Professional	£326	£383.05

Caere		Exc Vat	Inc Vat
CAE-OP6/U	OmniPage 6 Pro win 3.1 upg	£69	£81.08
CAE-OP6	OmniPage 6 Pro win 3.1	£302	£354.85
CAE-OP7/U	OmniPage 7 Pro win 95 upg	£69	£81.08
CAE-OP7	OmniPage 7 Pro win 95	£302	£354.85

Corel CD ONLY		Exc Vat	Inc Vat
COR-CD5/C	Corel Draw 5	£124	£145.70
COR-CD7/U	Corel Draw 7 Upg Win95	£138	£162.15
COR-CD7	Corel Draw 7 Win95	£273	£320.78
COR-WP6/T	WordPerfect 6.1 Upg Win 3.1	£59	£69.33
COR-WP61C	WordPerfect 6.1 Win 3.1	£150	£176.25
COR-WPSU	W. Perfect Suite 8 Upg Win 95	£84	£98.70
COR-WPS8	WordPerfect Suite 8 Win 95	£174	£204.45

Dorling Kindersley		Exc Vat	Inc Vat
DOR-SEX	Anne Hoopers Sex Guide	£24	£28.20
DOR-AMAFAM	Bma Family Medical Guide	£23	£27.03
DOR-CHRON	Chronicles of the 20th Cent	£23	£27.03
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DOR-EXPN	Encyclopedia of Nature	£23	£27.03
DOR-SPACE	Encyclopedia of Space	£23	£27.03
DOR-EWSE	Eye Witness of Science	£23	£27.03
DOR-HIST	History of the World	£23	£27.03
DOR-1DICT	My First Dictionary	£17	£19.98
DOR-PBDAY	PB Bears Birthday Party	£17	£19.98
DOR-TWTW	The Way Things Work 2	£23	£27.03
DOR-HUMBOD	Ultimate Human Body 2	£23	£27.03
DOR-VRB	Virtual Reality Bird	£17	£19.98
DOR-VRC	Virtual Reality Cat	£17	£19.98
DOR-WRA	World Reference Atlas	£29	£34.08

Dragon Dictate		Exc Vat	Inc Vat
DRD-SOLO	Dictate Solo	£59	£69.33
DRD-NATSPK	Naturally Speaking	£428	£502.90

IBM		Exc Vat	Inc Vat
IBM-V/TYPE	V/Type Simply Speaking 95	£33	£38.78
IBM-VTG	Simply Speaking Gold	£67	£78.73
IBM-VIAV	Viavoice 95	£61	£71.68

IDP		Exc Vat	Inc Vat
IDP-STC97	IDP Super Tax Calc 97	£18	£21.15

Intuit		Exc Vat	Inc Vat
INT-Q6/D	Quicken for Windows 6 Disk	£28	£32.90
INT-Q6/CD	Quicken for Windows 6CD	£28	£32.90
INT-Q6DLX	Quicken Deluxe 6 CD	£44	£51.70
INT-QB5U	Quick Books v 5 upgrade	£109	£128.08
INT-QB5	Quick Books v5	£168	£197.40
INT-QBPSU	Quick Books v5 + Payroll upg	£166	£195.05
INT-QBPS	Quick Books v5 + Payroll	£256	£300.80

Lotus		Exc Vat	Inc Vat
LOT-SS97U	SmartSuite 97 Upg + V/type	£111	£130.43
LOT-SS97	SmartSuite 97 + IBM V/type	£298	£350.15

NAB		Exc Vat	Inc Vat
NAB-NBOLT	Nuts & Bolts	£34	£39.95

Software

Novell		Exc Vat	Inc Vat
NOV-312/5	Netware v3.12 5 User	£439	£515.83
NOV-312/10	Netware v3.12 10 User	£1,033	£1,213.78
NOV-41/5	IntraNetware 4.11 5 U.CD	£422	£495.85
NOV-41/10	IntraNetware 4.11 10 U.CD	£833	£978.78
NOV-41/25	IntraNetware 4.11 25 U.CD	£1,500	£1,762.50
NOV-41/50	IntraNetware 4.11 50 U.CD	£1,999	£2,348.83

Quarterdeck		Exc Vat	Inc Vat
QUA-CS95	CleanSweep 95	£25	£29.38
QUA-MAGN	MagnaRam 97	£18	£21.15
QUA-QEM97	Qemm 97	£46	£54.05

Quark		Exc Vat	Inc Vat
QUA-EXP	QuarkXPress 3.32	£557	£654.48

PowerQuest		Exc Vat	Inc Vat
POW-PMAGIC	Partition Magic	£39	£45.83
POW-DCOPY	Drive Copy	£18	£21.15
POW-DI	Drive Image	£42	£49.35

Microsoft Windows 95		Exc Vat	Inc Vat
MS-W95+VP	Windows 95 Value Pack	£61	£71.68
MS-PLUS/CD	MS Plus! for Windows 95	£27	£31.73

MS Windows 95 Apps		Exc Vat	Inc Vat
MS-AC97/U	Access 97 upgrade	£88	£103.40
MS-AC97	Access 97	£222	£260.85
MS-EX97/U	Excel 97 upgrade	£88	£103.40
MS-EX97	Excel 97	£222	£260.85
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MS-PP97	Powerpoint 97	£222	£260.85
MS-PJ41/U	Project 4.1 upgrade	£112	£131.60
MS-PJ41	Project 4.1	£299	£351.33
MS-PUB97/C	Publisher 97	£68	£79.90
MS-TEAM	Team Manager 97	£339	£398.33
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Microsoft Home & Business		Exc Vat	Inc Vat
MS-MON98	Money 98	£19	£22.33
MS-MON98D	Money 98 Deluxe	£31	£36.43
MS-GREET2	Greetings Workshop Deluxe 2.0£24	£28	£28.20
MS-PICTURE	Picture It 2.0	£30	£35.25

Microsoft Reference		Exc Vat	Inc Vat
MS-ENCARTA	Encarta 1998 Encyclopedia	£32	£37.60
MS-ENCIDLX	Encarta 1998 Deluxe	£51	£59.93
MS-EWA	Encarta World Atlas 3.0 1998	£32	£37.60
MS-AXGB/6	AutoExpress GB V 6.1	£38	£44.65
MS-AXEUR/C	AutoExpress Europe V 6.0	£38	£44.65
MS-CIN	Cinemaniam 1997	£19	£22.33

Microsoft Office		Exc Vat	Inc Vat
MS-OF97/U	Office 97 upgrade	£149	£175.08
MS-OF97	Office 97	£326	£383.05
MS-SB97/U	Office 97 small business upg	£149	£175.08
MS-SB97	Office 97 small business	£326	£383.05
MS-OP97/U	Office 97 Professional upg	£204	£239.70
MS-OP97M	Office 97 Prof upg + mouse	£223	£262.03
MS-OP97	Office 97 Professional	£418	£491.15
MS-OD97/U	Office 97 Developer upgrade	£330	£387.75
MS-OD97	Office 97 Developer	£525	£616.88

Microsoft for Students		Exc Vat	Inc Vat
MS-OS	Office Pro 97	£94	£110.45
MS-WS	Works 4	£29	£34.08
MS-PS	Publisher 97	£58	£68.15
MS-VS	Visual Basic + Visual C++	£67	£78.73
MS-WINS	Win 95 + Win NT Dual boot	£42	£49.35

Microsoft Entertainment		Exc Vat	Inc Vat
MS-CHAOS	Chaos Island	£19	£22.33
MS-GOOSE	Goosebumps - the Mutants	£19	£22.33
MS-FS98	Flight Simulator 98	£31	£36.43
MS-AGE	Age of Empires	£25	£29.38

Software

MS-CLOSE/C		Exc Vat	Inc Vat
MS-CART	Close Combat 2 A Bridge	£25	£29.38
MS-PUZZLE	CART Precision Racing	£24	£28.20
MS-MAGIC	The Puzzle Collection	£15	£17.63
	Magic School Bus Rainforest	£19	£22.33

Microsoft Languages		Exc Vat	Inc Vat
MS-VB5L/U	Visual Basic 5 Learning upg	£37	£43.48
MS-VB5L	Visual Basic 5 Learning	£63	£74.03
MS-VBP5/U	Visual Basic Pro 5 Upgrade	£167	£196.23
MS-VBP5	Visual Basic Pro 5	£320	£376.00
MS-VBE5/U	Visual Basic Enterprise 5 upg	£467	£548.73
MS-VBE5	Visual Basic Enterprise 5	£779	£915.33
MS-VC5L	Visual C++ 5 Learning	£64	£75.20
MS-VCP5	Visual C++ Pro 5	£320	£376.00
MS-VJP	Visual J++ Pro	£62	£72.85
MS-VSP/U	Visual Studio Pro Upgrade	£334	£392.45
MS-VSP	Visual Studio Pro	£670	£787.25
MS-VSE/U	Visual Studio Enterprise upg	£678	£796.65
MS-VSE	Visual Studio Enterprise	£986	£1,158.55

MS Windows NT v 4.0		Exc Vat	Inc Vat
MS-N4WU	NT Workstation 4.0 upgrade	£99	£116.33
MS-N4W	NT Workstation 4.0	£214	£251.45
MS-N4S5U	NT Server 4.0 + 5 Clients upg	£279	£327.83
MS-N4S5	NT Server 4.0 + 5 Clients	£544	£639.20
MS-N4S10U	NT Server 4.0 10 Clients upg	£372	£437.10
MS-N4S10	NT Server 4.0 + 10 Clients	£761	£894.18
MS-N4C1U	NT Client 4.0 Licence upg	£14	£16.45
MS-N4C1	NT Client 4.0 Licence	£26	£30.55

Pegasus		Exc Vat	Inc Vat
PEG-SOLACC	Solo Accounts	£47	£55.23
PEG-SOLPAY	Solo Payroll	£35	£41.13
PEG-CAPLTE	Capital Lite Accounts	£64	£75.20
PEG-CAPPAY	Capital Lite Payroll	£70	£82.25

PlanIT		Exc Vat	Inc Vat
PLA-BUSP	PlanIT Business Plan	£67	£78.73
PLA-H&S	PlanIT Health & Safety	£88	£103.40
PLA-STAFF	PlanIT Staff Appraisal	£67	£78.73
PLA-CONAG	PlanIT Contracts & Agree	£88	£103.40
PLA-LTR	PlanIT Letters	£19	£22.33
PLA-LLTR	PlanIT Legal Letters	£25	£29.38
PLA-BUSSUI	PlanIT Business Suite	£298	£350.15

SoftQuad		Exc Vat	Inc Vat
SOF-HMP	Hot Metal Pro v 4	£68	£79.90

Symantec		Exc Vat	Inc Vat
NOR-AV4D	Norton Antl Virus v4 Deluxe	£41	£48.18
NOR-FF	Norton Internet FastFind	£30	£35.25
NOR-NAV95	Norton Navigator 95	£69	£81.08
NOR-AW8	Norton PC Anywhere v8 (HR)	£95	£111.63
NOR-U95/CD	Norton Utilities 2 Win 95 CD	£48	£56.40
NOR-HAND	PC Handyman	£12	£14.10

Dr Solomons Anti-Virus		Exc Vat	Inc Vat
DRS-HOME/G	Home Guard	£22	£25.85
DRS-AVW	Dos & Win 3.1 Qtrly updates	£65	£76.38
DRS-AV95	Windows 95 Qtrly updates	£65	£76.38
DRS-AVNT	Windows NT Qtrly updates	£65	£76.38
DRS-AVNS	Netware Server Qtrly upds	£230	£270.25

Visio		Exc Vat	Inc Vat
VSO-STD	Visio Standard v5	£94	£110.45
VSO-TECH	Visio Technical v5	£210	£246.75
VSO-PRO	Visio Professional v5	£210	£246.75
VSO-STD/U	Visio Standard 5 Upgrade	£62	£72.85
VSO-TECH/U	Visio Technical 5 Upgrade	£93	£109.28
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LTC52	HL730,HL760	19.17	18.40	22.52	21.62
LTC53	HL1060	13.89	16.32	13.33	15.67
LTC03	HL1260,HL1660	66.50	63.84	78.14	75.01

Canon

LTC02	LBP-8 Series MKIII	50.14	48.13	58.91	56.56
LTC12	LBP-4	56.13	53.88	65.95	63.31
LTC03	1260 Series	66.50	63.84	78.14	75.01
LTC05	LBP460,465	41.88	40.20	49.20	47.24

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EPS-EP55DEV	EPL-5500/W Developer Unit	44.64	42.85	52.45	50.35
EPS-EPL55PU	EPL-5500/W Photoconductor Unit	50.00	48.00	58.75	56.40
LTC44	EPL-9000/PS Imaging Cartridge	173.25	166.32	203.57	195.43
LTC36	EPL-N1200/EPL-5600 Imaging Cart	90.28	86.67	106.08	101.83
LTC54	EPL-N2000 Imaging Cartridge	173.61	166.67	203.99	195.83
LTC20	EPL-5000/5200 Imaging Cartridge	113.89	109.33	133.82	128.47
LTC19	EPL-4000/4100/4300 Toner Cartridge	100.63	96.60	118.23	113.51
EPS-EPL4PU	EPL-4000/4100/4300 Photoconductor	129.17	124.00	151.77	145.70
LTC18	EPL-7100/7500/8100 Imaging Cart	162.99	156.47	191.51	183.85

Hewlett Packard

LTC02	92295A LaserJet II,III	50.14	48.13	58.91	56.56
LTC12	92275A LaserJet IIP,IIIP	56.13	53.88	65.95	63.31
LTC21	92291A LaserJet IIISI	79.76	76.57	93.72	89.97
LTC03	92298A LaserJet 4,4M,5,5M,5N	66.50	63.84	78.14	75.01
LTC08	92274A LaserJet 4L,4P,4MP	46.81	44.93	55.00	52.80
LTC32	C3900A LaserJet 4V,4MV	96.64	92.77	113.55	109.01
LTC05	C3906A LaserJet 5L, 6L	41.88	40.20	49.20	47.24
LTC04	C3903A LaserJet 5P,5MP,6P,6MP	55.86	53.63	65.64	63.01
LTC40	C3909A LaserJet 5SI,5SIMX,5SINX	144.76	138.97	170.10	163.29
HP-C3102A	C3102A Color LaserJet 5,5M Cyan	26.57	25.51	31.22	29.97
HP-C3103A	C3103A Color LaserJet 5,5M Yellow	26.57	25.51	31.22	29.97
HP-C3104A	C3104A Color LaserJet 5,5M Magenta	26.57	25.51	31.22	29.97
HP-C3105A	C3105A Color LaserJet 5,5M Black	5.82	5.59	6.84	6.56

Kyocera

LTC16	TK6 F800,800T,820	29.17	28.00	34.27	32.90
LTC15	TK9 FS1500,1550,1600	31.94	30.67	37.53	36.03
LTC37	TK11 FS400	14.44	13.87	16.97	16.29

Lexmark

LTC38	ValueWriter 1382760	88.19	84.67	103.63	99.48
LTC42	Optra R, Optra L 7000 page Toner	125.43	120.41	147.38	141.49
LTC41	Optra R, Optra L 14000 page Toner	155.56	149.33	182.78	175.47
LTC47	Optra C Black	84.42	81.04	99.19	95.22
LTC48	Optra C Cyan	97.61	93.71	114.69	110.11
LTC50	Optra C Magenta	97.61	93.71	114.69	110.11
LTC49	Optra C Yellow	97.61	93.71	114.69	110.11
LTC46	Optra E	49.19	47.23	57.80	55.49

Nec

LTC28	SuperScript 610,660	91.61	87.95	107.64	103.34
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Oki

LTC09	OKI 16n	34.13	40.10	32.76	38.49
LTC25	OL400/800 Toner	18.63	17.88	21.88	21.01
LTC26	400e,600,610, 6e, 6ex	16.44	15.79	19.32	18.55
LTC45	OkPage 4w	17.36	16.67	20.40	19.58

Laser Consumables

Panasonic

		1+EX VAT	3+EX VAT	1+INC VAT	3+INC VAT
LTC10	KX-P450 KX-P4450 Toner	20.83	20.00	24.48	23.50
LTC13	KX-P451 KX-P4420 Toner	30.28	29.07	35.58	34.15
LTC30	KX-P455 KX-P4400 Toner	10.74	10.31	12.61	12.11
LTC14	KX-P453 KX-P4410/4430/4400 Toner	29.17	28.00	34.27	32.90
LTC35	KX-P457 KX-P6100 Toner	12.17	11.68	14.30	13.72
LTC43	KX-P459 KX-P6500 Toner	13.44	12.91	15.80	15.17

Sharp

LTC39	Sharp JX9200,9210	39.90	38.31	46.89	45.01
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Star

LTC07	Laser 5 Series	81.94	78.67	96.28	92.43
LTC31	Wintype 4000	72.22	69.33	84.86	81.47

Inkjet Paper

Canon

CAN-102A4	CF102A4 Transparencies - 50	30.56	29.33	35.90	34.47
CAN-P11A4	GP-101A4 Glossy Paper - 50	20.63	19.80	24.23	23.27
CAN-C101A3	LC-101A3 Coated A3 Paper - 200	38.89	37.33	45.69	43.87
CAN-C301A4	LC-301A4 Bubble Jet paper A4 - 200	11.57	11.11	13.59	13.05
CAN-C301A3	LC-301A3 Bubble Jet Paper A3 - 200	25.42	24.40	29.86	28.67
CAN-FS101	Fabric Sheet - 10	31.94	30.67	37.53	36.03
CAN-F102A4	BF-102A4 Back Print Film A4 - 20	25.83	24.80	30.35	29.14
CAN-F102A3	BF-102A3 Back Print Film A3 - 20	55.56	53.33	65.28	62.67
CAN-HG101	HG-101 High Gloss Film A4 - 20	16.60	15.93	19.50	18.72
CAN-G101A3	HG-101A3 High Gloss Film A3 - 20	37.50	36.00	44.06	42.30
CAN-G101A2	HG-101A2 High Gloss Film A2 - 10	40.28	38.67	47.33	45.43
CAN-R101A4	HR-101A4 High Res Paper A4 - 200	17.47	16.77	20.53	19.71
CAN-R101A3	HR-101A3 High Res Paper A3 - 100	17.47	16.77	20.53	19.71
CAN-TR101	TR-101 T-Shirt Transfer Material - 10	11.39	10.93	13.38	12.85

Epson

EPS-41001C	Letter Iron On Transfer (720 Dpi) (10)	10.04	9.64	11.80	11.33
EPS-41031	A4 Starter Pack	13.94	13.39	16.38	15.73
EPS-41054	A6 Photo Quality Card (1440 Dpi) (50)	6.17	5.92	7.25	6.96
EPS-41059	A4 360 Dpi Ink Jet Paper (100)	6.81	6.53	8.00	7.68
EPS-41061	A4 Photo Quality Paper (1440 Dpi) (100)	8.11	7.79	9.53	9.15
EPS-41063	A4 Ink Jet Transparencies (360 Dpi) (30)	35.04	33.64	41.17	39.53
EPS-41065	A3 360 Dpi Ink Jet Paper (100)	18.50	17.76	21.74	20.87
EPS-41066	360 Dpi Ink Jet Paper (A3 + B) (100)	21.28	20.43	25.00	24.00
EPS-41068	A3 Photo Quality (Up To 1440 Dpi) (100)	24.01	23.05	28.22	27.09
EPS-41069	Super A3 Photo Quality 1440 Dpi (10)	29.17	28.00	34.27	32.90
EPS-41071	A4 Photo Glossy Film 1440 Dpi (15)	21.85	20.97	25.67	24.64
EPS-41073	A3 Photo Glossy Film 1440 Dpi (10)	39.63	38.04	46.56	44.70
EPS-41074	Super A3 Photo Film 1440 Dpi (100)	47.43	45.53	55.73	53.50
EPS-41078	A2 360 Dpi Ink Jet Paper (30)	17.17	16.48	20.17	19.36
EPS-41079	A2 Photo Quality (Up To 1440 Dpi) (30)	22.04	21.16	25.90	24.86
EPS-41102	Photo Quality Banner Paper 1440 15m	21.46	20.60	25.21	24.21
EPS-41106	A4 Photo Quality Self Adhesive Pap (10)	7.08	6.80	8.32	7.99
EPS-41107	A6 Photo Quality Film 1440 Dpi (10)	3.54	3.40	4.16	4.00

Hewlett Packard

HP-51634Z	A4 Premium 200 sheets	15.28	14.67	17.95	17.23
HP-C1847A	A4 Photo Paper 20 sheets	7.64	7.33	8.98	8.62
HP-C3831A	A4 Glossy 10 sheets	9.03	8.67	10.61	10.18
HP-C3837A	A4 Glossy 50 sheets	34.72	33.33	40.80	39.17
HP-C3832A	A4 Transparency 20 sheets	18.06	17.33	21.22	20.37
HP-C3835A	A4 Transparency 50 sheets	30.56	29.33	35.90	34.47

Free Delivery on Consumables only orders

Inkjet Cartridges

Canon		1+EX VAT	3+EX VAT	1+INC VAT	3+INC VAT
I-BJ10E	Canon BJ10e	14.89	14.29	17.49	16.79
I-BJ200	Canon BJ200EX, BJ230 Black Ink Tank	14.69	14.11	17.27	16.58
I-BJ30B	Canon BJ30 Black Ink Tank 3 pack	9.74	9.35	11.44	10.98
I-BC10	Canon BJ30 Print Head Cartridge	23.33	22.40	27.42	26.32
I-BJ300	Canon BJ300, BJ330 Black Ink Tank	9.01	8.65	10.59	10.17
I-BJ21C	Canon BJC4000 Series 3 Colour Ink Tank	11.86	11.39	13.94	13.38
I-BC20	Canon BJC4000 Series Black High Capty	22.50	21.60	26.44	25.38
I-BJ21BLK	Canon BJC4000 Series Black Ink Tank	4.47	4.29	5.25	5.04
I-BC21	Canon BJC4000 Series Print head Cart	34.00	32.64	39.95	38.35
I-BJ600B	Canon BJC600 Series Black Ink Tank	5.56	5.33	6.53	6.27
I-BJ600CY	Canon BJC600 Series Cyan Ink Tank	4.69	4.51	5.52	5.30
I-BJ600M	Canon BJC600 Series Magenta Ink Tank	4.69	4.51	5.52	5.30
I-BJ600Y	Canon BJC600 Series Yellow Ink Tank	4.69	4.51	5.52	5.30
I-BJ70C	Canon BJC70 3 Colour Ink Tank	14.67	14.08	17.23	16.54
I-BJ70B	Canon BJC70 Black Ink Tank 3 pack	8.33	8.00	9.79	9.40
I-BC11	Canon BJC70 Print head Cartridge	30.74	29.51	36.11	34.67
I-BJ800B	Canon BJC800 Black Ink Tank	14.35	13.77	16.86	16.18
I-BJ800CY	Canon BJC800 Cyan Ink Tank	19.44	18.67	22.85	21.93
I-BJ800M	Canon BJC800 Magenta Ink Tank	19.44	18.67	22.85	21.93
I-BJ800Y	Canon BJC800 Yellow Ink Tank	19.44	18.67	22.85	21.93

Citizen

I-CIT315	Printiva 600c Black	5.02	4.18	5.90	4.92
I-CIT316	Printiva 600c Cyan	5.02	4.18	5.90	4.92
I-CIT317	Printiva 600c Magenta	5.02	4.18	5.90	4.92
I-CIT318	Printiva 600c Yellow	5.02	4.18	5.90	4.92
I-CIT319	Printiva 600c Met Gold	13.60	11.33	15.98	13.32
I-CIT321	Printiva 600c Met Red	13.60	11.33	15.98	13.32
I-CIT322	Printiva 600c Met Blue	13.60	11.33	15.98	13.32

Epson

I-EPS20093	Epson Stylus Color 500/600 Black	12.89	12.37	15.14	14.54
I-EPS20097	Epson Stylus Color 200/500 Colour	18.89	18.13	22.19	21.31
I-EPS20089	Epson Stylus 400/600/800/1520 Col	15.67	15.06	18.41	17.70
I-EPS20108	Epson Stylus Color 800/1520 Black	15.21	14.60	17.87	17.16
I-EPS20034	Epson Stylus Color/Pro/XL+ Black	10.67	10.24	12.53	12.03
I-EPS20036	Epson Stylus Color/Pro/XL+ Colour	21.64	20.77	25.43	24.41
I-EPS20066	Epson Stylus Pro XL+ Colour	21.64	20.77	25.43	24.41
I-EPS20047	Epson Stylus Color II/200/820 Black	12.86	12.35	15.11	14.51
I-EPS20049	Epson Stylus 1500/820/II Colour	18.89	18.13	22.19	21.31
I-EPS20062	Epson Stylus 1500 Black	30.15	28.95	35.43	34.01
I-EPS20025	Epson Stylus 400/800 mono Black	8.00	7.68	9.40	9.02
J-EPS20138	Epson Stylus 300 4 Colour	15.80	15.17	18.57	17.82
I-EPS20110	Epson Stylus Photo 5 Colour	14.90	14.31	17.51	13.81

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I-51604A	ThinkJet, QuietJet Plain Paper Black	8.78	8.43	10.31	9.90
I-51606A	PaintJet Black	21.08	20.24	24.77	23.78
I-51606C	PaintJet Colour	22.50	21.60	26.44	25.38
I-51606B	PaintJet XL Black	21.72	20.85	25.52	24.50
I-51606C	PaintJet XL Cyan	22.67	21.76	26.63	25.57
I-51606R	PaintJet XL Magenta	21.72	20.85	25.52	24.50
I-51606Y	PaintJet XL Yellow	21.72	20.85	25.52	24.50
I-51625A	DeskJet 300+500 Series, Colour	20.64	19.81	24.25	23.28
I-51626A	DeskJet 500 Series, Fax, OffJet LX, 350	17.92	17.20	21.05	20.21
I-51629A	DeskJet 600 Series Black	17.90	17.19	21.04	20.19
I-51649A	DeskJet 600 Series Colour	19.18	18.41	22.54	21.64
I-51633M	DeskJet Portable, 300 Series Black	18.40	17.67	21.62	20.76
I-51639A	PaintJet XL300 Black	14.71	14.12	17.28	16.59
I-51639C	PaintJet XL300 Cyan	16.46	15.80	19.34	18.57
I-51639M	PaintJet XL300 Magenta	16.46	15.80	19.34	18.57

Inkjet Cartridges

		1+EX VAT	3+EX VAT	1+INC VAT	3+INC VAT
I-51639Y	PaintJet XL300 Yellow	16.46	15.80	19.34	18.57
I-51640A	DJ1200, Design 230-350, CopyJet Blk	16.46	15.80	19.34	18.57
I-51640C	DeskJet 1200, DeskJet 1600 Cyan	21.53	20.67	25.30	24.28
I-51640M	DeskJet 1200, DeskJet 1600 Magenta	21.53	20.67	25.30	24.28
I-51640Y	DeskJet 1200, DeskJet 1600 Yellow	21.53	20.67	25.30	24.28
I-51645A	DeskJet 820, 850, 870 1600C Black	19.24	18.47	22.60	21.70
I-51641A	DeskJet 820, 850, 870 Colour	22.86	21.94	26.86	25.78
I-51650C	DesignJet 650C Cyan	25.28	24.27	29.70	28.51
I-51650M	DesignJet 650C Magenta	25.28	24.27	29.70	28.51
I-51650Y	DesignJet 650C Yellow	25.28	24.27	29.70	28.51
I-51644C	DesignJet 750C, 755CM Cyan	24.24	23.27	28.48	27.34
I-51644M	DesignJet 750C, 755CM Magenta	24.24	23.27	28.48	27.34
I-51644Y	DesignJet 750C, 755CM Yellow	24.24	23.27	28.48	27.34

Lexmark

I-4070	4070 Black Ink	23.14	20.05	27.19	23.56
I-1020	150, 1020, ExecJet II Black	26.08	22.60	30.64	26.56
I-1020C	150, 1020, ExecJet II Colour	33.54	29.07	39.41	34.15
I-2070B	2070 Black	35.26	30.56	41.43	35.91
I-2070C	2070 Colour	39.26	34.03	46.13	39.98

Original Ribbons

Epson

Q2273FN	MX/FX/RX80, 800LX800, 850	2.58	2.48	3.04	2.91
Q2320FN	MX/FX/RX100, 105, 1000, 1170, LX1050	3.29	3.16	3.87	3.71
Q2774FN	EX800, EX1000 Black	4.67	4.48	5.48	5.26
Q2877FN	LQ2500, 2550, 860, 1060 Black	5.83	5.60	6.85	6.58
Q2986FN	LQ100 Black	4.08	3.92	4.80	4.61
Q2477FN	LQ500, LQ570, LQ800, 850, 870	3.50	3.36	4.11	3.95
Q2478FN	LQ1000, LQ1050, LQ1170	3.79	3.64	4.46	4.28
Q2454FN	LX80, LX86, GX80	4.54	4.36	5.34	5.12
Q2884FN	DFX5000, DFX8000	16.71	16.04	19.63	18.85

Panasonic

PAN-115	KX-P115 KX-P1081, 1170, 1695	5.57	5.35	6.54	6.28
PAN-145	KX-P145 KX-P1123, 1124, 1124i	5.89	5.65	6.92	6.64
PAN-155	KX-P155 KX-P1540, 1624, 1654, 2624	7.53	7.23	8.85	8.49
PAN-160	KX-P160 KX-P2135	8.15	7.83	9.58	9.20

Data Cartridges & Disks

Iomega

IOM-DC2GB	Ditto 2Gb Tapes	11.57	11.11	13.59	13.05
3M-TR3	Ditto 3.2Gb Tapes	22.50	21.60	26.44	25.38
IOM-ZIP/1	Zip 100Mb Disk	9.83	9.44	11.55	11.09
IOM-ZIP/6	Zip 100Mb Disk 6 Pack inc Caddy	58.33	56.00	68.54	65.80
IOM-JAZ/1	Jaz 1Gb Disk	70.81	67.97	83.20	79.87

Sysquest

SYS-135MB	EZ135 Disk	15.28	14.67	17.95	17.23
SYS-230MB	EZ 230 Flyer Disc	16.94	16.27	19.91	19.11
SYS-1500MB	SyJet 1.5Gb Disc	68.06	65.33	79.97	76.77

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If you have bought from us recently you will notice the name and number of your own personal sales contact printed on your invoice.

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In the unlikely event that your product needs to be returned to Novatech the technical support will either issue a returns number or if the product is memory ask you to fill in the Memory Returns form sent with all memory orders.

If you have to send anything back to us we always recommend that you use an insured delivery service which can provide you with a proof of delivery. It is always a good idea to keep the original packaging for as long as possible as this is always the safest way to transport the product.

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Our money back policy

Look out for the products marked '14 day money back'. You can try these products for 14 days and if you are not entirely satisfied simply call after sales to arrange for their return for full refund (less carriage). You don't even have to give a reason for their return. As a measure of our confidence you will see that most of our own products are covered by this satisfaction guarantee.

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All of the products we sell, except consumables, have at least 12 months warranty, many have more. If you want to know about the warranty on your product and extended or on-site warranty options our sales department will be glad to help.

What if the product does not work?

Should you have a problem with any product you have purchased from us the first thing to do is call our technical support department on 01705 322522. They are open from 9:00am - 5:30pm Monday to Friday and 9:00am - 4:00pm on Saturdays.

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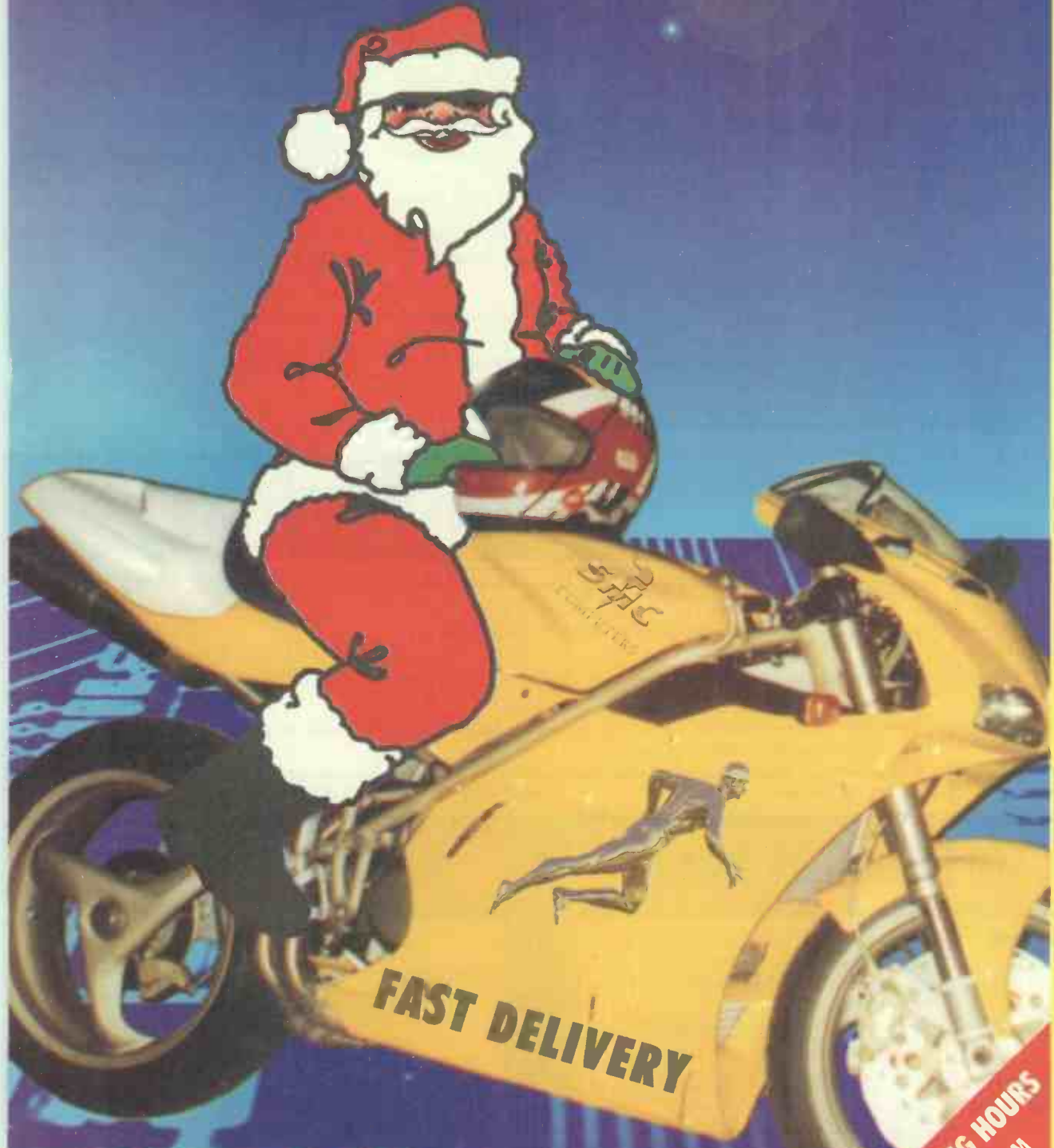
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Welcome to the Christmas edition of the SMC Catalogue.

At the end of every year, we at SMC take stock of what we have done in the year, and how our actions measured up to our plans.

After very strong growth over a number of years, we used the opportunities created by our increased size to make 1997 our "Quality Year", to take a good look at what we were doing, how we were doing it, and where we could make it even better. We honestly believe we offer the best service - before and after the sale - in the market, but complacency is the best way to lose any lead.

We have carefully increased the size of our sales force, enabling more time to be spent on each call, so that we can ensure the best possible solution to your needs. At the same time, we have grown our Customer Support function even faster, to bring us to the level of one after-sales person for every two salespeople. Should you have a query or problem, you can be sure that we have the organisation to cope!

With the operations side of the business, we have streamlined our goods handling, increased PC assembly resources and with an enhanced stock control system introduced last month, we are on hand to give you the quickest - but also the most flexible - supply of goods you will find.

With our catalogue, we have spent - and continue to spend - an immense amount of effort making sure that not only is our product range completely up to date at all times, but that our prices are amongst the lowest in the market.

We are very pleased with what we have accomplished this year, and as SMC goes from strength to strength, we hope that you'll share in our success by making us your source of PC hardware - and getting a level of service that can only come from a company with total dedication to being the best - and staying there.



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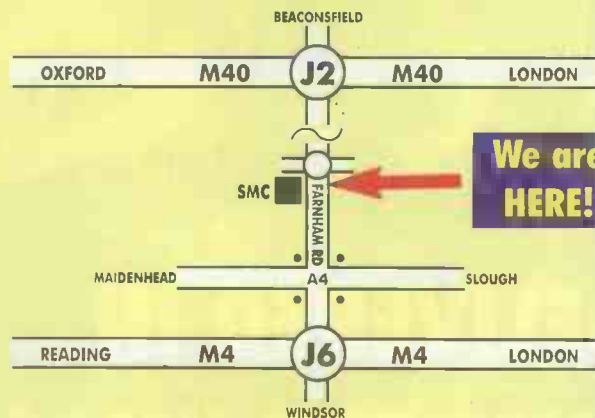
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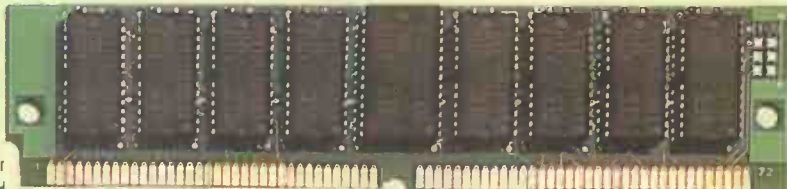
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Unfortunately, you can't tell if a memory module is absent-minded just by looking at it. So, it's reassuring to know that at SMC we haven't forgotten the importance of quality control. By instigating more frequent batch checks and tougher tests we aim to maintain the quality of our goods, and safeguard our hard won reputation for reliability. Our range of SIMMS and Matched Memory is exhaustive, and because we stock in depth we can guarantee swift delivery times and very competitive prices. All SMC customers have access to a superb level of technical support. Best of all, you only need to take a glance at our prices to see that you won't pay any extra for an extra special service. In fact, once you've done business with us, we think you'll recall us again and again and again.

What is a SIMM?

SMC GUIDE TO SIMM MEMORY...

72 PIN SIMM ACTUAL SIZE. CHIP CONFIGURATIONS MAY VARY



Industry standard SIMMS (Single In-line Memory Module) as fitted to IBM clone or unbranded machines are based on DRAM (Dynamic Random Access Memory) chips and provide a cost effective way of adding memory to the machine. However care must be taken and the following factors considered before you attempt a memory upgrade:

- The majority of machines use either standard SIMMS in a 30 pin or 72 pin form or a combination of the two. You will need to check which your machine takes before making your purchase.
- SIMMS are installed in slots which are generally laid out in banks i.e. split into single slots or pairs each being referred to as a bank. The SIMMS when fitted into a bank of two slots need to be fitted as a pair. A bank of four would require four SIMMS. Therefore the chosen upgrade would have to be determined by the number of SIMMS in any particular bank and the option of SIMM size available.
- 30 pin SIMMS are supplied in the older form of 9 chip or the newer 3 chip versions. Older 80286 and early 80386 machines normally require the 9 chip type whilst later 80386 and 80486 machines use the 3 chip and in most cases will also take the 9 chip versions.
- 72 pin SIMMS are only fitted to later 80486 machines and the new 80586 or PENTIUM based machines. These are usually fitted singularly on 80486 machines or in pairs as is the case of 80586 Pentium machines.

In some machines the memory is required to self test, this is done with the aid of a built-in Parity chip. 30 pin SIMMS are naturally an 8 bit SIMM with a one bit parity chip making them a 9 bit SIMM. 72 pin SIMMS are 32 bit with a four bit parity chip making them a 36 bit SIMM. Some proprietary SIMMS as used in branded machines use this parity chip to hold a machine instruction code that identifies itself to the machine enabling it to be seen by the system. Where some machines have their own memory test built in the additional parity chip is not required.



GENERIC MEMORY



EDO Memory - 72 Pin

Mb	Description	Speed	Part No	ex VAT	inc VAT
4Mb	1Mb x 32bit	60ns	13-97-0400	£11	£12.93
8Mb	2Mb x 32bit	60ns	13-97-0801	£17	£19.98
16Mb	4Mb x 32bit	60ns	13-97-1601	£32	£37.60
32Mb	8Mb x 32bit	60ns	13-97-3201	£59	£69.33
64Mb	16Mb x 32bit	60ns	13-97-6401	£225	£264.38
128Mb	32Mb x 32bit	60ns	13-97-1281	£488	£573.40

Non-Parity EDO Memory requires Motherboard support, but offers faster performance.

FREE!
ANTI-STATIC
WRIST STRAP

with all orders over £35.00
Please ask when ordering.



30 PIN SIMM ACTUAL SIZE. CHIP CONFIGURATIONS MAY VARY



SIMMS - 72 Pin

Mb	Description	Speed	Part No	ex VAT	inc VAT
1Mb	Full Parity, 256k x 36bit	70ns	13-97-0117	£25	£29.38
2Mb	Full Parity, 512k x 36bit	70ns	13-97-0217	£45	£52.88
4Mb	Non Parity, 1Mb x 32bit	60ns	13-97-0406	£11	£12.93
		70ns	13-97-0407	£12	£14.10
4Mb	Full Parity, 1Mb x 36bit	60ns	13-97-0416	£15	£17.63
		70ns	13-97-0417	£17	£19.98
8Mb	Non Parity, 2Mb x 32bit	60ns	13-97-0806	£17	£19.98
		70ns	13-97-0807	£22	£25.85
8Mb	Full Parity, 2Mb x 36bit	60ns	13-97-0816	£33	£38.78
		70ns	13-97-0817	£35	£41.13
16Mb	Non Parity, 4Mb x 32bit	60ns	13-97-1606	£32	£37.60
		70ns	13-97-1607	£35	£41.13
16Mb	Full Parity, 4Mb x 36bit	60ns	13-97-1616	£44	£51.70
		70ns	13-97-1617	£47	£55.23
32Mb	Non Parity, 8Mb x 32bit	60ns	13-97-3206	£59	£69.33
		70ns	13-97-3207	£68	£79.90
32Mb	Full Parity, 8Mb x 36bit	60ns	13-97-3216	£85	£99.88
		70ns	13-97-3217	£89	£115.15

Note: Standard 36-bit SIMMS have full parity checking. We batch test SIMMS to ensure quality & reliability. 60ns Simms are in better supply than 70ns. We strongly advise the purchase of 60ns, please check your manual for compatibility.

SDRAM Memory - 168 Pin

Mb	Description	Part No	ex VAT	inc VAT
8Mb	1Mb x 64bit	19-95-0821	£55	£64.63
16Mb	2Mb x 64bit	19-95-1622	£59	£69.33
32Mb	4Mb x 64bit	19-95-3224	£99	£116.33
64Mb	8Mb x 64bit	19-95-6468	£229	£269.08

Non-Parity SDRAM, Synchronous, 3.3volt, requires Intel VX/TX/LX chipset & motherboard support. 168pin DIMM, Dual Inline Memory Module.

SIMMS - 30 Pin

Mb	Description	Speed	Part No	ex VAT	inc VAT
1Mb	1Mb x 9bit, 3 chip	60ns	10-97-1963	£7	£8.23
		70ns	10-97-1973	£8	£9.40
		80ns	10-97-1983	£18	£21.15
1Mb	1Mb x 9bit, 9 chip	60ns	10-97-1969	£14	£16.45
		70ns	10-97-1979	£11	£12.93
		80ns	10-97-1989	£22	£25.85
4Mb	4Mb x 9bit, 3 chip	60ns	10-97-4963	£15	£17.63
		70ns	10-97-4973	£19	£22.33
4Mb	4Mb x 9bit, 9 chip	60ns	10-97-4969	£18	£21.15
		70ns	10-97-4979	£20	£23.50
16Mb	16Mb x 9bit, 9 chip	60ns	10-97-7976	£99	£116.33

Note: All 30pin SIMMS from SMC have full parity checking. We batch test SIMMS to ensure quality & reliability. 60ns Simms are in better supply than 70ns. We strongly advise the purchase of 60ns, please check your manual for compatibility.

SO DIMM Memory - 72 Pin

Voltage	Mb	Description	Speed	Part No	ex VAT	inc VAT
3.3v	4Mb	1 x 4 chip	70ns	19-93-0413	£36	£42.30
3.3v	4Mb	1 x 16 chip	70ns	19-93-0433	£36	£42.30
3.3v	8Mb	1 x 16 chip	70ns	19-93-0833	£62	£72.85
3.3v	8Mb	2 x 8 chip	70ns	19-93-0823	£64	£75.20
3.3v	16Mb	4 x 4 chip	70ns	19-93-1613	£86	£101.05
5v	4Mb	1 x 4 chip	70ns	19-93-0415	£36	£42.30
5v	4Mb	1 x 16 chip	70ns	19-93-0435	£35	£41.13
5v	8Mb	1 x 16 chip	70ns	19-93-0835	£48	£56.40
5v	8Mb	2 x 8 chip	70ns	19-93-0825	£64	£75.20
5v	16Mb	4 x 4 chip	70ns	19-93-1615	£84	£98.70

Please check machine compatibility before ordering - for voltage and fitting: i.e 1 x 4 chip 5v etc. For branded machines e.g. IBM/Dell please call for details.

PRODUCT INFORMATION

EDO MEMORY

New generations of Pentium-class chipset designs are typically tuned to support Extended Data Out (EDO), an enhanced design for managing DRAM chips. EDO SIMMS offer a cost-effective alternative to installing a secondary cache as a means of boosting system performance. For top-level configurations, EDO RAM combined with a secondary cache will ensure optimum performance for all memory accesses.

Not sure which module to use?

Our sales staff can quickly identify the right memory for your system.
Call SMC for the best in memory upgrades.

INSIDE INFORMATION

Did you know - SMC, as a totally independent and British owned company - has an unrivalled commitment to serving its customers.

We have the industry's best ratio of one after-sales person to every two salespeople because we genuinely look after our customers, no matter what the problem.

After another record year in 1996, when sales grew by 80%, we cut back our growth plans for 1997 to ensure that our service levels did not suffer. Do you know anyone else who'd do that?

Yet we are still able to maintain our prices as amongst the most competitive in the market, which is ongoing proof of our belief that if you make the effort to do something really well, the results will follow.

5 Year
Warranty
-Batch
Tested



SALES
HOTLINE **01753 550333**

E&OE. A Full list of SMC Terms & Conditions
is available on request

5



IF ALL MEMORY IS THE SAME, WHY DO SOME BRANDS FAIL MORE OFTEN THAN OTHERS?

Upgrading memory is the single most cost effective way of increasing system performance and productivity.

But Not All Memory Is Created Equal.

Knowing what questions to ask about memory will save you time and money.

Warranties - what do they mean?

Insist on a lifetime warranty from an established manufacturer.



What about support?

Make sure your memory comes from a manufacturer that offers free, expert technical support.

What are the testing procedures?

Choose memory from a manufacturer who tests every single module 100% of the time.

Is compatibility absolute?

Modules must be specifically designed for the exact systems they will be used in.

Where do the components come from?

Only accept chips purchased directly from manufacturers such as IBM, Samsung and Toshiba.

Kingston Technology is the world's leading supplier of computer memory. All Kingston memory is guaranteed for 100% compatibility and reliability and carries a lifetime warranty.

Kingston manufactures memory for nearly every system in use today. Call for details of the right memory for your machine.

KINGSTON MATCHED MEMORY

Systems	Mb	Part No	ex VAT	inc VAT
AST				
Advantage 600, 800 series, Bravo LC, LP, MS, MS-T P/66-166, MT series	4Mb	KST0987/4	£17	£19.98
	8Mb	KST0987/8	£33	£38.78
	16Mb	KST0987/16	£57	£66.98
	32Mb	KST0987/32	£114	£133.95
COMPAQ				
DeskPro 2000, 4000, 6000 series	8Mb	KTC2430/8	£33	£38.78
	16Mb	KTC2430/16	£67	£78.73
	32Mb	KTC2430/32	£114	£133.95
	64Mb	KTC2430/64	£228	£267.90
LTE 5000, 5100 & 5200 series	8Mb	KTCE5000/8	£48	£56.40
	16Mb	KTCE5000/16	£76	£89.30
	32Mb	KTCE5000/32	£147	£172.73
	64Mb	KTCE5000/64	£285	£334.88
HEWLETT PACKARD				
Vectra VL5 5/166MMX, 5/200MMX, 5/233MMX	8Mb	KTH-VL4/8	£33	£38.78
	16Mb	KTH-VL4/16	£67	£78.73
	32Mb	KTH-VL4/32	£114	£133.95
	64Mb	KTH-VL4/64	£228	£267.90
IBM				
Aptivo M30, M31, M40, M41, M50, M51, M53, M55, M61, M62, M70, M71, PC300 series	4Mb	KTM-APT/4	£17	£19.98
	8Mb	KTM-APT/8	£33	£38.78
	16Mb	KTM-APT/16	£57	£66.98
	32Mb	KTM-APT/32	£114	£133.95
DELL				
Optiplex GXPRO series	16Mb	KTD-GXPRO/16	£81	£95.18
	32Mb	KTD-GXPRO/32	£152	£178.60
	64Mb	KTD-GX1/64	£352	£413.60
Dimension p133v, p166v, p200v	8Mb	KTD-SDRAM/8	£48	£56.40
	16Mb	KTD-SDRAM/16	£71	£83.43
Dimension XPS p133s, p166s	32Mb	KTD-SDRAM/32	£133	£156.28
TOSHIBA				
Portage 610 CT, Satellite 110CS/C, 115CS, 200CDS, 05CDS, Satellite Pro 420/4, 5/430 CDS/CDT, T2100-T2155 CS/CDS/CDT,	8Mb	KTT610/8i	£52	£61.10
	16Mb	KTT610/16i	£81	£95.18
	32Mb	KTT610/32i	£147	£172.73
	8Mb	KTT2100/8i	£43	£50.53
	16Mb	KTT2100/16i	£76	£89.30
	24Mb	KTT2100/24i	£109	£128.08

KINGSTON GENERIC MEMORY

Systems	Mb	Part No	ex VAT	inc VAT
30 Pin 3 Chip Simms 60 or 70Ns	1Mb	KTM1000/9-70	£19	£22.33
	4Mb	KTM4000/9-70s	£20	£23.50
30 Pin 9 Chip Simms 60 or 70Ns	1Mb	KTM1100/9-70s	£9	£10.58
	4Mb	KTM4900/9-70	£33	£38.78
72 Pin Non-Parity Simms 60 or 70Ns (Available in Tin (T) or Gold (G))	4Mb	KTM1x32L-60	£17	£19.98
	8Mb	KTM2x32L-60	£33	£38.78
	16Mb	KTM4x32L-60	£57	£66.98
	32Mb	KTM8x32L-60	£114	£133.95
72 Pin Parity Simms 60 or 70Ns (Available in Tin (T) or Gold (G))	4Mb	KTM1x36L-60	£22	£25.85
	8Mb	KTM2x36L-60	£43	£50.53
	16Mb	KTM4x36L-60	£67	£78.73
	32Mb	KTM8x36L-60	£133	£156.28
72 Pin EDO Non-Parity Simms 60Ns (Available in Tin (T) or Gold (G))	4Mb	KTM1x32L-60E	£17	£19.98
	8Mb	KTM2x32L-60E	£33	£38.78
	16Mb	KTM4x32L-60E	£57	£66.98
	32Mb	KTM8x32L-60E	£114	£133.95
168 Pin DIMM, 100MHz Synchronous (Gold Connectors)	4Mb	KTM16x32LA-60E	£352	£413.60
	16Mb	KTM2x64S842-100E6	£81	£95.18
	32Mb	KTM4x64S842-100E6	£152	£178.60
	64Mb	KTM8x64S844-100E6	£357	£419.48

JUST A FEW EXAMPLES OF THE MASSIVE RANGE AVAILABLE RING NOW FOR THE LATEST PRICING ON YOUR MODEL

Kingston
TECHNOLOGY
COMPUTING WITHOUT LIMITS

FREE
Technical Support

100%
TESTED
RELIABILITY

LIFE
TIME
WARRANTY

COMPAQ

Laptop Memory

Systems	Mb	Part No	ex VAT	inc VAT
Armada 1100 Series 1125, 1120T, 1120, 1100	8Mb	17-09-7708	£79	£92.83
	16Mb	17-09-7716	£149	£175.08
Armada 1130 Series	16Mb	17-30-6216	£129	£151.58
	32Mb	17-30-6232	£248	£291.40
Armada 1500 Series	8Mb	17-09-1508	£45	£52.88
	16Mb	17-09-1516	£80	£94.00
	32Mb	17-09-1532	£195	£229.13
	64Mb	17-09-1564	£385	£452.38
Armada 4100 Series (Kits) 4160T, 4150, 4131T, 4130T, 4125D, 4120T, 4120, 4110D, 4110, 4100	8Mb	17-09-7808	£89	£104.58
	16Mb	17-09-7816	£169	£198.58
	32Mb	17-09-7832	£286	£336.05
Armada 7750, 7730, 7710	8Mb	17-09-1508	£45	£52.88
	16Mb	17-09-1516	£80	£94.00
	32Mb	17-09-1532	£195	£229.13
	64Mb	17-09-1564	£385	£452.38
Concerto 4/33, 4/25	4Mb	17-09-3204	£45	£52.88
	8Mb	17-09-3208	£55	£64.63
	16Mb	17-09-7216	£112	£131.60
Contura 4/25, 4/25CX, 4/25c	4Mb	17-09-5204	£49	£57.58
	8Mb	17-09-5208	£85	£99.88
	16Mb	17-09-5216	£115	£135.13
Contura 400/410/420/430 Series 430C, 430CX, 420C, 420CX, 410C, 410CX, 400C 250, 400CX 250	4Mb	17-09-5104	£49	£57.58
	8Mb	17-09-5108	£69	£81.08
	16Mb	17-09-5316	£117	£137.48
Contura Aero 4/33C, 4/25	4Mb	17-09-5152	£49	£57.58
	8Mb	17-09-5156	£69	£81.08
	16Mb	17-09-5158	£115	£135.13
LTE 5000 Series (Kits) 5400, 5380, 5300, 5280, 5250 5200, 5150, 5100, 5000	8Mb	17-09-3608	£48	£56.40
	16Mb	17-09-3616	£88	£103.40
	32Mb	17-09-3632	£168	£197.40
	64Mb	17-09-3664	£328	£385.40
LTE Elite Series 4/75C, 4/75CX, 4/75CXL, 4/50CX 4/50E, 4/40C, 4/40CX	4Mb	17-09-3204	£45	£52.88
	8Mb	17-09-3208	£55	£64.63
	16Mb	17-09-7216	£112	£131.60
LTE Lite 4/33C, 4/25, 4/25C, 4/25E	4Mb	15-09-0604	£49	£57.58
	8Mb	15-09-0608	£69	£81.08
	16Mb	15-09-0616	£99	£116.33
Presario Notebook 1080, 1075, 1070, 1060, 1030, 1020, 1010	8Mb	17-09-1808	£55	£64.63
	16Mb	17-09-1816	£95	£111.63
	32Mb	17-09-1832	£185	£217.38

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WRIST STRAP

with all orders over £35.00
Please ask when ordering.



ZENITH

Laptop - Desktop Memory

Systems	Mb	Part No	ex VAT	inc VAT
Z300/400 Series	4Mb	17-89-5304	£39	£45.83
	16Mb	17-89-5316	£127	£149.23
Z-386SX/20, Z-386SX16 (Kit)	2Mb	17-89-0102	£26	£30.55
Z-Select 100 486 Series Z-466X, Z-450X, Z-433D, Z-433S, Z-425S	4Mb	17-89-1004	£77	£90.48
	8Mb	17-89-1008	£85	£99.88
	16Mb	17-89-1016	£85	£99.88
Z-Server EX & LT Series (Kits) EX P66E, 450DE, 433DE LT P60E, 466XE, 433DE	8Mb	17-89-7508	£89	£104.58
	16Mb	17-89-7516	£109	£128.08
	32Mb	00-00-0000	£POA	£POA
Z-Server SE & DE Series (Kits) 450DE, 433DE, 425SE	8Mb	17-89-7508	£89	£104.58
	16Mb	17-89-7516	£109	£128.08
	32Mb	00-00-0000	£POA	£POA
Z-Station 325Sh, 325Sn	1Mb	17-89-5301	£29	£34.08
	4Mb	17-89-5304	£39	£45.83
Z-Station 450XEn, 433Dh, 433DEh, 425Sh, 420Sh, 420SEh, 420Sn, 420SEn	4Mb	17-89-5304	£39	£45.83
	16Mb	17-89-5316	£127	£149.23
LAPTOPS				
Mastersport 386SL, 386SLe	2Mb	£127	£127	£149.23
ZDS-600NL Series 625nl, 620nl	2Mb	17-89-2502	£39	£45.83
Z-Note GT P90, P75 (Kits) 450DE, 433DE, 425SE	8Mb	00-00-0000	£POA	£POA
	16Mb	00-00-0000	£POA	£POA
	32Mb	00-00-0000	£POA	£POA

PRODUCT INFORMATION

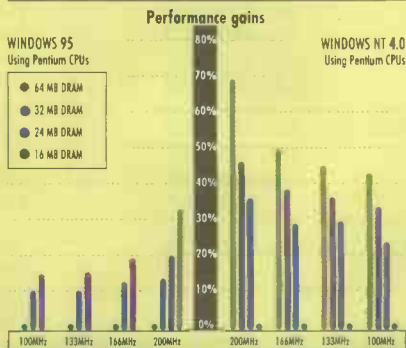
Windows '95

Windows '95 requires a minimum of 8Mb of RAM memory. 12Mb is recommended. An upgrade now will do wonders for your system's performance.

'BP' Memory & Faulty Memory Chips Warning!

'BP' memory simulates parity with 'logic parity' and may cause compatibility problems with some systems that require standard 9bit or 36bit SIMM's that have full parity, self checking built in. Check system requirements, or ask your sales contact who can advise you. Some Memory suppliers are using Faulty Memory Chips which, just like bad-sectors on Hard Drives maps out the good areas. Unlike some suppliers, SMC will only ever supply the highest quality modules which we batch test & back with a 5 Year Warranty!

MEMORY UPGRADE PERFORMANCE CHART



HOW MUCH MEMORY?

Increasing memory is the single best way to improve system performance.

A recent study on productivity by PC Computing demonstrated how adding just 4Mb of memory increased productivity by upto 26%. The productivity gains achieved as a result of adding extra memory are shown in chart opposite.



Worry - Free!

Intel overdrive options for many of the systems listed.

See page 12

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WRIST STRAP

with all orders over £35.00
Please ask when ordering.



COMPAQ

Desktop Memory

Systems	Mb	Part No	ex VAT	inc VAT
Deskpro Series (Kits) 5133, 5120, 5100, 590, 575	8Mb	13-97-0407x2	£30	£35.25
	16Mb	13-97-0808x2	£76	£89.30
	32Mb	13-97-1607x2	£156	£183.30
	64Mb	13-97-3207x2	£332	£390.10
Deskpro Series (Kits) 5166 1200/2000, 5150 1200/2000, 5133 1200/2000, 2000, 5120 1200, 5100 840/1200, 575 840	8Mb	13-97-0407x2	£30	£35.25
	16Mb	13-97-0808x2	£76	£89.30
	32Mb	13-97-1607x2	£156	£183.30
	64Mb	13-97-3207x2	£332	£390.10
Deskpro 2000 (-6000) Series (Kits) 6200/2500/CD, 6180/1200/CD	8Mb	13-97-0407x2	£30	£35.25
	16Mb	13-97-0808x2	£76	£89.30
	32Mb	13-97-1607x2	£156	£183.30
	64Mb	13-97-3207x2	£332	£390.10
Deskpro 2000 (-5000) Series (Kits) 5200/2500, 5166/2500, 5166/2500/CD, 5166/1200, 5133/2500, 5133/2500/CD, 5133/1200, 5120/1200, 5100/1200	8Mb	13-97-0407x2	£30	£35.25
	16Mb	13-97-0808x2	£76	£89.30
	32Mb	13-97-1607x2	£156	£183.30
	64Mb	13-97-3207x2	£332	£390.10
Deskpro 2000/ML Series (Kits) 5166 2000/ML, 5150 2000/ML, 5133 2000/ML	8Mb	13-97-0407x2	£30	£35.25
	16Mb	13-97-0808x2	£76	£89.30
	32Mb	13-97-1607x2	£156	£183.30
	64Mb	13-97-3207x2	£332	£390.10
Deskpro 5/66M, 5/60M (Kits)	16Mb	17-09-0301x4	£35	£41.13
	32Mb	17-09-0304x4	£45	£52.88
	64Mb	17-09-0304x4	£45	£52.88
	128Mb	17-09-0304x4	£45	£52.88
Deskpro 590MX, 575MX (Kits)	8Mb	13-97-0407x2	£30	£35.25
	16Mb	13-97-0807x2	£48	£56.40
	32Mb	13-97-1607x2	£106	£124.55
	64Mb	13-97-3207x2	£194	£227.95
Deskpro 4100, 466, 450	4Mb	13-97-0407	£12	£14.10
	8Mb	13-97-0807	£22	£25.85
	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
Deskpro XE 560 (Kits)	8Mb	17-09-8008	£85	£99.88
	16Mb	17-09-8016	£115	£135.13
	32Mb	17-09-8032	£185	£217.38
	64Mb	17-09-8064	£255	£299.63
Deskpro XE 4100, 466, 450, 433s	2Mb	17-09-0102	£38	£44.65
	4Mb	13-97-0417	£17	£19.98
	8Mb	13-97-0817	£35	£41.13
	16Mb	13-97-1617	£47	£55.23
Deskpro 486s/16M, 25M, 33M, 50M 66M,	4Mb	17-30-9204	£28	£32.90
	8Mb	19-97-0817	£38	£44.65
Deskpro 386/33L, 486/25, 33L, 50L	2Mb	17-09-1002	£84	£98.70
	8Mb	17-09-1008	£109	£128.08
	32Mb	17-09-1032	£585	£687.38
Deskpro XL 450, 466, 560, 566 575, 590, 5100, 5120, 5133 Kit	4Mb	17-09-0804	£79	£92.83
	8Mb	17-09-0808	£48	£56.40
	16Mb	17-09-0816	£89	£104.58
	32Mb	17-09-0832	£169	£198.58
Presario 633, 650, 660	2Mb	17-09-0102	£38	£44.65
	4Mb	13-97-0417	£17	£19.98
	8Mb	13-97-0817	£35	£41.13
	16Mb	13-97-1617	£47	£55.23
	32Mb	13-97-3217	£89	£104.58

Desktop Memory

Systems	Mb	Part No	ex VAT	inc VAT
Presario CDS-510, 520, 524, 526, 20, 724, 860, 920, 924 7Series Presario CDTV-520, 528, 920 Series	4Mb	13-97-0407	£12	£14.10
	8Mb	13-97-0807	£22	£25.85
	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
Presario 7170, 7180, 9546, 9548, 9564 Series (Kit-2)	8Mb	13-97-0807	£22	£25.85
	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
	64Mb	00-00-0000	£332	£390.10
Presario CDS-774, 972, 982, 992, CDTV-978 Series (Kit-2)	8Mb	13-97-0807	£22	£25.85
	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
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Proliant 1000 486DX2/66, 1000R	8Mb	13-97-0817	£35	£41.13
	16Mb	13-97-1617	£47	£55.23
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Proliant 1000 5/60, 2000 486/50, 5/66, 90, 2000R Kit	16Mb	17-09-8016	£115	£135.13
	32Mb	17-09-8032	£185	£217.38
	64Mb	17-09-8064	£255	£299.63
	128Mb	17-09-8088	£495	£581.63
Proliant 4000 486/50, 4000 5/66, 90, 100, 4000R 5/66, 5/100, 4500 133, 4500R Kit	16Mb	17-09-8016	£115	£135.13
	32Mb	17-09-8032	£185	£217.38
	64Mb	17-09-8064	£255	£299.63
	128Mb	17-09-8088	£495	£581.63
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	32Mb	17-09-8016	£89	£104.58
	64Mb	17-09-8032	£169	£198.58
Prolineo 4/25s, 33, 33s, 50, 66 CDS	1Mb	17-09-0101	£26	£30.55
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	4Mb	13-97-0417	£17	£19.98
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Prolineo Desktop 450, 466, 4100	16Mb	13-97-1617	£47	£55.23
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	2Mb	17-09-0102	£38	£44.65
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Prolineo 450, 466, 4100	8Mb	13-97-0807	£22	£25.85
	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
	4Mb	13-97-0417	£17	£19.98
Prosignia VS 486SX/33, DX/33, DX2/66	8Mb	13-97-0817	£35	£41.13
	16Mb	17-09-6216	£266	£312.55
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	32Mb	13-97-3207	£68	£79.90
	64Mb	00-00-0000	£332	£390.10
Prolinea 575e, MX, 590MX, 5100e, 5120e, MX Series (Kit-2)	8Mb	13-97-0807	£22	£25.85
	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
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Prolinea MT 4/33s, 50, 66	2Mb	17-09-0102	£38	£44.65
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	8Mb	13-97-0817	£35	£41.13
	16Mb	13-97-1617	£47	£55.23
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	8Mb	13-97-0817	£35	£41.13
	16Mb	13-97-1617	£47	£55.23
Prosignia 300 5/75, 5/90, 5/120, 50 5/90 Kit	32Mb	13-97-3207	£68	£79.90
	8Mb	17-09-0808	£48	£56.40
	16Mb	17-09-0816	£89	£104.58
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	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
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	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
	64Mb	00-00-0000	£332	£390.10
IBM PC300, 330, 350 486s	4Mb	13-97-0407	£12	£14.10
	8Mb	13-97-0807	£22	£25.85
	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
IBM PC300, 330, 350 Pentiums (Kit-2)	8Mb	17-97-0807	£24	£28.20
	16Mb	13-97-1607	£35	£41.13
	32Mb	13-97-3207	£68	£79.90
	64Mb	00-00-0000	£332	£390.10
IBM PC700, 730, 750 Pentiums (Kit-2)	8Mb	17-30-9108	£52	£61.10
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	8Mb	17-30-9208	£55	£64.63
	16Mb	17-30-1516	£98	£115.15
	32Mb	00-00-0000	£199	£233.83
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	16Mb	10-97-4973 x4	£136	£159.80
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PS/1 2123 PRO 386SX	2Mb	17-30-9302	£36	£42.30
	4Mb	17-30-9204	£28	£32.90
	8Mb	17-30-9108	£52	£61.10
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	8Mb	17-30-9108	£52	£61.10
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	8Mb	17-30-9108	£52	£61.10
	16Mb	13-97-1617	£47	£55.23
PS/VP 6384 Series with IBM 30pin slots	4Mb	17-30-1404	£35	£41.13
	8Mb	10-97-4973 x4	£136	£159.80
PS/VP 6384 C00, C20, C40 Series	2Mb	17-30-9102	£69	£81.08
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	16 Mb	17-30-0416	£129	£151.58
ThinkPad 360, 360C, CE, CSE, CS, P, PE ThinkPad 345C, CS	4Mb	15-09-0604	£49	£57.58
	8Mb	15-09-0608	£69	£81.08
	16Mb	15-09-0616	£99	£116.33
ThinkPad 355, 355C, 355Cs ThinkPad 370C, 730T, 730TE	4Mb	15-30-4204	£69	£81.08
	8Mb	15-30-4208	£79	£92.83
	16Mb	15-30-4416	£125	£146.88
ThinkPad 365C, CD, CS, CSD, 365E, ED	4Mb	17-30-0498	£25	£29.38
	16Mb	17-30-1698	£80	£94.00
ThinkPad 560; 365X, 365XD, 380 Series ThinkPad 760E, 760ED, 760EL, 760ELD	8Mb	17-30-6208	£75	£88.13
	16Mb	17-30-6216	£129	£151.58
	32Mb	17-30-6232	£248	£291.40
ThinkPad 500 Series ThinkPad 510Cs *16Mb only available on 510Cs	4Mb	17-30-0704	£68	£79.90
	8Mb	17-30-0708	£119	£139.83
	16Mb	17-30-0716*	£229	£269.08
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	8Mb	17-30-0898	£55	£64.63
	16Mb	17-30-1698	£80	£94.00
ThinkPad 710T	4Mb	17-30-7504	£66	£77.55
	8Mb	17-30-7508	£99	£116.33
ThinkPad 720, 720C, 700, 700C	4Mb	15-30-4204	£69	£81.08
	8Mb	15-30-4208	£79	£92.83
ThinkPad 750, 750C, Ce, Cs, P Series ThinkPad 755C, Cs, CD, CDV, CE, CSE, CV	8Mb	15-30-4208	£79	£92.83
	16Mb	15-30-4416	£125	£146.88
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	8Mb	17-30-0508	£77	£90.48
	16Mb	17-30-0516	£109	£128.08
ThinkPad 760C, 760CD, 760L, 760LD	8Mb	17-30-0908	£89	£104.58
	16Mb	17-30-0916	£149	£175.08
ThinkPad 820 Series	8Mb	17-30-8208	£79	£92.83
	16Mb	17-30-8216	£129	£151.58
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	32Mb	13-97-1617x2	£124	£145.70
	64Mb	13-97-3217x2	£238	£279.65
Dimension 425si, 433i/si, 450i, 466i, XPS 450V, 466V	4Mb	13-97-0407	£12	£14.10
	16Mb	13-97-1607	£35	£41.13
Dimension XPS 486 Midsized 4100, 466	4Mb	13-97-0407	£12	£14.10
	16Mb	13-97-1607	£35	£41.13
Dimension XPS P60 FS (Kits)	8Mb	13-97-0407x2	£32	£37.60
	16Mb	13-97-0807x2	£56	£65.90
	32Mb	13-97-1607x2	£96	£112.80
Dimension XPS P166C, P133C, P120C, P100C, P100t, P90 (EDO Kits)	8Mb	13-97-0400x2	£26	£30.55
	16Mb	13-97-0801x2	£42	£49.35
	32Mb	13-97-1601x2	£84	£98.70
	64Mb	13-97-3201x2	£168	£197.40
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	16Mb	19-95-1622	£59	£69.33
	32Mb	19-95-3224	£99	£116.33
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Dimension XPS Pro Series (Kits) 200n, 180n, 150n Dimension P75T, P90T etc., EDO Kits	8Mb	13-97-0400x2	£26	£30.55
	16Mb	13-97-0801x2	£42	£49.35
	32Mb	13-97-1601x2	£84	£98.70
	64Mb	13-97-3201x2	£168	£197.40
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	16Mb	13-97-1617	£47	£55.23
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	16Mb	13-97-1607	£35	£41.13
OmniPlex 4100/ME, 466/ME, 450/ME, 433/ME	8Mb	13-97-0407x2	£32	£37.60
	16Mb	13-97-0807x2	£56	£65.90
	32Mb	13-97-1607x2	£96	£112.80
OmniPlex 590/ME, 566/ME, 560/ME (Kits)	8Mb	13-97-0417x2	£42	£49.35
	16Mb	13-97-0817x2	£78	£91.65
	32Mb	13-97-1617x2	£124	£145.70
	64Mb	13-97-3217x2	£238	£279.65
OptiPlex 433/e, 450/e, 466/e, 4100/e, 466/L(E)	4Mb	13-97-0407	£12	£14.10
	16Mb	13-97-1607	£35	£41.13
OptiPlex (V) Series 486 s/L, L, s/MX, MX Series	4Mb	13-97-0407	£12	£14.10
	16Mb	17-20-1416	£75	£88.13

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	16Mb	13-97-0817 x2	£78	£91.35
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	64Mb	13-97-3217 x2	£238	£279.65
OptiPlex XL/XM/XMT Series (Kits) 5133, 5120, 5100, 590, 575	8Mb	13-97-0407 x2	£32	£37.60
	16Mb	13-97-0807 x2	£56	£65.80
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OptiPlex GXpro 6200, 6180 OptiPlex GXiL/M/MT 5200, 5166, 5133	16Mb	00-00-0000	£POA	£POA
	32Mb	00-00-0000	£POA	£POA
	64Mb	00-00-0000	£POA	£POA
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	16Mb	13-97-1607	£35	£41.13
Performance 425s/ME, 433/ME, 433s/ME, 450/ME, 466/ME (Kits)	8Mb	13-97-0417 x2	£42	£49.35
	16Mb	13-97-0817 x2	£78	£91.65
	32Mb	13-97-1617 x2	£124	£145.70
Power Desktop 486 D Series	4Mb	13-97-0418	£28	£32.90
	16Mb	13-97-1617	£47	£55.23
PowerEdge SP-2, SP Series (Kits) SP-2 5133, 5100, 590, 575; SP 5100, 590, 566, 560	8Mb	13-97-0417 x2	£42	£49.35
	16Mb	13-97-0817 x2	£78	£91.65
	32Mb	13-97-1617 x2	£124	£145.70
	64Mb	13-97-1617 x2	£238	£279.65
PowerEdge XE-2, XE Series (Kits) XE-2 5133, 5100; XE 5100, 590, 566, 560	8Mb	13-97-0417 x2	£42	£49.35
	16Mb	13-97-0817 x2	£78	£91.65
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	64Mb	13-97-1617 x2	£238	£279.65
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	16Mb	13-97-0817 x2	£78	£91.65
	32Mb	13-97-1617 x2	£124	£145.70
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	32Mb	13-97-1607 x2	£96	£112.80
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	16Mb	17-90-5316	£92	£108.10
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	16Mb	17-20-5316	£95	£111.63
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	8Mb	17-20-5308	£49	£57.58
	16Mb	17-20-5316	£95	£111.63
Latitude LM P166, P133ST, P100SO (Kits)	8Mb	00-00-0000	£POA	£POA
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	64Mb	17-75-6664	£499	£586.33
Portege 620CT, 610CT	8Mb	17-75-6108	£55	£64.63
	16Mb	17-75-6116	£99	£116.33
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Satellite 105CS, 100CS Series	8Mb	17-75-6108	£55	£64.63
	16Mb	17-75-6116	£99	£116.33
Satellite PRO 405, 400 Series	8Mb	17-75-6108	£55	£64.63
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Satellite 210,205,200,115,110 Series	8Mb	17-75-6108	£55	£64.63
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Satellite Pra 430,425,420,415,410 Series	8Mb	17-75-6108	£55	£64.63
	16Mb	17-75-6116	£99	£116.33
Satellite PRO 460CDT, 445CDX, 445CDT, 440CDT, 440CDX	8Mb	17-75-6508	£45	£52.88
	16Mb	17-75-6516	£79	£92.83
	32Mb	17-75-6532	£187	£219.73
	64Mb	17-75-6564	£250	£293.75
Satellite 225CDS, 220CDS	128Mb	17-75-6528	£799	£938.83
	8Mb	17-75-6108	£55	£64.63
TECRA 740, 730, 720, 710 Series	16Mb	17-75-6116	£99	£116.33
	32Mb	17-75-6132	£188	£220.90
	8Mb	17-75-6308	£109	£128.08
TECRA 700CS, 700CT Series	16Mb	17-75-6316	£155	£182.13
	32Mb	17-75-6332	£277	£325.48
	8Mb	17-75-6508	£45	£52.88
TECRA 530CDT, 520CDT, 510CDS, 510CDT, 500CS, 500CDT	16Mb	17-75-6516	£79	£92.83
	32Mb	17-75-6532	£187	£219.73
	48Mb	17-75-6548	£250	£293.75
	128Mb	17-75-6528	£799	£938.83
Equium 6200 Desktop Series	8Mb	00-00-0000	£POA	£POA
	16Mb	00-00-0000	£POA	£POA
	32Mb	00-00-0000	£POA	£POA
Equium 5200, 5160 Desktop Series	16Mb	13-97-0801x2	£42	£49.35
	32Mb	13-97-1601x2	£84	£98.70
	64Mb	13-97-3201x2	£168	£197.40

SMC HELPS YOU UNLEASH YOUR POTENTIAL

INSIDE INFORMATION

Making the perfect match..

It's important to remember that although some system modules make look similar they are often configured for a particular system. Matched memory modules from SMC are designed to meet the original manufacturers specifications. They will slot perfectly into your PC with the minimum of fuss. All matched memory upgrades are supplied with a full 5 year warranty. When ordering don't forget to ask about our free anti-static wrist straps to ensure safer installation.

Right across the board..

We can supply system matched memory for PC's built by the world's leading manufacturers, including - Acer, AST, Amra, Apple, Apricot, Brother, Canon, Compaq, Dell, Elonex, Escam, Gateway, Hewlett Packard, IBM, INTEL, NEC, Toshiba and Zenith. Don't worry if your PC isn't listed here, we cater for many more systems and our memory module experts will be only to happy to help.

5 Year
Warranty
- Batch
Tested



SMC
COMPUTERS



SMC : THE BEST FOR PERFORMANCE

SMC : UK's Most Dynamic Supplier...

When you buy a Motherboard from SMC, you get full telephone technical support. You also get SMC's free 16 page, easy to follow Installation Guide.

Subjects covered include:-

Mounting the Board, installing Processors and Memory, making Power and Case connections.
Basic and Advanced connections, configuring your BIOS and a section on Troubleshooting.



INTEL Overdrive Processors

Part No	Model-Description	ex VAT	inc VAT
Pentium MMX Overdrive			
09-31-5205	200Mhz Pentium MMX OverDrive, for 3.3v, built on fan, for Pentiums at 100/133/166Mhz with Socket 7 ZIF	£179	£210.33
09-31-5185	180Mhz Pentium MMX OverDrive, for 3.3v, built on fan, for Pentiums at 90/120/150Mhz with socket 5/7 ZIF (upgrades P75 to P150Mhz)	£139	£163.33
09-31-5165	166Mhz Pentium MMX OverDrive, for 3.3v, built on fan, for Pentiums at 100Mhz with a socket 5/7 ZIF	£113	£132.78
09-31-5155	125/150Mhz Pentium MMX OverDrive, for 3.3v, built on fan, for Pentiums at 75/90Mhz with a socket 5/7 ZIF	£115	£135.13
MMX Overdrives will upgrades all Pentium PC's to MMX technology!			
Pentium P60/P66			
09-31-5105	Pentium 120/133Mhz OverDrive, built on fan, for a PENTIUM at 60 or 66Mhz with a Socket 4 ZIF	£113	£132.78
486 to Pentium Overdrive			
09-31-5083	83Mhz Pentium OverDrive, P24T, 5v, built on fan for a 486 PC with a Socket 3 ZIF	£114	£133.95

Processors

Part No	Model-Description	ex VAT	inc VAT
Intel Pentium MMX - Socket 7, 1Yr Warranty			
09-31-4166	Intel Pentium MMX P166 - 166Mhz, 2.8v	£79	£92.83
09-31-4200	Intel Pentium MMX P200 - 200Mhz, 2.8v	£145	£170.38
09-31-4233	Intel Pentium MMX P233 - 233Mhz, 2.8v	£212	£249.10
Intel Pentium MMX - Socket 7, 3 Yr Warranty (Boxed, with HS & Fan)			
09-31-6166	Intel Pentium MMX P166 - 166Mhz, 2.8v	£95	£111.63
09-31-6200	Intel Pentium MMX P200 - 200Mhz, 2.8v	£155	£182.13
09-31-6233	Intel Pentium MMX P233 - 233Mhz, 2.8v	£225	£264.38
AMD-K6 MMX Enhanced Processors - Socket 7			
09-05-6166	AMD K6 - 166Mhz (MMX), 3.2v	£79	£92.83
09-05-6200	AMD K6 - 200Mhz (MMX), 3.2v	£133	£156.28
09-05-6233	AMD K6 - 233Mhz (MMX), 3.2v	£199	£233.83
Cyrix 6x86 & 6x86MX Processors - Socket 7			
09-17-5126	Cyrix 6x86-120 - P150+, 3.3v	£45	£52.88
09-17-5136	Cyrix 6x86-133 - P166+, 3.3v	£49	£57.58
09-17-6166	Cyrix 6x86MX-166, 200Mhz. Call for details.	£79	£92.83
Pentium Pro - Socket 8			
09-31-3200	Intel Pentium Pro 200Mhz - with 256k cache	£322	£378.35
Pentium II - Slot 1, 3 Yr Warranty (Boxed, with HS & Fan)			
09-31-8233	Intel Pentium II (MMX) 233Mhz - with 512k cache	£279	£327.83
09-31-8266	Intel Pentium II (MMX) 266Mhz - with 512k cache	£369	£433.58
09-31-8300	Intel Pentium II (MMX) 300Mhz - with 512k cache	£529	£621.58
486 - Socket 3			
09-17-4066	Cyrix 486DX2-66 - 66Mhz, 5v	£23	£27.03

We recommend the use of Heat Sink and Fan Units for all CPUs.

Intel & TMC Motherboards

Part No	Model-Description	ex VAT	inc VAT
INTEL ATX Pentium II			
07-31-2081	Intel 'Atlanta' (MMX) Intel 440LX Chipset, Slot 1 P233-P300MHz Pentium II option, 3 x PCI, 1 x ISA, 1 x AGP graphics, 3x 168pin DIMM, max. 384Mb, USB connectors, Ultra IDE, 3Yr Warranty	£129	£151.58
07-31-2061	Intel 'Portland' (MMX) Intel 440FX Chipset, Slot 1 P233-P266MHz Pentium II option, AMI BIOS, 3 x PCI, 2 x ISA, 1 x shared PCI/ISA Bus, 256Mb max.	£125	£146.88

INTEL ATX Pentium/Pentium Pro

07-31-2053	Intel 'Venus', Intel Natoma chipset, Pentium Pro, Socket 8, 150/180/200MHz, 4 x PCI, 2/3 ISA Slots, No Sound.	£115	£135.13
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All above motherboards (unless specified otherwise) are ATX, fitted with USB support, 16Bit Yamaha Sound, Built-in Floppy/EIDE support, 1 Enhanced Parallel & Fast Serial Ports. They require SIMMs in pairs, 4x 72 pin, 128Mb max memory, Windows 95 Plug & Play.

TMC ATX Pentium

07-97-5901	Intel 'TX' Chipset, 4 x ISA Bus, 256Mb max memory, 2x 168pin DIMM, 512Kb BPL cache	£85	£99.88
07-97-5797	Intel 'VX' Chipset, 3 x ISA Bus, 128Mb max memory, 512Kb Burst Pipeline cache, 2x 168pin DIMM sockets	£75	£88.13

TMC Baby AT Pentium

07-97-5925	Intel 'TX' Chipset, 3 x ISA Bus, 2x 168pin DIMMs, 256Mb max memory, 512Kb BPL cache, 2x USB ports	£84	£98.70
07-97-5197	Intel 'VX' Chipset, 3 x ISA Bus, 512Kb Burst Pipeline cache, 1x 168pin DIMM	£67	£78.73

All above motherboards (unless specified otherwise) are fitted with 4 x PCI Bus, AMI/Award BIOS, 4 x 72 pin memory slots, a Pentium Socket 7 ZIF, Built-in Floppy / EIDE support, 2x USB connectors. Enhanced Parallel & Fast Serial Ports. They require pairs of SIMMs (or 1x DIMM where applicable). Windows 95 Plug & Play. TX chipset supports Ultra IDE.

TMC ATX Pentium Pro/Dual Pentium Pro

07-97-5825	Intel 'FX' Chipset, 4x PCI, 4x ISA Bus, Socket 8 for Pentium Pro 150 - 200Mhz CPU, 6x 72 pin Simms 768Mb max memory, 2x USB connectors, modem ring on	£135	£158.63
07-97-5849	Intel 'FX' Chipset, 5x PCI, 3x ISA Bus, Dual Socket 8 for Pentium Pro 150 - 200Mhz CPUs, 8x 72 pin Simms 1Gb max memory, 2x USB connectors	£199	£233.83

All TMC Pentium Pro & Dual PP motherboards are fitted with Intel 82440FX Chipset, AMI/Award BIOS, Built-in Floppy / EIDE support, 1 Enhanced Parallel & Fast Serial Ports.

TMC ATX Pentium II

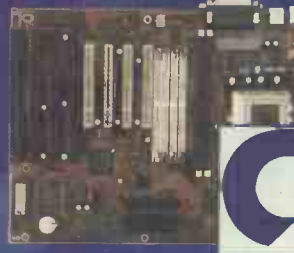
07-97-1060	Intel 'LX' Chipset, (82440LX), 3x PCI, 3x ISA, 1x AGP, slot 1 for pentium II 233-333MHz, 4x DIMM sockets, max. mem 1Gb., supports Advanced Graphics.	£159	£186.83
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All above motherboards (unless specified otherwise) are fitted with AMI/Award BIOS, a Pentium II Slot 1, Built-in Floppy / EIDE / UIDE support, USB Ready, Enhanced Parallel & Fast Serial Ports. They use DIMM memory. Windows 95 Plug & Play, Hardware Monitoring.

Heat Sink and Fan Units

Part No	Model-Description	ex VAT	inc VAT
09-95-4240	486 processor low profile	£7	£8.23
09-95-5090	Pentium P75 through to P233	£9	£10.58
09-95-6000	Pentium Pro 200	£12	£14.10

Heat sink and fan units only available when purchasing CPU. We recommend the use for all CPUs. Ball Bearing units are available for use with CPUs that run at very high temperatures.



Gigabyte Motherboards

Part No	Model-Description	ex VAT	inc VAT
ATX Form Factor			
07-93-5055	GA-586ATX - Intel 'TX' Chipset (82430TX), 3 x ISA, 2x DIMM Sockets, 256Mb max memory, Supports Ultra DMA/33, USB connectors	£88	£103.40
07-93-5051	GA-586UX - Intel 'HX' Chipset (82340HX), USB	£75	£88.13
BABY AT Form Factor (Spin AT keyboard connection)			
07-93-5035	GA-586TX - Intel 'TX' Chipset (82430TX), 3 x ISA, 2x DIMM Sockets, 256Mb max memory, Supports Ultra DMA/33, USB connectors	£85	£99.88
07-93-5031	GA-586HX - Intel 'HX' Chipset (82340HX), 6x 72 pin, USB connectors	£77	£90.48

All Gigabyte motherboards (unless specified otherwise) are fitted with AMI/Award BIOS, a Pentium Socket 7 ZIF, 512Kb Pipeline Burst, 4 x PCI, 4 x ISA, 4x 72pin SIMM Sockets. 512Mb max memory. Built-in floppy & EIDE support, 1 Enhanced Parallel & Fast Serial Ports. They require SIMMs in pairs (or 1x DIMM where applicable). Windows 95 Plug & Play. TX chipset supports Ultra IDE. All have PS/2 Mouse connection.



NEW PRODUCT



ASUSTEK Motherboards

Part No	Model-Description	ex VAT	inc VAT
ASUS ATX Pentium			
07-99-0400	TXP4-X, 4 x PCI, 4 x ISA Bus, no LDCM	£95	£111.63
07-99-0500	TX97-XE, 4x PCI, 4 x ISA Bus, supports LDCM	£109	£128.08
07-99-0510	TX97-XES, as TX97-XE with Creative Labs ViBRA sound	£135	£158.63
ATX Motherboards have a PS/2 style keyboard and mouse connector			
ASUS Baby-AT Pentium			
07-99-0405	TXP4, 4 x PCI, 3 x ISA Bus, no LDCM	£96	£112.80
07-99-0505	TX97-E, 4 x PCI, 3 x ISA Bus, supports LDCM	£105	£123.38
Baby-AT Motherboards have an AT style Spin and serial mouse connector			

All above motherboards (unless specified otherwise) are fitted with an Intel 430TX chipset. 4x 72pin SIMM, 2x 168pin DIMM sockets, Max. memory is 256Mb, 512K Pipeline Burst Cache on-board. Built-in EIDE/UIDE support with UIDE drivers for Windows 95/NT4. Floppy, USB, IrDA, 1 Parallel, 2 Serial as standard (high speed). LDCM Hardware monitoring support (Includes Intel LanDesk CD for live PC monitoring), Full documentation. High quality boards.

ASUS ATX Pentium II

07-99-0700	P2L97, 5x PCI, 2x ISA Bus with 3x 168pin SDRAM	£149	£175.08
07-99-0710	P2L97-S, 5x PCI, 2x ISA Bus, *SCSI, 3x 168pin SDRAM	£229	£269.08
07-99-0715	P2L97-DS, 4x PCI, 2x ISA Bus with 4x 168pin SDRAM, Dual Pentium II support, Max. 512Mb, On board *SCSI	£359	£421.83

All above motherboards (unless specified otherwise) are fitted with an Intel 440LX chipset. SDRAM DIMM sockets, Max. memory is 384Mb, Built-in EIDE/UIDE support with UIDE drivers for Windows 95/NT4. Floppy, USB, 1 Parallel, 2 Serial as standard (high speed). LDCM Hardware monitoring support (Includes Intel LanDesk CD for live PC monitoring), Full documentation. *On board SCSI is an Adaptec AIC 7880 UltraSCSI Controller. AGP support.



SMC
COMPUTERS

First choice for the BEST in

STORAGE & BACK-UP

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SMC : THE BEST FOR BACKUP



SMC : When it counts....

When the power goes down and your system crashes, chances are you lose your data. To a small business that can be a fatal disaster. It doesn't have to be with a tape drive from SMC. Our experience of tape backup and storage can ensure that you minimise the risk. A small investment now could save you more in the long run, so speak to us now, and we can advise on which tape drive would be best for you.



HEWLETT PACKARD

SMC provides a flexible choice of tape drives for networks and individual PC systems.

This is true of the HP range of drives, which makes it a good choice for anyone considering tape back-up. For backup from any system configuration, SMC has a choice of drives and software, or you can choose a complete plug-and-play solution. At the top of the HP range is the industry leading C1553A DAT Autoloader. Based on the fastest DDS-2 DAT drive in the industry today, the C1553a DAT Autoloader uses standard DDS-2 120M cartridge tapes with a native capacity of 4Gb, using compression this increases to typically 8Gb, giving a typical capacity of 48Gb using a six cartridge magazine.



The HP SureStore range differ due to the fact that they are supplied with one media tape, one cleaning tape, basic backup software and a thicker manual. Internal drives have a bracket set whilst External drives are supplied with a cable.

DAT Drives

Part No	Description	Tape	Fixture	ex VAT	inc VAT
42-28-0120	C1534, 2Gb, 11Mb/min,	B1	Internal	£335	£393.63
42-28-0125	C1534-X, 2Gb, 11Mb/min,	B1	External	£445	£522.88
42-28-0130	C1536, 4Gb, 22Mb/min,	B1	Internal	£375	£440.63
42-28-0135	C1536-X, 4Gb, 22Mb/min,	B1	External	£479	£562.83
42-28-0140	C1599A, 4-8Gb, 44Mb/min,	B1, B2	Internal	£499	£586.33
42-28-0145	C1599A-X, 4-8Gb, 44Mb/min,	B1, B2	External	£575	£675.63
42-28-0240	C1554A, 12-24Gb, 44mb/min,	B1, B2, B3	Internal	£689	£809.58
42-28-0480	C1553A AUTOLOADER, 48Gb, 44Mb/min,	B1, B2	Internal	£1329	£1561.58
42-28-0485	C1553A-X Autoloader, 48Gb, 44Mb/min,	B1, B2	External	£1479	£1737.83
42-28-7144	C5648A, 72-144Gb, DDS-3 Autoloader 5 1/4" FH	B1, B2, B3	Internal	£1829	£2149.08

Hewlett Packard Surestore

Surestore DAT8i & DAT8e replace the Surestore 6000 internal & external DAT drives.

42-28-2020	Surestore 2000, 2Gb, 11Mb/min,	B1	Internal	£439	£515.83
42-28-2025	Surestore 2000, 2Gb, 11Mb/min,	B1	External	£515	£605.13
42-28-2050	Surestore 5000, 4Gb, 22Mb/min,	B1	Internal	£474	£556.95
42-28-2055	Surestore 5000, 4Gb, 22Mb/min,	B1	External	£545	£640.38
42-28-4120	Surestore 12000e Autoloader, 48Gb,	B1, B2	External	£1739	£2043.33
42-28-2067	Surestore DAT8i, 4-8Gb, 44Mb/min,	B1, B2	Internal	£595	£699.13
42-28-2069	Surestore DAT8e, 4-8Gb, 44Mb/min,	B1, B2	External	£665	£781.38
42-28-2070	Surestore DAT24i, 12-24Gb, DDS-3,	B1, B2, B3	Internal	£795	£934.13
42-28-2073	Surestore DAT24e, 12-24Gb, DDS-3,	B1, B2, B3	External	£889	£1044.58
42-28-2144	Surestore DAT24X6e AUTOLOADER 72-144Gb, uses 6x DDS-3 tapes	B1, B2, B3	External	£2175	£2555.63
42-28-9503	Surestore Warranty (HP 3 Year on site additional warranty)			£109	£128.08

DAT DRIVES

Part No	Description	Tape	Fixture	ex VAT	inc VAT
Seagate					
42-13-0200	4320, 2Gb, 11Mb/min,	B1	Internal	£345	£405.38
42-13-0400	4324, 4Gb, 22Mb/min,	B1	Internal	£375	£440.63
42-13-0405	4354, 4Gb, 22Mb/min,	B1	External	£465	£546.38
42-13-0800	4326, 8Gb, 44Mb/min,	B1, B2	Internal	£499	£586.33
42-13-0805	4356, 8Gb, 44Mb/min,	B1, B2	External	£575	£675.63

Sony					
42-71-0020	SOT-2000E, 2Gb, 11Mb/min,	B1	Internal	£355	£417.13
42-71-0040	SOT-5200, 5Gb, 22Mb/min,	B1, B2	Internal	£409	£480.58
42-71-0080	SOT-7000 QUAD, 4-8Gb, 44Mb/min,	B1, B2	Internal	£495	£581.63
42-71-0090	SOT-5000, 4.8Gb, 22Mb/min,	B1, B2	Internal	£459	£539.33
42-71-0120	SOT-9000 12-24Gb, 22Mb/min,	B1, B2, B3	Internal	£685	£804.88
42-71-0320	TSL-7000 Autoloader, 64Gb, 22Mb/min,	B1, B2	Internal	£1349	£1585.08
42-71-0325	TSL-7000 Autoloader, 64Gb, 22Mb/min,	B1, B2	External	£1399	£1643.83

Wangdat					
42-84-1000	3100, 2Gb, 11Mb/min,	B1	Internal	£345	£405.38
42-84-1005	3100, 2Gb, 11Mb/min,	B1	External	£445	£522.88
42-84-2000	3200, 4Gb, 22Mb/min,	B1	Internal	£399	£468.83
42-84-2005	3200, 4Gb, 22Mb/min,	B1	External	£499	£586.33
42-84-4000	3400DX, 8Gb, 44Mb/min,	B1, B2	Internal	£495	£581.63
42-84-4005	3400DX, 8Gb, 44Mb/min,	B1, B2	External	£595	£699.13
42-84-9000	TS3900i, 12-24Gb, DDS-3,	B1, B2, B3	Internal	£695	£816.63
42-84-9005	TS3900e, 12-24Gb, DDS-3,	B1, B2, B3	External	£755	£887.13

Tape Drives

Part No	Description	Tape	Fixture	ex VAT	inc VAT
Colorado/HP					
48-10-0800	TRAVAN T1000, 400-800Mb, 9.5Mb/min,	A1, C1, C2	Internal	£76	£89.30
48-10-2000	TRAVAN T3000, 1.6-3.2Gb, 9.5Mb/min,	A3	Internal	£109	£128.08
48-10-8005	TRAVAN T4000S, 4-8Gb, 62Mb/min	A4	Internal	£225	£264.38

Wangtek					
48-84-0525	5525ES, 525Mb wide tape, 12Mb/min,	D2, D3	Internal	£282	£331.35
48-84-1000	51000ES, 1Gb, 17Mb/min,	D2, D3, D4	Internal	£279	£327.83

Ditto					
46-35-2000	Ditto 2000 Insider, 2.0Gb, 19Mb/min,	E1	Internal	£59	£69.33
46-35-2009	Ditto 2000, P/Port, 2.0Gb, 19Mb/min,	E1	External	£89	£104.58
46-35-2003	Ditto 2000 Bundle, Parallel Port, 2.0Gb, Corry Case, 3x Ditto tapes, 19Mb/min,	E1	External	£125	£146.88
26-35-0030	Ditto Dosh, Controller Recommended for highest throughput with Internal Ditto drives.	ISA		£25	£29.38

Seagate					
48-13-0800	TST 800R TRAVAN 800Mb, 9.5Mb/min,	A1, C1, C2	Internal	£75	£88.13
48-13-3200	TSM 3200R, 3.2Gb, 19Mb/min,	A3	Internal	£108	£126.90
48-13-8000	TST 8000R-A EIDE, 4.0Gb, 54Mb/min,	C7	Internal	£208	£244.40
48-13-8005	TST 8000R-S SCSI, 4.0Gb, 54Mb/min,	C7	Internal	£212	£249.10
48-13-8015	TST 8000ES-S SCSI, 4.0Gb, 54Mb/min,	C7	External	£265	£311.38
48-13-0809	TST 800EP TRAVAN800Mb, 9.5Mb/min,	A1, C1, C2	External	£98	£115.15

Parallel Port Tape Drives

Part No	Description	Tape	Fixture	ex VAT	inc VAT
COLORADO					
46-10-0800	T1000E Trovan, 800Mb, 8Mb/min	A1, C1, C2	External	£97	£113.98
46-42-8000	BACKPACK 8000T 4-8Gb, 8Mb/min,	A4	External	£POA	£POA

PRODUCT INFORMATION

Why do I need to backup?

Making sure that your data is safe, to most people, only ever becomes important when the data isn't there anymore. Imagine how many hours it would take to re-install software, set up your applications as you had them before and then re-type all your work!

At SMC, we can offer easy-to-use Parallel Port devices which simply plug on to your printer port and can support from 400Mb through to 8Gb - right through to a massive 144Gb for complex systems requiring a storage media for huge amounts of data (144Gb is roughly equivalent to 225 CD's each full of 650Mb of data!).



BACK-UP Software

Part No	Make & Model	ex VAT	inc VAT
Cheyenne			
01-90-4001	ArcSolo, DOS, Single user, Workstation based, Network aware, Will backup any workstation or network	£66	£77.55
01-90-5001	ArcSolo, Windows 3.x, Single user, Workstation based, Supports Windows for Workgroups, Personal Network & LanTastic workgroups and even Server volumes	£95	£111.63
01-90-6001	ArcSolo, Windows 95, Single user, Multi-Threaded operation, Backup Recovery disk - complete restore from one Floppy	£89	£104.58

Arcserve 6 for Netware, Server based, supports DOS, OS/2, Windows 3.x and Windows 95 workstations (optional support packs for UNIX, Macintosh and Windows NT Servers and Workstations), better support for NetWare 4.1 than previous versions, with an improved Windows'95 style user interface.

01-90-6011	Single Workgroup Edition	£320	£376.00
01-90-6015	Enterprise Edition (Supports Multiple Servers)	£789	£927.08

Arcserve 6 for Windows NT. Supports Windows NT, Windows'95 and Windows 3.x. Clients (optional agents available for NetWare, UNIX, OS/2 and Macintosh). Windows NT 4.0 compatible, with a built in Virus Scanner.

01-90-6033	Workstation Edition (W95 Client Not Supported)	£125	£146.88
01-90-6031	Single Server Edition	£330	£387.75
01-90-6035	Enterprise Edition (Supports Multiple Servers).	£559	£656.83

Arcserve for Netware Windows Editions are Server based, will allow automated backup of all connected file servers and workstations running DOS, OS/2 and Windows 3.x. Optional support packs are available for UNIX and Macintosh.

01-90-5005	ArcServe, Netware-Windows, 5 User/server	£159	£186.83
01-90-5010	ArcServe, Netware-Windows, 10 User/server	£349	£410.08
01-90-5025	ArcServe, Netware-Windows, 25 User/server	£588	£690.90
01-90-5050	ArcServe, Netware-Windows, 50 User/server	£739	£868.33

Note: We can also supply Arc Serve for DOS-based NetWare systems plus 100, 250 and 500 user NetWare networks. Versions for many other operating systems including UNIX & SUN are also available. Please call for more details and prices.

Seagate Software

01-13-0351	Windows 95 for single user, complete data protection for your workstation, includes Job scheduling, Network aware, will backup any workstation or network	£74	£86.95
01-13-0500	Windows NT 4.0 Workstation Edition, hassle free install, Includes Job scheduling, protects even Netware data, offers true 32-bit backup to a host of devices	£135	£158.63

**CHECK OUT TAPE
TYPE AND LISTINGS
ON PAGE 28**

**ditto 2Gb
External
Bundle**



SMC: THE BEST FOR HARD DRIVES

**CHECK OUT
CABLES & BOXES
ON PAGE 29**

When you buy a Hard Drive from SMC you get something no other company offers - a free 24 page, easy to follow Installation Guide containing everything you need to ensure a trouble free set up. It covers:

- Getting started & Basic Troubleshooting
- IDE/EIDE Hard Drive Installation
- CMOS configuration
- Installing with & without a translating BIOS
- SCSI Hard Drive installation & configuration
- Creating a bootable floppy disk
- Windows NT & Windows'95

FREE
WHEN YOU BUY
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**HARD DRIVE
INSTALLATION
GUIDE**

Thank you for purchasing your new hard drive from SMC Computers. As part of our commitment to total customer service, we have produced this guide to total you a smooth and trouble-free installation, which will give you the most important information to assist you in installing your hard drive and PC system and DOS manuals to hand for reference. The guide covers IDE / EIDE and SCSI drives.

SMC : The UK's Premier Hard Drive Supplier...

Why the difference?

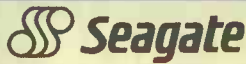
SMC Computers has always offered the largest range of the latest drives on the market: top brand names with the highest quality and keenest pricing and our expertise in offering and supporting the best in the market is second to none. All our drives come with a full installation guide and mounting screws, and are backed by both our '7day' and '30day' guarantees in addition to the manufacturers warranty.

IDE/EIDE Controllers

Part No	Make & Model	ex VAT	inc VAT
IDE			
24-95-1300	IDESPC, ISA, 2HDD/2FDD, Standard I/O Port	£13	£15.28
24-97-0300	ADP60, ISA, 2HDD, LBA Support	£29	£34.08
24-97-0355	ADP60F, ISA, 2HDD/2FDD, LBA Support	£35	£41.13
EIDE			
24-97-1360	EIDEMAX, ISA, 2HDD, ATAPI/CD-ROM, LBA.	£25	£29.38
24-97-1365	EIDEPRO, ISA, 4HDD/2FDD, ATAPI/CD-ROM, LBA	£39	£45.83
24-91-2300	DC2300 + VESA, 4HDD/2FDD, ATAPI/CD-ROM, LBA	£35	£41.13
24-91-4035	DC4030 + Cache, 4x HDD, 1x ATAPI/CD-ROM, LBA	£85	£99.88

EIDE/CDROM - UIDE Controllers

Part No	Make & Model	ex VAT	inc VAT
EIDE/CD ROM			
24-91-5175	16030/CD 32, ISA, 4HDD, 1x ATAPI/CD-ROM, LBA	£27	£31.73
FloppyMax			
24-97-0120	FloppyMax, ISA Add-on for LS-120 (120Mb A:Drive)	£25	£29.38
ULTRA DMA33 (UIDE)			
24-97-0033	Promise Pro ATA Ultra33, PCI add-on controller supporting Quantum ST and UIDE drives. Co-exists with existing IDE/EIDE - ATAPI devices	£44	£51.708



TOSHIBA



SAMSUNG



FUJITSU



EIDE Hard Drives

Part No	Size	Make	Model	Cache	Access	ex VAT	inc VAT
1.0Gb - 1.7Gb							
30-64-1010	1.0Gb	Quantum	QM31080AT	64k	12ms	£85	£99.88
30-64-1288	1.2Gb	Quantum	BF1280AT 5 1/4"	128k	15.5ms	£59	£69.33
30-95-1201	1.2Gb	Samsung	WNR312016A	128k	11ms	£95	£111.63
30-70-1201	1.2Gb	Seagate	ST31276A	64k	12.5ms	£79	£92.83
30-86-1206	1.2Gb	Western D	AC11200A	128k	10ms	£99	£116.33
30-95-1601	1.6Gb	Samsung	WNR31601A	128k	11ms	£99	£116.33
30-86-1602	1.6Gb	Western D	AC21600A	128k	12ms	£99	£116.33
30-24-3017	1.7Gb	Fujitsu	MPA3017AT	128k	11ms	£95	£111.63
2.0Gb - 6.4Gb							
30-30-2002	2.0Gb	IBM	73H7751	128k	9.5ms	£117	£137.48
30-70-2132	2.0Gb	Seagate	ST32132A	128k	12ms	£105	£123.38
30-64-2110	2.1Gb	Quantum	TM2110AT	128k	10.5ms	£123	£144.53
30-95-2152	2.1Gb	Samsung	WNR321520A	128k	11ms	£109	£128.08
30-86-2005	2.1Gb	Western D	AC22100A	128k	12ms	£112	£131.60
30-64-2550	2.5Gb	Quantum	TM2550AT	128k	10.5ms	£115	£135.13
30-24-3026	2.5Gb	Fujitsu	MPA3026AT	128k	11ms	£112	£131.60
30-95-2543	2.5Gb	Samsung	WNR325430A	128k	11ms	£125	£146.88
30-70-2503	2.5Gb	Seagate	ST32531A	128k	12ms	£109	£128.08
30-70-2507	2.5Gb	Seagate	ST52520A	128k	11ms	£144	£169.20
30-86-2502	2.5Gb	Western D	AC22500A	256k	11ms	£122	£143.35
30-30-3002	3.0Gb	IBM	73H7753	128k	9.5ms	£129	£151.58
30-86-3100	3.1Gb	Western D	AC33100A	128k	12ms	£132	£155.10
30-24-3035	3.5Gb	Fujitsu	MPA3035AT	128k	11ms	£128	£150.40
30-64-3840	3.8Gb	Quantum	TM3840AT	128k	10.5ms	£169	£198.58
30-86-4000	4.0Gb	Western D	AC34000A	128k	12ms	£159	£186.83
30-70-4304	4.3Gb	Seagate	ST34340A	128k	12ms	£159	£186.83
30-39-5160	5.1Gb	Maxtor	85120A	256k	10ms	£179	£210.33
30-24-3052	5.2Gb	Fujitsu	MPA3052AT	128k	11ms	£175	£205.63
30-70-6401	6.4Gb	Seagate	ST36450A	512k	9.9ms	£209	£245.58

All the hard drives come with a 3 year warranty unless otherwise stated & are 3.5". Please see Ultra IDE Hard Drives section for further options. UIDE compatible with IDE/EIDE.

ULTRA IDE Hard Drives

Part No	Size	Make	Model	Cache	Access	ex VAT	inc VAT
1.6Gb - 6.4Gb							
30-64-0163	1.6Gb	Quantum	ST1620AT	128k	<10ms	£95	£111.63
30-86-2009	2.0Gb	Western D	AC22000AU	128k	11ms	£115	£135.13
30-64-0213	2.1Gb	Quantum	ST2160AT	128k	<10ms	£115	£135.13
30-64-0323	3.2Gb	Quantum	ST3240AT	128k	<10ms	£125	£146.88
30-86-4009	4.0Gb	Western D	AC34000AU	128k	<12ms	£165	£193.88
30-86-4300	4.3Gb	Western D	AC34300AU	256k	<11ms	£169	£198.58
30-64-4320	4.3Gb	Quantum	ST4320AT	128k	<10ms	£159	£186.83
30-86-5100	5.1Gb	Western D	AC35100AU	256k	<11ms	£219	£257.33
30-64-6480	6.4Gb	Quantum	ST6480AT	128k	<10ms	£222	£260.85
30-86-6400	6.4Gb	Western D	AC36400AU	256k	<9.5ms	£245	£287.88

All the hard drives come with a 3 year warranty unless otherwise stated and are 3.5". They can all work as standard IDE/EIDE or as Ultra IDE, DMA-33 drives (max. transfer 33Mbs). We recommend the Promise PCI Ultra33 controller for optimized transfer rates.

WARNING: At present various manufacturers are in the process of moving to UIDE. Certain companies will still have drives with standard IDE/EIDE performance. To ensure that the drive you order is IDE/EIDE and UIDE compatible SMC lists these drives separately.

EIDE 2.5" Hard Drives

Part No	Size	Make	Model	Cache	Access	ex VAT	inc VAT
1.4Gb - 3.1Gb							
30-75-1403	1.4Gb	Toshiba	MK1403MAV	128k	13ms	£115	£135.13
30-75-2103	2.1Gb	Toshiba	MK2103MAV	128k	13ms	£149	£175.08
30-75-3003	3.1Gb	Toshiba	MK3003MAN*	128k	13ms	£229	£269.08

These drives have a 44-pin connector. Please check your system for compatibility especially with 19mm* drives for height clearance. These Hard Drives come with a 2 year warranty.

Parallel Port Drive Box

Part No	Make & Model	ex VAT	inc VAT
73-97-1183	Parallel Port Box for IDE/EIDE drives (inc. software)	£69	£81.08

Ideal solution for turning a standard Hard drive into a portable solution. Easy to install and includes software to work with any size drive.

Utility Software

Part No	Make & Model	ex VAT	inc VAT
01-93-8642	Ontrack Disk Manager - purchased with a hard drive	£15	£17.63
01-93-8644	Ontrack Disk Manager full retail version	£35	£41.13
01-93-8402	Ontrack Drive Rocket - purchased with a hard drive	£12	£14.10
01-93-8404	Ontrack Drive Rocket full retail version	£17	£19.98

INSIDE INFORMATION

Did you know - SMC Computers originally specialised in data storage (that's hard disks and tape drives) and has grown from what was a very technical and specialised area into the one-stop PC source it is today.

In expanding our product range, we have retained our expertise: we don't feel anyone can come close to our excellence in supplying the right product for customers needs.

We have also steadily expanded our operations to cater for serious home users, businesses both large and small, government departments, universities, hospitals and the Ministry of Defence.

Take advantage of our expertise and experience to ensure that the products you buy are the best for your needs.

Performance with DRIVE..



REMOVABLE STORAGE

SMC
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SMC : THE BEST FOR STORAGE SOLUTIONS

"Unlimited Hard Drive Space....."



NEW LOW PRICE
PARALLEL PORT
ZIP DRIVES



CONTROLLERS & ACCESSORIES

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With applications that use large amounts of data, it is often advantageous to use removable media, where a single drive can be used to run a library of disks, each containing data for a specific task or application. Removable media solutions also provide a very fast and flexible method of backing up and archiving data.



IOMEGA Removable Drives

Part No	Make & Model	ex VAT	inc VAT
IOMEGA ZIP DRIVES			
35-35-0105	100Mb, SCSI (External) Interface, 1.24Mb per second	£94	£110.45
35-35-0100	100Mb, SCSI (Insider) Inc. Controller, 1.24Mb per sec	£95	£111.63
37-35-0100	100Mb, Parallel port, 1.25Mb per second	£89	£104.58
IOMEGA JAZ DRIVES			
35-35-1000	1.0Gb, SCSI (Internal) Interface, 10Mb per second	£179	£210.33
35-35-1005	1.0Gb, SCSI (External) Interface, 10Mb per second	£233	£273.78
IOMEGA ZIP CARTRIDGES			
95-35-0101	100Mb, Single	£10	£11.75
95-35-0103	100Mb, 6 Pack	£54	£63.45
95-35-0110	100Mb, 10 Pack (multi coloured disks)	£85	£99.88
IOMEGA JAZ CARTRIDGES			
95-35-1001	1.0Gb, Single	£58	£68.15
95-35-1003	1.0Gb, 5 Pack	£275	£323.13

IOMEGA Accessories

Part No	Description	ex VAT	inc VAT
ZIP Accessories			
70-35-0003	Zip Drive Carry Case	£29	£34.08
70-35-0284	Zip Drive PCMCIA to SCSI card	£69	£81.07
JAZ Accessories			
70-35-0003	Jaz Drive Carry Case	£29	£34.08
26-35-0450	Jaz Drive PCMCIA to SCSI card	£89	£104.58
26-35-0347	Jaz Drive ISA 16-bit SCSI interface card	£65	£76.38
26-35-0346	Jaz Drive PCI Bus-mastering SCSI interface card	£69	£81.08
75-35-0231	Jaz Drive Parallel to SCSI convertor	£35	£41.13

Be your own DJ

Record your favorite CDs

Recordit software included free of charge with every 10 pack of multi coloured Zip media:-
Port No: 95-35-0110.



Ultra SCSI Hard Drives

Part No	Size	Make	Model	Cache	Access	RPM	ex VAT	inc VAT
1.0Gb								
35-70-1007	1.0	Seagate	ST31051N Hawk*	256k	9	5411	£202	£237.35
2.1Gb - 6.4Gb								
35-30-2103	2.1	IBM	46H6124	512k	8.5	5400	£159	£186.83
35-64-2110	2.1	Quantum	TM2110S	128k	10.5	4500	£179	£210.33
35-64-2105	2.1	Quantum	ST2160S Fireball ST	128k	<10	5400	£145	£170.38
35-70-2175	2.1	Seagate A/V	ST32171N Barracuda	512k	8.8	7200	£275	£323.13
35-70-2151	2.1	Seagate	ST32155N Hawk	256k	9	5411	£199	£233.83
35-70-2160	2.1	Seagate	ST52160N Medalist Pro	128k	11	5400	£139	£163.33
35-86-2173	2.1	Western D	E2170-0003 Enterprise	512k	8	7200	£275	£323.13
35-24-2200	2.2	Fujitsu	M2952S AL3	512k	8	7200	£295	£346.63
35-64-3200	3.2	Quantum	TM3200S Fireball	128k	10.5	4500	£192	£225.60
35-24-4400	4.3	Fujitsu A/V	M2954S AL3	512k	10	7200	£389	£457.08
35-30-4303	4.3	IBM	46H6127 Ultrastar 2ES	512k	8.5	5400	£229	£269.08
35-64-4305	4.3	Quantum	ST4320S Fireball ST	128k	<10	5400	£205	£240.88
35-70-4375	4.3	Seagate A/V	ST34371N Barracuda	512k	8.8	7200	£449	£527.58
35-86-4363	4.3	Western D	E4360-0003 Enterprise	512k	8	7200	£395	£464.13
35-30-4527	4.5	IBM	27H1713 Ultrastar 2XP	512k	7.5	7200	£405	£475.88
35-46-4550	4.5	Micropolis	MIC4345 Tomahawk	512k	7.9	7200	£365	£428.88
35-64-4500	4.5	Quantum A/V	XP34550S Atlas II	512k	8	7200	£389	£457.08
35-70-4505	4.5	Seagate A/V	ST34501N Cheetah	512k	7.5	10033	£449	£527.58
35-64-6405	6.4	Quantum	ST6480S Fireball ST	128k	<10	5400	£279	£327.83

9.0Gb - 9.1Gb

35-30-9035	9.0	IBM	93G3007 Ultrastar 2XP*	512k	7.5	7200	£985	£1157.38
35-24-9100	9.1	Fujitsu A/V	M2949S AL3*	512k	9.5	7200	£625	£734.38
35-30-9114	9.1	IBM A/V	27H1714 Ultrastar 2XP	512k	7.5	7200	£635	£746.13
35-46-9100	9.1	Micropolis	MIC3391 Tomahawk	512k	7.9	7200	£609	£715.58
35-64-9100	9.1	Quantum A/V	XP39100S Atlas II	1024k	8	7200	£599	£703.83
35-70-9175	9.1	Seagate A/V	ST19171N Barracuda	512k	8	7200	£659	£774.33
35-70-9000	9.1	Seagate A/V	ST410800N Elite*	1024k	11	5400	£1149	£1350.08
35-70-9105	9.1	Seagate A/V	ST19101N Cheetah	512k	8	10033	£759	£891.83

23Gb

35-70-0230	23	Seagate	5 1/4" ST423451N Elite	2048k	13	5400	£1199	£1408.83
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All above drives are Ultra SCSI (20Mbs) compatible. Drives marked with an * are Fast-SCSI2 (10Mbs) only.

Ultra Wide SCSI Hard Drives

Part No	Size	Make	Model	Cache	Access	RPM	ex VAT	inc VAT
2.1Gb - 4.5Gb								
35-30-2107	2.1	IBM	46H6125 Ultrastar 2ES	512k	8.5	5400	£169	£198.58
35-70-2177	2.1	Seagate A/V	ST32171W Barracuda	512k	9.4	7200	£335	£393.63
35-70-2153	2.1	Seagate	ST32155W Hawk	512k	9	5411	£239	£280.83
35-86-2177	2.1	Western D	E2170-0007 Enterprise	512k	8	7200	£279	£327.83
35-24-2203	2.2	Fujitsu	M2952QA AL3	512k	8	7200	£309	£363.08
35-24-4403	4.3	Fujitsu A/V	M2954QA AL3	512k	10	7200	£429	£504.08
35-30-4307	4.3	IBM	46H6128 Ultrastar 2ES	512k	8.5	5400	£235	£276.13
35-46-4557	4.3	Micropolis	MIC4345W Tomahawk	512k	7.9	7200	£375	£440.63
35-70-4377	4.3	Seagate A/V	ST34371W Barracuda	512k	9	7200	£499	£586.33
35-86-4367	4.3	Western D	E4360-0007 Enterprise	512k	8	7200	£419	£492.33
35-30-4537	4.5	IBM A/V	27H1772 Ultrastar 2XP	512k	7.5	7200	£405	£475.88
35-30-4500	4.5	IBM A/V	93G2961 Ultrastar 2XP*	512k	7.5	7200	£389	£457.08
35-64-4507	4.5	Quantum A/V	XP34550W Atlas II	512k	8	7200	£395	£464.13
35-70-4507	4.5	Seagate A/V	ST34501W Cheetah	512k	7.5	10033	£479	£562.83

9.1Gb

35-30-9037	9.1	IBM A/V	93G2962 Ultrastar 2XP*	512k	7.5	7200	£999	£1173.83
35-30-9171	9.1	IBM A/V	27H1771 Ultrastar 2XP	512k	7.5	7200	£669	£786.08
35-70-9177	9.1	Seagate A/V	ST19171W Barracuda	512k	8	7200	£679	£797.83
35-24-9103	9.1	Fujitsu A/V	M2949QA AL3	512k	9.5	7200	£659	£774.33
35-46-9107	9.1	Micropolis	MIC3391W Tomahawk	512k	7.9	7200	£619	£727.33
35-70-9107	9.1	Seagate A/V	ST19101W Cheetah	512k	8	10033	£789	£927.08
35-64-9107	9.1	Quantum A/V	XP39100W Atlas II	1024k	8	7200	£622	£730.85

23Gb

35-70-0231	23	Seagate	5 1/4" ST423451W Elite	2048k	13	5400	£1289	£1514.58
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All above drives are Ultra-Wide SCSI (40Mbs). Drives marked with an * are Fast-Wide SCSI2 (20Mbs) only.

SCSI Controller Cards

Part No	Model	Interface	Ext.Con	Max. Devices	Boot Bios	ex VAT	inc VAT
Adaptec Kits (includes software and internal cable)							
ISA Bus							
26-03-1542	AHA1542CP	FastSCSI2	Micro-D	7&FDD	Y	£152	£178.60
VESA Bus							
26-03-2825	AHA2825VL	FastSCSI2	Micro-D7(+2 EIDE)&FDD		Y	£85	£99.88
EISA Bus							
26-03-2742	AHA2742AT	FastSCSI2	Micro-D	14&FDD	Y	£222	£260.85
26-03-2747	AHA2742W	WideSCSI2	Micro-D wide	15&FDD	Y	£245	£287.88
PCI Bus							
26-03-2910	AHA2910B	FastSCSI2	Micro-D	7		£65	£76.38
26-03-2920	AHA2920	FastSCSI2	Micro-D	7		£88	£103.40
26-03-2941	AHA2940UA	UltraSCSI	Micro-D	7	Y	£151	£177.43
26-03-2947	AHA2940UW	UltraWide	Micro-D wide	15	Y	£175	£205.63
26-03-3940	AHA3940U	UltraSCSI	Micro-D	14	Y	£249	£292.58
26-03-3947	AHA3940UW	UltraWide	Micro-D wide	30	Y	£285	£334.88
PCMCIA (PC Card)							
26-03-1460	APA1460A-2	FastSCSI2	PCMCIA, SCSI I&2 cables, 7			£98	£115.15
MCA							
26-03-1640	AHA1640	FastSCSI2	Micro-D on MCA bus	7	Y	£199	£233.83
RAID 5, 1, 0, 0/1 (PCI Bus)							
26-03-3985	AHA3985	FastSCSI2	Micro-D, RAID	21		£399	£468.83
26-03-3987	AHA3985W	WideSCSI2	WideSCSI, RAID	45		£485	£569.88
Part No	Model	Interface	Ext.Con	Max. Devices	Boot Bios	ex VAT	inc VAT
Adaptec Bare Cards (do not include software or cables)							
ISA Bus							
26-03-1520	AHA1520B	FastSCSI2	Micro-D	7		£55	£64.63
26-03-1549	AHA1542	FastSCSI2	Micro-D	7&FDD	Y	£115	£135.13
PCI Bus							
26-03-2943	AHA2940UA	UltraSCSI	Micro-D	7	Y	£119	£139.83
26-03-2949	AHA2940UW	UltraWide	Micro-D wide	15	Y	£156	£183.30

Desktop RAID Solution

Part No	Make & Model	ex VAT	inc VAT
00-00-0000	EziRAID, 8.6Gb usable complete PCI RAID solution, UltraWide SCSI performance (max. capacity 21Gb).	£3999	£4698.83

INSIDE INFORMATION

Did you know - SMC salespeople are the best trained in the business because their training is different to that you'd encounter elsewhere. We include modules on Customer Care, we reinforce the highest standards of quality and ethics in work practices, and we provide continual updates on technical and product training.

We believe we are the best because we reinforce our commitment to our customers with training, evaluation and constant review.

When you use SMC, your loyalty to us will be achieved by our dedication to you.

**CHECK
OUT...MEDIA,
CABLES & BOXES
ON PAGE 28/29**



FOR THE BEST IN MULTIMEDIA



"Setting new standards"

**AWE64
SOUNDCARDS
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£45.00***

**First choice for
the BEST in :**

MULTIMEDIA

Sound Cards 20-21
Multimedia Kits 20-21

Speakers 21

CD-ROM Drives 23
CD-Writers 22-23
DVD Drives 23

3D Graphics 24-25
Video cards 25
Diamond 24
Matrox 25

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iiYAMA 34

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The Sound Blaster AWE64 Value breaks the 32 voice barrier to give you incredible audio realism. It's the most compatible sound card you can buy, running with more applications than any other soundcard but at an incredible price.

Enjoy the smoothest, most realistic audio experience with 64 voices of Advanced WavEffects. Listen to expressive, true to life instrument reproductions as well as stunning sound effects. Thrill to ultra realistic sound for your games and multimedia. Immerse yourself in 3D Positional Audio. Treat your ears to the astounding sound quality of SoundFont technology, playing back customised samples from your applications. Surf the sounds of the Internet with Inspire, Creative's own multimedia wizard.

The Sound Blaster AWE64 Value lives up to its name for great value and great performance.



Creative AWE64 Sound Cards

Part No	Make & Model	ex VAT	inc VAT
53-15-6425	AWE64 Value Plug'n'Play	£57	£66.98
53-15-6445	AWE64 GOLD Plug'n'Play	£107	£125.73

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1st for
upgrades**

**"Upgrade to higher
sound - NOW!"**

*From now until the 31st of January 1998 you can claim a rebate of £23.00 against a new AWE64 Gold card or £12.00 against an AWE64 Value card.

All you need to do is to fill out the application form you receive with your NEW AWE 64 card and return it with your old Soundcard - this applies to ALL old soundcards - not just Creative Labs cards.

Look-out for details on the Special promotion packs.

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1st for
accessories**

SMC : when you want to be heard....

At SMC we believe in listening to our customers.
We listen when you tell us the products you need, and the service you want.
But it doesn't end there - we act on it, so you'll find we offer the products and the service you expect.
At SMC we always have time to listen.

CREATIVE
CREATIVE LABS

GRAVIS

DIAMOND
MULTIMEDIA



SMC
COMPUTERS

Creative Sound Cards

Part No	Make & Model	ex VAT	inc VAT
SB16			
53-15-1637	SB16 Value Plug 'n' Play - 16bit FM Stereo, Offers CD quality audio, MIDI/Joystick interface, Windows 3.1x - Win'95 Audio and Internet tools.	£43	£50.53
AWE64			
53-15-6425	AWE64 Value Plug 'n' Play - 64 Voice Wavetable, Creative WaveSynth, Wave Guide, 16bit FM Stereo, 512Kb RAM (max 24Mb), Windows 3.1x/95 software.	£57	£66.98
53-15-6445	AWE64 Gold Plug 'n' Play - 64 Voice Wavetable, 4Mb RAM (max 28Mb), Gold RCA connectors for clearer audio, supplied with audio sequencing software. Offers real-time music editing and 8 track digital recording.	£107	£125.73

ALL Creative SoundBlaster cards are full boxed product, designed to take advantage of Intel Pentium technology & EIDE/ATAPI CD-ROM motherboard support, and use 16-bit ISA.

Upgrades & Accessories

19-15-6404	4Mb Memory Module for SB64 Series	£35	£41.13
19-15-6408	8Mb Memory Module for SB64 Series	£55	£64.63
Allows you to download more sound fonts onto your card. Also includes SoundFont Gold CD.			
82-15-0213	Action Blaster - Games Accessories kit - including SBS38 Speakers, Joystick, 3x CD games titles - Slipstream, Virtual Pool, FIFA Soccer (titles may change)	£29	£34.08



Creative Multimedia Kits

Part No	Make & Model	ex VAT	inc VAT
59-15-2464	SBAWE64 DISCOVERY Complete kit contains: the SoundBlaster AWE64 Value Sound Card, Blaster CD24x (the latest CD-ROM drive from Creative Labs) and powered STEREO Speakers. Software: Windows / Win'95 drivers and Actua Soccer	£119	£139.83

INSIDE INFORMATION

Did you know - SMC Computers was formed in 1991 after the present directors had had unsatisfactory dealings with computer companies of the time. It was felt that there was a lack of ability, or proper care, or both, in the market and that a space existed for a capable and properly committed company. We are happy to say that while SMC has grown into one of the UK's leading PC and upgrade companies, all of the companies that served us so badly have either gone out of business or have been taken over.

Gravis Sound Cards

Part No	Make & Model	ex VAT	inc VAT
53-91-0501	Ultrasound Plug 'n' Play - Full Duplex, 32 Voice wavetable, 16bit Stereo, IDE CD-ROM interface, Upgradable to 8Mb of RAM. Dos/Windows/Win'95 software, Over 200Mb of games and demos	£75	£88.13
53-91-0503	Ultrasound Plug 'n' Play Pro - As above + 512Kb on Board	£105	£123.38
57-91-2403	Gravis MIDI Adaptor - Supports MIDI in, out and through. 2x Joystick connectors supplied with 6' MIDI cable	£39	£45.83
82-91-2400	Gravis PC Pro Joystick - 5x Fire buttons, Analogue, Adjustable handle settings, Free software	£24	£28.20
82-91-2501	Gravis PC Gamepad Pro - Digital 10x Button gamepad	£33	£38.78

Diamond 3D Sound Cards

Part No	Make & Model	ex VAT	inc VAT
53-19-2030	Diamond Monster 3D Sound, Supports Microsoft Direct Sound for Window '95. Audio playback support for quad speakers - Multi-stream audio, PCI slot required.	£99	£116.33

Speakers

Part No	Make & Model	ex VAT	inc VAT
57-93-3101	Lobtec LCS-950 - 7 watt	£33	£38.78
57-93-3105	Lobtec LCS-1024 - 10 watt	£38	£44.65
57-93-7133	Yamaha M15 - 10 watt	£38	£44.65
57-93-7135	Yamaha SS510 Sub Woofer	£63	£74.03

Internet & Communications

Part No	Make & Model	ex VAT	inc VAT
64-15-0167	WebCam - Full colour internet Video solution Capable of 16.7million colour live video capture Supports AVI, e-mail, requires Windows'95. Connection via Parallel port, with any modem.	£89	£104.58
64-15-0167x2	WebCam 2x Pack - Special price offer	£250	£293.75

Video Blaster WebCam

LIVE VIDEO OVER THE INTERNET...

Video Blaster WebCam gives you everything you need to capture, create and communicate with live full colour video on the internet. It's an affordable and easy-to-use upgrade kit which will get you up and running with live video from your own PC in minutes

No installation is required-it just plugs in like a printer.



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COMPUTERS

DIAMOND
MULTIMEDIA

Diamond Graphics Cards

Part No	Make & Model	ex VAT	inc VAT
Diamond FireGL Series - Premium performance 2D/3D professional graphics			
1000 Series - Based on 3DLabs Permedia 2 graphics chip and rendering engine. Excellent for Windows 95, outstanding Windows NT OpenGL acceleration.			
64-19-1008	Diamond FireGL 1000Pro PCI - 8Mb SGRAM	£199	£233.83
64-19-1108	Diamond FireGL 1000Pro - 8Mb SGRAM for AGP slot	£POA	£POA
Diamond Viper Series - True 128bit Power for incredible 2D, 3D & Video.			
Blistering Windows 95 and Windows NT performance. Hardware accelerated OpenGL, multiple monitor support with multiple cards. NVIDIA RIVA chipset. 1600x1200 by 64k, 1152x864 by 16.7m colours at 85Hz, 230MHz RAMDAC, 100MHz SGRAM.			
64-19-2004	Diamond Viper V330 PCI - 4Mb SGRAM	£129	£151.58
64-19-2104	Diamond Viper V330 PCI - 4Mb SGRAM with TV Output	£149	£175.08
64-19-2704	Diamond Viper V330 - 4Mb SGRAM for AGP slot	£135	£168.75

Diamond Graphics Cards

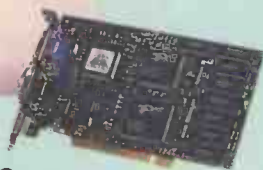
Part No	Make & Model	ex VAT	inc VAT
Diamond Stealth3D 2000 - Fast 2D Graphics - Plus 3D!			
64bit graphics processor with an S3 ViRGE chipset. 2Mb card gives 1280x1024 by 256 colours at 75Hz, 800x600 by 16.7m colours at 85Hz & 1024x768 by 64k at 100Hz. 4Mb card gives 1280x1024 by 64k colours at 60Hz, 1024x768 by 16.7m colours at 85Hz & 1280x1024 by 256 at 75Hz. Supports software MPEG.			
64-19-1422	Diamond Stealth3D 2000 2240 - 2Mb EDO-DRAM	£45	£52.88
64-19-1424	Diamond Stealth3D 2000 2400 - 4Mb EDO-DRAM	£49	£57.58
Diamond Stealth3D 3000 - Professional VRAM Graphics, Video & 3D			
64bit graphics processor with an S3 ViRGE VX chipset. 2Mb card gives 1600x1200 by 256 colours at 80Hz, 800x600 by 16.7m colours at 160Hz & 1152x864 by 64k at 85Hz, 4Mb max. 4Mb card gives 1600x1200 by 64k colours at 80Hz, 1280x1024 by 16.7m colours at 75Hz & 220MHz RamDAC max refresh 120Hz. Supports software MPEG.			
64-19-1432	Diamond Stealth3D 3000 3240 - 2Mb VRAM	£77	£90.48
64-19-1434	Diamond Stealth3D 3000 3400 - 4Mb VRAM	£99	£116.33
Diamond Stealth3D 2000 Pro - Outrageously Fast 2D, 3D, Video - TV option			
64bit graphics processor with an S3 ViRGE DX chipset. 2Mb card gives 1600x1200 by 256 colours at 65Hz, 800x600 by 16.7m colours at 100Hz & 1152x864 by 64k at 85Hz, 4Mb max. 4Mb card gives 1600x1200 by 256 colours, 1280x1024 by 64k colours at 75Hz & 220MHz RamDAC max refresh 120Hz.			
64-19-1442	Diamond Stealth3D 2000 Pro - 2Mb EDO-DRAM	£47	£55.23
64-19-1444	Diamond Stealth3D 2000 Pro - 4Mb EDO-DRAM	£57	£66.98
Diamond Stealth3D 2000 Pro with TV Output option, view PC software on your TV!			
64-19-1452	Diamond Stealth3D 2000 ProTV - 2Mb EDO-DRAM	£59	£69.33
64-19-1454	Diamond Stealth3D 2000 ProTV - 4Mb EDO-DRAM	£69	£81.08

SMC : looking ok....

When you don't see us, it's difficult for us look good. That's why we always perform at our best. Our approach is different, and we're sure you'll like it. Our staff are trained on the latest products, and on the wide range of services we provide. We thrive on improvement and quality of service and we're sure you'll agree - this makes us look not just good, but great.

COLOUR WITH PERFORMANCE

ORCHID Righteous 3D



64-53-2030
£112 £131.60

*DOS and Windows 3.1x programs require accelerated drivers

DIAMOND MONSTER 3D



64-19-8001
£105 £123.38

*DOS and Windows 3.1x programs require accelerated drivers



BOTH INCLUDE:

- > 4Mb Fast EDO-DRAM
- > Full motion frame rates
- > Awesome 3D software titles
- > Dual 64bit memory architecture
- > Real time interactive rendering
- > Righteous 3D - 2 year warranty
- > 3Dfx Interactive Voodoo Graphics
- > Direct 3D support for Windows '95
- > Monster 3D - 5 year warranty

Advanced 3D features include:- Bilinear filtering, anti-aliasing, Gouraud shading, MIP mapping, perspective texture mapping, texture modulation, per-pixel alpha blending, texture compositing/morphing. **Both cards are designed to work with your existing graphics card.**

ATI Graphic Cards

Part No	Make & Model	ex VAT	inc VAT
PCI Graphics Cards			
64-97-0302	ATI 3D Charger OEM, 2Mb SGRAM	£39	£45.83
64-97-0304	ATI 3D Charger OEM, 4Mb SGRAM	£49	£57.58
64-97-0602	ATI 3D XPERT @ Play OEM, TV Out, 2Mb SGRAM	£99	£116.33
64-97-0604	ATI 3D XPERT @ Play OEM, TV Out, 4Mb SGRAM	£118	£139.83
64-97-0608	ATI 3D XPERT @ Play OEM, TV Out, 8Mb SGRAM	£148	£173.90
64-97-0502	ATI 3D XPERT @ Work OEM, TV Out, 2Mb SGRAM	£89	£104.58
64-97-0504	ATI 3D XPERT @ Work OEM, TV Out, 4Mb SGRAM	£105	£123.38
64-97-0508	ATI 3D XPERT @ Work OEM, TV Out, 8Mb SGRAM	£135	£158.63
64-97-1604	ATI 3D RETAIL XPERT @ Play TV Out, 4Mb SGRAM	£145	£170.38
64-97-1608	ATI 3D RETAIL XPERT @ Play TV Out, 8Mb SGRAM	£175	£205.63
64-97-1504	ATI 3D RETAIL XPERT @ Work TV Out, 4Mb SGRAM	£129	£151.58
64-97-1508	ATI 3D RETAIL XPERT @ Work TV Out, 8Mb SGRAM	£165	£193.88

All ATI 'XPERT' graphics cards marked retail are supplied with extra software, XPERT @ Play has Formula 1, Terracide & Wirl 3D. XPERT@Work has Wirl, Simply3D & Photosuite.

AGP Graphics Cards

64-97-0614	ATI 3D XPERT @ Play OEM, TV Out, AGP 4Mb SGRAM	£125	£146.88
64-97-0618	ATI 3D XPERT @ Play OEM, TV Out, AGP 8Mb SGRAM	£155	£182.13
64-97-0514	ATI 3D XPERT @ Work OEM, TV Out, AGP 4Mb SGRAM	£119	£139.83
64-97-0518	ATI 3D XPERT @ Work OEM, TV Out, AGP 8Mb SGRAM	£149	£170.01



Matrox Graphics Cards

Part No	Make & Model	ex VAT	inc VAT
Matrox Millennium II			
Optimized 64-bit MGA-2164W dual-ported processor, 250MHz RAMDAC offering flicker-free, maximum memory 16Mb WRAM. Supports up to 1920x1200. Max.refresh 200Hz - now offers faster 2D than before and supports Direct3D (D3D) applications. Software and drivers supplied. True 24-bit colour for photo realistic displays available at 1920x1080 with 8Mb!			
64-95-2004	Matrox Millennium II - 4Mb WRAM	£135	£158.63
64-95-2008	Matrox Millennium II - 8Mb WRAM	£189	£222.08
Matrox Millennium II WRAM upgrades			
64-95-0042	Matrox Millennium II - 4Mb WRAM upgrade	£79	£92.83
64-95-0082	Matrox Millennium II - 8Mb WRAM upgrade	£129	£151.58
64-95-0122	Matrox Millennium II - 12Mb WRAM upgrade (4Mb board only)	£189	£222.01

Matrox Mystique Memory

Matrox Mystique SGRAM Upgrade for original 2Mb version only, not 220 series			
64-95-0102	2Mb SGRAM (expansion to 4Mb)	£35	£41.13

Matrox Millennium MPEG

Matrox Millennium MPEG upgrade for a bare 2Mb or 4Mb board only, not Millennium II			
64-95-1036	Media XL-MPEG board (fits into memory slot).	£189	£222.08

Matrox Mystique/Mystique 220 Rainbow Runner

Video upgrade for Matrox Mystique/Mystique 220. High quality video editing on the PC. Hardware MPEG1 on board to enable video capture/playback. PC to PAL video output. Video editing, conferencing and recording included. Easy to use on screen PC-VCR Remote. Supports both live and still frame capture. Sound captured through your normal SoundCard.			
64-95-1199	Matrox Rainbow Runner daughter board add-on for 2Mb or 4Mb (original) Mystique HQ video capture.	£129	£151.58

Matrox Mystique 220 - Home & Business Series

64 bit MGA graphics processor based on the award winning Matrox Mystique now with faster 3D facilities and better support for larger 21" monitors. For greater choice the graphics card is available in 2 versions: Home includes - Disney's Toy Story, MotorRacer, 3D Game Demo's, Utilities and Software MPEG; Business includes - Netscape Navigator, Micrografx Simply 3D, Serif PagePlus, Utilities and Software MPEG. Operating sys drivers included.

64-95-2202	Matrox Mystique 220 Home - 2Mb SGRAM	£77	£99.48
64-95-2402	Matrox Mystique 220 Business - 2Mb SGRAM	£77	£90.48
64-95-2204	Matrox Mystique 220 Home - 4Mb SGRAM	£95	£111.63
64-95-2404	Matrox Mystique 220 Business - 4Mb SGRAM	£95	£111.63

Matrox Mystique 220 SGRAM upgrades (2,4,6Mb) available - please ask for details

Matrox m3D

Based on the PowerVR PCX2 processor, this card balances price with incredible 3D gaming.			
64-95-0403	Matrox m3D PCI add-on - 4Mb SDRAM, includes games	£69	£81.08



Videologic Graphics Cards

Part No	Make & Model	ex VAT	inc VAT
PCI Graphics Cards			
64-97-1411	Grofixstor 410, S3 Trio64V2, 1Mb EDO DRAM	£29	£34.01
64-97-0244	Grofixstor 410, S3 Trio64V2, 2Mb EDO DRAM	£39	£45.83
00-00-0000	Grofixstor 450 Pro	£POA	£POA
00-00-0000	Grofixstor 560	£POA	£POA
00-00-0000	Grofixstor 600 Pro	£POA	£POA
64-97-0287	Apocalypse 3Dx Value, Power VR chipset, 4Mb SDRAM	£59	£69.33
64-97-0213	Apocalypse 3Dx, Retail Pack, 4Mb SDRAM	£79	£92.83
64-97-0265	Apocalypse 5D, ET6100, 128-bit processor, 6Mb memory	£135	£158.63
64-97-0234	Apocalypse 5D, ET6100, 128-bit processor, 8Mb memory	£159	£186.83

Video Imaging

Part No	Make & Model	ex VAT	inc VAT
62-15-0313	VideoBlaster RT300 - Display/capture real time video, compression up to 30fps, built-in i750, 320x240 at 30fps	£198	£232.65
62-15-1311	TV Coder (external) - Display SVGA screens on TV or video, works with desktops and laptops, 800x600, 64,000 colours	£103	£121.03
62-15-0700	lomega Buz, Ultra SCSI, PCI Motion JPEG Video capture and playback.	£149	£175.01

TV Cards - for Windows 95 Only

Part No	Make & Model	ex VAT	inc VAT
Hauppauge			
62-95-0105	Win TV PCI - Plug'n'Play card, 125 channel	£77	£90.48
62-95-0215	Win TV RADIO - as above with additional radio tuner	£89	£104.58

TV and professional Teletext (supporting DDE) for Win95 only. Frame grabbing & video clip capture. No feature connector required, data is fed direct through the bus. Supports higher resolutions up to 1600 x 1200 full colour display, requires Direct Draw drivers. Displays live video in fully movable and sizable window. Captures live video at 320 x 240 upto 15-25 frames per second (limited by system spec), creating Microsoft Video for Windows compatible AVI files in a compressed YUV format, 24bit images with high 4:2:2 digitising.

PRODUCT INFORMATION

What is AGP?

Designed by Intel, AGP stands for Accelerated Graphics Port. AGP streamlines the flow of data between the processor, graphics accelerator and system memory, delivering a new level of rich media and graphics performance to the PC. For the home user, AGP supports improved texture rendering in 3D software, including games, entertainment, educational and digital imaging applications. Business users will see smooth performance in 3D applications from CAD programs to sophisticated data visualization and web authoring tools. AGP frees system resources with its high-bandwidth and is supported in all new Intel based LX chipsets from SMC - See ASUS and Intel motherboards on Page 13.

Performance from STYLE..

E&OE. A Full list of SMC Terms & Conditions is available on request

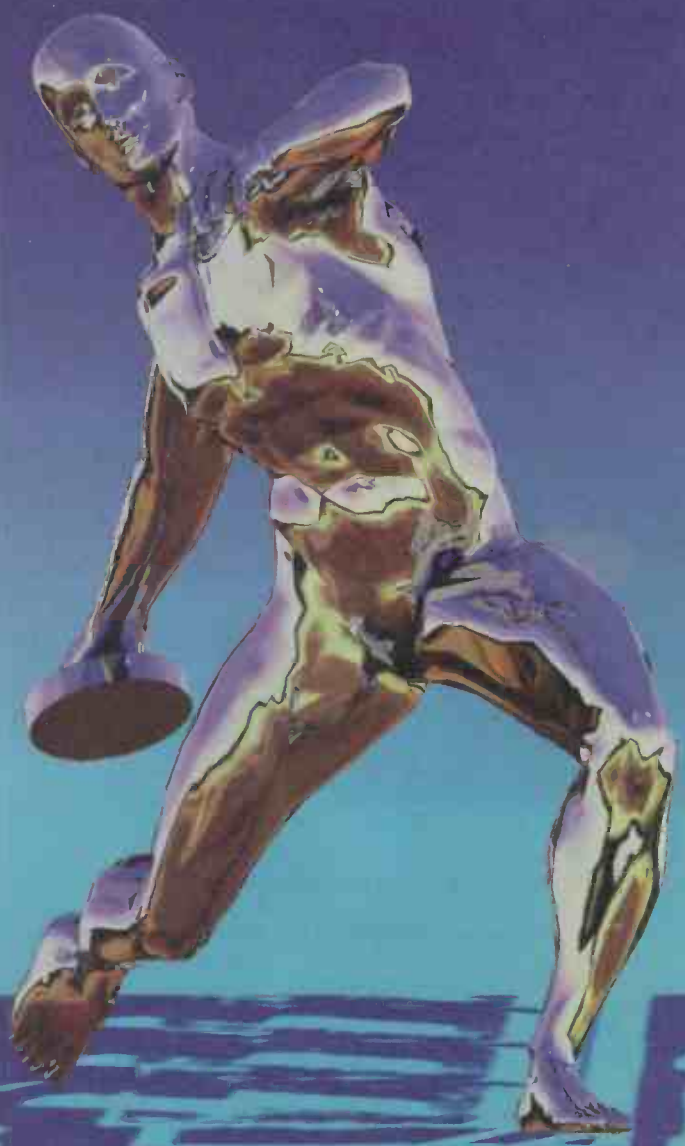
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At SMC we understand the need for performance and speed, coupled with reliability and quality. Our range of drives cover all applications, for the person who wants the best from his games, the family that wants to benefit from the latest in edutainment, to the professional who is mixing video and sound. They can all benefit from the latest high speed CD-ROM drives from SMC.



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CD-ROM Recorders (CD-R)

Make & Model	Part No	ex VAT	inc VAT
Kits including SCSI controller (Inc. WinOnCD Software)			
CDR 2604 - 2x 6x Internal SCSI	52-95-2604	£289	£339.58
CDR 4604 - 4x 6x Internal SCSI	52-95-4604	£435	£511.13
Bare drive units (Inc. WinOnCD Software)			
CDR 2604 EL - 2x 6x Internal SCSI	52-95-2600	£249	£292.58
CDR 4604 EL - 4x 6x Internal SCSI	52-95-4600	£395	£464.13
PRESSIT - CD Labeller	99-95-0022	£24.95	£29.31
CD-R - 74 Minute Writable Disc	95-97-0700	£5	£5.88

All CD Writer's Include data cable, power cable, CD marking pen, software for Win, Win95, NT4

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CD-ROM & DVD-ROM Drives

EIDE/ATAPI

Part No	Make	Model	Speed	Access	D/Tran	Mount	ex VAT	inc VAT
51-48-0404	Mitsumi	FX400	4x	250	600	Internal	£32	£37.60
51-48-0800	Mitsumi	FX800	8x	x	1200	Internal	£39	£43.83
51-48-0162	Mitsumi	FX162	16x	x	2400	Internal	£48	£56.40
51-48-0240	Mitsumi	FX240	24x	x	3600	Internal	£58	£68.15
51-26-0840	Goldstar	GCD-R580B	8x	150	1200	Internal	£38	£44.65
51-93-0068	Teac	CD-C68 *	8x	190	1200	Internal	£109	£128.08
51-15-1602	Creative	Infra Blaster	16x	140	2400	Internal	POA	POA
51-26-8160	Goldstar	CRD-8160B	16x	150	2400	Internal	£48	£56.40
51-15-2402	Creative	Blaster CD	24x	90	3600	Internal	POA	POA
51-26-8240	LG Goldstar	CRD-8240B	24x	90	3600	Internal	£65	£76.38
51-57-0585	Panasonic	CR-585	24x	85	3600	Internal	£59	£69.33
51-62-2400	Pioneer	DR-A24X	24x	75	3600	Internal	£69	£81.08
51-95-2430	Samsung	SCR2430	24x	x	3600	Internal	£59	£69.33
51-93-0524	Teac	CD524E	24x	TBA	3600	Internal	£59	£69.33

All CD-ROM drives running at 12x or greater are MPC-3 Compatible

* 6-disc Autchanger Player. All CD-ROMs are tray loading, supplied with software drivers / audio cable

SCSI

Part No	Make	Model	Speed	Access	D/Tran	Mount	ex VAT	inc VAT
51-62-1406	Pioneer	DRM-624X *	4x	150	600	External	£329	£386.58
51-57-0506	Panasonic	CR-506B †	8x	150	1200	Internal	£69	£81.08
51-93-1210	Plextor	12Plex †	12x	110	1800	Internal	£135	£158.63
51-93-1215	Plextor	12Plex †	12x	110	1800	External	£169	£198.58
51-93-1205	Plextor	12Plex †	12x	110	1800	External	£133	£156.28
51-75-5701	Toshiba	XM5701B †	12x	115	1800	Internal	£75	£88.13
51-93-1516	Teac	CD516S †	16x	115	2400	Internal	£83	£97.83
51-93-2000	Plextor	20Plex †	20x		3000	Internal	£125	£146.88
51-93-2005	Plextor	20Plex †	20x		3000	External	£164	£192.70
51-62-2415	Pioneer	DR-U24X †	24x	75	3600	Internal	£95	£111.63

* 6-disc Autchanger Player. † Tray Loading. ‡ Caddy Loading

MicroSolutions Backpack Parallel Port

Part No	Make & Model	ex VAT	inc VAT
51-42-0800	8x CD-ROM, <180ms, 1,200Kb/s max	£165	£193.88
51-42-0804	8x CD-ROM with MS/Sound, <180ms, 1,200Kb/s max	£185	£217.38
51-42-1000	Bantam CD-ROM, 150ms, 1,200Kb/s max, weighs 21oz	£215	£252.63
51-42-1004	Bantam CD-ROM & Sound, 150ms, 1.2Mb/s max, 21oz	£255	£299.63

As well as DOS, Windows, Win95 - Bantam drive supports WinNT. Lightweight and sleek design.

DVD CD-ROM Drive Creative Labs Kit

Part No	Make & Model	ex VAT	inc VAT
51-15-1700	PC-DVD Encore Kit. Includes: Internal EIDE/ATAPI DVD-ROM Drive for Win95, (Offers full 1766), MPEG-2 PCI Decoding Card with full screen & TV out for Broadcast quality output, all required Cables, 2x Titles (Claw & Wing Commander4). Compatible with standard CD Discs, Plays Movies to your monitor or TV. Creative DVD has a unique view zone function.	£249	£292.58



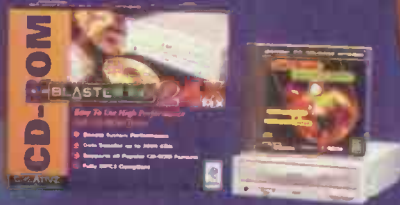
Watch Video Quality
Full Length Movies
Or Play Video
Intensive PC Games
Through Your TV.

CD-ROM Recorders (CD-R)

Part No	Make & Model	ex VAT	inc VAT
52-95-2120	CDR4801 - 4x write, 8x play, bare drive, Internal	£359	£421.83
52-95-2122	CDR4801-S1 Kit - 4x write, 8x play, SCSI controller, Int	£449	£527.58
52-95-2125	CDR480E - 4x write, 8x play, bare drive, External	£520	£611.00
52-95-2127	CDR480E-S1 Kit - 4x write, 8x play, SCSI controller, Ext	£570	£669.75

Plasmon Drives have a 1Mb Cache and 175ms Access time and are all tray loading.

All above CD Recorders are SCSI, come with CD software for Win 3.1x, NT 3.51 & 4, Win95.



CD-ROM Re-Writers (CD-RW)

Part No	Make & Model	ex VAT	inc VAT
52-28-7100	HP Surestore 7100i, EIDE/ATAPI, 1Mb cache, 1x CD-RW, 6x Play, 2x Write & 2x Re-write, software, Internal	£259	£304.33
52-28-7109	HP Surestore 7100e, Parallel Port, 1Mb cache, 1x CD-RW, 6x Play, 2x Write & 2x Re-write, software, External	£319	£374.83

Designed for Windows 95 or Windows NT4. CD-RW disks can be read in CD-RW drives, Multithread drives and DVD drives. Once your CD-RW is ready you can produce a standard CD (CD-R) for all CD players!

CD-ROM JukeBoxes

Part No	Make & Model	ex VAT	inc VAT
51-62-1418	Pioneer DRM-1804X - Quad Speed, 300ms, 600Kb/s, 18 CD's, 3 Drives, External	£1339	£1573.33
51-62-1450	Pioneer DRM-5004X - Quad Speed, 500 CD's, 1 Drive (max 4), 600Kb/s, 280ms, External	£12,959	£15,226.83

CD-ROM Media & Accessories

Part No	Description	ex VAT	inc VAT
95-97-7174	CD Gold - CD Recordable media (74 Mins)	£3.50	£4.11
95-97-0700	TRAX CD Gold - CD Recordable media (74 Mins)	£5	£5.88
95-75-0774	TRAX CD Re-writable Media for CD-RW players	£19	£22.33
75-95-1402	EIDE Data Cable for up to 2 drives	£10	£11.75
51-95-9700	CD-ROM Caddy (spare drive caddy)	£9	£10.58
75-97-0404	ATAPI to ATAPI, 4-4pin for EIDE CD-ROMs	£8	£9.40
75-57-0570	Panasonic Cable for SCSI CD-ROM only (not IDE)	£8	£9.40
75-75-0751	Toshiba Cable, 3-4 for 3xxx series	£8	£9.40
75-75-0757	Toshiba Cable, 4-4 for 4xxx series	£8	£9.40
75-75-0753	Toshiba Cable, 4-4 for 5xxx series	£8	£9.40

These cables are only available when purchasing a CD-ROM Drive.

Panasonic PD Writer

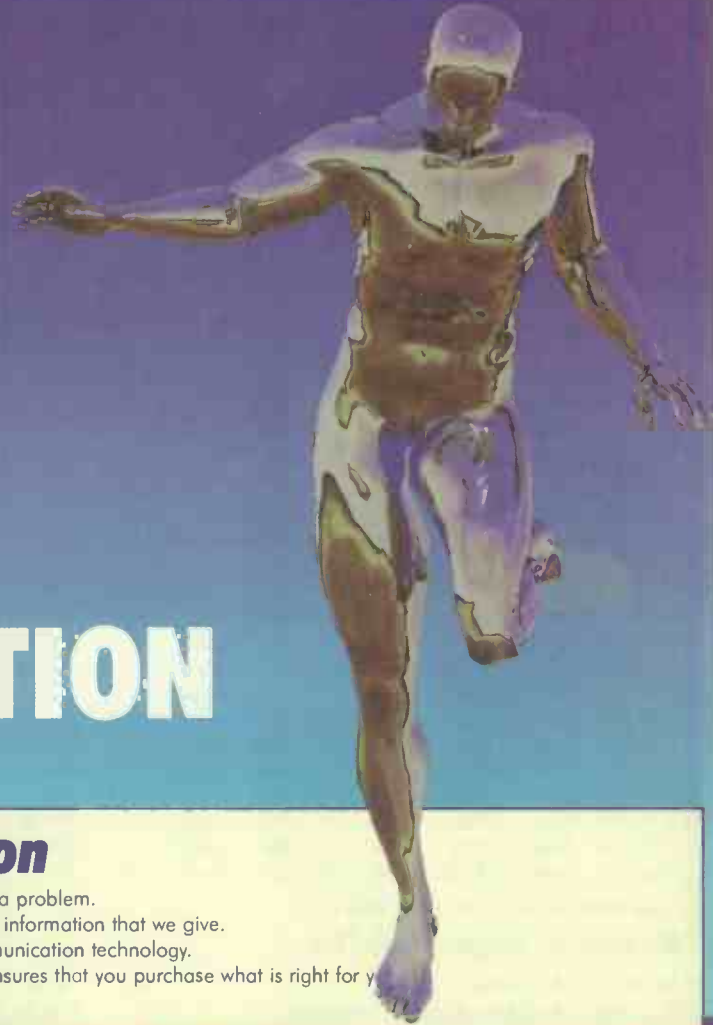
Part No	Make & Model	ex VAT	inc VAT
51-57-0400	LF1004B Internal PD drive	£279	£327.83
51-57-0410	LF1004BK Internal PD drive kit with SCSI adaptor	£249	£292.58
51-57-0405	LF1000HB External PD drive	£369	£433.58
51-57-0415	LF1000HBK External PD drive kit with SCSI adaptor, 1x optical media	£395	£464.13
51-57-0408	LF1000HBA External PD drive kit for Apple Mac, 1x optical media	£419	£492.33
95-97-0653	LMR650A Optical Media for Panasonic PD Drive	£23	£27.03
00-00-0000	LMR650A/5 5 Pack Optical Media for Panasonic PD Drive	£105	£123.38

All kits include cables and software. External kits include one PD Optical Disk. Fully featured SCSI adaptor included in kits is an Adaptec AHAT520A.

Optical Writers

Part No	Make & Model	ex VAT	inc VAT
50-24-0640	FUJITSU M2513A 640Mb, 2.1Mb/s, 237Kb Coche, Internal	£259	£304.33
50-28-1300	Hewlett Packard C1716T Dual Capacity - 650Mb, 512Kb Coche, 1Mb/s, 8.3ms Internal	£1325	£1556.88
50-28-1305	HEWLETT PACKARD C2550A Dual Capacity, 650Mb-1.3Gb, 8.3ms, 1Mb/s, 512Kb Coche, External	£1449	£1702.58
50-57-1505	Panasonic LF7300B - 1.5Gb, 512Kb Coche, 1.5Mb/s, 45ms External	£1459	£1714.33



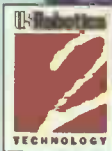


SMC : THE BEST FOR COMMUNICATION

SMC : Your Internet Solution

Communication is definitely the future.... time and distance are no longer a problem. At SMC we understand the need to communicate and pride ourself on the information that we give. Our in-house training means that we keep up to date with the latest communication technology. Buying a modem from SMC is as easy as talking, because our expertise ensures that you purchase what is right for you. When you buy from SMC.....you buy right.

56 Kbps
READY



Sportster 91-79-3396

External Faxmodem with Personal Voice Mail

With the first 'x2' ready product from U.S. Robotics, you can download from the internet at an amazing 56Kbps. That's nearly twice as fast as the 28.8Kbps speed currently available over ordinary telephone lines. Over 100 major internet and on-line services have agreed to adopt x2 technology, and when not downloading from an x2 host, you'll still connect at speeds of up to 33,600bps - the latest approved V.34 standard.

US Robotics
The Intelligent Choice in Information Access

£129 Ex.VAT
Inc VAT £151.58

Sportster
Winmodem 91-79-3392

33.6 Internal Faxmodem for Windows™ with Personal Voice Mail

This modem was designed exclusively for the Windows environment, providing you with internet access at up to 33,600bps, fax, e-mail, personal voice mail and speakerphone facilities all in one compact unit.

The Sportster Winmodem is easy to install and use. With the windows operating system already on your PC, all the installation chores are done for you. Simply insert the Sportster Winmodem and away you go!

*To utilise all voice features an external speaker, headset or soundcard is required.

£69 Ex.VAT
Inc VAT £81.08



All 33,600 modems from SMC Computers are 56k upgradable.
Contact US Robotics (0800 225252) for details.

Modems

Part No	Make & Model	ex VAT	inc VAT
US Robotics - SPORTSTER Range 5YR Warranty, free Lifetime tech. support			
External			
91-79-2896	Sportster 33.6 Voice*, 33,600bps max. Data Speed, 14,400bps Fax Speed, (with voice mail/Data/Fax/Internet software & cables), X2 Compatible	£97	£113.98
91-79-4288	Sportster 28.8 PCMCIA XJACK, 28,800bps Data Speed, 14,400bps Fax Speed uses standard PCMCIA Type II /III slot, inc. software	£108	£126.90
Internal			
91-79-2892	Sportster 33.6 Voice*, 33,600bps Data, 14,400bps Fax Speed, with Data and Fax software, X2 Compatible	£97	£113.98

Features and benefits:- Compact, easy to use products designed to offer the fastest connection to the outside world. Based on an Award winning series - their performance, features, reliability & low price are hard to beat.

* The Sportster 33,600 voice modems are hardware upgradeable through US Robotics direct (may be chargeable)

US Robotics - COURIER Range 5YR Warranty, free Lifetime tech. support

91-79-3402	Courier Dual Standard V34 + Fax, 33,600bps Data 14,400bps Fax, with Data/Fax software, Internal	£194	£227.95
91-79-3406	Courier Dual Standard V34 + Fax, 33,600bps Data 14,400bps Fax, with Data/Fax software, External	£194	£227.95
91-79-4902	Courier-I, ISDN ONLY, Supports X2 Technology, V34, 64Kbps, 14,400 Fax, Active Terminator, with Data/Fax software, requires ISDN - supports analogue, Internal	£259	£304.33
91-79-4906	Courier-I, ISDN ONLY, Supports X2 Technology, V34, 64Kbps, 14,400 Fax, Active Terminator, with Data/Fax software, requires ISDN - supports analogue, External	£259	£304.33

Features and benefits:- Dial security with passwords for optimum security, Adaptive Speed Levelling (reduces speed in the transmit & receive channels when line conditions are poor), automatic Fax/Data selection, Universal Connect - automatically detects & connects at the fastest speed. Upgradable flash memory. For the communications professional looking for advanced performance at an affordable price - the COURIER delivers.

Pace

91-91-5662	56k Voice Modem, uses 56k Flex technology, Internal	£107	£125.73
91-91-5666	56k Voice Modem, uses 56k Flex technology, External	£117	£137.48
91-91-3362	Microlin 33.6, 33,600Kbps Data, 14,400bps Fax, Int.	£96	£112.80
91-91-3366	Microlin 33.6, 33,600Kbps Data, 14,400bps Fax, Ext.	£117	£137.48
91-91-3364	Microlin NB33.6 Voice PCMCIA, 33,600bps Data, 14,400bps Fax, Voice Software, External	£137	£1160.98
91-91-3382	Microlin 33.6 Voice, 33,600Kbps Data, 14,400bps Fax, Voice Software, Internal	£115	£135.13
91-91-3386	Microlin 33.6 Voice, 33,600Kbps Data, 14,400bps Fax, Voice Software, External	£115	£135.13

All Pace Modems include cables, Manuals, software, 2Yr warranty, Lifetime technical support and FREE Internet trial bundles.

Motorola

91-97-5128	3400 Online, 28,800bps Data Speed, 14,400bps Fax (with Internet Software), External	£75	£88.13
91-97-5328	3400 Pro, 28,800bps Data, 14,400bps Fax, External	£74	£86.95

Hayes

91-95-1314	Accura 14.4, 14,400bps Data/Fax Speed, External	£75	£88.30
91-95-1328	Accura 28.8, 28,800bps Data, 14,400bps Fax, External	£95	£111.63



WEBCAM
LIVE VIDEO
OVER THE
INTERNET...
see page 23

UPS's

Part No	Make & Model	ex VAT	inc VAT
BackUPS - Best value protection for desktop PC's			
89-90-0250	BackUPS 250, 175 watts, for 486 with 15" monitor	£POA	£POA
89-90-0402	BackUPS 400, 285 watts, for Pentium with 15" monitor	£69	£81.08
89-90-0602	BackUPS 600, 425 watts, for Pentium with 17"+ monitor	£139	£163.33
BackUPS PRO - High Performance PC protection with voltage regulation and shutdown software for Windows, Win95. Supplied with serial cable.			
89-90-0280	BackUPS PRO 280, 200 watts, for 486 with 15" monitor	£POA	£POA
89-90-0422	BackUPS PRO 420, 300 watts, for Pentium with 15" monitor	£149	£175.08
89-90-0652	BackUPS PRO 650, 460 watts, for Pentium with 17"+ monitor	£195	£229.13
SmartUPS - High Performance protection for servers, with Smart Boost, Smart Trim and shutdown software for Windows, Win95, WinNT, SCO UNIX, Novell Netware. Supplied with serial cable.			
89-90-0710	SmartUPS 700, 500 watts, for Pentium with 17"+ monitor	£229	£269.08
89-90-1010	SmartUPS 1000, 700 watts, for single server	£289	£339.58
89-90-1410	SmartUPS 1400, 1000 watts, for single server	£389	£457.08
89-90-2210	SmartUPS 2200, 1550 watts, for multiple servers	£549	£645.08
89-90-3010	SmartUPS 3000, 2135 watts, for multiple servers	£POA	£POA

Smartups also available in Rack Mount version.

Network Cards

Part No	Make & Model	ex VAT	inc VAT
BNC			
84-91-2011	Novell NE 2000+, 16-bit ISA, w/stations, small servers	£46	£54.05
84-93-2411	SMC EZ P'n P, 16-bit ISA, w/stations, small servers	£58	£68.15
TP			
84-90-0931	3COM 509, 16-bit ISA, high end w/stations, servers	£65	£76.38
84-31-8465	Intel Pro-100 - EtherExpress, PCI, w/stations, servers	£56	£65.80
COMBO			
84-93-1651	SMC E16, 6-bit ISA, w/stations, small servers	£62	£72.85
84-93-2451	SMC EZ P'n P, 16-bit ISA, w/stations, small servers	£65	£76.38
84-90-0951	3COM 509, 16-bit ISA, for high end w/stations, servers	£75	£88.13
84-90-8951	3COM 589, PCMCIA, for laptops	£112	£131.60
84-90-9951	3COM 900, PCI, for high end w/stations, servers	£75	£88.13
84-90-9961	3COM 905, PCI, for workstations	£59	£69.33

Network Cables

Part No	Make & Model	ex VAT	inc VAT
86-95-1371	Thin Ethernet cable, segments made to order. per metre	£0.90	£1.06
86-95-1311	BNC solderless crimp connectors	£2.50	£2.94
86-95-1353	BNC Ethernet terminator	£5	£5.88
86-95-1331	BNC 'T' piece	£6	£7.05
86-95-1302	2m BNC Thin Ethernet cable with crimps - ready made	£5.50	£6.46
86-95-1305	5m BNC Thin Ethernet cable with crimps - ready made	£8.50	£9.98
86-95-1310	10m BNC Thin Ethernet cable with crimps - ready made	£13	£15.27
86-95-1320	20m BNC Thin Ethernet cable with crimps - ready made	£22	£25.85
86-95-1330	30m BNC Thin Ethernet cable with crimps - ready made	£32	£37.60
00-00-0000	2-30m RJ45, Category 5 cables available - ready made	£POA	£POA





The tape listing is coded to match our drive listings, if unsure check your drive type on the tape storage products pages.



Removable Media

Part No	Make & Model	ex VAT	inc VAT
IOmega ZIP CARTRIDGES			
95-35-1010	100Mb, Single	£10	£11.75
95-35-0103	100Mb, 6 Pack	£54	£63.45
95-35-0110	100Mb, 10 Pack (Multi-Coloured Discs, Inc Software)	£POA	£POA
IOmega JAZ CARTRIDGES			
95-35-1001	1.0Gb, Single	£58	£68.15
95-35-1003	1.0Gb, 5 Pack	£275	£323.13
SYQUEST 3.5" CARTRIDGES			
95-73-3135	135Mb, Single	£13	£15.28
95-73-3270	270Mb, Single	£35	£41.13
SYQUEST 5.25" CARTRIDGES			
95-73-5044	44Mb, Single	£29	£34.08
95-73-5088	88Mb, Single	£32	£37.60
95-73-5200	200Mb, Single	£45	£52.88

Tape Selector Chart

Part No	Make & Model	ex VAT	inc VAT
TAPE TYPE			
95-95-0805	A1 TR1 (QIC Formatted)	£15	£17.63
95-95-3405	A3 TR3 (QIC Formatted)	£18	£21.15
95-95-8005	A4 TR4 (QIC Formatted)	£24	£28.20
95-95-9409	B1 DAT 4mm 90metre DDS-1	£6	£7.05
95-95-9412	B2 DAT 4mm 120metre DDS-2	£13	£15.28
95-95-9417	B3 DAT 4mm 125metre DDS-3	£23	£27.03
95-95-0120	C1 DC2120 unformatted	£8	£9.40
95-95-0125	C2 DC2120 pre-formatted	£12	£14.10
95-95-0255	C3 DC2120XL pre-formatted	£16	£18.80
95-95-0345	C4 DC3000XL pre-formatted	£22	£25.85
95-95-0680	C5 DC3000XL unformatted	£15	£17.63
95-95-1365	C6 DC1400	£19	£22.33
95-95-4005	C7 DC3080XLF (QIC Formatted)	£20	£23.50
95-95-0150	D1 DC6150	£10	£11.75
95-95-0250	D2 DC6250	£12	£14.10
95-95-0520	D3 DC6525	£15	£17.63
95-95-1000	D4 DC9100	£19	£22.33
95-35-2002	E1 Ditto 2000 Media	£14	£16.45
ACCESSORIES			
95-95-9130	DAT 4mm Tape Cleaner	£10	£11.75

Optical Media

Part No	Make & Model	ex VAT	inc VAT
95-97-0128	128Mb LMD300 Media	£16	£18.80
95-97-0230	230Mb for Fujitsu M2512A OM230 Media	£11	£12.93
95-97-0640	640Mb for Fujitsu M2513A OM640 Media	£29	£34.08
95-97-0653	650Mb for Panasonic LF1004-PD Drive Media	£19	£22.33
95-97-1300	1.3Gb HP C1716T, HP C2550A Media	£28	£32.90
95-97-1500	1.5Gb for Panasonic LF7304, LF7300B Media	£88	£103.40

CONSUMABLES & SUPPORT PACKS

Printer Consumables

Part No	Make & Model	ex VAT	inc VAT
Hewlett Packard Laser Toner			
96-28-7413	HP92274A - Laserjet 4L/4P/4ML/4MP	£42	£49.35
96-28-7313	HP92275A - Laserjet IIP/IIIP/IIIPplus	£49	£57.58
96-28-7354	HP92291A - Laserjet IIISi/4Si/4Si MX	£69	£81.08
96-28-7230	HP92295A - Laserjet IID/IIID	£45	£52.88
96-28-7434	HP92298A - Laserjet 4/4M/4 + /4M + /5/5N/5M	£62	£72.85
96-28-7451	HPC3900A - Laserjet 4V/4MV	£89	£104.58
96-28-7551	HPC3903A - Laserjet 5P/5MP/6P/6MP	£48	£56.40
96-28-7515	HPC3906A - Laserjet 5L/6L	£39	£45.83
Hewlett Packard Deskjet Ink Cartridges			
96-25-5030	HP51633M - 310/320/340/DW310,320,340	£19	£22.33
96-28-5060	HP51629A - 600/660C/690C/DW600,660C	£18	£21.15
96-28-5069	HP51649A - 600/660C/690C/DW600,660C	£19	£22.33
96-28-5080	HP51645A - 820Cxi/850C/870Cxi/1600C/1600CM	£18	£21.15
96-28-5089	HP51641A - 820Cxi/850C/870Cxi	£19	£22.33
96-28-5120	HP51640A - 1200C/1200C PS	£19	£22.33
96-28-5123	HP51640C - 1200C/1200C PS/1600C/1600CM	£21	£24.68
96-28-5125	HP51640M - 1200C/1200C PS/1600C/1600CM	£21	£24.68
96-28-5127	HP51640Y - 1200C/1200C PS/1600C/1600CM	£21	£24.68
Epson Supplies			
96-93-4000	S020093 - Stylus Color 500/400/600/Photo	£15	£17.63
96-93-8009	S020089 - Stylus Color 400/600/800/1520	£19	£22.33
96-93-8200	S020047 - Stylus 820/200/Color IIs/II,Color200	£14	£16.45
96-93-8209	S020049 - Stylus 1500/820/Color IIs/II	£19	£22.33
96-93-8005	S020110 - Stylus Photo	£15	£17.63

HP 3 Year On-Site Support Packs

Part No	Make & Model	ex VAT	inc VAT
99-28-9461	H5461A - DeskJet 340,400,600,670C,690C,SS T4i	£40	£47.00
99-28-9462	H5462A - DeskJet 820Cxi, SS 2000/5000	£47	£55.23
99-28-9464	H5465A - DeskJet 870, Scanjet 4S/P,5S/P, SS6000	£66	£77.56
99-28-9470	H5470A - OfficeJet 350	£102	£119.85
99-28-9471	H5471A - OfficeJet Pro 1150C, SS12000	£118	£138.65
99-28-9473	H5473A - Deskjet 1600C,CM	£105	£123.38
99-28-9475	H5475A - Scanjet 4Si, SS30e DLT	£140	£164.50
99-28-9476	H5476A - Laserjet 5/6P, 5/6MP	£142	£166.85
99-28-9479	H5479A - LaserJet 5, 5M, 5N	£180	£211.50
99-28-9482	H5482A - LaserJet 4V, 4MV	£235	£276.13
99-28-9492	H5492A - LaserJet 5Si MX/NX	£530	£703.83
99-28-9500	H5500A - LaserJet 5L, 6L	£77	£90.48
99-28-9501	H5501A - Colour LaserJet 5/S/M	£948	£1113.90

Epson 3 Year On-Site Support

Part No	Make & Model	ex VAT	inc VAT
99-93-0018	Group 1 - Stylus 200, Stylus Color 200, LQ100+	£40	£47.00
99-93-0028	Group 2 - Stylus Color 400/600/800, LX300/1050	£65	£76.38
99-93-0038	Group 3 - Stylus 1000,FX870/1170,LQ570/870/2070	£99	£116.33
99-93-0048	Group 4 - FX2170,LQ2170,GT-8500/9500 Scanners	£149	£175.08
99-93-0058	Group 5 - Stylus 1520, DFX5000+, DLQ3000	£199	£233.83
99-93-0068	Group 6 - Stylus Pro XL+,EPL9000/N2000/N2000PS	£259	£304.33



External Boxes

Part No	Make & Model	ex VAT	inc VAT
Centronics			
73-97-3113	1 x 3.5"HH/FH, 40 watt, Centronics Ext. Interface	£85	£99.88
73-97-3213	2 x 3.5"HH/FH, 65 watt, Centronics Ext. Interface	£105	£123.38
73-97-3413	4 x 3.5"HH/FH, 2 x 65 watt, Centronics Ext. Interface	£195	£229.13
73-97-3114	1 x 3.5"HH/LP, 30 watt, Centronics Ext. Interface	£85	£99.88
73-97-6114	1 x 5.25"FH, 65 watt, Centronics Ext. Interface	£115	£135.13
73-95-9412	2 x 5.25"HH, Conversion Kit for 73-97-6114	£15	£17.63
73-97-5116	1 x 5.25"HH, 40 watt, Centronics Ext. Interface	£69	£81.08
73-97-5114	1 x 5.25"FH, 30 watt, Centronics Ext. Interface	£95	£111.63
73-97-6215	2 x 5.25"FH, 2 x 65 watt, Centronics Ext. Interface	£185	£217.38
73-95-9524	4 x 5.25"HH, Conversion Kit for 73-97-6215	£25	£29.38
73-97-6315	3 x 5.25"FH, 3 x 65 watt, Centronics Ext. Interface	£245	£287.88
73-95-9536	6 x 5.25"HH, Conversion Kit for 73-97-6315	£35	£41.13
73-97-6415	4 x 5.25"FH, 4 x 65 watt, Centronics Ext. Interface	£359	£421.83
Micro-D			
73-97-3133	1 x 3.5"HH/FH, 40 watt, Micro D Ext. Interface	£95	£111.63
73-97-3233	2 x 3.5"HH/FH, 65 watt, Micro D Ext. Interface	£125	£146.88
73-97-3433	4 x 3.5"HH/FH, 2 x 65 watt, Micro D Ext. Interface	£215	£252.63
73-97-5134	1 x 5.25"FH, 30 watt, Micro D Ext. Interface	£115	£135.13
Fast-Wide			
73-97-3152	1 x 3.5"HH/FH, 40 watt, Fast Wide Ext. Interface	£115	£135.13
73-97-3252	2 x 3.5"HH/FH, 65 watt, Fast Wide Ext. Interface	£175	£205.63
73-97-3452	4 x 3.5"HH/FH, 65 watt, Fast Wide Ext. Interface	£235	£276.13

All boxes are TUV approved and come with a 3 year warranty. Wide SCSI options are available on selected models. Please call for details.

Hard Drive Mounting Kits

Part No	Make & Model	ex VAT	inc VAT
SCSI			
79-95-1135	Mounts 3.5" drive into a 5.25" bay. No slide rails	£9	£10.58
79-97-3502	Removable caddy for 3.5" drives. Uses a 5.25" bay	£39	£45.83
79-97-3504	Metal version of above - performance drive support	£69	£81.08
IDE/EIDE			
79-95-1135	Mounts 3.5" drive into a 5.25" bay. No slide rails	£9	£10.58
79-97-3102	Removable caddy for 3.5" drives. Uses a 5.25" bay	£35	£41.13

Data Cables

Part No	Make & Model	ex VAT	inc VAT
External SCSI Cables - 1m			
75-95-3521	25-pin to 50-pin Centronics	£18	£21.15
75-95-3551	50-pin Centronics to 50-pin Centronics	£18	£21.15
75-95-3552	50-pin Centronics to 50-pin Centronics - 2 metres	£23	£27.03
75-95-3571	Micro D to 50-pin Centronics	£35	£41.13
75-95-3572	Micro D to 50-pin Centronics - 2 metres	£38	£44.65
75-95-3721	Micro D to 25-pin D	£36	£42.30
75-95-3771	Micro D to Micro D	£38	£44.65
75-95-3661	Wide SCSI to Wide SCSI	£55	£64.63
Internal SCSI Cables - 50 pin			
75-95-1501	Single drive, 19 inches	£8	£9.40
75-95-1502	Dual drive, 38 inches	£10	£11.75
75-95-1503	Triple drive, 38 inches	£15	£17.65
75-95-0500	Custom made to order, as required	£POA	£POA
Internal SCSI Cables - 68 pin			
75-95-1703	Triple drive, for Wide SCSI	£28	£32.90
75-95-1705	5 drives, for Wide SCSI	£45	£52.88
Internal IDE Cables			
75-95-1401	Single Drive, 40 Way Ribbon, 12.5", 2 x IDC40	£8	£9.40
75-95-1402	Dual Drive, 40 Way, 18" (4" gap), 3 x IDC40	£10	£11.75
75-95-0400	Custom made, 40 Way Ribbon, up to 20"	£POA	£POA

Note: Cable lengths may vary - IDE will support max of 2x drives per cable



External SCSI Boxes (Boxes may vary)

PC Cases (All cases are CE Approved)

Part No	Make & Model	ex VAT	inc VAT
70-97-0300	Super-Slimline Desktop, 100w PSU, 2x 3.5" bays*	£52	£61.10
70-97-0500	Slimline Desktop, 200w PSU, 2x 3.5", 2x 5.25" bays*	£49	£57.58
70-97-1000	Standard Desktop, 200w PSU, 1x 3.5", 3x 5.25" bays	£39	£45.83
70-97-1510	Mini Tower, 200w PSU, 3x 3.5", 2x 5.25" bays	£39	£45.83
70-97-1730	Midi Tower, 200w PSU, 5x 3.5", 3x 5.25" bays	£45	£52.88
70-97-1910	Full Tower, 200w PSU, 3x 3.5", 6x 5.25" bays	£59	£69.33
70-97-3330	ATX - Desktop, 200w PSU, 5x 3.5", 2x 5.25" bays	£95	£111.63
70-97-3790	ATX - Mini Tower, 200w PSU, 4x 3.5", 2x 5.25" bays	£89	£104.58
70-97-3730	ATX - Midi Tower, 200w PSU, 4x 3.5", 3x 5.25" bays	£105	£123.38
70-97-3930	ATX - Full Tower, 200w PSU, 5x 3.5"lp, 5x 5.25" bays	£119	£139.83

Cases marked with "*" are suitable for ISA Motherboards only. All cases supplied with Power supply units, Power Cables, Screws and motherboard mounts.

Keyboards & Mice

Part No	Make & Model	ex VAT	inc VAT
GENERIC KEYBOARDS			
82-50-3505	For Windows 95 - 105 key, 5-pin DIN	£12	£14.10
CHERRY KEYBOARDS			
82-91-3595	Cherry G81-3000 Lamb - 105 key, 5-pin AT, soft touch	£27	£31.73
82-91-3597	Cherry G80-3000HFM - AT, 102 key, 5-pin AT, click	£42	£49.35
82-91-3599	Cherry G80-3000HPM- PS/2, 105 key, 6-pin Din, click	£45	£52.88
GENERIC MICE			
82-53-3153	Mouse - 9 pin serial, 2 buttons	£11	£12.93
MICROSOFT MICE			
82-50-3192	Microsoft 'Home' - 9 pin serial, 2 buttons	£25	£29.38
LOGITECH MICE			
82-97-1511	Pilot Mouse, New shape - 9-pin serial, 3 buttons	£16	£18.80
82-97-1513	Pilot Mouse, New shape - 6-pin DIN, 3 buttons	£16	£18.80
82-97-1531	MouseMan 96 - 9-pin Serial, 3 buttons, faster for Win	£29	£34.08
82-97-0202	Pilot Trackball - 9-pin serial, 2 buttons, 200dpi	£23	£27.03
82-97-1317	Trackman Live - 9-pin serial, 3 buttons, 400dpi	£102	£119.85
82-97-1315	Trackman Portable - 9-pin serial, 3 buttons, 200dpi	£30	£35.25
82-97-1319	Trackman Visto - 9-pin serial, 3 buttons, 320dpi	£42	£49.35
82-97-1313	Trackman Voyager - 9-pin serial, 3 buttons, 250dpi	£45	£52.88
82-97-1395	Trackman Marble - 3 buttons, marble infra-red tech	£44	£51.70



SMC
COMPUTERS

PRINT
All in One
COPY SCAN



HP All-In-One

Part No	Make & Model	ex VAT	inc VAT
99-28-3590	HP OfficeJet Pro 590 Colour Printer/Copier/Fax/Scanner 600x300dpi colour printing, 600x600dpi mono printing, A4 copier with digital zoom, 300dpi optical mono scanner, includes software & OCR.	£345	£405.38
99-28-3050	HP OfficeJet Pro 1150C Colour Printer/Copier/Scanner 600x300dpi colour printing, 600x600dpi mono printing, A4 copier with digital zoom, 300dpi optical 24bit colour scanning, includes software & OCR.	£495	£581.63

SMC gets your message across....

At SMC we believe in getting our message across. You too can get your message seen with a printer from SMC. We aim for quality in everything that we do and our range of quality printers is the best you'll find anywhere. SMC will help you achieve the kind of quality you want others to see, so that you, too, can look good in print.



Epson Scanners

Part No	Make & Model	ex VAT	inc VAT
97-93-0507	Epson GTX5000 - Parallel interface, Flatbed, 24-bit colour, A4, 1200/300dpi Software and OCR package	£184	£216.20
97-93-0503	Epson GTX5000 - SCSI interface-ISA SCSI Controller, Flatbed, 24-bit colour, A4, 1200/300dpi, Software and OCR package	£242	£284.35
97-93-0857	Epson GTX8500 - Parallel interface, Flatbed, 30-bit colour, A4, 1600/400dpi, Software and OCR package	£369	£433.58
97-93-0853	Epson GTX8500 - SCSI interface-ISA SCSI Controller, Flatbed, 30-bit colour, A4, 1600/400dpi, Software and OCR package	£389	£457.08
97-93-0855	Epson GT18500, SCSI interface-ISA SCSI Controller, Flatbed, 30-bit colour, A4, 1600/400dpi, Adobe PhotoShop Full Version	£465	£546.38
97-93-0957	Epson GTX9500 - Parallel interface, Flatbed, 36-bit colour, A4, 2400/600dpi Software and OCR package	£439	£515.83
97-93-0953	Epson GTX9500 - SCSI interface-ISA SCSI Controller, Flatbed, 36-bit colour, A4, 2400/600dpi, Software and OCR package	£465	£546.38
97-93-0955	Epson GT19500- SCSI interface-ISA SCSI Controller, Flatbed, 36-bit colour, A4, 2400/600dpi, Adobe PhotoShop Full Version	£529	£621.58

HP Scanners

Part No	Make & Model	ex VAT	inc VAT
97-28-0050	HP ScanJet 5S - Parallel interface, pass-thru sheet feed, 24bit colour A4, 600/300dpi, software and OCR.	£133	£156.28
97-28-0055	HP Scanjet 5P, 1200/300dpi, full A4 24bit colour, inc. SCSI controller card, cables, OCR and software.	£148	£173.90
97-28-6100	HP Scanjet 6100C - 2400/600dpi, full A4 30bit colour, inc. SCSI controller card, cables, OCR and software. Also includes 35mm adaptor.	£444	£521.70

Logitech Scanners

Part No	Make & Model	ex VAT	inc VAT
97-97-0606	Scanman Color 2000, Parallel interface, Windows '95 Only, 400dpi, 24-Bit colour handheld, software & OCR.	£62	£72.85
97-97-0902	Logitech PageScan Colour Pro- Parallel, 24-bit colour, 400dpi, Software and OCR, Win'95 only, Without Feeder.	£129	£151.58
97-97-0910	Logitech PageScan Colour Pro- Parallel, 24-bit colour, 400dpi, Software and OCR, Win'95 only, With Feeder. 1600Dpi with Software	£159	£186.83

PRINTERS & SCANNERS

SMC
COMPUTERS

Dot Matrix Printers

Part No	Make & Model	ex VAT	inc VAT
Epson			
99-93-0131	Epson LX300 - 80 columns, 9 pin, 264cps, 4Kb Buffer	£95	£111.63
99-93-0137	Epson LX1050+ - 136 columns, 9 pin, 240cps, 4Kb Buffer	£185	£217.38
99-93-0133	Epson FX870 - 80 columns, 9 pin, 342cps, 24Kb Buffer	£239	£280.83
99-93-0135	Epson FX1170 - 136 columns, 9 pin, 342cps, 24Kb Buffer	£299	£351.33
99-93-0139	Epson FX2170 - 136 columns, 18 pin, 440cps, 64Kb Buffer	£369	£433.58
99-93-0311	Epson LQ300 - 80 columns, 24 pin, 240cps, 8Kb Buffer	£112	£131.60
99-93-0313	Epson LQ570+ - 80 columns, 24 pin, 269cps, 8Kb Buffer	£207	£243.23
99-93-0315	Epson LQ870 - 80 columns, 24 pin, 330cps, 8Kb Buffer	£365	£428.88
99-93-0322	Epson LQ2070 - 136 columns, 24 pin, 330cps, 64Kb Buffer	£319	£374.83
99-93-0320	Epson LQ2170 - 136 columns, 24 pin, 440cps, 64Kb Buffer	£449	£527.58
Panasonic			
99-57-1150	Panasonic KXP1150 - 80 columns, 9 pin, 240cps, 4Kb Buffer	£89	£104.58
99-57-2023	Panasonic KXP2023 - 80 columns, 24 pin, 192cps, 14Kb Buffer	£112	£131.60
99-57-3626	Panasonic KXP3626 - 136 columns, 24 pin, 300cps, 40Kb Buffer	£255	£299.63

Inkjet Printers

Part No	Make & Model	ex VAT	inc VAT
Epson			
99-93-5132	Epson Stylus 200 - 720dpi, 3ppm	£104	£122.20
99-93-5130	Epson Stylus Color 300 - 720dpi, 3ppm	£107	£125.73
99-93-5131	Epson Stylus 1000 - 360dpi, 180cps, A3	£289	£39.58
99-93-5153	Epson Stylus Pro XL+(A3) - 720dpi, 3ppm	£433	£508.78
99-93-5140	Epson Stylus Color 400 - 720 dpi, 4ppm	£133	£156.28
99-93-5160	Epson Stylus Color 600 - 1440 dpi, 6ppm	£185	£217.38
99-93-5180	Epson Stylus Color 800 - 1440 dpi, 8ppm	£279	£327.83
99-93-5252	Epson Stylus Color 1520 - 1440 dpi, 800cps LQ, A3	£555	£652.13
99-93-5191	Epson Stylus Photo - 720dpi, 1ppm	£292	£343.10
99-95-5300	Epson Stylus Color 3000 - 1440 dpi, A2	£1099	£1291.32
Hewlett Packard			
99-28-5034	HP DeskJet 340 - 600x300dpi, 2ppm	£139	£163.33
99-28-5042	HP DeskJet 400L - 600x300dpi, 3ppm	£88	£103.40
99-28-5067	HP DeskJet 670C - 600dpi, 4ppm	£119	£139.83
99-28-5069	HP DeskJet 690C+ - 600dpi, 5ppm	£155	£182.13
99-28-5082	HP DeskJet 820Cxi - 600dpi, 5ppm	£154	£180.95
99-28-5087	HP DeskJet 870Cxi - 600dpi, 7ppm	£199	£233.83
99-28-5160	HP DeskJet 1600C - 600dpi, 8ppm	£839	£985.83
99-28-5164	HP DeskJet 1600CN - 600dpi, 8ppm	£1065	£1251.38
99-28-5168	HP DeskJet 1600CM - 600dpi, 8ppm	£1239	£1455.83
Both the CN and CM models are Network Ready, The CM is Postscript Ready.			
Canon			
99-91-5030	Canon BJ30 (cream) - 720 x360dpi, 1.7ppm	£124	£145.70
99-91-5070	Canon BJC70 (cream) - 720x360dpi, 3ppm	£142	£166.85
99-91-5150	Canon BJC150 - 360dpi, 0.3-0.8ppm	£99	£116.33
99-91-5240	Canon BJC240 - 720x360dpi, 3.4ppm	£105	£123.38
99-91-5330	Canon BJC300 - 360dpi, 300cps	£389	£457.08
99-91-6420	Canon BJC4200 - 720 x360dpi, 4.5ppm	£135	£158.63
99-91-6455	Canon BJC-4550 720x 360dpi, 4.8ppm	£239	£280.83
99-91-5620	Canon BJC620 - 720dpi, 1.87-2.14ppm	£169	£198.58
99-91-5800	Canon BJC800 - 360dpi, 170cps	£899	£1056.33
99-91-6550	Canon BJC5500 - 360dpi, 0.8ppm, max A2	£479	£562.83

Colour Printer Ink Cartridge Guide:

■ ■ ■ ■ One chamber, ■ ■ ■ ■ Two chambers, ■ ■ ■ ■ Four chambers
All quoted print speeds may vary depending upon configuration and print settings.



COLOR
IMAGING
EPSON

Laser Printers

Part No	Make & Model	ex VAT	inc VAT
Hewlett Packard			
99-28-7442	Hewlett Packard- 4M 600dpi, 16ppm	£1675	£1968.13
99-28-7451	Hewlett Packard- 4V 600dpi, 16ppm	£1159	£1361.83
99-28-7522	Hewlett Packard -5M 600dpi, 12ppm	£969	£1138.58
99-28-7524	Hewlett Packard- 5N 600dpi, 12ppm, 10 BaseT	£829	£974.08
99-28-7500	Hewlett Packard- 5 600dpi, 12ppm	£655	£769.63
99-28-7555	Hewlett Packard- 5Si 600dpi, 24ppm	£1639	£1925.83
99-28-7560	Hewlett Packard- 5SiMX 600dpi, 24ppm, Network	£2299	£2701.33
99-28-7565	Hewlett Packard- 5SiNX 600dpi, 24ppm	£1779	£2090.33
99-28-7570	Hewlett Packard- Colour Laserjet 5	£2729	£3206.58
99-28-7610	Hewlett Packard- 6L 600dpi, 6ppm (replaces HP5L)	£229	£269.08
99-28-7631	Hewlett Packard -6MP 600dpi, 8ppm	£575	£675.63
99-28-7650	Hewlett Packard- 6P 600dpi, 8ppm	£465	£546.38
Canon			
99-91-7173	Canon LBP1260+ - 600dpi, 12ppm	£699	£821.33
99-91-7155	Canon LBP465 600dpi x 600dpi, 4ppm	£185	£217.38
Epson			
99-93-7151	Epson EPL5500 - 600dpi, 6ppm	£274	£321.95
99-93-7120	Epson EPL-N1200 - 600dpi, 12ppm	£589	£692.08
99-93-7191	Epson EPL9000 600dpi x 600dpi, 8ppm	£579	£680.33
99-93-7200	Epson EPL-N2000 - 600dpi, 20ppm A4, 11ppm A3	£1275	£1498.13
Brother			
99-90-0073	Brother HL730 - 300dpi, 6ppm	£218	£256.15
99-90-0076	Brother HL760 - 600dpi, 6ppm	£239	£280.83
99-90-7605	Brother HL760 - 600dpi, 6ppm, 5Mb Mem	£285	£334.83
99-90-0126	Brother HL1260 - 600dpi, 12ppm	£636	£747.30
OKI			
99-93-9600	Oki OL600EX - 600dpi, 6ppm	£225	£264.38
99-93-9610	Oki OL610EX - 600dpi, 6ppm	£272	£319.60
99-93-9810	Oki OL810EX - 600dpi, 8ppm	£399	£468.83
Panasonic			
99-57-6100	Panasonic KXP6100GDI - 300dpi, 6ppm	£179	£210.33
99-57-6150	Panasonic KXP6150 - 300dpi, 6ppm	£269	£316.08

EPSON Film Scanners

Part No	Make & Model	ex VAT	inc VAT
Film Scanners			
97-93-0201	Epson FilmScan 200, 35mm film scanner, SCSI interface	£369	£433.58
This product is supplied with an interface card, cables and software. It is an external device and supports negative and positive scanning at 1200x2400 dpi, max 4800 dpi - 30 bit colour. Optional film (APS) holder.			
97-93-0235	Epson FilmScan 200 Aps Holder, film cartridge holder for batch scanning	£85	£99.87

CHECK OUT INK,
TONER & SUPPORT
PACKS ON PAGE 26



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SMC has always aimed to provide a full range of products, though it doesn't always make sense to stock products that we can only justify doing, "because everyone else does them". Our range of software was carefully chosen to give the best titles available. Enjoy.



Cinemanía 97
(Edutainment)
01-50-7047
£19 £22.33 Inc.VAT

Front Page 97
(Application)
01-50-7155
£115 £135.13 Inc.VAT

Money 97
(Application)
01-50-9307
£19 £22.33 Inc.VAT

Bookshelf
(Edutainment)
01-50-5213
£55 £64.63 Inc.VAT

05-50-9507 **£99.00** £116.33
Must be purchased with a new Harddrive or Motherboard & Harddrive.
No support is offered by Microsoft with Service Release 2.

PowerPoint 97
(Application)
01-50-3355
£222 £260.85 Inc.VAT

Microsoft®

MICROSOFT WINDOWS '95 Release 2 (OSR2).

The latest version of the popular operating system for IBM and compatible PC's. Full Plug'n'Play with graphical interface, Drag'n'Drop with simple user friendly interface. Whole list of new features which include:

- FAT32 Support for drives upto 2Tb, more efficient disk use
- Better Hardware Support
- Direct X ver.2 Multimedia Graphics Driver
- Enhanced Multimedia Support:-
Direct 3D and direct support for MMX
- New Internet Tools, Includes Explorer 3.
- Internet Mailing News
- Net Meeting
- Drivespace update for harddisk compression

Age of Empires
(Edutainment)
05-50-0131
£25 £29.38 Inc.VAT

LIMITED OFFER
WHILE STOCKS LAST

Edutainment

Part No	Description	ex VAT	inc VAT	ex VAT	inc VAT
MULTIMEDIA EDUCATIONAL					
MICROSOFT		3.5" FLOPPY		CD-ROM	
05-50-5381	500 Nations			£19	£22.33
05-95-5209	Art Gallery			£33	£38.78
05-50-5213	Composer Collection			£33	£38.78
05-95-5217	Dangerous Creatures			£25	£29.38
05-50-5219	Dinosaurs			£22	£25.85
05-50-0114	Encarta 98 (British edition)-Win 95			£32	£37.60
05-50-0115	Encarta 98 Deluxe(British edition)-Win 95			£49	£57.58
05-50-0117	World Atlas 98-Win 95			£32	£37.60
05-50-7103	Musical Instruments			£19	£22.33
05-95-7151	Oceans			£19	£22.33
MULTIMEDIA GENERAL					
MICROSOFT					
05-50-0122	Autoroute Express GB 98- Win 95			£39	£43.48
05-50-0121	Autoroute Express Europe 98-Win 95			£39	£43.48
05-95-5213	Bookshelf			£55	£64.63
05-95-7047	Cinemanía 97			£19	£22.33
05-50-7111	Home Cooking With Master Chef			£19	£22.33
05-50-7151	Wine Guide			£19	£22.33
MULTIMEDIA GAMES					
MICROSOFT					
01-50-5131	Arcade	£13	£15.28		
05-95-7535	Fury 3			£26	£30.55
05-50-0175	Chaos Island-Win 95			£19	£22.33
05-50-0131	Age of Empires-Win 95			£25	£29.38
05-50-7131	Flight Simulator 5.1			£28	£32.90
05-50-0135	Flight Simulator 98-Win 95			£32	£37.60



Utilities

Part No	Description	ex VAT	inc VAT	ex VAT	inc VAT
MICROSOFT		3.5" FLOPPY		CD-ROM	
Dr. SOLOMON'S					
01-93-9305	Anti-Virus Toolkit* - WIN 95	£65	£76.38		
01-93-9303	Anti-Virus Toolkit* - Windows	£68	£79.90		
01-93-9307	Anti-Virus Toolkit* - Windows NT	£69	£81.08		
SPECIAL UTILITIES					
NORTON					
01-95-9103	Anti-Virus - Windows	£94	£110.45		
01-95-9105	Anti-Virus - WIN 95	£44	£51.70		
05-95-0135	Navigator 95			£72	£84.60
01-95-0103	Utilities V8	£83	£97.53		
01-95-0105	Utilities - WIN 95	£83	£97.53		
05-95-9060	Utilities - WIN 95			£55	£64.63

LICENSE PACKS AVAILABLE FOR THE ANTI-VIRUS TOOLKIT. PLEASE CALL.
*Version supplied has 4 quarterly up dates FREE OF CHARGE.

Business Applications

Part No	Description	ex VAT	inc VAT	ex VAT	inc VAT
MICROSOFT		3.5" FLOPPY		CD-ROM	
05-50-9297	Home Essentials 97			£79	£92.83
01-50-3155	WORD 97 - WIN 95			£222	£260.85
01-50-3153	WORD V6	£224	£263.20		
01-05-3175	Works for Windows 95	£73	£85.78		
01-05-3173	Works for Windows 3.1x	£74	£86.95		
01-50-3133	Office V4.2			£325	£381.88
05-50-3113	Office V4.2			£325	£381.88
05-50-3117	Office 97 - WIN 95			£295	£346.63
05-50-3137	UPGRADE - Office Std - Office 97 (CCP)			£157	£184.48
05-50-3177	Office Professional 97 - WIN 95			£419	£492.33
05-50-3157	UPGRADE - Office Pro - Office Pro 97 (CCP)			£205	£240.88
05-50-9307	Money 97			£19	£22.33
01-50-3713	Excel V5	£224	£263.20		
01-50-3715	Excel 97 - WIN 95			£225	£264.38
01-50-3753	Access V2.2	£222	£260.85		
01-50-3755	Access 97 - WIN 95			£224	£263.20
01-50-3353	Powerpoint V4	£224	£263.20		
01-50-3355	Powerpoint 97 - WIN 95	£222	£260.85		
01-50-9105	Publisher 97 - WIN 95	£66	£77.55		
01-50-3151	Project V4.1 - WIN 95	£282	£331.35		
01-50-3333	Schedule+	£79	£92.83		
01-50-3335	Schedule+ V7 - WIN 95	£69	£81.08		
05-50-7155	FrontPage 97			£115	£135.13
01-50-9133	Visual Basic Pro V3	£189	£222.08		
05-50-9131	Visual Basic Std V5 - WIN 95			£67	£78.73
05-50-9113	Visual Basic Pro V4 - WIN 95			£319	£374.83
01-50-3775	Visual FoxPro Std V3 - WIN 95	£121	£142.18		
05-50-3313	Visual FoxPro Std V3 - WIN 95			£121	£142.18
LOTUS					
05-91-0107	Smartsuite 97 - WIN 95			£290	£340.75
01-91-0104	Smartsuite V4	£290	£340.75		
05-91-0103	Smartsuite V4			£290	£340.75
01-91-0112	Organiser V2.1	£59	£69.33		
COREL					
05-95-0517	Quattro Pro V7 - WIN 95			£46	£54.05
05-95-6061	Wordperfect Suite 6.1 Win 3.1x			£159	£186.83
05-95-0505	Wordperfect Suite 7 - WIN 95			£155	£182.13

Operating Systems

Part No	Description	ex VAT	inc VAT	ex VAT	inc VAT
MICROSOFT		3.5" FLOPPY		CD-ROM	
01-50-1957	Windows '95 Upgrade	£59	£69.33		
01-50-9509	Windows '95 Upgrade			£59	£69.33
05-50-9531	Windows '95 3 in 1 Upgrade			£65	£76.38
01-50-9503	Windows '95 - Full Version	£129	£151.58		
01-50-9507	Windows '95 V2 - Full Version			£99*	£116.33
01-50-9503	Windows 3.11	£65	£76.38		
01-50-9503	Windows NT Version 4 Workstation			£214	£251.45
05-50-1015	Windows NT 3.51 to Ver 4 Upgrade			£99	£116.33

*Must be purchased with a new Harddrive or Motherboard & Harddrive. No MS Support.

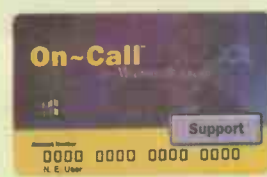
Software support

Part No	Description	ex VAT	inc VAT
ICL/MICROSOFT call support packs for selected Microsoft products			
99-50-0201	2 call pack with 1m free MSN access	£40	£47.00
99-50-0501	5 call pack with 1m free MSN access	£95	£111.63
99-50-1001	10 call pack with 1m free MSN access	£180	£211.50
99-50-1012	10 call pack with 1yr MS Technet CD	£399	£468.83
99-50-2512	25 call pack with 1yr MS Technet CD	£699	£821.33

Applications covered include Win95, Win, DOS 5+, WinNT, Office4, Office Pro 95/97, Office SBE, Money, Autoroute E+, Project, Team Manager, Home Essentials, Product, PPK. Both new and old Software purchases.

Microsoft on call

ICL On-Call for Microsoft users. New or existing users can buy a telephone support pack for all popular Microsoft applications.



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SMC, always looking forward....

At SMC we constantly looking at the future.
We look at what you want , and what we offer.
We look at where to develop and improve.
All this makes us one of the steadiest growing companies in the market.
From that position, we can predict better things for the future.



iiyama

IN PERFECT SYNCH'



iiyama Monitors

Part No	Model	Size	Dot Pitch	Max. Res	ex VAT	inc VAT
68-93-9153	MF-8515G	15"	.28mm	1280x1024	£189	£222.08
68-93-9171	MF-8617T	17"	.26mm	1280x1024	£399	£468.83
68-93-9175	MF-8617ES	17"	.26mm	1280x1024	£435	£511.13
The MF-8617ES has built-in stereo speakers						
68-93-9173	MT-9017T	17"	.25mm grille	1600x1200	£439	£515.83
68-93-9211	MF-8221E	21"	.28mm	1600x1200	£925	£1086.88
68-93-9213	MT-9021T	21"	.30mm grille	1600x1200	£909	£1068.01
68-93-9721	MF-8721T	21"	.27mm	1800x1440	£925	£1086.88
68-93-9215	MT-9221	21"	.28mm grille	1800x1440	£950	£1116.25

All Iiyama monitors now have a 3-year warranty, with the first year on-site.

We still offer Vision Care by Iiyama, a 3-year on-site next day swap out contract (see below).

IIYAMA VISION CARE (Extended Warranty Options)

68-93-9916	15"MF-8515F/G	£15	£17.63
68-93-9917	17"MF-8617E/ES & MT-9017E	£39	£45.83
68-93-9921	21"MF-8221T, MF-8721T & MT-9021T, MT-9221	£49	£57.58

All warranties are Upgrade 3 Year On-Site next day swap-out. Only available when purchasing an Iiyama monitor.

Limited Offer -All 21" Monitors supplied by SMC come with a 3 Year on-site included.

Colour Monitors

Part No	Model	Size	Dot Pitch	Max. Res.	ex VAT	inc VAT
14"						
AOC						
68-90-1405	AOC4VLR	14"	.28mm	1024x768	£109	£128.08
LG (formerly Goldstar)						
68-26-1440	GS44i	14"	.28mm	1024x768	£118	£138.65
PHILIPS						
68-59-1405	104S	14"	.28mm	1024x768	£105	£123.38
68-59-1404	104B	14"	.28mm	1024x768	£119	£139.83
68-59-1403	14C	14"	.28mm	1024x768	£119	£139.83
15"						
AOC						
68-90-1505	AOC5VLR	15"	.28mm	1280x1024	£142	£166.85
LG (formerly Goldstar)						
68-26-1505	GS1505DM	15"	.28mm	1024x768	£181	£212.68
68-26-1557	GS56i	15"	.28mm	1280x1024	£205	£240.88
PHILIPS						
68-59-1505	105S	15"	.28mm	1024x768	£164	£192.70
SONY						
68-71-1515	CPD100SX	15"	.25 Grille	1024x768	£199	£233.83
68-71-1917	CPD100SFT	15"	.25 Grille	1280 x 1024	£233	£373.78
17"						
LG (formerly Goldstar)						
68-26-1776	GS76i	17"	.28mm	1280x1024	£299	£351.33
68-26-1777	GS77i	17"	.28mm	1280x1024	£319	£374.83
LG StudioWorks						
68-26-1778	78I	17"	.26mm	1600x1280	£425	£499.38
PANASONIC						
68-57-1734	TX1734	17"	.27mm	1280x1024	£352	£413.60
SONY						
68-71-1715	CPD200SX	17"	.25mm	1024x768	£369	£433.58
68-71-1717	CPD200SFT	17"	.25mm	1280x1024	£395	£464.13
68-71-1705	GDM17SE2T5	17"	.25mm	1280x1024	£575	£675.63
20"						
LG (formerly Goldstar)						
68-26-2020	GS20i	20"	.28mm	1600x1280	£694	£815.45
PHILIPS						
68-59-2003	20C	20"	.31mm	1280x1024	£615	£722.63
68-59-2004	2008	20"	.28mm	1280x1024	£669	£786.08
SONY						
68-71-2017	CPD300SFT5	20"	.30mm	1280x1024	£799	£938.83
68-71-2014	GDM20SHT	20"	.25mm	1600x1200	£1539	£1808.33
21"						
PHILIPS						
68-59-2104	2018	21"	.27mm	1600x1200	£849	£997.58

All monitors are Energy Star compliant.



SAMSUNG

Samsung Monitors

Part No	Model	Size	Dot Pitch	Max. Res.	ex VAT	inc VAT
68-95-1401	3Ne	14"	.28mm	1024x768	£118	£138.65
68-95-1501	500s FST	15"	.28mm	30-54KHz	£184	£216.20
68-95-1507	500b FST	15"	.28mm	30-69KHz	£215	£252.63
68-95-1703	700s FST	17"	.28mm	30-69KHz	£365	£428.88
68-95-1701	17GLsi	17"	.26mm	1600x1200	£414	£486.45
68-95-2101	21GLs	21"	.28	1600x1200	£894	£1051.63

14" monitors have a 2 year on-site warranty.

15" monitors upwards have a 3 year on-site warranty.

500s & 700s available with multimedia speakers. Please ask for details.

MultiMedia Monitors

Part No	Model	Size	Dot Pitch	Max. Res.	ex VAT	inc VAT
14"						
LG StudioWorks (including built-in Stereo Speakers)						
68-26-1444	44M	14"	.28mm	1024x768	£152	£178.60
Built-in Stereo amplified speakers						
15"						
LG StudioWorks						
68-26-1556	56M	15"	.28mm	1280x1024	£199	£222.08
Built-in Stereo amplified speakers						
PHILIPS						
68-59-1513	105BR	15"	.28mm	1280x1024	£215	£252.63
P'nP with Built-in Stereo amplified speakers and Microphone						
17"						
LG StudioWorks						
68-26-1783	78M	17"	.26mm	1600x1280	£445	£522.88
Built-in Stereo amplified speakers						
PHILIPS						
68-59-1713	107B	17"	.28mm	1280x1024	£369	£433.58
Inc. CustoMax software and Built-in Stereo sound						
68-59-1703	107BR	17"	.26mm	1280x1024	£438	£514.65
Built-in Stereo amplified speakers and Microphone.						
21"						
PHILIPS						
68-59-2113	201BR	21"	.26mm	1600 x 1200	£1469	£1726.08
Built-in Stereo amplified speakers and Microphone						
68-59-2103	201BR	21"	.26mm	1600 x 1200	£1649	£1937.58
Advanced Colour, Built-in Stereo amplified speakers and Microphone						
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- Pentium™ 166MMX
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- 2Mb Matrox Graphics
- 8x EIDE CD-ROM
- 1.44Mb Floppy Drive
- Win'95 Keyboard
- MS Serial Mouse

**SOFTWARE
INCLUDED**

- Windows '95
- Disney's Toy Story
- Moto Racer
- Kai's Power Goo SE.

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System Processor Options - Please add VAT

Processor	166MHz	200MHz	233MHz
Price	£722	£786	£852

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SYSTEM CONFIGURATION

- ATX Midi Case
- Pentium™ ATX Motherboard
- Pentium 166MMX Heat Sink with Fan
- 32Mb EDO Memory
- 2.0Gb UIDE Hard drive
- 2Mb Matrox Graphics
- 16x EIDE CD-ROM
- 1.44Mb Floppy Drive
- Win'95 PS/2 Keyboard
- MS PS/2 Mouse
- 33.6Kbps Fax Modem

SOFTWARE INCLUDED

- MicroGrafx: Picture Publisher 7, Simply 3D V:2
- Serif Page Plus V:4.0
- Compcore Softpeg
- Netscape Navigator
- VReam Wir!
- Supervoice V:2.2
- 30-Day Internet Trials
- CompuServe, AOL
- Netcom, Virgin Net

JUST A FEW PRICE OPTIONS

System Processor Options - Please add VAT

Processor	166MHz	200MHz	233MHz
Price	£900	£964	£1030



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The Pentium II processor is the newest technology from Intel, running off a daughter board instead of directly on the motherboard allowing for greater access to the processor and larger cache. Based on the latest ATX technology this machine is capable of handling any of today's demanding tasks. Whether you are looking at a powerful PC for Video or Multimedia or a valuable addition to your network you will find this machine more than capable. Carefully matched with a range of products to take full advantage of the processing power available, you'll find this machine is a real front runner.



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- 3.0Gb UIDE Hard drive
- 4Mb Matrox Graphics
- 24x EIDE CD-ROM
- 1.44Mb Floppy Drive
- Win'95 Ps/2 Keyboard
- MS PS/2 Mouse
- 33.6Kbps Fax Modem

SOFTWARE INCLUDED

- MicroGrafx:
 - Picture Publisher 7
 - Simply 3D V:2
- Kai's Power Tools
- Compcore Softpeg
- Netscape Navigator
- VReam Wirl
- Supervoice V:2.2
- 30-Day Internet Trials
- Compuserve, AOL
- Netcom, Virgin Net



JUST A FEW PRICE OPTIONS

System Processor Options - Please add VAT			
Processor	233MHz	266MHz	300MHz
Price	£1190	£1294	£1540

Price includes 14" Colour SVGA Monitor.



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YOUR CONFIGURATION GUIDE

Case Type	<input type="checkbox"/> Desktop	<input type="checkbox"/> Mini Tower	<input type="checkbox"/> Full Tower	<input type="checkbox"/> ATX Desktop	<input type="checkbox"/> ATX Midi Tower	<input type="checkbox"/> ATX Full Tower
Processor	<input checked="" type="checkbox"/> 486	<input type="checkbox"/> DX2-66	<input checked="" type="checkbox"/> Pentium	<input type="checkbox"/> P166MMX	<input type="checkbox"/> P200MMX	<input type="checkbox"/> P233MMX
	<input checked="" type="checkbox"/> Pentium Pro	<input type="checkbox"/> Pro 200	<input checked="" type="checkbox"/> Pentium II	<input type="checkbox"/> PII-233	<input type="checkbox"/> PII-266	<input type="checkbox"/> PII-300
Memory Size	<input type="checkbox"/> 8Mb	<input type="checkbox"/> 16Mb	<input type="checkbox"/> 32Mb	<input type="checkbox"/> 64Mb	<input type="checkbox"/> 128Mb	
Memory Type	<input type="checkbox"/> Non-Parity	<input type="checkbox"/> Parity	<input type="checkbox"/> EDO	<input type="checkbox"/> SDRAM		
Hard Drive	<input checked="" type="checkbox"/> EIDE	<input type="checkbox"/> 2.0Gb	<input type="checkbox"/> 2.5Gb	<input type="checkbox"/> 3.0Gb	<input type="checkbox"/> 4.3Gb	
	<input checked="" type="checkbox"/> SCSI	<input type="checkbox"/> 2.0Gb	<input type="checkbox"/> 4.3Gb	<input type="checkbox"/> 9.0Gb		
CD-ROM Drive	<input checked="" type="checkbox"/> EIDE (Standard)	<input type="checkbox"/> 8 Speed	<input type="checkbox"/> 16 Speed	<input type="checkbox"/> 24 Speed	<input checked="" type="checkbox"/> SCSI	<input type="checkbox"/> 12 Speed
Floppy Drive	<input checked="" type="checkbox"/> 3.5" (fitted as standard)					
Graphics Card	<input type="checkbox"/> 1Mb	<input type="checkbox"/> 2Mb	<input type="checkbox"/> 4Mb	<input type="checkbox"/> 8Mb		
	<input type="checkbox"/> DRAM	<input type="checkbox"/> EDO RAM	<input type="checkbox"/> VRAM	<input type="checkbox"/> SGRAM	<input type="checkbox"/> WRAM	<input type="checkbox"/> Other
Sound Card	<input type="checkbox"/> SB16 Value	<input type="checkbox"/> AWE64 Value	<input type="checkbox"/> AWE64 Gold			
Speakers	<input type="checkbox"/> 10 Watt	<input checked="" type="checkbox"/> Additional		<input type="checkbox"/> Sub Woofer	<input type="checkbox"/> Other	
Modem	<input type="checkbox"/> 28.8Kb/s	<input type="checkbox"/> 33.6Kb/s	<input type="checkbox"/> 56Kb/s	<input checked="" type="checkbox"/> Fixture	<input type="checkbox"/> Internal	<input type="checkbox"/> External
Monitor	<input type="checkbox"/> 14"	<input type="checkbox"/> 15"	<input type="checkbox"/> 17"	<input type="checkbox"/> 20"	<input type="checkbox"/> 21"	<input type="checkbox"/> Other
Keyboard	<input type="checkbox"/> Windows '95 (105 key)			<input type="checkbox"/> Cherry (105 key)		
Op. System	<input type="checkbox"/> Windows 95 on CD Rom(standard)			<input type="checkbox"/> Dos 6.22 & Windows 3.11)		
Printer	<input type="checkbox"/> Mono	<input type="checkbox"/> Colour	<input type="checkbox"/> Inkjet	<input type="checkbox"/> Dot Matrix	<input type="checkbox"/> Laser	
Other Options	_____					

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A high speed 24x MAX CD-ROM is fitted in all Hurricane PC's. Most other competitors are still only shipping 12x or 16x drives.

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All Hurricane PCs come with a powerful Aztech Waverider 32 Wavetable Soundcard, with built-in 3D special effects.

ON-SITE WARRANTY

All systems come with a 1 year On-site Warranty provided by Domestic & General, one of the UK's largest insurance companies.

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Hurricane prices include either a 14" or 15" .28 Dot Pitch S-VGA Colour monitor. To upgrade from a 14" to a 15" monitor add £50+VAT. To upgrade from a 15" to a 17" monitor, add £170+VAT.

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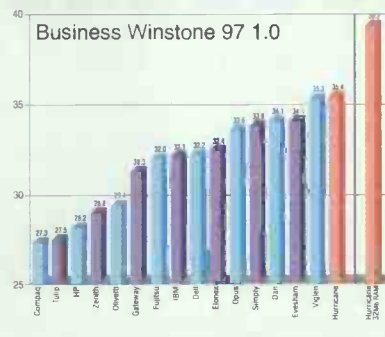


We are proud to offer the new Silica Hurricane II PC range. As the name suggests, these machines have awesome speed and out power almost every other PC currently on the market. The price to performance ratio is stunning. You only have to look at the specifications to see for yourself.

PC MAGAZINE BENCHMARKS

In the May 97 issue, Ziff Davis UK PC Magazine tested 15 different 16Mb 66MMX class PCs. The Graphics WinMark 97 test evaluates a PC's VGA performance. The AVERAGE performance of all 15 PCs was 41.2. The best was 27.3. The highest was 53.5. The Hurricane's score is 54.2 with 3Mb RAM and 58.0 with 32Mb RAM (based on Intel 166MMX).

The Business Winstone 97 v1.0 benchmark gives the OVERALL performance of a complete PC system. The Hurricane P166MMX performance is 35.4 with 16Mb RAM) and 39.2 (with 32Mb RAM). Hurricane is higher than all of the 15 PCs tested and is a full 12% faster than the average score of 31.4.



Processor Type	S-VGA Monitor	Hard Drive	CD-ROM Speed	16Mb EDO RAM	32Mb EDO RAM
AMD K5 100Mhz	14" .28 Dot Pitch	3.6Gb EIDE	24 Speed	£749 + VAT - £880.08	£819 + VAT - £962.33
AMD K5 133Mhz	14" .28 Dot Pitch	3.6Gb EIDE	24 Speed	£799 + VAT - £938.83	£869 + VAT - £1,021.08
INTEL 133Mhz	14" .28 Dot Pitch	3.6Gb EIDE	24 Speed	£849 + VAT - £997.58	£919 + VAT - £1,079.83
CYRIX M1 150+	14" .28 Dot Pitch	3.6Gb EIDE	24 Speed	£849 + VAT - £997.58	£919 + VAT - £1,079.83
CYRIX M1 166+	15" .28 Dot Pitch	3.6Gb EIDE	24 Speed	£899 + VAT - £1,056.33	£969 + VAT - £1,138.58
AMD K5 166Mhz	15" .28 Dot Pitch	3.6Gb EIDE	24 Speed	£899 + VAT - £1,056.33	£969 + VAT - £1,138.58

Processor Type	S-VGA Monitor	Hard Drive	CD-ROM Speed	16Mb EDO RAM	32Mb EDO RAM
CYRIX M2 166 MMX	15" .28 Dot Pitch	3.6Gb EIDE	24 Speed	£929 + VAT - £1,091.58	£999 + VAT - £1,173.83
AMD K6 166 MMX	15" .28 Dot Pitch	3.6Gb EIDE	24 Speed	£979 + VAT - £1,150.33	£1,049 + VAT - £1,232.58
INTEL 166 MMX	15" .28 Dot Pitch	3.6Gb EIDE	24 Speed	£1,029 + VAT - £1,209.08	£1,099 + VAT - £1,291.33
AMD K6 200 MMX	15" .28 Dot Pitch	4.3Gb EIDE	24 Speed	N/A	£1,149 + VAT - £1,350.08
INTEL 200 MMX	15" .28 Dot Pitch	4.3Gb EIDE	24 Speed	N/A	£1,199 + VAT - £1,408.83
AMD K6 233 MMX	15" .28 Dot Pitch	4.3Gb EIDE	24 Speed	N/A	£1,249 + VAT - £1,467.58
INTEL 233 MMX	15" .28 Dot Pitch	4.3Gb EIDE	24 Speed	N/A	£1,349 + VAT - £1,585.08

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79151	9	320p	100p	GEAR AUDIO v1.0 - Mix your own audio CDs
71633	9	240p	100p	ITERATIONS v23.00 - Superb fractal generator
36159	9	210p	100p	LVIEW PRO v2.0 - Edit & enhance images
11831	D	200p	100p	COOPER GRAPHICS - 1800 small PCX clips
50356	9	170p	100p	GRAPHIC WORKSHOP v1.1X - Image processor
23633	W	170p	100p	CRYSTAL WALLS v1.0 - Animated Wallpaper
78142	W	170p	100p	WINGROOVE - Exceptionally good Midi player
26973	D	120p	100p	FAIL - Funny & bloody driving test animation
50355	9	90p	90p	ACDSEE v2.1 - Excellent Win95 picture viewer
05880	W	80p	80p	GOLDWAVE v2.10 - Powerful sound processor
02793	W	70p	70p	CHARTIST v1.6A - Very attractive chart maker
88026	D	50p	50p	VIVALDI - FOUR SEASONS - Complete in MID

GENERAL INTEREST

71547	9	N/A	300p	IMMERSE - 200 book Baha'i faith library
30639	W	800p	100p	HOME PLANET v2.0 - Astronomy & Space
66640	W	900p	100p	BIBLE v3.0 - Comprehensive Bible study suite
30641	W	370p	100p	ALTERNATIVE WAY OF LIFE - Worth reading
67849	9	320p	100p	DC TRAINER - Learn circuit analysis
63744	9	310p	100p	MOZART v2.0 - Music processor & editor
67710	9	280p	100p	SKYMAP v3.1 - High quality planetarium
57819	9	240p	100p	WORDEXPRESS v2.02 - Superb word processor
62468	W	210p	100p	NETWORK VERSE ANTHOLOGY - Very good
12355	D	200p	100p	EASY BASE v11.2 - Powerful database
13147	W	190p	100p	CYBERTART v2.5A - Computerised Tarot
13998	D	140p	100p	DECAMERON BY BOCCACCIO - Complete text
13040	W	90p	90p	KITH & KIN v3.11 - Genealogy for Windows
35681	9	80p	80p	COMPUTA-PICKA v4.10 - UK Lottery system
25253	D	70p	70p	KABBALAH - Text of Prophecy of the Chariot
43566	9	60p	60p	LORENZIAN WHEEL v1.1 - Chaos demonstrator
08775	D	60p	60p	BLAZON v1.6 - Heraldic design program
08581	D	60p	60p	POWERCHESS v5.3 - Old but good chess player
25712	W	70p	70p	MYSTERIES OF THE ORIENT - Ancient puzzles
02792	D	60p	60p	BREEZE v5.6 - An outstanding word processor
04962	D	50p	50p	BY THE NUMBERS v5.3 - Learn numerology
74454	W	50p	50p	BIP OSCILLOSCOPE v3.01 - Needs soundcard
22684	D	40p	40p	EFF'S INTERNET GUIDE - Big Dummies update
17777	D	40p	40p	DANDYLINES - 1000 good philosophical quotes
15540	D	40p	40p	MEDITATIONS - Philosophical wisdom
22869	D	40p	40p	MYTHS ABOUT THE BIBLE - Little known facts
36058	D	30p	30p	FACING LIFE FEARLESSLY - Worth reading

FREE EXTRA FILES

If you are ordering files on CD, please add up to five of any these files listed below if they are of interest to you.

- 76260 9 FONTPEEPER32 - Top class font previewer
- 36421 9 BILL GATES & MS - Revealing information
- 88064 9 CANNABINATIC - Attractive & Informative SS
- 79498 9 ANICURS - 250 good animated cursors
- 57308 D QUAKE v1.06 - A new improved version
- 57353 9 HAPPY ICONS v3.2 - 2500 icons neatly classified
- 79148 9 YEAH WRITE v1.1.3 - Word processor and more
- 78202 9 DIRECTX v5.0 - Improved and reliable version
- 10012 D DOOM v1.9 - The final enhanced v3 version
- 59559 9 CYBERMIND v1.0 - Game for deep thinkers
- 38271 9 WINZIP v6.3 - New final 6.3 enhanced version
- 79150 9 PRINCESS DIANA S/SAVER - 20 pics & sound
- 88024 9 MEMORIAL TO DIANA THEME - Nicely done
- 67858 9 DX-BALL v1.07 - Amiga Megaball breakout game
- 72399 9 ANTHONY SLIDE SHOW - 19 astro photos
- 69858 9 HARDWARE BOOK v1.2 - Useful technical info

SCREEN SAVERS

78588	9	900p	100p	QUAKE - Emulates game scenarios
71623	9	600p	100p	GUINNESS FISH - Unlikely cyclist
79293	9	590p	100p	HEXEN II - Includes all game features
76345	W	320p	100p	IMPRESSIONISM - 40 paintings
61623	W	280p	100p	MEZ v1.2 - 10 Brilliant savers
75043	9	280p	100p	AQUASCAPE - Fishy masterpiece
76342	W	280p	100p	BUDD ICE - Play penguin hockey
76346	9	240p	100p	CYBERGIRLS GALORE - Artistic
61429	W	210p	100p	2ND NATURE - Space fantasy
63469	W	210p	100p	JOHNNY CASTAWAY - Hilarious
36920	W	210p	100p	TASTELESS - Fairly disgusting
79930	9	210p	100p	TIME CRUNCHER - Amazing
35110	W	210p	100p	TREKART GALLERY - For Trekkles
43749	W	210p	100p	INTERMISSION - Opus, Bill & more
50509	W	170p	100p	JACK DANIELS - Nice & peaceful
66515	9	160p	100p	DIVING ADVENTURE - 3D swimming
35982	W	160p	100p	GUINNESS GENIUS - Clever Stuff
79906	9	140p	100p	MASTERGAUGES v1.7 - Very useful
53737	W	140p	100p	SHERMAN'S LAGOON - For kids
67706	9	140p	100p	SAUSAGE - Performing sausages
76351	9	140p	100p	MONSTER TRUCKS - Very noisy
75042	W	120p	100p	HOLYEAR vs TEETHSON - Bloody
79155	9	120p	100p	PARADOXICAL LEADERSHIP
71605	W	100p	100p	BRAS DIRECT - Uplifting
55313	9	80p	80p	WORDS OF WISDOM - Good ones
63327	W	80p	80p	BILLY THE FISH - Viz humour
40612	9	70p	70p	KALEIDOSCOPE 95 - Brilliant
51204	W	70p	70p	FRONTEERS - Bible verses
55145	W	60p	60p	DOPEFISH - Champion fish burper
26571	W	50p	50p	FRENETIC - Endless artistry
19906	W	50p	50p	CHICKENS FROM HELL - Madness
02803	D	60p	60p	DESERT FROG - OOS Classic
27087	W	40p	40p	FOOD FIGHT - Magnificently messy
79329	W	40p	40p	MARVIN THE MARTIAN - Cute

WIN 95 THEMES

78222	210p	100p	ASSAULT ON THE DEATH STAR
89350	360p	100p	VAMPIRE THEME
63110	170p	100p	DANGEROUS CREATURES
70080	170p	100p	ELTON JOHN
75016	280p	100p	HORSEHEAD NEBULA
66501	170p	100p	MADONNA
70099	280p	100p	MONTY PYTHON
63193	280p	100p	NIGHTMARE BEFORE CHRISTMAS
88443	420p	100p	STARFLEET ACADEMY
63144	420p	100p	PHANTOM OF THE OPERA
70089	240p	100p	PRINCESS LEIA - Hotie Carrie Fisher
63766	140p	100p	RIDDLER - Batman Forever
76265	140p	100p	ROCKY HORROR PICTURE SHOW
66514	170p	100p	ROLLING STONES
76225	140p	100p	STAR TREK BORG
76272	140p	100p	STAR TREK TNG
76268	170p	100p	TERMINATOR 2
63194	140p	100p	TOILET THEME
63195	190p	100p	WINNIE THE POOH
63325	120p	100p	X-FILES

NOTE: You require either the MS Plus Pack or the Themes Installer (see utilities section) to use these Themes.

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82251	UNIVERSE OF ADULT GIFS 3
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81879	UNIVERSE OF GIFS
82812	ULTIMATE WIN95 COLLECTION
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81878	UNIVERSE OF FONTS & ICONS
81882	UNIVERSE OF SPACE AND SCI-FI
81883	UNIVERSE OF SOUNDS

USEFUL UTILITIES

78980	9	280p	100p	PUMPKIN DESK BRAIN - Adds extra desktop power
78571	9	280p	100p	DESKTOP-LOK v3.0 - Provides total desktop security
79156	9	240p	100p	WEB TURBO v1.01 - Simplify & speed up I.E. browsing
71112	9	240p	100p	SANDRA v1.1 - Powerful system diagnostics
74870	9	240p	100p	MAGIC MEMORY MONITOR - Control memory usage
47556	9	190p	100p	THUNDERBITE v8.0 - Very powerful anti virus program
76252	9	210p	100p	MACRO MAGIC v2.1 - Automate repetitive tasks
69091	9	210p	100p	FILEBASE v1.01 - Multifunction file manager
62754	9	210p	100p	WINTUNE 97 v1.0 - Performance system benchmarker
72413	9	210p	100p	DRIVER DETECTIVE v1.5 - Control your drivers
75469	9	170p	100p	WINHACKER 95 - Configure the hidden options
12005	W	160p	100p	INFOSPY v2.61 - Windows environment viewer
71152	9	120p	100p	SWITCHEROO v1.0 - Sound event randomizer
65453	9	100p	100p	TECHFACTS 95 v1.4 - Powerful Win95 utility
89323	9	280p	100p	PICTURE PERFECT - Easy DIY screensaver maker
63657	D	80p	80p	DR. HARDWARE - Detailed system analysis
65343	9	80p	80p	REGCLEAN v4.1 - Corrects registry problems
41592	9	80p	80p	CALC95 v3.404 - Scientific & engineering calculator
65264	9	70p	70p	DLL EXPLORER v1.0 - DLL module manager
36051	9	60p	60p	POWER TOYS - Useful Win95 enhancements
76300	9	40p	40p	95EXTRA v2.0 - Useful Win95 enhancements
60537	9	50p	50p	THEMS INSTALLER v1.31 - Alternative to MS-Plus
03367	D	60p	60p	HARD DISK DIRECTOR v5.0 - File manager ++
79229	9	50p	50p	WINSHAPER v1.0 - Make amazing desktop changes
71802	D	40p	40p	CD-ROM CREATOR v2.1 - Emulate CD on HD
65325	9	40p	40p	ERS v1.22 - Win95 emergency recovery system
71137	D	30p	30p	CRACKER EDITOR v1.16 - Extremely useful tool
33067	W	40p	40p	BITMAP SAVER v1.3 - Make your own screensaver
88454	9	240p	100p	DESKTOP BUDDY v2.6 - Good Win95 enhancer

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22899	D	190p	100p	CALIFORNIA DREAM GIRLS - 20 beautiful revelations
33246	D	190p	100p	CELEBRITY PACK - 20 Exposed stars & supermodels
33097	D	50p	50p	DR. SICKOFFS ADULT JOKES - His favourite 1000
91030	D	290p	100p	FUMETTI COLLECTION - Italian comic art
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14231	D	190p	100p	STARTEK FANTASIES - 20 alternative adventures
57975	D	190p	100p	ULTIMATE EXPOSURES - What the butler may have seen

FAVOURITE GAMES

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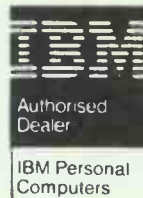
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Compression	
Compression Plus	£202
Crusher! Win32	£225
Greenleaf ArchiveLib 2.1	£210
Fax C++ SDK for Win16/95	£905
Xceed Zip Compression Library	£186
Database	
DISAM96 for Win95	£715
HyperView++	£1034
ProtoGen+ Client/Server Win	£1370
Raima Engine + EADS 4.0	£740
Report Writer Visual Coder	£75
Velocis + EADS (Offer)	£250
Visual SQL	£958
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Ad Oculus Win32 & Win16	£475
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IMSL C Numerical Lib w/Sub	£650
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Linpack.h++ (with support)	£803

VISUAL BASIC ADD-ONS

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PDQComm 3.3	£139
PowerTCP Internet Toolkit	£486
QuickPak VB/J++	£160
Spyworks Pro Subscription 5.0	£199
True DBGrid Pro 5.0	£208
VB Assist 5	£137
VBTools	£99

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CA-Visual Objects 2.0 Std	£82
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Omnis 7 Workgroup Starter	£399
Paradox (Win32) 7.0	£94
Personal Oracle for Win95	£305
PowerBuilder Desktop 5.0	£175
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PowerBASIC DLL Compiler 5.0	£135
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News & Views

RoboHELP 5

The Next Generation Help System

The latest version of Blue Sky's popular help authoring tool makes it even easier to create help systems:

- Total Project Management - an extra pane on the left allows easy navigation and viewing of all files in a Help project
 - Graphic Link View gives a graphical view of a Help project, identifying jumps and popups to and from topics, as well as browse sequences
 - Team Development - Help authors can share the creation of a Help project and track the progress of each other
 - TOC Composer visually creates the Contents Tab of a WinHelp system.
 - Customised Reports including Topic Reference, Topics with Broken Help Links and External Topics
 - One Click Single Source Technology creates WinHelp, HTML-Help, web sites & docs - from a single source
 - Supports All HTML Help Features - interactive table of contents, multi-level indexes, navigation buttons, mid-page jumps, frames, related topics, splash screens, Help-specific HTML pages, hyperlinks, GIF files & MAP files
- RoboHELP 5 Special Edition is also now available with Blue Sky's new native HTML Help authoring tool, RoboHTML.

DotHLP

Help Files Made Easy

DotHLP is probably the easiest Windows Help File Generator available - create your first working Help File in about a minute! Just type in the help text, without worrying about the intricacies of .HLP files.

If you change a context help id, *Jump Integrity* will update all references to it, maintaining the integrity of your help file. DotHLP's IDE makes it easy to manage multiple projects visually. Use any help project as a template for a new project, or pick a standard Colour Scheme. DotHLP includes a built-in word processor, spell checker, import/export of RTF & text, and a macro editor. You can compile for Win16 or Win32 from the same source.

Optimizelt!

Optimise Your Java Code

Optimizelt lets you test and improve the performance of your Java applets, applications or JavaBeans. It goes behind the scene of the Java Virtual Machine and shows how an application uses computer resources. Now you can easily spot the code responsible for excessive memory allocations or inefficient CPU usage. Optimizelt analyses how CPU time is spent on a thread by thread basis, and provides real time data about memory allocations. Optimizelt analyses all Java code used in an application whether the source code is available or not, so you can evaluate third-party building blocks such as JavaBeans.

Delphi2Java

Convert Your Delphi Apps to Java

Delphi2Java converts your entire Delphi application to Java source code (either to an application or an applet) - this includes both your Delphi forms and the Object Pascal source code! 95% of the RTL/SYSUTILS library is fully converted from Delphi to Java, as well as global variables and user defined types.

VISUAL BASIC 5

Visual Studio 97 includes the equivalent edition of Visual Basic 5 as well as Visual C++, J++, FoxPro & InterDev

Visual Basic Enterprise 5.0	£918
Visual Basic Professional 5.0	£378
Visual Basic Learning 5.0	£70
Visual Studio 97 Enterprise	£1125
Visual Studio 97 Professional	£765

ADA COMPILERS

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Janus/Ada 83 Pro Dev Sys	£610

System Level	
WinDK	£487
WinDriver	£570
WinRT Developer's Toolkit	£242
WinSCSI-32	£129
Tools	
BoundsChecker C++Builder	£330
BoundsChecker Visual C++ 5.0	£462
C-Cover	£557
CC-Rider 6.0 (Win32)	£347
Exemplar Setup Toolkit Pro	£130
Thales (MS Basic to C/C++)	£2760

PROGRAMMER'S TOOLS

CASE Tools	
EasyCASE Pro	£694
EasyER/OBJECT	£485
ERwin/ERX	£2784
With Class 97 Enterprise	£619
Help Tools	
AnswerWorks	£388
Doc-to-Help 2.5(Win32)	£299
Documentation Studio	£499
DotHLP Professional	£89
Help Magician Pro 95	£207
HelpSite	£196
HyperText Suite	£292
NextHelp	£131
RoboHELP 5.0	£304
Visual Help Pro 3.1	£156
WinHelp Office 5.0	£426
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Eschalon Setup Desktop with Pro	£175
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C++Builder Client/Server	£1267
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Power++ Professional	£617
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Symantec C++ 7.5	£75
Visual C++ 5.0 Learning Edition	£72
Visual C++ 5.0 Professional	£377
Visual C++ 5.0 Enterprise	£919
VisualAge for C++ 3.5	£309
Watcom C/C++ 11.0	£206



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Direct Buyers' World

The place in *PCW* where you can compare prices on a wide range of hardware and software. The card insert at page 340 marks the start of the section.

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Bytewise Ltd	0171 275 8853	826	Protek	0500 127 498	359
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Evesham Micros	01386 765500	425-440	Tech Direct (Insert)	0181 286 2222	709-740
Extreme Computer	01709 701200	379-384	Technomatic (Insert)	0990 559944	549-612
Fox Computer	0990 744500	367-370	Time Computer	01282 777111	392-3, 409-424
Grey Matter	01364 654 100	830	Tiny Computers	01293 821333	441-451
Gultronics	0171 436 3131	371	Universal Control	01902 28688	390-1
Ice Systems	see advert	408	Watford Elec (insert)	01582 745555	485-548
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Micro Direct	0161 2484848	815			

INPUT DEVICES AND PC ADD-ONS

NEW range to meet all your needs!

ELECTRONE

Points of Sale



Improve productivity and efficiency and increase operator comfort and accuracy at the point of sale with Electrone's unique range of PC enhancement and computer add-on products.

ACK 710 KEYBOARD

Featuring built-in magnetic card reader, spill resistant design and compact size, the 710 fits right between standard keyboards and till keyboards, offering many of the benefits of each.

PRECISECASH KEYBOARD

The POS keyboard with QWERTY keys, 77 programmable keys, full QWERTY typing area, magnetic card reader and barcode port. The complete POS keyboard.



8001 KEYBOARD

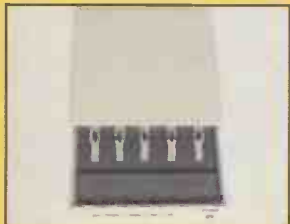
Our most compact POS keyboard, the 8001 packs 105 programmable keys into the smallest footprint. Magnetic card reader option and serial interface option.



BARCODE READERS

Our range includes the latest scanners and laser guns, all with built-in decoder and interface options. Choose from PC keyboard wedge, serial and DEC keyboard wedge.

NEW Product – CF-3CD portable data capture and CCD scanner in one unit!



CASH DRAWER

Our intelligent cash drawer includes as standard serial and parallel interfaces, each with pass-through option with choice of activation codes. The drawer also features a security keylock and front slot for non-cash transactions.



RECEIPT PRINTERS

The compact, stylish receipt and ticket printers offer a choice of 24, 40 and 42 column printing with impact or thermal print mechanisms. All models have built-in power supply option and interface choice.



CUSTOMER DISPLAYS

Our pole display range includes backlit LCD panels with 2 lines of 20 characters and 1 line of 16 characters. Models feature choice of pole height, tilt and swivel display units and serial or parallel interface.

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 High Wycombe, Bucks HP13 5HG
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ELECTRONE

ELECTRONE

General



Because we specialise in input and associated devices our expertise is unrivalled – and, if we don't stock exactly what you need, we'll supply a custom product quickly and at a low cost you'll find hard to believe.

9001 KEYBOARD

The 9001 squeezes 86 keys into the smallest footprint with full travel tactile keys, 17mm key spacing and embedded numeric pad. They don't come much smaller than this!

MINIKB

Occupying less space than an A4 sheet, the MINIKB has 85 full size tactile click keyswitches. Full typing area, function key row and cursor controls. Optional number pad available.

MCK142 PRO

All the keys you'll ever need! Two sets of function keys, enhanced style 102 layout and 24 user-programmable function keys. A great keyboard for terminal emulation.

MICROPADS

Keypads for all applications: numeric pads for notebooks, keyboard replacements, function keypads – we can customise the standard models or make complete custom designs to match your needs exactly.



TRACKBALLS

Our new trackball range features the new infrared Star Track for remote control of presentation, demonstration and any other mouse applications. Two desktop models offer the choice of thumb or finger operations with two enclosure styles. All trackballs can directly replace a serial mouse.



TOUCH SCREENS

Our new touch screen panel clips directly to your existing monitor and, through the supplied serial interface and software, can emulate a mouse for instant touch control of your applications – or use it as a development tool for your own touch screen programmes. Fits 14" and 15" screens. Bonded touch monitors also available.



KEYPORT

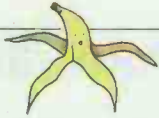
The latest Keyports now include a full PC keyboard wedge interface – just plug into the keyboard port, with or without your keyboard attached, and you're ready to programme your own layout. Software to download programme and design overlay included.



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PRODUCT DIRECTORY

Most products are available from stock for same day shipping. Continuous development means products may vary from illustrations. Call to discuss your custom requirements. All products subject to availability. All trademarks acknowledged.

ChipChat

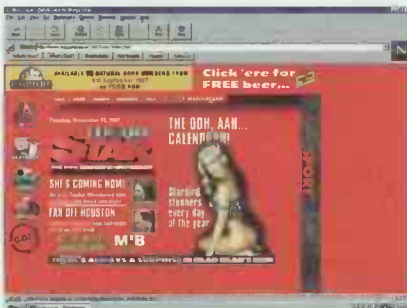


■ In November's Remote Access software group test we printed the wrong contact details for LapLink 7.5. The correct details are: Traveling Software, tel 01344 383232, www.travsoft.com

■ In last month's First Impressions review of the NEC SuperScript 1260 we stated that the expected toner life of this printer is 600 pages at five percent coverage. The actual figure is 6,000 pages at five percent coverage.

■ In last month's Undercover PC group test we printed an incorrect telephone number in the features table for Golf Computers. The correct number is 0800 0720361.

We apologise to our readers and group test participants for any confusion caused by these errors.



Virtual Guest a seedy ROM-Shell

Girls! Are you looking for that special something for your man, off the beaten PC

Caption competition



"Now that's not the first laptop I've put my finger on"

Think you can do better? Email captions@vnu.co.uk or enter via our web site, or write to the usual PCW address with your own captions on a postcard marked "January Caption Compo" before 15th January. We'll print the funniest entry and the winner will receive a £20 book token.

Congratulations to Martin Griffiths, who won November's caption competition with this: "What do you mean? Tuning into Channel 5 has never been easier"

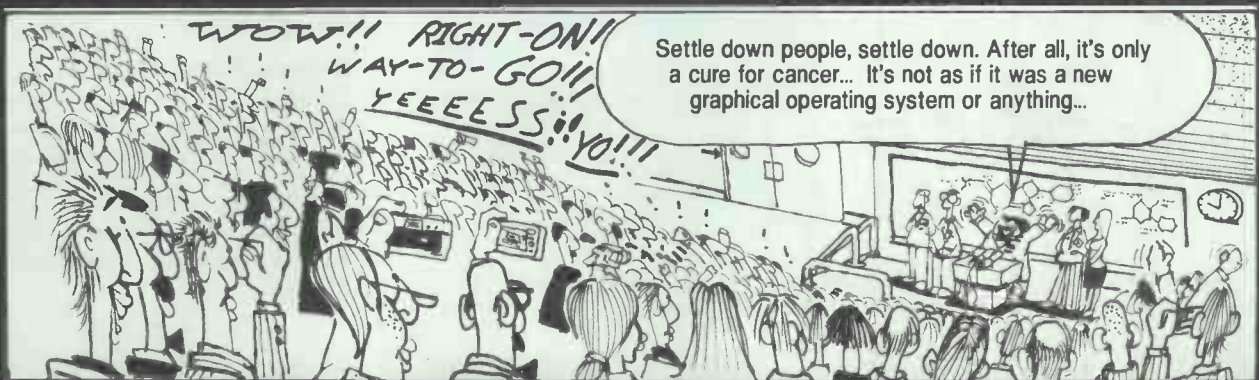


track? Those boffins at the Daily Star have invented a not-so-PC gift for any bloke's PC! The Star is releasing Love Bytes (£19.99) for Christmas, a screensaver sensation that should leave computer eggheads gasping! Buy your man Love Bytes and he'll get his very own "virtual" Page 3 stunner, Jo Guest.

It's easy to mock, PCW readers, but in

fact, Love Bytes is a serious project that should interest anyone keen to explore the symbiotic relationship between man and machine. Ms Guest has put in hours of research on various garment-removal techniques in a bid to put the Daily Star's site, Mega-Star, at the forefront of "virtual world" technology.

PHREAKS



We asked them.

(Well, two wise women and a wise man, actually.)

You'd have to travel a long way to find PCs to match Viglen's. Small wonder, then, that over the last 22 years Viglen has become the choice of many top business brains, creative minds and leading academics.

Professor Heinz Wolff specified Viglen for the Brunel Institute for Bioengineering. Zandra Rhodes, doyenne of British fashion, made the same choice; "The expert advice that Viglen gave really helped us pick a PC that meets our needs" she commented.

Dr Benita Cox, a leading authority on commercial IT strategy at Imperial College, London, cited another reason when requesting that

Viglen should be the main PC supplier to Imperial's Management School:

"I choose Viglen for their outstanding reliability".

These, however, are just some of Viglen's many attributes.

The quality, service and after-sales support are first-rate.

The highest quality is evident throughout the wide range of built-to-order systems for business and home, and in all levels of networking and communications. Year after year, Viglen wins awards from leading computer journals – for value for money as well as quality and reliability.



Zandra Rhodes

Unsurpassed levels of service and support begin the moment you purchase a Viglen PC and continue for as long as you are a Viglen user, no matter how many times you upgrade.

And since it is a product of one of the most automated factories in the UK, a Viglen PC – complete and ready to use with no extras required – will usually be with you within three days.

After all, we know that you – like the original wise men – will be anxious to get to the important delivery as soon as possible.



Professor Heinz Wolff



Dr B. Cox Ph.D

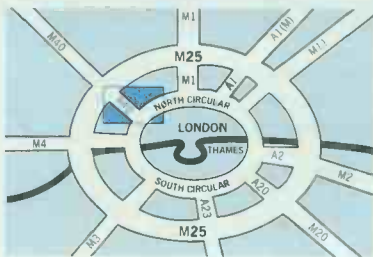
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Viglen Limited. Viglen House. Alpertons Lane. Alpertons. Middlesex HA0 1DX.

Tel 0990 944 944 Fax 0181 758 7080

Calls charged at national rate



Showroom open Monday – Friday 9.00 – 5.30 Saturday 9.00 – 5.00 Sunday 10.00 – 2.00

Showroom closed Public and Bank Holidays

Why great minds choose Viglen

GREAT PRODUCTS

Viglen PCs consistently win top industry awards and are in the highest league for winning the most awards and acclaims, including the 1996 Gold Computing Award for Excellence for the Multimedia PC of the year.

GREAT RELIABILITY

Viglen PCs are acclaimed for having some of the best reliability figures in the Industry and have topped the charts year after year.

GREAT QUALITY

The quality of our systems is second to none, a record recognised in review after review. Add to this our BS EN ISO 9002: 1994 quality accreditation and it means that every PC that leaves our factory is manufactured to the highest possible quality standards.

GREAT SUPPORT

Viglen's technical support is renowned for being one of the best in the industry. With our "customer first" philosophy, when you buy a Viglen PC we ensure your satisfaction is at the top of our priorities.

GREAT WARRANTY

Every Viglen PC is backed by our 12 month parts and labour warranty, including collection and return to you at our expense (mainland UK only). And we also offer a complete range of low-cost on-site packages for up to 5 years and a 4-hour response premium on-site option for mission critical systems (such as File servers).

GREAT DELIVERY

Viglen has one of the most modern build-to-order PC manufacturing plants in the UK and so even the most complicated custom configuration can be shipped within 10 working days. What's more, standard Business and Personal systems can be delivered within 3 working days from clearance of payment.

GREAT UPGRADES

Viglen is not only the best choice today, but for tomorrow too. Should you need to upgrade your PC in the future we offer a full upgrade service which is competitively priced.

GREAT VALUE

Our Business and Personal systems combine the highest quality with best possible value to bring you a range of systems to suit your exact needs.

**What would
the three
wise men
bring this
Christmas?**



Viglen

**Great
Minds
Think**

Viglen

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Please see our range of business PCs on pages 118 - 119 of this publication, or call us for more information.

Three wise buys.



EASY 2 OWN
from **£32.04** per month (APR 17.9%)



EASY 2 OWN
from **£45.55** per month (APR 17.9%)



1 Home Value PC

The Home Value system is a fully configured multimedia and Internet ready PC with an abundance of software packages to get you started.

- ◆ Desktop Case ◆ 16MB RAM ◆ 512K Cache ◆ 2.5GB hard Drive ◆ 2MB Graphics Card ◆ 24 Speed CD ROM ◆ 3.5" Floppy Drive
- ◆ Multimedia Sound ◆ 2 serial, 1 parallel, 1 games, 2 PS/2 and 2 USB ports ◆ 33.6kpbs voice/fax modem with Internet Access
- ◆ 14" Colour Monitor* with built in stereo speakers ◆ Keyboard ◆ Microsoft® Intellimouse ◆ Microsoft® Windows® 95
- ◆ Software Bundle A (see software packages).



2 Ultimate PC

The Ultimate System provides additional enhancements to the Home Value PC by providing a much higher specification but still remaining as one of the best value multimedia systems available.

- ◆ Desktop Case ◆ 32MB SDRAM ◆ 512K Cache ◆ 5GB Hard Drive ◆ 4MB ATI 3D Graphics card ◆ 24 Speed CD ROM ◆ 3.5" Floppy Drive ◆ 3D Sound with wavetable ◆ 2 serial, 1 parallel, 1 games, 2 PS/2 and 2 USB port ◆ 33.6kpbs voice/fax modem with Internet Access ◆ 15" Colour Monitor* with built in stereo speakers ◆ Yamaha stereo speakers (with subwoofer) ◆ Keyboard ◆ Microsoft® Intellimouse ◆ Microsoft® Windows® 95 ◆ Software Bundle B (see software packages).



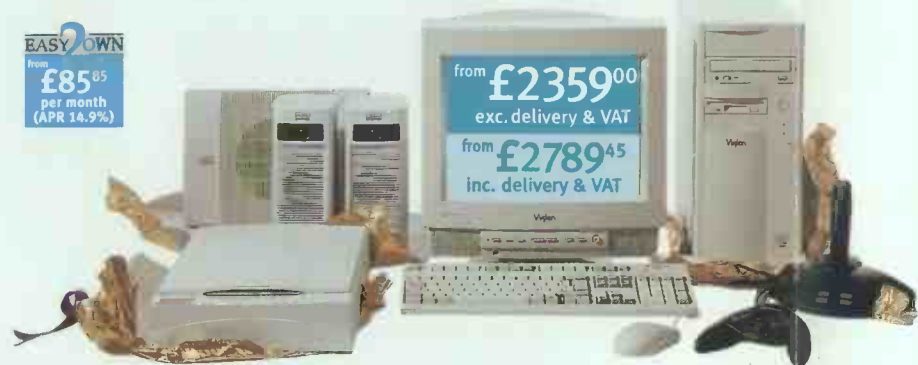
		Exc Delivery & VAT	Inc Delivery & VAT	Order code	Easy 2 Own
Pentium® Processor with	166MHz	£839.00	£1003.45	SYHM16M1	£32.04
MMX™ Technology options	200MHz <small>3 day</small>	£929.00	£1109.20	SYHM20M1	£35.42
	233MHz	£999.00	£1191.45	SYHM23M1	£38.04

		Exc Delivery & VAT	Inc Delivery & VAT	Order code	Easy 2 Own
Pentium® Processor with	200MHz	£1199.00	£1426.45	SYHU20M1	£45.55
MMX™ Technology options	233MHz <small>3 day</small>	£1299.00	£1543.95	SYHU23M1	£49.30
Pentium® II Processor	233MHz <small>3 day</small>	£1399.00	£1661.45	SYHU2321	£53.05
options	266MHz <small>3 day</small>	£1499.00	£1778.95	SYHU2621	£54.75

3 Awesome™ PC

The Awesome PC is by far the most advanced of its kind. Its next generation AGP graphics card prepares this system for next year's 3D games whilst the 3DFX card gives this system the most powerful graphics engine for today's 3D games. The DVD drive not only allows you compatibility with CD ROMs of today but also takes DVD software of the future. The MPEG 2 system also allows you to play DVD movies which are already creating a revolution in the US. In fact this system is so fully specified that we could not think of any further upgrades that you may require except perhaps a digital camera, a colour photo real printer, an LCD display or maybe all three.

EASY 2 OWN
from **£85.85** per month (APR 14.9%)




- ◆ Medium Tower Case ◆ 64MB SDRAM ◆ 512K Cache ◆ 8.4GB Hard Drive ◆ 4MB ATI 3D Xpert@Work AGP Graphics card ◆ 4MB 3DFX graphics accelerator card ◆ DVD ROM ◆ MPEG 2 Card ◆ TV Tuner with teletext and video capture
- ◆ LS-120 3.5" 120MB Floppy Drive ◆ 3D Sound with wavetable ◆ 2 serial, 1 parallel, 1 games, 2 PS/2 and 2 USB ports ◆ 33.6kpbs voice/fax modem with Internet Access ◆ 17" Colour Monitor* with built-in stereo speakers ◆ Aitec Lansing Dolby Pro Logic surround speakers with subwoofer ◆ Keyboard ◆ Microsoft® Intellimouse ◆ Microsoft® Sidewinder™ Joystick ◆ Microsoft® SideWinder™ games pad ◆ Microsoft® Windows® 95 ◆ Software Bundle C (see software packages).
- ◆ Also as a special offer we are including a colour A4 external scanner.



		Exc Delivery & VAT	Inc Delivery & VAT	Order code	Easy 2 Own
Pentium® II Processor	233MHz	£2359.00	£2789.45	SYHA2321	£85.85
options	266MHz <small>3 day</small>	£2459.00	£2906.95	SYHA2621	£89.47
	300MHz <small>3 day</small>	£2599.00	£3071.45	SYHA3021	£94.53

C O M P U T E R S • N E T W O R K S



Viglen is one of the longest established and most respected British computer companies with a reputation for the highest quality, support and reliability. With our renowned commitment to bringing the latest leading edge technology to market as early as possible, we have now produced several multimedia PCs that will suit every person, from the budget conscious to the most demanding, all with the same Viglen pedigree. Look out for the latest Advanced Multimedia technology products marked by the symbol  as these represent the absolute leading edge which you may not find elsewhere. We have also identified some very special bundle upgrades for those seeking additional value.

Software Packages

The Viglen configurations shown are bundled with different software packages. Each package is outlined here to help you choose the configuration that's right for you.

FAMILY BUNDLE A

Microsoft® Works for Windows® 95. five essential tools for easier everyday computing. Word processing, spreadsheet, database, graphics and Communications tools.

Microsoft® Encarta® 97. The leading Interactive Multimedia Encyclopaedia bringing information to life.

Microsoft® Money. Complete set of financial management tools for managing and planning your investments.

Microsoft® Golf. The most true-to-life golf game you've ever played with realistic sound and graphics.

Microsoft® Magic School Bus: Rain Forest. Jump aboard for an amazing interactive trip through a rainforest for a fun-packed science adventure.

Microsoft® Gex. Slither with Gex the lizard through 5 TV and movie worlds full of crazy over-the-top action.

Microsoft® Windows Entertainment Puzzle Pack. Exciting puzzles and games to provide hours of intrigue for the family.

CRT Easy Tutor. A comprehensive interactive tutorial guide to Windows 95.

Five MMX Technology Enhanced CD Titles. Ultimate Human Body II, Timetables of Technology, The Third Dimension, International Space Station and PDD.

FAMILY BUNDLE B

Same as Family Bundle A but with the following 3D technology games:

3D Graphic Technology Games: Wipeout. Next generation racing game. Mechwarrior 2, Futuristic 3D vehicle combat simulation game. Assault Rigs. Cyberspace clash of the future.

FAMILY BUNDLE C

Same as Family Bundle A but with the following:

Terracide Futuristic Combat game. MGI Video Wave Video editing software. MGI Photo Suite Image manipulator package.

3D FX Games: F1 Formula One Racing Game. EF2000 Flight Simulator. MDK Futuristic 3D action game.

3 DAY DELIVERY

We will do our utmost to ship the systems shown with the 3 day logo within 3 working days from clearance of payment.



Upgrades

Why not upgrade your chosen system with any of the following packages which have been specially put together to not only give extra value but also provide you with the latest and best technologies currently available. Please note that adding some of the bundle options will increase the delivery time of your PC as these may need factory installation. We would like to also point out that these bundles are only available as upgrades to new systems and must be ordered at the same time as the main system.

SOFTWARE BONUS UPGRADES

All the configurations shown can be further upgraded to include one of the following professional integrated software applications from Microsoft at a very special bonus upgrade price.

Microsoft® Office 97 Bonus Upgrade Price £161 ex VAT (£189.18 Inc VAT) (CD version with manual).

Microsoft® Office Professional 97 Bonus Upgrade Price £221 ex VAT (£259.68 Inc VAT) (CD version with manual).

Microsoft® Office 97 SBE Bonus Upgrade Price £161 ex VAT (£189.18 Inc VAT) (CD version with manual).

PRO GAMES BUNDLE

If you need the absolute best in 3D games technology, the the 30FX card is the one for you. This bundle includes 30FX card along with some top games optimised for it as well as a Microsoft® SideWinder™ joystick and games pad. £139 ex VAT (£163.33 Inc VAT)

3D GAMES

DVD UPGRADE

DVD is the future of CD technology. By buying a DVD ROM instead of a CD ROM you will not only be able to do everything that you can on a CD ROM but will also read DVD discs which are already becoming popular in the US.

Furthermore, if you need to be able to play the latest DVD movies then you will need our DVD plus MPEG II card solution. Don't be left out of the DVD revolution next year.

Upgrade from a 24X CD ROM drive to a DVD ROM drive £79 ex VAT (£92.83 Inc VAT)

Upgrade from a 24X CD ROM drive to a DVD ROM with an MPEG 2 card (for watching DVD movies) £179 ex VAT (£210.33 Inc VAT)

IMAGE BUNDLES

You can join the digital imaging age by using your PC not only to input photographic images and manipulating them to your hearts desires, but also printing them out on a photo real quality printer. Just imagine what you can do. It's ideal for web publishing too!

Image Bundle 1 - Casio QV10A Camera & Epson 300 stylus photo real printer. £259 ex VAT. (£304.33 inc VAT).

Image Bundle 2 - Casio QV100 & Epson 600 stylus photo real printer. £490 ex VAT. (£575.75 inc VAT).

Image Bundle 3 - Casio QV100 & Epson photo printer. £610 ex VAT. (£716.75 inc VAT).



MONITOR UPGRADE

You can upgrade the monitor in the specific configuration to a higher model by adding the following prices:

Upgrade from	to	Price inc VAT	* Monitor Viewing Area
14"	15"	£90	14" = 13.2" viewable
14"	17"	£290	15" = 14" viewable
15"	17"	£200	17" = 15.3" viewable
17"	17" Enhanced	£70	



LCD SCREEN

The Viglen Envy 1714T uses a high contrast TFT screen and is the ultimate in flat screen technology. With a viewable diameter of 14.5", it is only slightly smaller than the viewing diameter of a 17" monitor, thus making it one of the most desirable products to own.

Upgrade from 15" monitor
£1449 ex VAT (£1702.58 Inc VAT)

Upgrade from 17" monitor
£1229 ex VAT (£1444.08 Inc VAT)



PHOTO REAL PRINTERS

The following printers have been chosen as they offer the latest in colour printing by not only providing an excellent printout for normal use but also the ability to print photo real quality images.

Epson Stylus 300. The affordable single cartridge colour printer ideal for the whole family. £110 ex VAT. (£129.25 inc VAT).

Epson Stylus 600. High definition colour printer with an amazing 1440 dpi output for professional quality results. £190 ex VAT. (£223.25 inc VAT).

Epson Stylus Photo. Dedicated photo printer, for use with digital cameras and scanners, producing prints equal to that of normal photographs. £310 ex VAT. (£364.25 inc VAT).

Includes FREE printer cable and FREE delivery if ordered and shipped with a Viglen PC.



SCANNERS

Photo Scanner Drive Why not add this drive to your system and scan in your existing photographs (max size 5" x 7") in an easy and low cost way. £85 ex VAT. (£99.88 Inc VAT)

External A4 Colour Scanner Easy to connect parallel port 24 bit colour scanner. £90 ex VAT. (£105.75 Inc VAT)

MAINTENANCE OPTIONS

Every Viglen PC comes with lifetime technical support and a 12 months parts and labour repair and return warranty (which is better than most of our competitors 'so called' on-site warranty). For an additional cost of only £45.00 inc VAT, you can convert this to our Premium service with a 12 month next business day on-site repair warranty. That's not all, as an option we can continue this service for up to five years.

Easy to Order

BUY NOW PAY LATER

Options available. Please call.

PHONE, POST, FAX OR E-MAIL

If you require any help or advice on choosing a system to suit your requirements please do not hesitate to call our Sales Department. To help us identify your requirements quickly, please state the product code (where applicable), description and price of items required. Then, when you have decided on your system please fax or phone your order. Please allow 7-10 working days for delivery, except for Viglen special configuration models which we will do our utmost to despatch within 3 working days from clearance of payment.

BY PHONE - Credit Card, Switch, Connect or American Express Card holders, can order by telephone. Just call 0990 944 944 and quote your credit card number and expiry date.

ALL MAJOR CREDIT CARDS

BY POST OR FAX - You can place your order with our Sales Department by post or fax to the address or number shown below. We will require a cheque for the full amount by return post. Major credit card holders may authorise payment by quoting the credit card number and expiry date.

BY E-MAIL - e-mail: sales@viglen.co.uk

Official orders from educational establishments, government departments and PLCs accepted

Very competitive Lease Rental Arrangements are available for bona fide businesses, educational and government establishments.

Easy2own Monthly payment scheme is available to private purchasers subject to status. Typical example of payment calculation of PC costing £999 inc delivery and VAT. 10% deposit of £99.90 required followed by 36 monthly payments of £31.90 (APR = 17.9%). For finance over £1500 inc VAT, APR drops to 14.9%. Additional payment protection insurance is available. Viglen is a licensed credit broker.

EASY2OWN

EDI Purchase orders via electronic data interchange accepted using INS Tradanet service.

Public sector customers may also purchase all Viglen systems through The Stationery Office by calling 01603 694153 and GCat on 01925 433433, for further details.

Viglen systems are exclusively distributed in Eire by Lendac Data Systems, Unit 6 iDA Enterprise Centre, Pearse St., Dublin 2, Ireland. Tel No. Dublin 6776133 Fax No. Dublin 6710135. Prices in Eire differ from those quoted in this advertisement.

Tel 0990 944 944

Calls charged at national rate

9am - 6pm Weekdays 9am - 5pm Saturday 10am - 2pm Sunday. Calls charged at National Rate

Fax 0181 758 7080

Viglen Limited, Viglen House, Alperton Lane, Alperton Middlesex HA0 1DX. web http://www.viglen.co.uk

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The new Kyocera FS-600 prints 6ppm at 600dpi - and that's about all it has in common with your average personal laser printer.

The ultra-fast processor means rapid first page print out and ensures even complex jobs hardly slow its phenomenal workrate.

In fact, the FS-600 performs more like a network printer - which is hardly surprising, when you consider how robustly it's built.

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And because it's designed round our cartridge-free ECOSYS technology, you'll save money with every page you print.

Up to £900 over 3 years, in fact.

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