

Britain's favourite Personal Computer magazine

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CACHE SCANDAL
P19

Personal Computer World

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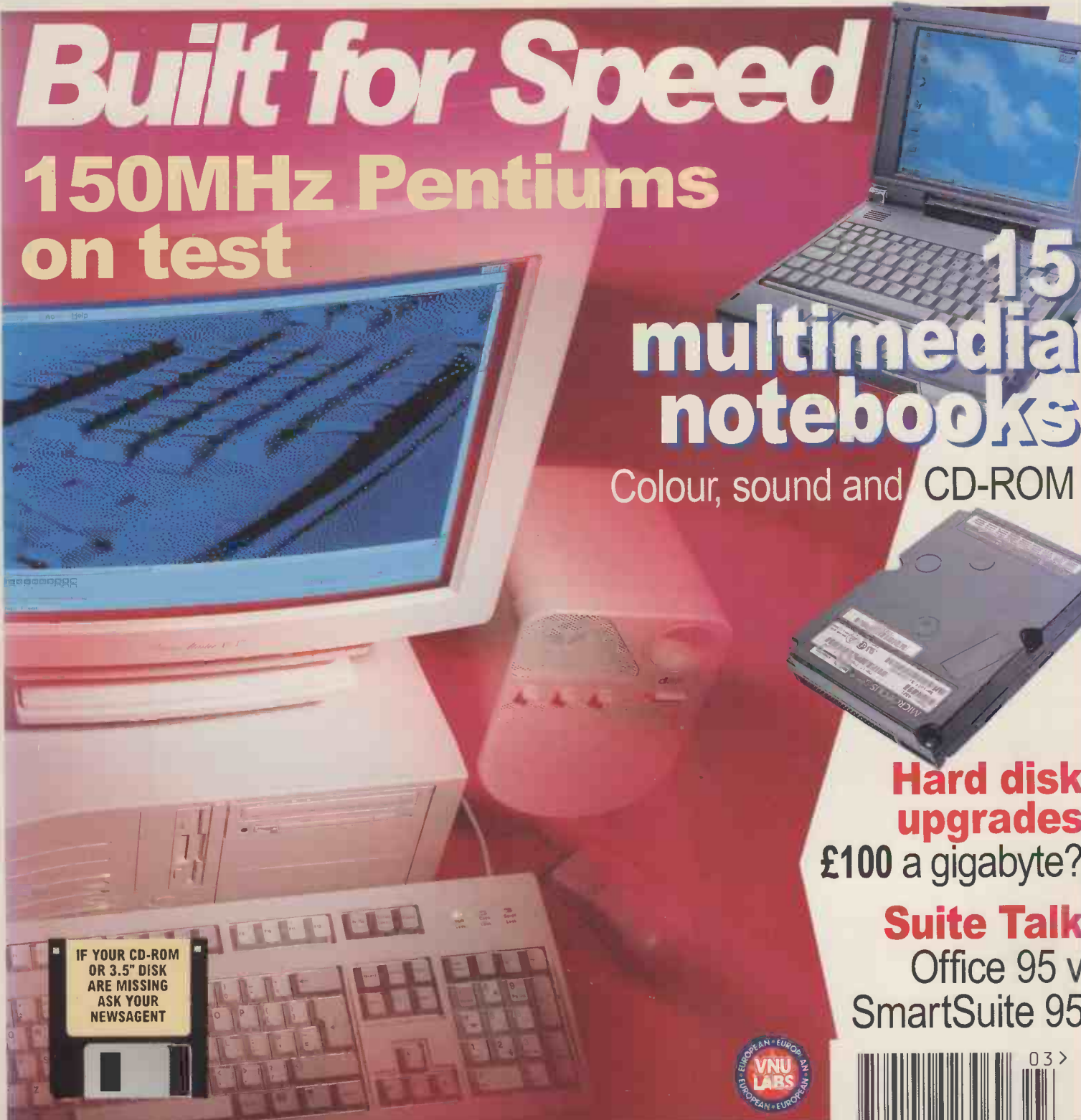
WIN a DAN
133MHz
Pentium p149

Built for Speed

150MHz Pentiums on test

15 multimedia notebooks

Colour, sound and CD-ROM



**Hard disk
upgrades**
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Suite Talk
Office 95 v
SmartSuite 95

IF YOUR CD-ROM
OR 3.5" DISK
ARE MISSING
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NEWSAGENT



GROUP TEST 16 PERSONAL INFORMATION MANAGERS



03 >

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ALL DIMENSION SYSTEMS INCLUDE

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- 256Kb Pipeline Burst Cache
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- 15" Colour SVGA Monitor
- 4 PCI and 3 ISA Expansion Slots (1 shared)
- Mid-Sized Desktop Chassis

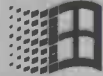
Dell Finance 3 year rental: £11.97 per system, per week, excluding delivery and VAT.

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Designed for



Microsoft®
Windows®95

POWER PLATFORM

DELL DIMENSION XPS P166c

- Intel 166MHz Pentium Processor
- 8Mb EDO RAM
- 256Kb Pipeline Burst Cache
- 1Gb Hard Drive
- 64-bit PCI Graphics Card with 2Mb Video Memory
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- Mid-Sized Desktop Chassis
- Six Speed CD-ROM Drive

Dell Finance 3 year rental: £15.86 per system, per week, excluding delivery and VAT. (P166c)

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(As above except 133MHz Pentium Processor)

£1,349

excl. delivery, handling & VAT

POWER PLATFORM

DELL DIMENSION XPS P200c-MT

- Intel 200MHz Pentium Processor
- 32Mb RAM
- 256Kb Cache
- 2Gb Hard Drive
- Imagine 128-bit PCI Graphics Card with 4Mb Video Memory
- High Performance Tower Chassis
- 3 PCI and 3 ISA Expansion Slots (1 shared)
- Mid-Sized Tower Chassis
- Six Speed CD-ROM Drive
- Windows NT 3.51

Dell Finance 3 year rental: £20.00 per system, per week, excluding delivery and VAT.

DELL DIMENSION XPS P200c-MT

READY-TO-RUN

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- Intel 75MHz Pentium Processor
- 8Mb EDO RAM
- 1Gb Hard Drive
- Integrated 64-bit PCI Local Bus Video with 1Mb Video Memory
- 15" Colour SVGA Monitor
- 4 PCI and 3 ISA Expansion Slots (1 shared)
- Mid-Sized Desktop Chassis
- Quad Speed CD-ROM Drive
- Microsoft Office 95

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(As above except 100MHz Pentium Processor)

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DELL DIMENSION P120†

- Intel 120MHz Pentium Processor
- 8Mb EDO RAM
- 256Kb Pipeline Burst Cache
- 1Gb Hard Drive
- Integrated 64-bit PCI Local Bus Video with 1Mb Video Memory
- 15" Colour SVGA Monitor
- 4 PCI and 3 ISA Expansion Slots (1 shared)
- Mid-Sized Desktop Chassis
- Quad Speed CD-ROM Drive
- Microsoft Office 95

Dell Finance 3 year rental: £13.27 per system, per week, excluding delivery and VAT.

DELL DIMENSION P120†

£1,299

excl. delivery, handling & VAT

READY-TO-RUN

DELL DIMENSION XPS P166c

- Intel 166MHz Pentium Processor
- 8Mb EDO RAM
- 256Kb Pipeline Burst Cache
- 1.6Gb Hard Drive
- 64-bit PCI Graphics Card with 2Mb Video Memory
- 15" Colour SVGA Monitor
- 4 PCI and 4 ISA Expansion Slots (1 shared)
- Mid-Sized Desktop Chassis
- Six Speed CD-ROM Drive
- Microsoft Office 95

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(As above except 133MHz Pentium Processor)

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READY-TO-RUN

DELL DIMENSION XPS P200c-MT

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- 9FX Motion 771 64-bit PCI Graphics Card with 2Mb Video Memory
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- 3 PCI and 3 ISA Expansion Slots (1 shared)
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- Six Speed CD-ROM Drive
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- ACS31 Speakers with 5.1 Surround Sound
- Microsoft Office Pro 95

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DELL DIMENSION XPS P200c-MT

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 and VAT.

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- 19mm trackball mouse
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- Advanced Intelligent Lithium Ion battery pack
- 3.5" Diskette Drive
- Microsoft Windows 95

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 handling & VAT

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- 256Kb Level 2 Cache
- 2 PCMCIA type II slots
- 810Mb removeable Hard Drive
- 19mm trackball mouse
- Extra High performance Local Bus Video with 1Mb Video Memory
- Advanced Intelligent Lithium Ion battery pack
- 3.5" Diskette Drive
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- 256Kb Level 2 Cache
- 2 PCMCIA type II slots
- 1.2Gb removeable Hard Drive
- 19mm trackball mouse
- Extra High performance Local Bus Video with 1Mb Video Memory
- Advanced Intelligent Lithium Ion battery pack
- 3.5" Diskette Drive
- Microsoft Windows 95

Dell Finance 3 year rental: £32.55 per system, per week, excluding delivery and VAT.

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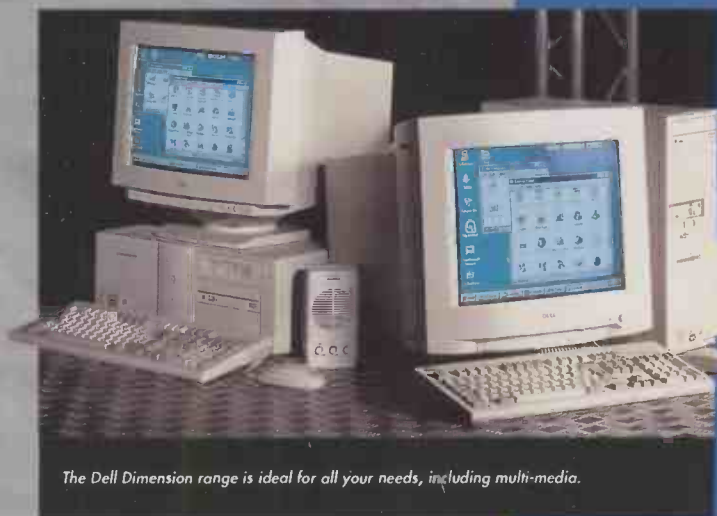
More **notebooks** that travel far.

The Dell Latitude™ family is also award-winning. With incredible battery life, large, crisp displays, fast Intel® processors all packed inside a durable and ergonomic design, who else can offer more? This is definitely mobile computing for high flyers on low budgets. And there's more. You can also buy the innovative Dell DeskDock™ system for your office. This gives enhanced desktop expansion and allows Latitude XP and XPi users to make quick and easy connection to essential peripherals and their network.

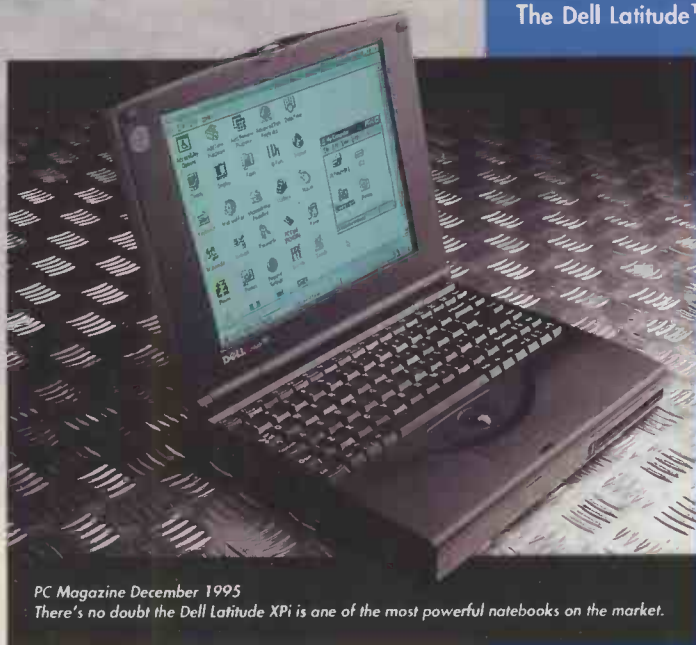
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All Dimension and Latitude PCs come with customisable and extensive service and support packages. Automatically, this includes a 1 year 'Collect and Return' service as well as unlimited access to Dell's Openline™ Hardware Technical Support Service - another award winner. This service runs throughout the lifetime of your PC. Should you encounter a problem, you'll be pleased to hear that 90% of all queries are solved over the phone in less than 5 minutes. That's a benefit of dealing with the company who actually built the machine.

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The Dell Dimension range is ideal for all your needs, including multi-media.



PC Magazine December 1995

There's no doubt the Dell Latitude XPi is one of the most powerful notebooks on the market.

A



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Dell puts
more at your
command.



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Built for speed and starting at around £2100, the first wave of high-performance 150MHz Pentium PCs is given the *PCW* benchtest treatment.

PCW Cover Photography by David Whyte



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Free trial with AOL! The world's most popular online service is coming to the UK.

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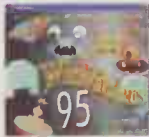
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Two of the latest home PCs with similar all-in-one appearances but quite different innards.

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2 4 7 Kids' Stuff

2 5 7 Screenplay (with Leisure Lines, page 260)

2 6 1 Competition: WIN a Lexmark printer, Internet To Go and top OCR package, TextBridge



From the top Kids' Stuff, Focus (Microsoft's Internet Studio), Screenplay, CD-ROMs (Cinemanía 96)



PCW Cover Disk

America OnLine

AOL is aiming to become the UK's biggest service provider. Its successful US service already has more than 4.5 million users. Armed with a suitable modem and a PC running Windows 3.1 or later, this month's cover disk contains all you need to connect for one month's free subscription including 10 hours free access to AOL's range of easy to use, informative and useful services. Thereafter if you wish to become a member of AOL the monthly charge is £5.95 including five free hours. Additional hours charged at £1.85.

Unlike rival CompuServe, AOL charges a flat rate for all its services.

At its launch in mid-January, AOL had 65 percent geographical coverage for local call access which will move up to 100 percent in April. AOL has a highly graphical, lively user interface which makes other online services look positively staid.

CONTENT

AOL's content is produced specially for a UK audience

Computing

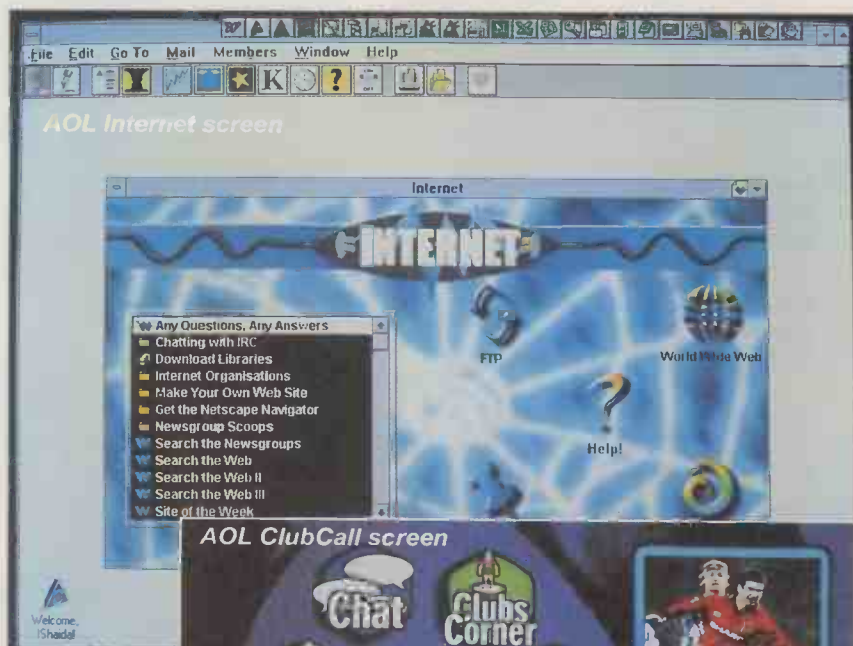
A number of UK computer magazines including *Personal Computer World* will have dedicated areas on AOL. *PCW's* area, due to launch in April, will include a discussion forum, a software library, full-text of articles and a hot-link straight to our World Wide Web site.

Sport

For sport, Clubcall, the telephone information service, is putting together a sports area focusing on football, rugby union and cricket.

Digital cities

AOL is planning a series of electronic guides to what's on and where to go, and is launching with Digital City London, which includes searchable guides and listings from *Time Out*.



AOL ClubCall screen



News

PA News is supplying a news feed carrying up to 1000 reports and updates daily.

Weather

Highly graphical local weather forecasts. Members can focus in on more than 80 inland and coastal regions for forecasts and extra information like tide tables and sunrise and sunset times.

Road Travel

Access to AA RoadWatch which is updated every 30 minutes

There will be full access to the US, German and French (French service to be launched in Q1 1996) services. No surcharges apply.

IMPORTANT

- To install the software run a:\setup.exe from Windows.
- If you have problems with the cover disk such as the "cannot read from drive A:" error, call AOL on 0800 3765432 for a free replacement.
- For free technical support, call AOL on freephone 0800 2797444.

PCW Interactive CD-ROM

Welcome to another software roller coaster from the infamous annals of the *PCW* Interactive CD-ROM.

MAIN FEATURES

Demos

The cutting edge of new software awaits your pleasure. This month, the *PCW* Interactive CD-ROM includes the multimedia epic, *Ripper*; a full-screen video with a host of Hollywood stars eager to appear on a PC near you.

In a surprise move, the makers of *Wing Commander 3* have named the sequel *Wing Commander 4*. So chocks away, ready for this all-new legendary simulator.

Internet addicts will be delighted to see their online bills wrestled to the ground and given a damn good

Linux

The version of Linux included on our February CD-ROM was out of date. We will include an up-to-date version on our April CD.

MARCH 1996



PCW INTERACTIVE: Entire Contents List

PCW Interactive — Entire Contents List MARCH 1996

DEMOS

- One Man and his Dog — Sheepish round-up
- Alien Odyssey — Flunk out of the Intergalactic Diplomatic Service
- STD Code Decoder — Hours of fun with a phone number interrogator
- GPSS — Find yourself, via satellite
- Image AXS — Picture manipulation
- JigSoft — Puzzle over your own piccies of Aunt Maud in her bikini
- Smart Sketch — Simple, powerful and effective graphic design
- Ripper — Full-screen video stuffed with music and celebs
- Tortoise and the Hare — Kids' interactive book-fest
- Secret Agent — New and exclusive *PCW* Webbed wonder
- Wing Commander 4 — Blockbusting new playable demo with terrific trailer
- Ski Europe 96 — Where to go

FEATURES

- Wild Bites — Super soundbites
- Realimation — Stonking space time editor for 3D data

MAGAZINE

- The essential back-up to *PCW*'s illuminating articles and features, including ClipMate, a clipboard enhancement with the exclusive new PowerPaste feature

WIN 3.1

- Accordion Solitaire — Animated squeeze-box antics
- Alternate Solitaire — Different
- Noteworthy Composer — Write down your own music
- Vid Fun — Multimedia file editor
- Sys Win — System File manager

WIN 95

- Website — Create your own, and how!

● **Minimum requirements:** 4Mb free RAM (some can be in a permanent swapfile), 386SX/33 processor, Windows 3.1. Users with less than this should be able to run all the DOS programs on the CD-ROM directly from DOS or Windows (rather than using the front-end). For best performance we recommend: 8Mb installed RAM, 486 DX/50 processor, Windows 3.11 or Windows 95



Personal
Computer
World

DOS

- Superchase — Slovakian software
- Ink Utils — 11 essential DOS utilities
- Turoid — Breakout for smoothies

EXTRAS

- ClipArt — 50-plus visual banquets from the Cybernetic Image Sampler
- PolyGram MPEG Sampler — Over 25 minutes of hit music videos

CONTINUES OVER

F O L D H E R E

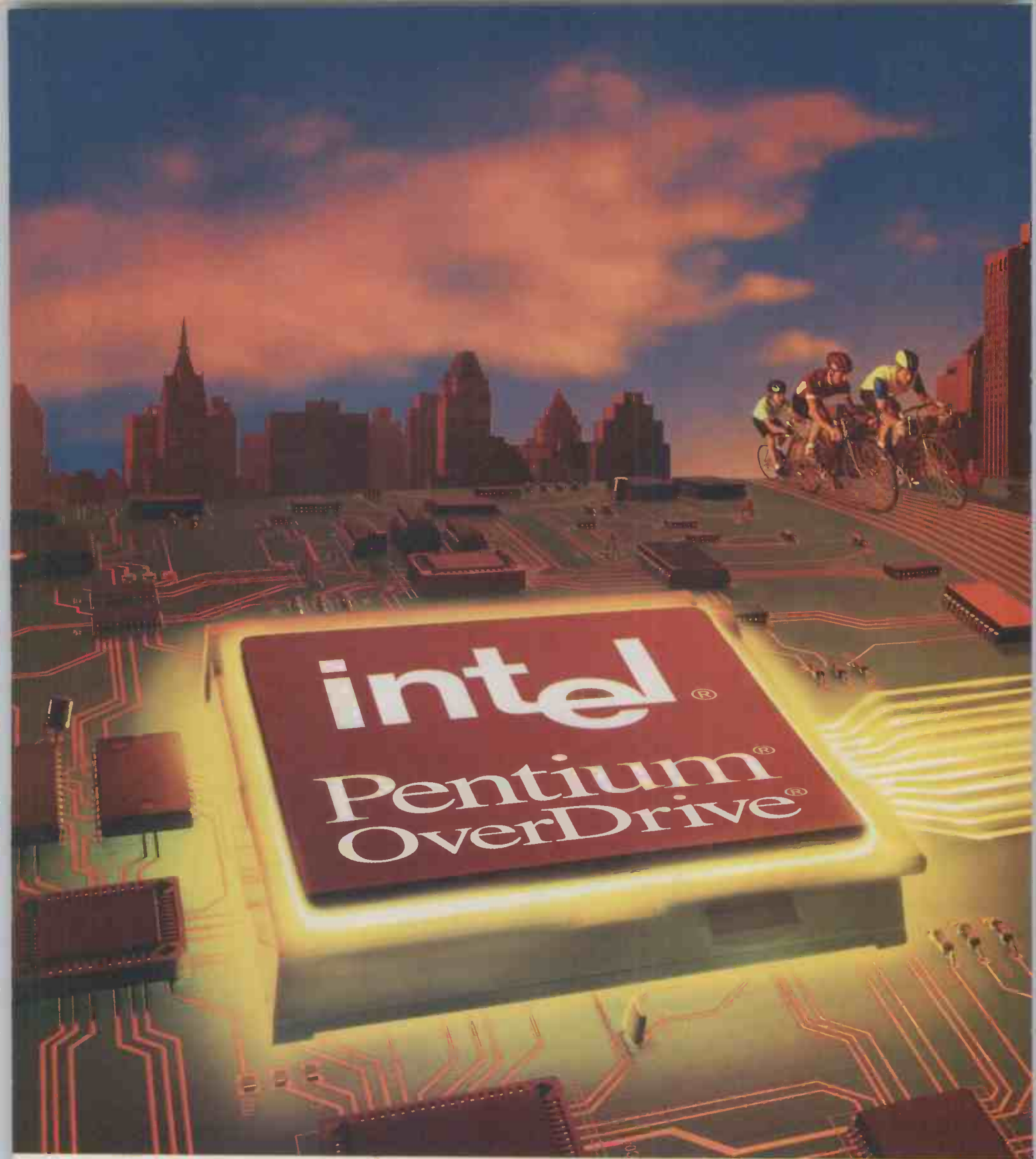
- Money Smith 95 — The perfect companion for your money
- Animated Cursors — Shun your static pointy thing

MACINTOSH

- Mac fans everywhere will yell with delight at our avalanche of Apple-based action

- Mac Doom — At last, get your hands on that PC leviathan, Doom
- Full Throttle Trailer — High-speed cutting edge games thriller
- Amazon Trail — A rumble in the jungle
- Bach Man — ...Turner Overdrive game?
- Blackjack Deluxe — who needs Blackjack Bargain Basement now?
- Kids Clicks — Perfect for the kiddies in your life
- Learn the Art of Magic — Paul Daniels, watch your back
- Mac Pipes — Ready-rubbed or flake?
- Mac Sokoban — Strategy head-scratcher
- Marvin the Ape — You could go bananas

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Pentium® OverDrive® processor up

Pentium® OverDrive® processor is now available.



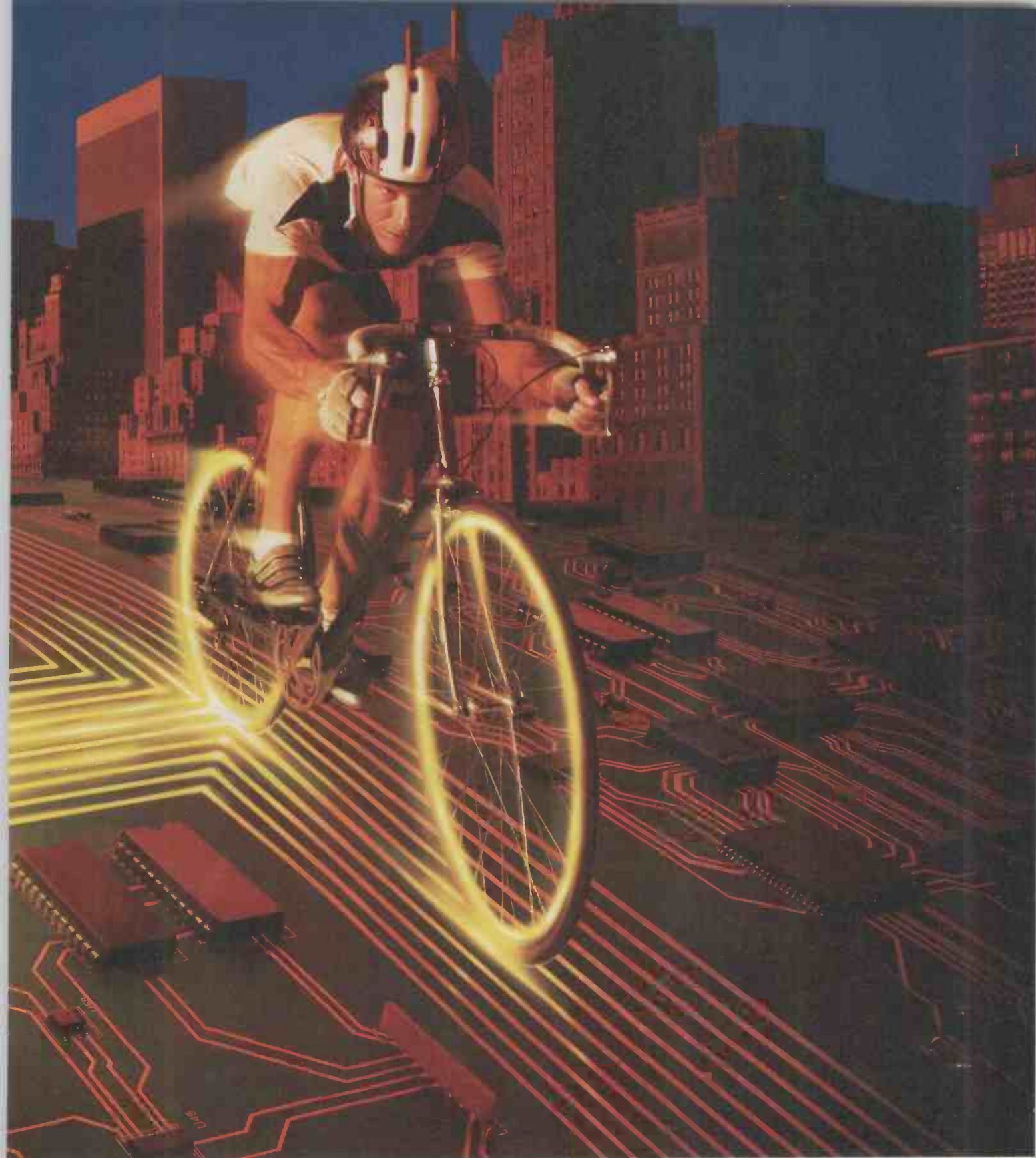
Is your PC stuck in the slow lane? A Pentium OverDrive processor can dramatically boost

your current CPU's performance and get your software really moving.

So if you're not planning to move up to a Pentium processor-based PC just yet, then this is a good alternative for you.

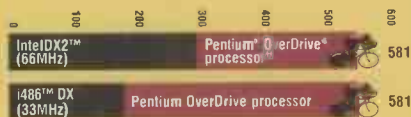
As our fastest single-chip processor upgrade, the Pentium OverDrive processor is a very affordable way to upgrade many Intel486™ processor based PCs.

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iCOMP[®] index[†] for Intel Inside[®] and Pentium[®] OverDrive[®] processors.



range of OverDrive processors contact Dixons, PC World, Byte, Escom, Game or other leading PC dealers or call Intel on 01793 431155 and ask for Pack No. ODP0444H or visit our Web site, <http://www.intel.com/procs/>

ovrdrive or see Intel's Forums on CompuServe (GO INTEL).



index ratings when upgraded with the Pentium OverDrive processor. Pentium, OverDrive, i486, iCOMP, Intel Inside and the Intel logo are trademarks of Intel Corporation.

Personal Computer World



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JAN-JUNE '95



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Editorial

The multimedia notebooks in our round-up (page 102) represent the current state of the art, sporting fast, colour TFT screens, built-in sound and CD-ROM drives and the kind of hard-disk capacity desktop PC users would have sold their grandmothers for five years ago.

What's remained curiously static in the midst of all this progress is battery life. The Enact 5400 manages a laughable 30 minutes without adding an extra battery pack. The norm sits ponderously between two and three hours. *PCW* reader Steward Boyle is understandably annoyed about this development which is tough on users who do real work with notebooks, "rather than pose on business-class flights".

The move to multimedia has also kicked up prices. A decent mono 486 notebook could be had for under £1,500 two years ago. Today's colour multimedia Pentiums typically cost around £3,000. Boyle's request for an "affordable, high-performing machine with decent battery life" seems reasonable, but isn't being tackled by manufacturers. The wholesale move to colour hasn't helped. Colour, seductive and great for presentations, adds a lot of cost and power consumption to a notebook. But a flick through the *PCW* ads reveals that the only brand-name mono notebooks still available are old models saddled with sluggish processors.

● Home and business PCs have crossed over. The typical computer bought for the home is more powerful and has more features than its business equivalent. It's often home user enthusiasts who are buying 150MHz Pentiums with 32-bit sound cards (see cover story, page 133) while business users make do with chips running at half the speed. Dell, whose customer base is heavily biased towards businesses, says that 75MHz Pentiums are its biggest-selling item. Applications like programming and CAD will always demand the fastest hardware available, but today's power users are probably sitting on a sofa rather than behind a desk.

Ben Tisdall
Editor



Next Month **Personal Computer World**

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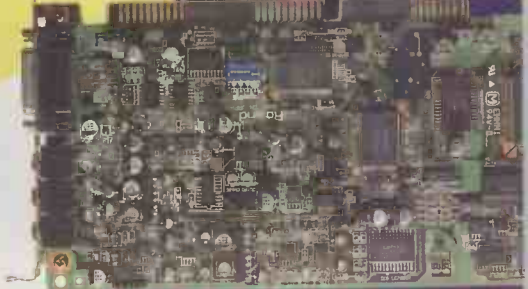
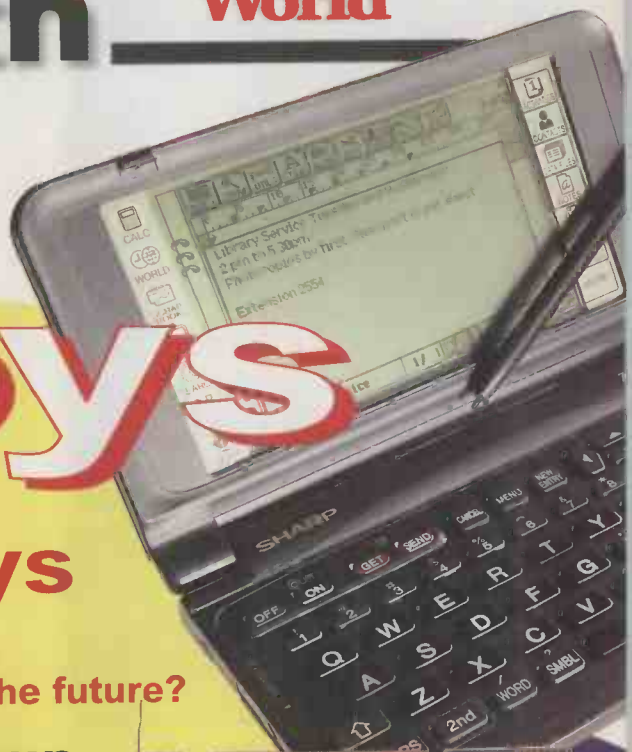
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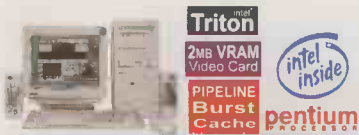
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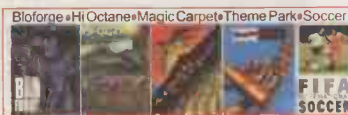
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Newsprint

Scandal of fake cache memory

Motherboards with fake cache RAM are on sale in Britain, a *Personal Computer World* investigation has revealed.

We paid £99 (£116.33 inc VAT) for one on London's Tottenham Court Road, where computer stores draw buyers from all over the world. Genuine cache would account for nearly half that price.

And we found an identical board with fake cache on a PC supplied for review by Watford Electronics – proof at least that it knew nothing of the fakes.

We saw at least two other suspicious boards on sale in Tottenham Court Road, though most looked genuine.

Our board, called a Terminator SMT486/5x86, claimed to have 256Kb of cache RAM. Tests by Chris Bakolas, technical manager at North London PC vendor Dan Technology, showed that the four cache chips were fake (see caption, right).

A reader bought a similar board at a computer fair for £55.

Both boards functioned well when equipped with genuine chips, but were 40 percent slower with the fakes. The BIOS (core

logic which posts the first screen messages you get when you switch on) on both had been fixed to report "256K w/b" cache even with the chip taken out.

Stories about fakes have been circulating for months and examples have been found on the continent; but these were the first we had seen in Britain.

People who buy motherboards to upgrade or build a PC will not necessarily spot fake cache because the machine will function, though relatively slowly.

Anjum Sabir, manager of PC Deals, which sold us the board, said when told of the fake chips: "This is a surprise to me."

He said he had bought the board for "a fairly good price" from a regular supplier, which he refused to name. He had not checked the board. "If they say it has 256K cache we take their word for it. It is a matter of trust."

Sabir said he would withdraw the boards from sale.

Dilip Ladwa, technical manager at Watford Electronics, said of the fakes: "This is most disappointing. I shall look into it."

It seems likely the faking was done outside Britain, though we



Spot the difference... the lower chip in this false-colour X-ray is genuine, with the internal connections and silicon clearly visible. Above is a fake: the exterior tags have no internal connections.

The X-ray was the final stage of our tests. First, Chris Bakolas at Dan ran a speed test with the chips in and out. There was no significant difference in the results. With real chips in, the speed increased 41.7 percent. With the fake chips back, a program called PCCheckit reported there was no cache present; however, the BIOS claimed there was 256Kb W/B (writeback).

Back at VNU we got this same message with the Jumpers set for various cache levels. A meter between the line and ground pins read open circuit — not surprisingly, because as the X-ray shows, the chip is solid plastic.

suspect one shop (not named here) has consciously sold fakes.

The Award BIOS had been fixed to lie about the cache. Award traced the serial number to SMT, of Taiwan, and said the label seemed genuine. This does not mean that SMT fixed the BIOS. We could not contact the company at press time.

Police and the Camden trading standards office are investigating. A Camden spokeswoman said: "If anyone has experienced problems in this area, please contact us on 0171 413 6917."

Buyers should be able to claim from the suppliers.

Clive Akass

What is a cache?

Cache holds data ready for the processor to avoid delays in delivery from slow RAM. It uses Static RAM chips which do not need a refresh strobe like ordinary memory and are faster.

The main processor has internal cache, so the S-RAM chips are called secondary or Level 2 cache.

The simplest strategy for using it is to write data to the cache and RAM at the same time. Faster but more difficult is a strategy called Writeback, where data goes only to the cache in the first instance. Some fake cache are marked "writeback".

Is your S-RAM for real?

A quick test is to compare speeds with the cache enabled and disabled. You can disable the cache via the CMOS Setup — a message on how to do this appears when you switch on. We have posted a suitable test program, with an update on this story, at <http://www.vnu.co.uk/ln>.

You could also try any of our other tests (see caption above). Our fakes were marked SI-6C512P-15. If your cache is fake, or you have genuine chips marked

with this, please fax us details on 0171 316 9313 or email me at clive_akass@pcw.ccmil.compuserve.com.

Chips marked Writeback are likely to be fake. The writeback functions (see left) are implemented by the processor and support chips, not the S-RAM itself.

"I think people mark the chips writeback because it sounds impressive," said Chris Hogg, Intel UK's architecture manager.

Clive Akass

Sugar prunes company that launched Britain's PC boom

Amstrad is scaling down its Consumer Electronics (ACE) arm following the sudden departure of chief executive David Rogers, which sent shares dipping 10 percent.

ACE played a big part in kick-starting the PC boom in Britain during the eighties when it bought out the PC 1512, with a then unimaginably luxurious 20Mb of hard disk space, for less than £1000. Even more successful was its sub-£300 PCW word-processing package, which seduced many non-techies into using computers for the first time though it was not high on ease of use.

This may be why a survey last year found that Amstrad was second only to IBM and Apple as the computer company best known to Britons.

Amstrad is just back into profit

after posting losses for three years; only six years ago it claimed nearly a quarter of the European computer market.

Chairman Alan Sugar announced a new version of the word-processing package at the end of last year. The company stresses that it is not getting out of the computer business, and its direct-selling arm Amstrad Direct will continue as before; so will PC vendor Viglen, which Amstrad bought last year.

But Amstrad has a new focus, buying into the comms business by purchasing Danish mobile phone specialist Dancall and UK modem maker Dataflex. A company insider said of the retrenchment at ACE: "Frankly, the organisation was rather too large for the business we were doing."

Amstrad 01277 228888



This combined desktop screen and keypad from Source Development is claimed to provide the most natural possible working position. The touch-sensitive surface can be used to control a PC. A Mac version will be available soon. It costs about £2000.

Details on 0171 235 5330

Short Stories



Quest on CD

Devotees of Monty Python can rest in peace with the knowledge that a CD game version of the Quest for the Holy Grail is due out in early autumn. It contains footage from the film as well as new illustrations and animation.

Joanna Scott

7th Level 01932 355666

Lotus takes Notes cheaper

Lotus has cut the price of the client software in its information-sharing product, Notes, in the face of an expected ramp-up of Microsoft's rival product, Exchange.

The cuts come as users await the release of Notes 4.0, which should be in the shops by the time you read this. The package includes Web Navigator, a browser for Web access.

This will link with a new £38 Notes Mail client to provide facilities such as the ability to send messages containing live hypertext links.

The price of a single-user licence for Notes Desktop drops 58 percent to £111. Server software, currently £198 for any number of processors, goes up to £341, with multi-processor systems up to £1584.

Lotus 01784 455445

Butterfly flutterby



IBM is reported to have dropped its novel Butterfly ThinkPad subnotebook, so called because its keyboard opens out like wings. The reason is to make way for new ThinkPads with wider screens, though the popular Butterfly format may be readopted for later models.

Solomon divides virus firm

S&S, the company founded by Dr Alan Solomon to develop and sell his anti-virus toolkit, has been bought out by three of its directors.

The company's data recovery arm, Authentec, has been hived off under the amicable deal and will continue to trade under the direction of Dr Solomon's wife, Susan.

Dr Solomon will continue as a consultant and director, and as general cheerleader for S&S at computer shows, where he is well known for his uninhibited fancy-dress demonstrations.

"There will be very little difference as far as customers and users are concerned," he said.

He said the management buyout came about because he wanted to diversify his interests. "My wife and I had all our eggs in one basket. We wanted to do other things." Dr Solomon said he would continue his interest in viruses and hoped to do more writing.

Sales director Geoff Leary, production manager Keith Perrett, and financial director David Stephens will buy all S&S shares under the terms of the deal.

S&S 01296 318700

CARTOON



"Your baby's due in May, Mrs. Gates. But given your husband's record, the date could slip to the third quarter."

Baby Gates

Microsoft chairman Bill Gates and his wife Melinda French are expecting a baby in May. They wed in early 1994.



Every Sharp JX-9200 comes with a free printer expert. Itself.

It always happens, doesn't it? You're waiting for the last page of your document to emerge from your printer, and a little orange light starts to flash instead. It could mean anything. It certainly means you'll be late for your meeting.

It won't happen with the new JX-9200 from Sharp. Instead of a warning light, the JX-9200 has an infinitely more helpful 'Graphic User Interface', which actually talks you through the entire printing operation via your PC screen. Even if something goes wrong, you can't, because

your PC not only tells you what the problem is, but how to solve it too.

Our new printer's exceptional abilities don't stop there. The JX-9200 brings you all the benefits of a high quality laser printer for the same price as an inkjet. So you can look forward to higher print quality at a lower cost than you ever imagined.

The JX-9200 won't take too much valuable office space, either. It's so small, it'll not only print on a sheet of A4 but sit on one too.

The printer has been designed with Microsoft®

for total Windows™ compatibility. That means it'll work effortlessly with all versions of Windows™, including Windows™ 95*. And set up is just as straightforward. You just plug in and print out.

In fact, whichever way you look at it, the JX-9200 is set to revolutionise your printing. Call free on 0800 262 958, quoting reference PCWG2 and get a printer expert working for you.

SHARP
INTELLIGENT THINKING

PC World, Comet, Argos, Sunrise Electronics (0171 637 3727), Micro Anvika (0171 636 2547), Alternatives (0500 314314), PrinterLine (01709 530880), Knowledge Tree (01706 832832), Inmac (0990 146622), Elonex (0181 452 4444), Personal Business Centres. *Not compatible with Windows™ NT.

Yours for just £3,300... a program that picks winners

Do you believe a computer program could be a good racing tipster? And would you pay £3,300 to try it out? If so, then a company called Comstrad would be happy to hear from you. But don't all rush at once, because it says it will sell only 500 copies (for a mere £1,650,000).

PCW got involved when a reader asked us to check out the scheme, advertised in a mail shot. Comstrad occupies what seems like an entire floor in the heart of London's exclusive St James's. An affable salesman explained the deal. You pay £3,300, for which you get a program disk and a guarantee that you will not lose in the first three months so long as you follow the rules.

These are that you start with a £500 stake pool and back only the three biggest-money races on a Saturday. Each bet must be exactly five percent of your remaining pool.

At the end of each of the first

three months, Comstrad promises to top up your stake pool to £500 if you are down. In the worst case of every horse losing, Comstrad would thus pay back £810.54p, leaving it still with £2,500 of your money.

The DOS-based program appears to do little but produce a score for each horse on simple algorithms using form gleaned from *The Racing Post*. It is likely to come up with some winners, given that this is what such information is for.

Punters have to fill in a form for each of the three races, a laborious task when there might be 20 or more runners.

There is no database, no means of saving a horse's record, no means of accessing online information, and at one point users are expected to add up winnings themselves.

The program is more or less redundant for the first three months, as users are advised to ring Comstrad to check that they have picked the right horses. "If

you are pushed for time, you can simply ask for the selections," the salesman said.

A chart shows how £10,000 working capital can be built up in three months, with the punter drawing £51,598 income over a year.

The whole scheme seems to be a variation on the betting systems advertised in the back pages of racier papers.

Comstrad programmer Colin French denied that it was priced and packaged for suckers. "The main reason for the high price is the low number we are selling. If you put more than 500 people on it, they will start moving the odds on the horses."

His salesman was at pains to say the program is not infallible. "Horses are horses, not computers. If we could predict the results every time, we would not be here trying to sell the program," he said.

Quite.

Clive Akass

Comstrad 0171 878 8000

Short Stories



M1 board

● Flashpoint is selling a PC motherboard using Cyrix's new 6x86 processor, formerly known as the M1, with three free PCI and five ISA slots.

Flashpoint 01753 538715

MIPs power for desktops

● A new generation of low-cost desktop graphics workstations is promised by the release of a new processor from MIPS.

The 64-bit R5000 RISC chip is said to be up to three times as fast as the Pentium or PowerPC 604 chips when running 3D visualisation applications. The first version will run at 200MHz and cost \$300 in bulk.

Chips from MIPS run the graphics workstations produced by sister company Silicon Graphics. The first R5000 systems are expected to be available early this year, targeted at CAD and Web server applications.

95 protection

● Touchstone Software has released PC-cillin 95, a £49 Windows 95 anti-virus package which claims to monitor every possible danger source including email attachments and automatically downloads updates from a Web site.

Touchstone 01442 862612

Proper names

● CompuServe has introduced name-based email addresses to complement its old number system. Enter Go Register to register your new handle.

You too could be a video producer

PC and Mac users have yet to wake up to the possibilities of the latest advances in digital video, according to the organisers of the Hamburg International Short Film Festival.

The ability to edit and enhance video is becoming affordable for many more people with the advent of cheaper software and Pentium power, and short video sequences targeted at desktop computers are commonplace.

Yet it is "almost impossible to find anything visually new, other than the more or less perfect translation from analogue to the digital format," the organisers say.

They have set up a new section within the festival for digital

videos no longer than 20 minutes which "demonstrate the artistic possibilities of the new

medium". Closing date for entries is 1 April. Phone +49 40 430 7570 (Germany) for details.



Fast's new F60 board provides entry-level video-editing facilities on a PC for £349. Features include effects, titles, graphics, animation and output to video tape.

FAST 0181 968 0411

Short Stories

Party line

● A London Labour councillor is using the Internet to enhance his prospects of being selected as Parliamentary candidate.

Claiming his use of the Web as a UK first, Cllr Evan M Jones says that the practice is now common among US primary candidates.

His site contains endorsements from colleagues on Waltham Forest council and a full CV, although surprisingly no link to the Labour Party's own home page.

A Welsh language version is also available. Cllr Jones believes the use of Web sites by prospective candidates is likely to increase. The address is <http://www.point2.co.uk/evanpar1.htm>.

Paul Fisher

Cable threat to ISDN

● ISDN service providers could lose business to cable companies offering speeds of 4Mbps, according to a report from US analyst Forrester.

It says that ISDN, offering a basic 64Kbps in Britain, is leading the way to higher bandwidths but is "priced too high."

This, and the complexity of ISDN services on offer, "will cause ISDN's appeal to decline as it falls into the shadow of cable modems."

The conclusions refer to the US, but BT has come under heavy fire for its £400 sign-on charge for ISDN (see News, January). Cable Online is experimenting with fast home links in the UK.

TV converter

● Vine Micro's new £399.95 DeltaScan Pro plugs into the video output of a PC or PowerMac and converts signals up to a resolution of 1600 x 1200 for use on a TV or video recorder. It supports composite video, S-Video, and RGB output for either PAL or NTSC.

Vine 01843 225714

Console vendors retreat as the PC scores in video games market

The biggest surprise of this CES was the fact that no game-console vendors attended. In the past, Nintendo, Sega, 3DO and Atari made this their main showcase each year, using it to launch almost all of their new systems and taking up an entire hall.

This year, game vendors have decided to go to E3, the big interactive entertainment show held in Los Angeles in May, skipping Winter CES altogether. But, the move reflects the fact that the dedicated game market is in serious decline, with many of the sales for interactive entertainment systems going to the PC makers.

Indeed, IBM, Compaq, Apple, HP and Packard Bell took the space of Nintendo, Sega and 3DO and used CES to make a major statement about their commitment to the home market.

Compaq, which had one of the largest booths at CES, announced a joint venture with toy giant Fisher-Price involving

two new peripherals aimed at young children.

The Wonder Tools Cruiser is a driving console with CD-ROM software that makes the PC fun and easy to use. It comes complete with steering wheel, throttle, horn, and "radio stations" and allows kids to navigate through software adventures.

They can interact with fascinating characters, unscramble alphabet picture puzzles, sort through a spaceship scrap yard and even invent and assemble toys. It will be available in the US this summer at \$159.

The second product for kids, the Wonder Tools keyboard, has a finger mouse and works with all standard PCs. It does everything a standard keyboard does but is designed specifically to allow pre-school children to interact with a home PC.

It has oversized keys, with



special function buttons for quick and easy ways to snap a picture of a scene, get help from characters, and get to the home screen and exit the program. It will be priced at \$129.

The products are unlikely to arrive in Britain quickly because of the need to localise the software.

At last... it's the scanning keyboard

Small document scanners designed to fit behind keyboards have been a big success over the past few months, so it was only a matter of time before someone would go one stage further and integrate a scanner into the keyboard itself.

Compaq has done just that. The scanner is just above the keys and as you slide the paper through the feeder, it automatically puts a digital view on the screen.

Compaq also showed a home-automation system which uses a Presario PC to control lights, alarms and anything electrical.

Compaq's exhibit was impressive and it represented a commitment from them as well as the other PC vendors in



attendance that they are going to be major players in the home

consumer market in the future.

Polaroid has come up with an easy-to-use colour scanner for just \$299, which means that it will have a street price of around \$269.

The PhotoPad, launched at CES, allows you to scan pictures up to 6in x 4in directly into your PC via the parallel port.



MOTOROLA

The mini is back in fashion

Perhaps the most eye-catching product at CES was a new cellular phone introduced by Motorola called the StarTAC.

It is the smallest cellphone on the market, being about the size of an alphanumeric pager and weighing just 3.1 ounces.

You could even clip it onto a belt or sweater and wear it like a pager. It will retail for around \$1000.

CES in Las Vegas

DVD drives slow to arrive as developers wonder what to do with the 18Gb CD

Low-cost video-CD players using the new high-density Digital Video Disc format will be out this year — but you will have to wait until 1997 for DVD-ROM drives on PCs.

The roll-out dates for DVD was the most important announcement at the Winter Consumer Electronics Show in Las Vegas, which is one of the most enjoyable events I cover each year. The 1996 show drew 80,000 people all keen to take a peek at all the newest consumer PCs and electronic gadgets.

The DVD format, defining the next-generation CD-ROMs, is the result of a deal between more than 20 vendors to create a single high-density standard for both PCs and consumer electronics.

It allows software developers and movie makers to lay down as much as 18Gb on a single dual-sided, dual-layer disk the exact same dimensions as

today's 648Mb CD-ROMs.

Most vendors promised to release at least the first version of their DVD players next autumn, targeted at the consumer market. These will be used to play digitally compressed movies over a TV.

Emille Patrone, a vice-president at Phillips, said there should be at least 200 movies digitised in the DVD format by Christmas, though the figure could be as high as 500 if things go well. This upper target is unlikely to be reached because it takes as much as a

week to digitise a movie.

SGS Thomson said it will sell a DVD player this Christmas for \$499. Toshiba announced that its player would be priced at \$599.

But DVD drives will not be widely available for PCs this year. It will take at least another year for developers and authors to come up to speed on the new standard and be able to utilise it properly.

Imagine: with up to 18Gb of space to fill, they will need a lot more creativity to produce titles that the market really wants.

At least six companies introduced high-end digital video cameras costing between \$2,000 and \$4,000.

The cameras from Sony, RCA, Panasonic, JVC, Sharp and Thomson all weigh under 3lb (1.36kg), something that will be a blessing for camera operators who are out in the field all the time.

Also, Sharp unveiled its newest ViewCam, sporting a 5in colour LCD screen on the back, making it the biggest viewing screen on any video camera on the market.

Consumers are set to snap up new digital cameras

Digital cameras at consumer prices were another important trend at CES. A few months back, Casio and Apple had this market to themselves with, respectively, the QV-10 and the QuickTake.

But Chinon and Epson rolled out new cameras priced at \$499. The Chinon camera was the larger of the two and looked more like a small video camera. However, it includes a flash and can hold up to 50 pictures in memory for downloading to a PC.

Epson's digital camera, called the PhotoPC, has 1Mb of internal storage and can store 32 standard images or 16 high-resolution images.

But since you can add storage, it has the potential of storing as many as 160



standard images or 80 high-resolution images.

Sources also tell me that Kodak will have a low-cost digital camera out by mid year, also around the \$500 mark. That should put pressure on Casio to trim the price of its

digital camera: the street price is currently around \$760.

Casio's is still the more interesting camera since it has a 2in LCD colour screen on which you can instantly view any picture you take.

But, it does not have a flash. Casio tells me

that a new flash-enabled version will be available later this year.

● Chinon's ES-3000 digital camera, with an auto zoom lens, is available from Bannerbridge for £749.

Bannerbridge 01268 419101

Short Stories



Digital spider crawls Web

● Digital has produced what it claims is the world's fastest and most comprehensive Web search engine.

The Spider has indexed every word on 16.5 million Web pages and 13,000 newsgroups — a total of eight billion words. Digital says it is up to 100 times faster than similar services and can find up to 2.5 million new pages per day.

You can try it out for yourself at www.altavista.digital.com

Help on Help translations

● Oxford Computer Consultants and California's Blue Sky have launched a package which converts Windows Help files into Web pages.

The Help-to-HTML converter costs £159, or is free to owners of Blue Sky's RoboHelp or WinHelp Office Help authoring products who buy a £159 Web authoring plug-in.

OCC 01203 690934

Acrobat show

● Adobe is running seminars this month, in Manchester, Coventry, Glasgow, Dublin and London, on online and CD publishing using its Acrobat product and other software. Fax 0181 606 4004 for details.



● National Instruments has announced a new range of Pentium-based embedded controllers. Full details are at www.natinst.com, or call 01635 523545.

Short Stories

Fast colour

● Tektronix claims the new Phaser 550 colour laser printer is the industry's fastest, producing five pages per minute in colour and 14ppm in black and white. It's also capable of printing at a full 1200 x 1200dpi and costs £5,795.

Tektronix 01628 403300

Carrera duo

● Carrera Technology has brought out two PC systems, "Home Executive" and "Family Education", in a new series tailored to meet customer requirements. Both cost below £1,300.

Carrera Technology 0171 830 0586

Cheap vision

● The price of Visioneer's PaperPort Vx, the all-in-one fax, photocopier, printer and business card has been cut by £70 to £299.

Visioneer 01732 464624

Soft bundle

● DataBecker has put together a "SoftBrick" CD-ROM of twenty software utilities and programs which, when sold individually, were previously valued at over £250. But the SoftBrick, with ten accompanying books, costs a mere £29.95.

DataBecker UK 01420 22707

Big picture

● Hitachi has launched the new HM series of 21in colour autoscanning monitors. Specifically designed for very high resolution applications, they offer greater brightness and the highest contrast ratio available. With high refresh rates, flicker-free sharp images are also ensured.

Hitachi 0181 848 8787

Upgrade kit

● Aztech is offering the Sound Galaxy Stellar 6X multimedia upgrade kit, comprising a 16-bit sound card, a 6x IDE CD drive, powered stereo speakers and a range of CDs for £229.

Aztech 01734 814221

Touchstone 0181 875 4456

Your chance to learn at the top Windows showcase

The sixth annual Windows Show, from February 26 to March 1, is the showcase for every new Windows development.

PCW is sponsoring a series of seminars to coincide with the show at the Olympia conference centre

Bringing together leading trainers and consultants, the one-day (9-30pm to 5pm) sessions will focus on applications of the Microsoft Office suite.

Monday 26 February Basic Visual Basic

● This seminar, particularly suited to experienced PC users who are not developers, will allow you to immediately develop powerful custom business solutions. Realistic applications will be demonstrated and built up during the day, and all delegates will receive a disk of sample applications together with source code.

Access Essential Overview

● A comprehensive introduction which will explain how to create powerful

database applications. Ideal for developers who are relatively new to Access and as a foundation course for the MasterClass.



Personal Computer World

Office 95 Productivity Masterclass

Does Office 95 deliver the promised productivity gains? We will study the new feature set and analyse the benefits.

Tuesday 27 February Word Masterclass

● Improve your skills and productivity. Emphasis will be placed on Word's use as a component of bespoke systems.

Desktop Publishing with Word

● How best to use Word's creative features and what can be used to give a document real impact.

Design and DTP with Windows

● Issues to consider when

setting up a DTP unit within your organisation.

Wednesday 28 February Forecasting and Financial Planning with Excel

● Fundamentals of business planning, and a comprehensive review of Excel's use for all aspects of business analysis.

Thursday 29 February Excel Masterclass

● A thorough look at Excel's advanced features. Assumes a basic knowledge, but not programming know-how.

Friday 1 March Management with Microsoft Project

● Basic principles of Project Management and the benefits that can accrue from Project's proper use.

The seminars will be conducted by City-based Training Solutions, recently chosen as a Microsoft Authorised Training Centre. All cost £315 + VAT. For more information call 01256 381583 or fax IT Seminars on 01256 381813.

Paradox and Sovereign go Win 95

Borland is shipping its Paradox 7.0 database for Windows 95 and NT. It comes with new developer's tools and help for existing Paradox users upgrading to Windows 95.

New features include Experts that automate database tasks, usability enhancements, and integration with Microsoft Office 95 and Novell's PerfectOffice.

The estimated price for new users is £99, or £79 to owners of application suites.



Leading UK account specialist Sage has issued the first Windows version of the principle modules of its Sovereign

business package.

The new versions of Sovereign's System Manager and sales, nominal and purchase ledgers will run on Windows 3.11, 95 or NT. They are file and function compatible with the DOS versions.

"This means that you can

happily run them on a network on which some people are using Windows and others are running DOS for high transaction processing," said Sage's David Pinches.

A starter pack with the four main modules, in either DOS or Windows versions, plus Sage's Windows report writer, costs £1500 — though most packs are sold through dealers who charge extra to tailor the modules.

Borland 01734 320022, www.borland.com;
Sage 0191 201 3000, www.sage.com

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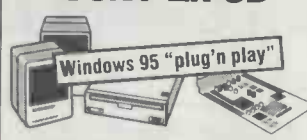
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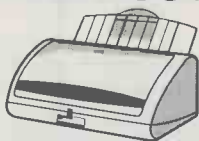
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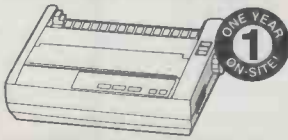
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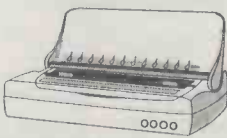
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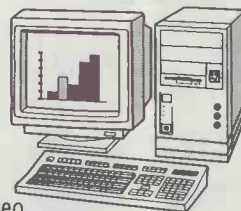
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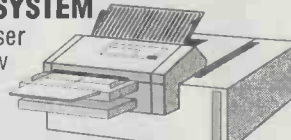


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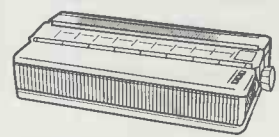
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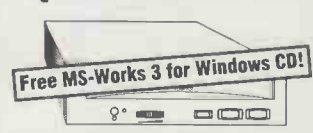
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Short Stories

Toshiba launches low-cost Pentium

● Toshiba has launched what it describes as an "aggressively priced" 75MHz Pentium-based portable, the Satellite 100. It boasts a 10.4in dual-scan colour screen, a 520Mb disk and 8Mb of memory, and shares many features with the high-end Satellite Pro models — including docking compatibility.

The price will be "significantly below £2000".

Toshiba 01932 841600

Music offer

● Yamaha has issued its main Hi-Tech dealers with a CD-ROM of more than 100Mb of public domain software for use with its products. Charges to customers will be down to the individual dealer.

Yamaha 01908 369269

Wide view

● Wide-load vehicle drivers will be able to plan their routes without getting stuck on bridges, with the aid of PARS software from GDS, which is designed to cope with all aspects of moving awkward loads.

GDS 01483 725225

Global deal

● California-based Global Village has bought the UK ISDN remote-control specialist KNX in a \$28 million deal, which will be known as Global Village Communications UK.

GVC 01756 702500

Wrong number

● The number given last month for Compware, which offers Teletext viewer software for £50, was incorrect. The correct number is 01223 425203, or contact webzone1.co.uk/www/compware

OLE!

● dLSoft is offering an OLE developer's kit to allow you to incorporate bar code images in Visual Basic 4, C, Visual C++ and OLE-2 apps.

dLSoft 0181 559 0049

Microsoft in piracy raids on Select firms

Microsoft warned last month that it will make random checks for unlicensed software on companies.

More than 600 companies have joined its Master Select program, under which they get a master CD of software and pay for what they use.

A clause in the contract entitles Microsoft to make a software audit, which involves checking what each machine in a company uses.

Anti-piracy business manager Mark Roberts said checking was complicated by the fact that some 25 percent of PCs were not networked.

The target companies were warned about the audit just before Christmas. Roberts said: "About 160 replied and all were very responsive."

This left 440 who did not reply, but Roberts did not expect any objections.

He was satisfied that the terms of the Select contract gave auditors nominated by Microsoft the right to investigate firms.

But fewer than 10 are expected to be checked out in each quarter.

New drivers add sparkle to Diamond boards

Diamond has developed a new set of drivers for its Stealth 64 series multimedia accelerator boards, offering a speed boost of up to 84 percent over the versions shipped with Windows 95.

Beta versions of the drivers for the Stealth 64 Video 3000, 2000, and 2001 boards should be available at Diamond Multimedia's Web site by the time you read this.

The new Diamond GT (graphics technology) drivers boost the performance of a Stealth 64 Video 3000 card by 62 percent in 8-bit colour mode, 65 percent in 16-bit colour, and 84 percent in 32-bit colour.

New drivers for the Diamond Speedster line and older Stealths will become available later.

Diamond 01753 501400

Vendors rush out 166MHz Pentium PCs

PC vendors are rushing to announce models based on Intel's latest fast Pentiums, clocking 150MHz and 166MHz.

Among the first off the mark was Viglen, with 150MHz and 166MHz models in its Genie range. Prices start at £1699 (ex VAT).

IBM announced that it would have 166MHz models available throughout its PC range, starting with the PC 300 family with memory options up to 128Mb.

Dell announced options at both high clock rates in both its OptiPlex and Dimension ranges. The OptiPlex models, starting at £2,435, include integrated 3Com networking and 16Mb of EDO memory.

Apricot's L8550, VS550 and minitower VS660 ranges will also offer models with the new fast processors, available immediately from PC World superstores.

Viglen 0181 758 7000; IBM 0345 (sic) 727272; Dell 01344 720000;

Apricot 0121 717 7171



Chance your arm on BT's portable office!

It may be good to talk but, lady, I only asked you for the time!

This prototype of a portable office is working but British Telecom has yet to make any decisions on its commercial future. Wearing it is BT director Patricia Vaz, named Business Woman of the Year

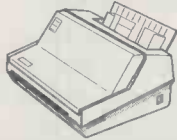
The "Office on the Arm" has a miniature colour screen and mouse pad while the visor puts a larger display in front of one eye. A keyboard is not needed, because the system uses voice recognition software.

Joanna Scott

SURPLUS COMPUTER STOCKS

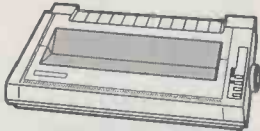
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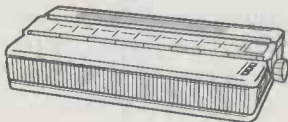
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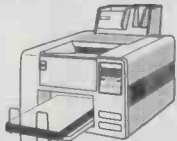
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135 CPS draft, 27 CPS NLQ, auto paper load, friction/tractor, IBM & Epson modes. Parallel i/f. **£34.99**

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132 COLUMN



DATAPRODUCTS 24 PIN
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SUPERB GRAPHICS



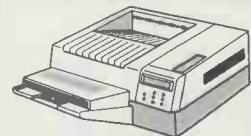
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PENTIUM 90MHz



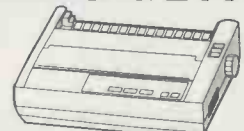
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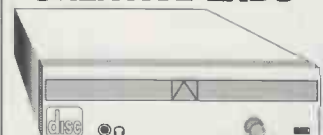
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Short Stories

Japanese study aid dogs net



● Lava Software has released Japanese WordMaster v3.1, a Japanese language study aid including a powerful Japanese-English Kanji dictionary — and this Samurai dog.

Suitable for intermediates to advanced it operates on the Macintosh, but a Windows version is under development.

Download a demo from Lava's Web site at <http://www.ozemail.com.au/~lavasoft/>.

Joanna Scott

Software boom

● Sales of PC applications software in Europe soared by 58 percent to \$471.6 million in the third quarter of last year, says the Software Publishers Association of Europe. Microsoft's Windows 95 operating system was launched in August.

Total software sales over the same period rose 16 percent over the previous year to \$1.4 billion.

SPAE 33 1 45 63 02 02 (France)

CD series

● Planet Earth: The Story of Environmental Awareness, Women's Rights, The Story So Far, World War One and World War Two are CD titles in a series from News Multimedia called The Times Perspectives. They are available from April.

News Multimedia 0171 782 3972

Mass use of interactive system '15 years away', say researchers

The PC rather than the TV set will lead the move into interactive mass media, according to experts canvassed for a new research programme.

We may need to wait for old connections to wear out before the cost of providing switched broadband interactive connections can be justified.

But several cable companies are experimenting with the use of special modems capable of delivering 4Mbits/sec to a PC, says a preliminary working paper* for the London Business School programme.

Co-author Kathy Hammond believes mass interactive systems will take about 15 years to develop, and that the growth of cable-based systems will be slowed by the advent of satellite-based digital television.

"The satellite will be the delivery system, with the phone providing the back channel for interactivity. So you might see a menu of videos on your TV screen, and choose one using your remote control. This small amount of information can be sent down a phone line."

But she admits that predictions in this area are unreliable, in that no-one is quite sure how generations brought up on the computer will use the emerging technology.

"People who invent things don't always know what they will be used for. The people who invented the VCR thought it would be used basically to time shift [i.e. view programmes out of schedule]. In fact, it was used mostly to look at videos

and proved an enormous benefit to the film industry."

More than 40 companies are paying £5,000 a year to fund the research programme, which starts in full later this year. It will focus on online entertainment, person-to-person communication, electronic shopping, information publishing, marketing, and telecommuting.

In addition it will look at the trade-off between transportation and telecommunication, and the shift towards Cyberfirms which use interactive media as their main method of trading.

LBS 0171 262 5050

* *Interactive Mass Media, a review of evidence and expert opinion from the USA and the UK, by Kathy Hammond, Dorien Pluim, and Katrien Vanden Eynde.*

Parc your Web page

A new development environment for World Wide Web applications has emerged from Xerox Parc, where the graphical user interface and object-orientated programming were pioneered.

The big advantage of VisualWave is its ability to produce Web applications that "listen" — that is, they obtain information from customers, then analyse and respond to it, according to ParcPlace-Digitalk, the Xerox spin-off which is selling the system.

VisualWave is based on the SmallTalk object-orientated language, and the use of objects facilitates "hot updating" of Web sites: a price, for instance, can be changed without blocking access to the site.

The environment can output pages in HTML and will eventually be able to output Java code. It facilitates complex interrogation of databases, and supports the PC, Mac and Unix platforms.

ParcPlace-Digitalk 01252 719100



Cosmo gets interactive

Following strategic alliances with Sun Microsystems and NetScape, Silicon Graphics has announced a new set of tools to create interactive, 3D worlds for the Web. Cosmo uses Java and VRML compliant tools and a drag and drop editor to create "next-generation" sites.

Only available for SG platforms, the Cosmo suite of applications is expected to ship by June.

Silicon Graphics 01734 257500

<http://www.europe.sgi.com>

Web Times is Murdoch's testbed for future media

Rupert Murdoch launched his flagship UK newspapers on to the Web last month as a testbed for the media of the future.

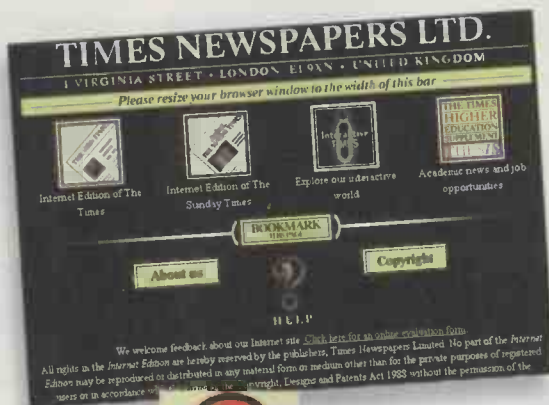
The Times, The Sunday Times and The Times Higher Education Supplement have free Web editions, containing all the information in the printed editions.

But the pages are completely redesigned to suit the Web format. A search engine covers all sections including classified advertising, which Murdoch's New International believes is particularly suited to the medium.

There is also a rolling news service, which in the first stages will be updated four times a day. Most intriguing, although primitive at the time we went to press, was a facility for choosing subjects you are interested in.

This could lead to papers (or whatever replaces them) tailored to your interest.

Sunday Times Innovations



editor Christopher Lloyd called this

"valetting", with the PC vetting your visitors. "I think this is the way newspapers are going to go. They will act as a filter in an age of information overload," he said.

News International is looking into the possibility of broadcasting the news feed by

satellite at night, ready for readers in the morning. This is already done with Usenet news.

The distinction between newspapers and TV will blur, with pages having links to live news feeds and video clips.

Internet publishing manager Andrew Burke said he did not expect the project to break even for two years. "This is very much a long-term thing," he said.

Early tests of the system indicate that it does not threaten sales of paper-based news. "When we put the Higher Education Supplement online sales went up by five percent," Burke said.

The Web site was launched with a specially tailored version of Motorola's £189 Internet Solution package, which contains everything you need to get online.

The addresses are www.the-times.co.uk and www.Sunday-times.co.uk.

Motorola 01293 404343

Short Stories

Dash it all

● An application programming interface with C/C++ and Delphi 32 source code called the Dashboard Software Developer's Kit can be downloaded free from Starfish Software's Web site at (<http://www.starfishsoftware.com>). The new software kit will enable developers to create modules that can be executed from with Dashboard 95.

Starfish 0181 875 4455

How to beat memory loss

● UK companies have come up with two new products to foil burglars targeting memory chips which are worth much more than their weight in gold.

DTL is offering a £55 trembler alarm which fits into a PC expansion slot and emits an ear-piercing scream when the computer is moved.

Kodit is offering special tags which bond to a chip and have a unique number which can be registered with the company's national database.

Kodit 01625 529283

Mapinfo 4.0

● MapInfo Professional v4.0 will install under Windows 3.1, 95 or NT 3.51. The fully-featured mapping, spatial analysis and GIS system integrates database information with maps and graphics.

Mapinfo 01344 482888

Virtual 3D

● NetManage is bundling a Virtual Reality Modelling Language (VRML) viewer, Chaco Communication's VR Scout, with its Chameleon Internet suite for Windows 95 and NT.

NetManage 01773 863666

New scanner

● Microtek's new ScanMaker E3 single-pass 24-bit, 300 x 600dpi colour scanner is available from Computers Unlimited for £299.

Computers Unlimited 0181 200 8282

Sites using old software leave the door open to Web hackers

NCSA 1.3 server software is still among the most commonly used at Web sites — months after it was shown to leave them wide open to hackers.

Users include some "very well known organisations," according to Netcraft, which monitored more than 74,000 Web sites.

"Information on how anyone can obtain remote access on a computer running this server has been widely available since February 1995," the company said in its regular survey of Web sites.

It was shocked to discover

last August that many sites had not upgraded, and they had still not done so by the start of 1996.

A Netcraft statement said: "This shows the Web community in a very different light from [that of] the popular media coverage; complacency and ignorance are clearly as present in this community... as in any other."

The NCSA software comes from the National Centre for Supercomputing Applications at Illinois University, birthplace of the groundbreaking Mosaic browser and still a favourite source of Web software.

Security patches were released last year, and the latest version 1.5 is believed not to be vulnerable.

NCSA software is used by more than one in three sites, and the vulnerable version 1.3 is used at more than one in ten. But there is a trend towards commercial software, with both NetScape and Apache packages rapidly overtaking NCSA.

Details of the security loophole are available at www.netcraft.com/security/http/nca13.html, and you can find Netcraft's survey at www.netcraft.com/survey.

Short Stories

1.3Gb Jaz-beater from Syquest

● The battle of the super-floppies hotted up at Mac World last month when Syquest announced a 1.3Gb removable storage drive.

The SyJet drive is a direct evolution from the traditional Syquest drive which became a de facto standard data-transfer medium for graphics.

But new low-cost models from Iomega brought similar storage into the mass market. Iomega's latest 1Gb Jaz drive is due out this year.

The SyJet seems pitched to out-spec the Jaz. It boasts an average seek time of 11 milliseconds and a sustained transfer rate of 4Mb a second.

It will cost about £350, with one 1.3Gb 3.5in cartridge. A 1.3Gb cartridge will cost £60, but the drive will also read 650Mb cartridges costing £40.

The SyJet will be available in Europe in IDE and SCSI versions in April.

Syquest 01624 362266

Apple baulks at Win95 deal

● Apple has refused to sign a standard licence for Windows 95 because of a clause exempting Microsoft from prosecution for patent infringements.

The licence is needed for Houdini 486 boards, which allow Macs to run Windows native. It would allow Windows 95 to be preloaded onto Macs. Apple has claimed that Microsoft has infringed its patents, notably in Video for Windows.

Power kit

● JYACC is about to ship a suite of client-server development tools for the Power Mac.

JYACC 0171 814 6660

Newsprint welcomes your news, views, Web sites and graphics. Send them to clive_akass@pcw.comail.com or cakass@dial.pipex.com

New merger rumours as Apple reports a \$68 million loss

Rumours abounded at press time that troubled Apple was about to merge with Sun or Oracle. The speculation was not new (IBM has also been named as a suitor) but gained impetus from news of a \$68 million loss for the last quarter of 1995.

Apple was also expected to lay off staff and announce that it would not try to compete with cheap PCs at the low end of the market. Another possibility is that it will get out of hardware

altogether and concentrate on selling its operating systems.

The figures also sparked rumours that Apple chief Michael Spindler was about to go. UK md Mike Newton quit just before Christmas as part of a major shakeup of Apple's European operation.

Gone is the system where each country had its own general manager; instead there will be a single pan-Europe organisation led by Apple Europe

president Marco Landi. Apple UK spokesman Russell Brady said the new arrangement would enable Europe to co-ordinate its activities and present a united stance to the US.

He admitted: "In the past, Europe's voice has tended to get lost at [Apple's California HQ at] Cupertino."

One result of the revamp, and this new united voice, will be a minitower model targeted at Europe.

Free Shockwave for FreeHand



Macromedia is posting free add-ons for NetScape which will allow you to view FreeHand images. Shockwave for FreeHand, which follows a similar product for Director files, will enable users to create and view FreeHand graphics on Web pages.

The Mac edition of FreeHand Graphics Studio is also due to ship this month. It includes FreeHand, xRes, Extreme 3D and Fontographer. The Windows version will follow shortly.

Full details at www.macromedia.com, where you can also find a gallery including this FreeHand picture.

Macromedia 01344 761111

Top 10 Windows and DOS

Product	Manufacturer	Last month
1 Encarta 96	Microsoft	1
2 Windows 95 U/G	Microsoft	2
3 Qemm V8	Quarterdeck	-
4 First Aid 95 for Win95	RMG	3
5 Magnaram 95	Quarterdeck	7
6 MS AutoRoute Exp UK & IRE	Microsoft	6
7 MS Plus for Win95	Microsoft	10
8 Softram 95	RMG	-
9 MS Cinemania	Microsoft	5
10 MS Office 95 U/G	Microsoft	15

Top 10 DOS

1 Flight Simulator v5.1	Microsoft	2
2 Fifa Soccer 96	Electronic Arts	-
3 SimCity 2000	Maxis	8
4 Hexen	Raven	-
5 Turbo C++ v3.0	Borland	5
6 MSDOS v6.22	Microsoft	4
7 Fun School Maths	Europress	-
8 Worms CD	Pinnacle	-
9 PC DOS v7	IBM	3
10 Doom 2	Virgin	-

Top 20 Windows

Product	Manufacturer	Last month
1 Encarta 96	Microsoft	1
2 Windows 95 U/G	Microsoft	2
3 Qemm	Quarterdeck	-
4 First Aid 95 for Win95	RMG	3
5 Magnaram 95	Quarterdeck	7
6 AutoRoute Exp UK & IRE	Microsoft	6
7 MS Plus for Win95	Microsoft	10
8 Softram 95	RMG	-
9 MS Cinemania	Microsoft	5
10 MS Office 95 U/G CD	Microsoft	15
11 Uninstaller 3.0	Microhelp	11
12 Page Plus Home/Office CD	Serif	-
13 Dr Solomons Anti Virus Quarterly	S&S International	9
14 MS Publisher v3.0	Microsoft	13
15 Dr Solomons Anti Virus Quarterly '95	S&S International	-
16 MS Office Pro 95	Microsoft	8
17 Cleansweep 95	Quarterdeck	12
18 MS Office 4.2 U/G	Microsoft	4
19 Bodyworks v4 CD	SoftKey	-
20 History of the World	Dorling Kindersley	-

Figures supplied by Software Warehouse and relate to bestsellers for December 1995.

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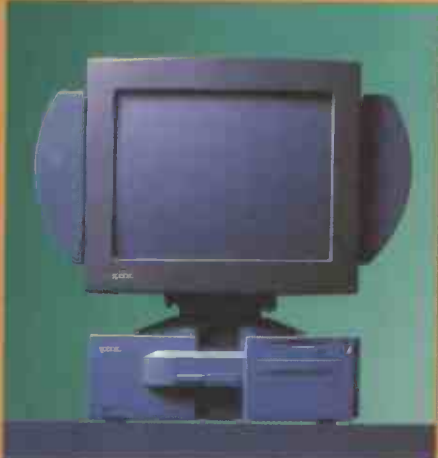


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PD



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<http://www.scenic.de>

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THE MULTIMEDIUM

Uncle Sam wants you

The launch of America Online in Europe will mean a shake-up of the online landscape. Jack Schofield reports on the new giant on the block.



America OnLine (AOL) has arrived in Europe having been launched in Germany at the end of 1995 and in the UK earlier this year. AOL is already the world's largest online service, and must conquer Europe to maintain its astounding growth. Last year, it signed up three million new users, taking its total to 4.5m. European operations are a joint venture between America OnLine and Bertelsmann, the German media conglomerate.

AOL was formed in 1990, the year in which CompuServe opened its European operations. It has grown bigger faster by concentrating on consumers rather than the businessmen and hobbyists who pioneered the online market. They were attracted to CompuServe by its support forums, database services and such like.

AOL's appeal is different: it has colourful graphics, it's easy to use and one of its most popular features is online chat. Where CompuServe maintains an air of seriousness, AOL pulls in the mums and the kids with its sense of fun.

There are other differences in emphasis: CompuServe is a global service with some local content; AOL presents itself as a series of linked local services. AOL's advantage is that it's better integrated with the Internet. You can click on-screen buttons to read Usenet news or surf the Web and these functions are almost a

seamless part of the service. Usenet newsgroups have their own names and descriptions on AOL and Web sites appear on the same menus as AOL forums.

In contrast to CompuServe's WinCIM 1.4 and CID, the Internet Dialler, you can log on for either a CompuServe session or an Internet session but not both. Only with the recent arrival of WinCIM 2 can you do both at once. AOL has a better UK access network, too, with about 80 percent coverage at 28.8Kbits/sec, based mainly on the Energis network. And AOL claims to be cheaper. It has a standard charge of £5.95 per month for five hours' use (extra hours are £1.85 each). There are no extra charges for modem speed, use of access network or content.

The UK managing director, Jonathan Bulkeley, says: "If it costs extra, we won't link to it." A simple charging structure was considered more important for the consumer, so some gems like CompuServe's Executive News Service have been sacrificed.

The next year should see some tough competition between AOL and CompuServe. Both will have to compete against Internet service providers, some of whom feel that the days of giant, centralised online services are over.

Certainly, it's now hard to launch a proprietary service in competition with the World Wide Web, as AT&T has found: it has just backed down over its Interchange system (bought from Ziff Davis at the end of 1994). AT&T now says

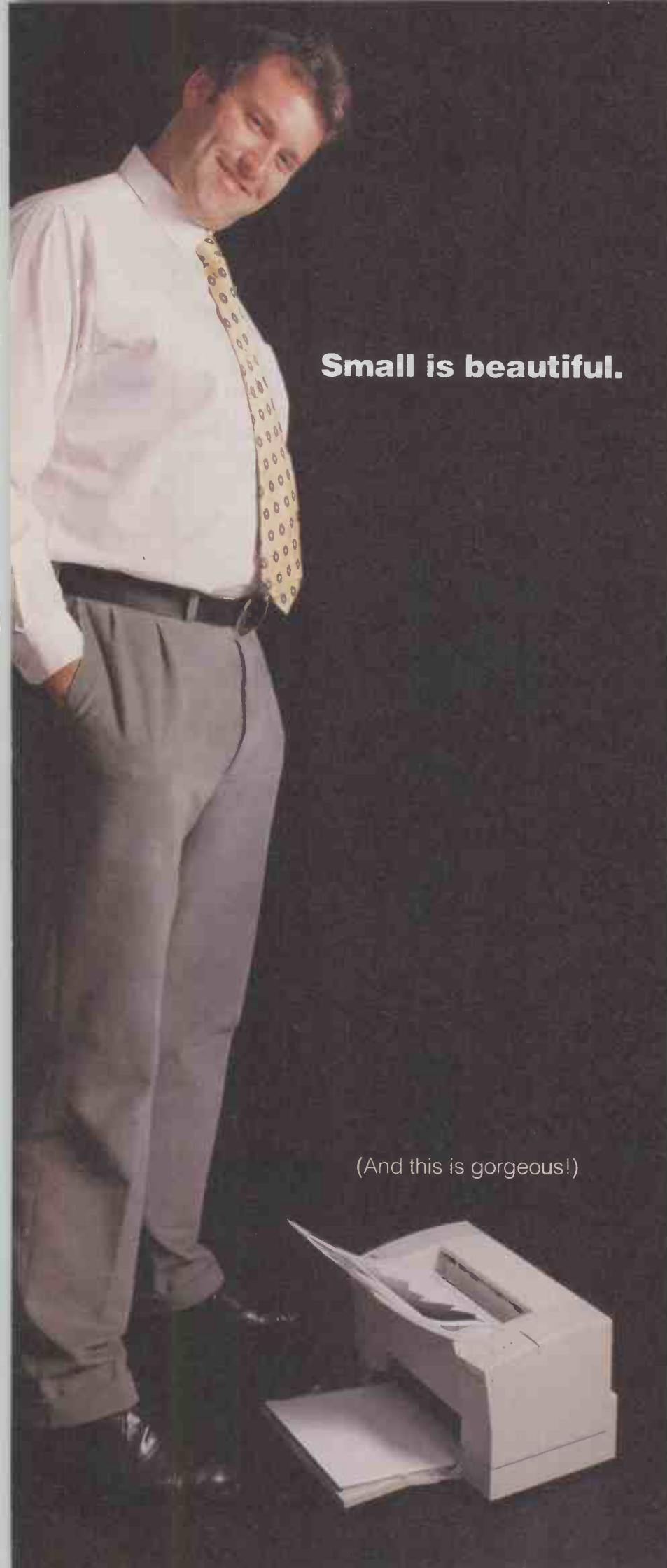
Interchange will "dissolve" into the Web. Apple plans to do much the same with eWorld, which uses technology licensed from AOL.

Microsoft has changed direction, too, with the Microsoft Network. This began as a proprietary network with Internet links, but is now becoming an Internet service with features like the ability to run CD-ROMs remotely. Even IBM's long-running but unsuccessful Prodigy service is busy converting its videotext content into the Web's HTML format. Recent arrivals like UK Online and the Dutch Planet Internet have begun using Internet standards for their own content.

AOL and CompuServe seem big enough to survive the growth of the Web: not by ignoring it, but by including it. For instance, all Web content becomes AOL content and AOL provides a service by picking the best Web sites, adding them to appropriate AOL sections and maintaining links. AOL goes further by caching Web pages and using powerful compression algorithms to send them. AOL and CompuServe can also help new users onto the Internet by providing integrated software, reliable international access networks and telephone support.

Both services are expensive for heavy Internet users compared with "all you can eat" deals from suppliers like Demon, Pipex and others. But even this has another side. When you pay a flat monthly fee, the service only needs to be good enough to prevent you quitting and going elsewhere. When you pay by the hour, it's in the supplier's interest to make it as easy as possible for you to arrive and stay online. An engaged tone doesn't save the supplier money, it "costs" money.

ANALYSIS



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The enemy within Windows 95

DOS may have been a monster but at least it was the devil you knew. Clive Akass tells a cautionary tale.

Windows 95 was supposed to see the back of DOS; a promise that went the way of the one about how the new operating system was going to run on 4Mb of RAM. Actually, I never wanted to get rid of DOS, which is still the easiest way to do some tasks. But a minor disaster preparing last month's Newsprint column taught me that the version lurking beneath Win95's bright new face is a different animal from the one we knew and loved/hated.

I'd been working for some hours, when I needed to look something up on the Web. Instead of using NetScape, as usual, I decided to go online from within Word, using the new Internet Assistant. This is the way we will all be working, if Bill Gates has his way and Web facilities are incorporated more tightly into the Windows environment.

Internet Assistant works, even in the present incarnation, but there are pitfalls for the unwary. I ended up with several Web pages open within Word, plus the document I had been writing. I found what I was looking for

and closed all the documents, ignoring the cautionary prompts.

In my haste I closed the document on which I had been working. And no, I had not backed it up. This was daft, but not that daft: from past experience, I assumed I would be able to retrieve the file. Word keeps a backup, which it opens automatically after a machine crash. The backup would have been deleted in this case, because I had formally closed the document, but under Windows 3.1 and the old DOS I could easily have undeleted it.

Not so, it turned out, under Windows 95. The Recycle bin was no help because it holds only files you delete, not those an application deletes. So I resorted to the new DOS: its Undelete function discovered the backup file but refused to restore it, giving me instead a cryptic message about a Lock command.

I had never heard of this and neither, apparently, had DOS: it did not appear in the Help command list (though I discovered later that you do get a one-line explanation by typing Lock/?). It was getting late, so I entered the word Lock: DOS did not object so I again tried Undelete, and to my relief it worked; six hours of work saved.

But then I could not get back into Windows, which came up with a protection-error

message. Even typing Unlock made no difference. I thought it was a good time to try Digital's new Rescue Service (see January's Newsprint: the service supports all major hardware and software and costs £117.50 to sign on, plus £20 for each call, with the first five free). The pleasant Irishman who answered my call found the answer.

It seems that Win95, partly because of its need to reconcile its long filenames with the old 8.3 DOS variety, does not normally allow applications direct access to disks. Lock is a new command which unlocks the disk for direct access. This allows you to undelete a file. When you have finished, you should immediately type Unlock, which locks the disk again. Makes perfect sense, doesn't it?

The protection fault seems to have been caused by my delay in typing Unlock, but I am still unclear as to what happened. Digital got me back into Windows by suggesting that I bypass my SYSTEM.INI file.

I would avoid using Lock and Unlock unless you have to, or unless you know what you are doing, and be warned that Undelete is not the fallback it used to be (Microsoft tells me there is no Undelete in Windows NT, due to security considerations).

You can avoid the problem altogether by using the new Norton Utilities, which provides a Recycle bin that stashes all deleted files. Or by backing up sensibly like we journalists are always advising. Meanwhile, Microsoft might help by documenting its Lock, Unlock and Undelete commands rather better.

● Digital 0345 440011; Internet Assistant can be downloaded free from www.microsoft.com; Norton Utilities £129 (£139 on CD) from Symantec 0181 982 6363

ANALYSIS

Post haste?

I've been working on a long-delayed feature about packages built around new, combined, fax/modem and sound cards including the MiroConnect suite, featured in January's Newsprint. It struck me how rarely we send email directly to a remote PC.

Email is almost invariably indirect, going through some kind of postbox system. Postboxes have their advantages, but they lack the fax's immediacy and instant confirmation of receipt. Anyone with a slight knowledge of comms can set up a direct phone link between two consenting PCs. The trouble is that there are too many ways of doing it. If everyone were to agree on a protocol, you could send email in the same way as you fax, simply by dialling a phone number.

So why isn't everyone pressing for an agreement? Perhaps you should ask the online services, whose market is driven by postbox email.

Last year was pivotal for the PC industry, showing us for the first time what the information age might look like. But 1996 will bring problems for many PC vendors, who have to deal with shrinking margins (as low as ten percent) and increased competition. To survive, they will have to reduce their manufacturing, component, and R&D (research and development) costs.

They'll have to focus more on key growth markets, too. The target for companies like Compaq must be an easy-to-use loaded multimedia PC that sells for under \$1,000, aimed at the 20 million new homes expected to buy PCs in the next three years. This calls for better ease of use and integration of voice, video, sound and animation.

I expect a big Japanese company, like Sony, to enter the US market later this year with a fully-loaded multimedia PC priced around \$949. This would be a Pentium 75MHz system or better, with 8Mb RAM, a 500Mb-plus hard disk, quad-speed CD-ROM, modem and colour SVGA monitor.

The vendor would be almost giving the machine away at that price, but a Japanese giant might see it as a chance to gain instant market share and become the major PC vendor in the consumer market. This could be a threat to, or an opportunity for, other PC vendors who will have to look elsewhere for their money. The analogy is the razor; bought as a one-off but leading to big sales of blades: the PC becomes the razor, with peripherals, services and software as the blades.

Companies like Hewlett-Packard are in great shape when it comes to peripherals; their margins have been consistently higher than those on PCs. This could be the way Sony goes: selling a \$949 PC at cost price but able to display profitable Sony-



owned movies, CD audio content and games. Sony has the bandwidth and deep pockets to invest in online services, too, which alone could push the rest of the industry in the same direction.

We should see the first PC/TVs designed specifically for the living-room. Most PCs use 14in monitors which sit two or three feet from the viewer. The new breed, due to hit the market this year, will have 30in-plus monitors designed to sit eight feet from the user. These will be high-priced systems but will become the focus of a critical new trend.

PCs will gain importance as desktop replacements. There is a real trend, in large and medium-size businesses, towards using notebook computers as primary computing devices. Although there will continue to be strong demand for desktops, the kind of power you can get in a notebook package is making these computers an attractive alternative.

I also expect to see new PDAs and personal communicators that will help them gain more attention in mainstream computing. They will not be consumer devices but will appeal to those business users who want desktop-class data availability in their pockets.

PC vendors need to kiss Bill Gates' hand for Windows 95. This product alone will drive the upgrade market sky high as users buy more memory, new chips and new computers to run the new operating system efficiently.

But don't expect DRAM prices to come down this year. Windows 95 needs at least 8Mb of RAM to run, and

more is preferred; video, stereo audio and 3D graphics demand more memory, too. So the existing DRAM plants will be running 24 hours, seven days a week, just to keep up with basic demand. But at least four new DRAM plants begin operations in early 1997, which should make DRAM more plentiful and reduce prices.

Finally, I believe Apple will either be bought by, or merged with, another big computer company this year. It has suffered serious losses in market share and its ability to remain profitable has been significantly hindered. It cannot survive on its own.

Bear in mind that Apple has not only to carry out R&D for its hardware business, it incurs heavy costs creating and maintaining new operating systems for the Mac. It has to keep margins above 20 percent just to break even. If Apple has to cut prices just to remain a player in the market, there could be losses unless drastic measures are taken; a major layoff within the company seems inevitable.

IBM, AT&T and Motorola have been mentioned as potential buyers. My vote would be for Sun Microsystems and Apple to merge. Sun owns the workstation and network market but has no presence in the home. However, Apple has a great presence in the home and education market, but very little in business.

But that may be wishful thinking. I have no idea who would really buy Apple with its current problems. But, I think 1996 will be the year Apple gives in and looks for a partner.

The razor's edge

Tim Bjarin predicts the growth of upgrades and peripherals, and the end of Apple as we know it.



Sony could move from PlayStation games machines, into the PC market

ANALYSIS

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Computations

Another amazing subsidy of cars

About seven percent of a car is plastic, and an estimated 1.5 million tonnes of automotive plastic waste is dumped, free of charge, on the British landscape every year. That's the equivalent of 15 supertanker cargoes, and an incalculable subsidy of cars which gets overlooked. Twenty years after environmentalists started worrying about these things, the Treasury has been required by the EU to step in, and (where it is dumped legally) auto-plastic and other junk is going to be charged (as of 1st October, 1996) at £32 a tonne, at landfill. Hardly a radical step, since the tax will raise from auto junk only £33m, which would value a plastic Eiffel Tower at a mere £317,000 — or less than the total cost of a government minister's car. The weight of the Whitehall car itself, in plastic junk, would bring roughly the price of a packet of cigarettes to the public purse.

Most of the dumped plastic is recyclable into things like plant-pots and traffic cones and even back into car bumpers, but unfortunately, by the time anybody has worked out to which of hundreds of polymer compounds a piece of junk belongs, the dismantling of the vehicle has exceeded a 30-minute threshold beyond which the whole operation apparently becomes "unprofitable". Ford has now financed production of a hand-tool which scrapes-and-sniffs plastics to identify them. Illustrating the Soviet-style inefficiency of trans-national corporations, Ford claims to have invested over £3,100m in European environmental protection research programmes since 1984, and they're still, quite literally, scratching the surface.

● Sources: Recycling World/Quid 1995, Robert Laffont, Paris.

STATELLITE

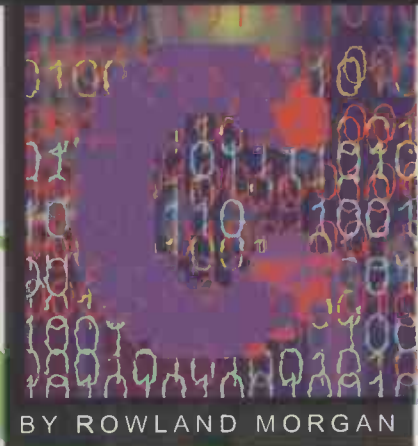
Since the year most hand-held spray-cans were found to be damaging the ozone layer, British Airways' uncatalysed Concorde fleet has sprayed more than 90,000 articulated road-tankers' worth of burnt kerosene directly into it; or the equivalent of more than nine billion spray-cans.

- BA Concorde fleet hours in air since 1976: 109,410
- Litres of kerosene burned per hour: 25,629

● Source: BA Fact Book 1995 (Road-tanker: 31kl; spray-can: 300ml).

Can't they get a handle on this?

Of 18 joysticks displayed at a west London computer superstore, ten were ambidextrous, and eight were suitable only for right-handers. It meant that 44 percent had warped handles. Those writing left-handed in this country are put at between 10 to 15 percent of the population, or about nine million people. Southpaws are believed to include a higher proportion of males, who are



BY ROWLAND MORGAN

STATELLITE

• An average Briton born today can expect to watch TV for 11 solid years before dying — not counting the years spent on games and the Internet.

Source: BFI Film & TV Handbook 1995

• From You Only Save Planets Twice: the clever, useful, Accura 288 add-on modem was overdue from Hayes, but Bond's heart still sank when the shiny new unit slid out of the pulp pack, for embossed on the back was Made In China, and 007 knew that the rogue Taiwanese republic was a member of no international organisation. And, that its 30,000 polluting factories, unlike Europe's, had a licence to use planet-murdering CFCs for cleaning circuitry.

"Money-penny," he gritted, "shouldn't we get Hayes International into line?"

● Sources: National Geographic/UNEP.

particularly likely to use computer joysticks. Among the units which bar up to one-fifth of players from using them properly are: Microsoft's new Sidewinder 3D Pro, three models by Logitech and others by CH Products, 3Mcom and Logic 3.

● Sources: PC World/Anything Left-Handed, the specialised shop in London.

SAMPLE GREEN CONFIGURATION

We regret this item has had to be skipped this month due to extended Xmas breaks at dynamic computer companies.

The petrol smell of cyberspace

However pixelated and ethereal it may seem, the infobahn still reeks of the autobahn. Ranking Number Five in the Top 150 Silicon Valley companies is the global-warming road and air-freight business that is required to carry the forest-packaged, obsolescent, mostly non-recyclable goods all over the face of the planet. Consolidated Freightways clocks up \$18 million per working-day ferrying equipment out of the smoggy glen, burning truck fuel that is one-quarter the price of Europe's, and jet kerosene that is completely untaxed.

● Source: San Jose Mercury News, California.

STATELLITE

Non-renewable petroleum, the weight of 54 Eiffel Towers, is distributed across France each year in the form of plastic parts of electrical and electronic products.

● Source: Environmental report by Jean-Pierre Desgeorges/French Technology Institute.

Winging it in more ways than one

All the Internet nonsense aside, video-conferencing offers really serious promise for saving the planet. Scientists acknowledge that jetliners are dangerously global-warming and can never be catalysed.

Concorde has burned the equivalent of nine billion spray cans up there in the ozone layer, and an eco-crafter called Mr Fred Finn is so proud of having flown in it 700 times, he got his photo into the Guinness Book of Records.

However, he could have travelled his 11 million transatlantic miles in a few seconds by digital image. How long can fossil-mad flying last in its present form? BA's 1995 operating profits increased by 32 percent, although in the same year 28 percent of all its global-warming aviation on untaxed fuel was done with empty seats. Whoever heard of an empty coaxial cable? Surely computer-power can program planes to take off full?

● Source: BA Fact Book 1995 (does not include partner airlines and franchisees; empty includes crew and non-revenue passengers) US Transportation Research Board (extrapolated by 17-yr average annual increase from 814bn in 1993).

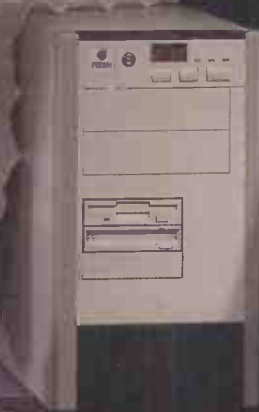
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Scorching Elite⁹⁵ power blows away the competition. See page P344

Sounding Off



Michael Hewitt

Everyone likes to watch lowlife ne'er-do-wells receiving their well-deserved come-uppance. Hence the popularity of programmes such as *Crimewatch* and *This is Your Life*. Similarly, most of us experience an inner glow — even though we won't necessarily admit to it — from seeing some smug, arrogant, self-opinionated git getting the stuffing beaten out of him. Happily, ITV's *The Cook Report* regularly manages to combine the two.

Not only are wrongdoers outed on camera, but in the process they often take the opportunity to give Roger Cook a good kicking, too (no doubt earning themselves a six month reduction in their prison sentence).

Last Tuesday I got the beers in and sat down for Cook's much heralded exposé of "Pornography on the Internet", hoping for the usual mix: "Good morning, Mr Nerd. We've got film of you downloading explicit gifs. What have you got to say for yourself?" "Get that (Beep) camera out of my (Beep) face, you fat (Beep)". Cue spotty anorak attempting to shove a V.34 internal fax modem up Cook's arse.

But it wasn't to be. Apart from some fleeting mention of an anonymous ftp server at the beginning, the programme was mostly about convicted sex offenders and why their names should be kept on a public database. It had almost nothing to do with the Internet. To that end, it was manifestly dishonest. Cook (whom, disappointingly, no-one tried to land one on this time round) had simply inserted "Internet" into the programme's title to get viewers hooked.

No doubt it worked. It is a fact that the words "Internet" and "pornography" are fast becoming synonymous in many people's minds. That's why MPs and judges are having to spend an increasing amount of time away from their mistresses, rent-boys and satsumas to protect us from it and thus uphold public morality. (Or rather, what they usually say is that they're trying to protect our children from it.) But are we, as a nation, genuinely in peril because of dubious images wending their way, tortuously, over telephone lines?

If you're prepared to spend enough time and money surfing, yes, you will find "glamour" pictures online. If you look hard enough — and I'm told it takes a hell of a lot of looking — you can find some really unpleasant stuff, as well. As indeed you can in some of the more seedy bookshops in Soho or on the shelves of the British Library. But then, having located it online, you have to download it.

Take *Playboy's* Web site. Try to ftp the equivalent of all the pictures contained in one month's issue and you'll be on the phone all day. It's far more cost-effective, and less frustrating, to go out and buy the magazine itself. Likewise, for those whose tastes run to — shall we say — the more exotic, it's much cheaper (and safer in terms of maintaining your anonymity) to hire a private postal address and have transparencies mailed to you from abroad. As people did, and still do, before the Internet ever existed.

Nevertheless, say the anti-smut brigade, "girly" magazines and dubious postcards are traditionally kept on the top shelf. It's illegal to sell them to minors, whereas overtly sexual images, and nastier material, do exist online and are easily (*sic*) accessible by youngsters. Hence the need for some sort of regulation. But where's the mention of parental responsibility in all this? If your phone bill is consistently in triple digits and junior is always up in his bedroom, suspiciously silent with his PC, shouldn't you be at least a little interested in what he might be doing, if only from a home economics point of view? And if you're worried that he is ftping multiple downloads of *Miss February* (or worse) shouldn't you be

thinking of installing — or getting someone else to install — one of the widely available smut-busting packages that screen this sort of thing?

Actually, the sort of material that's generally available online and that generally gets politicians and self-appointed guardians of morality hot under the collar is the sort that's been passed around school playgrounds since the days of *Health & Efficiency*, and no doubt before. It's part of growing up. We either grow out of it by our mid teens or else join a rugby club. The seedier material — the stuff that disgusts adults so — merely raises a laugh in children. They're too young to understand it. By the time they might be able to, they've already graduated to their parents' "Lovers' Guide" videos and thence to the real thing. Besides, as I said, even those whose job it is to go online looking for obscene material generally admit that the really offensive rubbish is rather limited and of dubious technical quality.

No, I don't think regulation or "Shock! Horror! Internet Filth!" exposés are warranted. Besides, if I were a politician and I genuinely wanted to close off the Internet, there is a far more simple solution: provide everyone in the country with free Internet access and www software, and encourage them all to set up their own homepages. The whole system would grind to a halt within hours. Not that it's far off doing exactly that, already.

Anyhow, with all the "online filth" disabled, Cookie would have to target some other area. Fruit and vegetables, maybe? "Cucumbers: why is their shape so obscenely suggestive? Incarcerate all greengrocers now!" We'll see. ■

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Homefront



Tim Nott

Shops — who needs them? Thanks to the glories of the Internet, we'll shortly be able to purchase anything our hearts desire, from a pizza to a Porsche, using digital dosh on the World Wide Web.

Once you've got your Winsock sorted, installed your Web browser, signed up with an Internet provider, bound your protocols and got all that IP and DNS stuff under control, it's a simple matter of typing in a Uniform Resource Locator then browsing away. It's the sort of thing the average PCW reader should be able to manage without too much difficulty, providing the URL hasn't changed or the connection isn't dropped in mid-browse. But what of the rest of the world? To the non-anorak-wearer it's about as attractive as shuffling round in the rain with several heavy plastic bags threatening arm amputation.

The computer-and-Internet solution is not just expensive and complex to set up; it's slow and frustrating to use. If I'm trying to decide where to go on holiday, it would be nice to see some video footage. Even with a 28,800bps modem it is going to take several hours to download a few minutes of matchbox-sized video.

Fortunately, most households have a way of viewing instant full-screen, full-motion video using technology that they have already mastered. Add a set-top box and suitable cabling to a television, and armchair shopping becomes a much more attractive proposition.

House hunting? Let's see all the X-bedroomed houses in area Y in the Z price range. Hmm, that one looks good — let's take a video walk-through now. Click here to make an appointment to view in person. Holidays? Browse the videos, click here and someone who actually knows the resort will phone you back. Groceries? Browse the shelves and click — do you want to use

last week's list as a basis for this week's? Do you want to move your favourite shops to the front of the electronic mall? Sounds good, does it not; so why isn't it happening now?

First, there's the question of infrastructure. Most of the cable already laid in the US and the UK is coaxial, which means two-way communication needs a separate channel — such as a second cable or the phone line. So it looks like they'll be digging up the roads again to lay fibre-optic cable. Individual households will then connect to a local (i.e. street corner) node by conventional cable.

The second problem is the cost of the set-top box. Typically, this contains a Power PC chip and 8Mb RAM, bringing the cost to around £700 — almost as much as a PC — and it's unlikely that this will drop in the near future.

So, the boxes will either have to be subsidised down to the magical £299 price-point, or better still, given away free or at a token rental, much in the same way as the highly successful (but now woefully outdated) French Mintel or the current marketing trend for "nearly free" mobile phones. There are huge potential revenues to be made by service providers from transaction charges as well as pay-as-you-go services such as video on demand.

The third obstacle is the attitude of the retailers themselves. With massive investment in high street and out-of-town property, few large retailers are going to welcome a sudden and dramatic change in the means of

distribution. And no mall — whether virtual or actual — can hope to succeed without the presence of "anchor" stores such as BHS or Marks & Spencer.

But even though the big retailers would rather it happened slowly, it will happen — and it is happening. There's a pilot scheme in Cambridge, England, which has the fibre-optic infrastructure. It's happening in Australia, where they dithered for so long over cable that they were able to start from scratch with fibre-optic. So, while the Web may continue to be the place to find that obscure book or CD, those of you hoping to do their mainstream beans-and-jeans shopping on the Web are staring at the wrong screen.

● Thank you, everyone who responded to my January plea for sources and destinations for obsolete equipment. If you haven't received a reply from me yet (hint — email to timn@cix.compulink.co.uk gets answered first) don't give up — the sheer volume of response, coupled with the Christmas holiday and a postal strike here in France, means this is taking longer than anticipated. So don't put that ancient machine in the bin yet — you shall get a reply. Most of all, if you have corporate responsibility for disposing of old equipment, don't take the straight-line depreciation and sledgehammer path. Mail me for a copy of the growing list of charitable organisations involved in recycling surplus kit — so far, these range from disabled drivers in Norwich to secondary schools in Zimbabwe. ■

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Straight Talking



Barry Fox

A friend just bought a computer, making three basic mistakes. You can learn from them all. She went to a shop in Tottenham Court Road that I could have told her to avoid like the plague. If you want to know the name, ask the Office of Fair Trading or local council Trading Standards Officer what electronics emporia they have hit recently.

She bought a colour portable and noticed annoying specks of bright light on the LCD screen. These are caused by stuck pixels. A faulty thin film transistor may be failing to switch its liquid crystal cell, or there may be a defect in the red, green and blue colour filter that overlies the backlit cells. The shop may have demonstrated one model and boxed up another. Even with a demo, stuck pixels may not be immediately visible if the screen is displaying brightly-coloured detail. But they stand out like a sore thumb on a blue wash screen. And, once noticed, they irritate more and more every day.

If you get a blemished screen, or any other dud product for that matter, take it back and insist on a good one. This is your legal right, *even where the goods have been bought in a sale*. Take no notice of brush-offs such as "No refunds on sale items". If faults were not declared at the time of purchase, you are entitled to a refund. You do *not* have to accept a credit note or replacement. You do *not* have to take it up with the manufacturer.

But act fast, and make a copy of any receipt you take back to the shop. Staff have been known to ask to see a receipt, and then tear it up. If you get no satisfaction, contact your local TSO. For more information on your rights, phone the OFT on 0345 224499 for a free copy of their "Buyers Guide".

My friend's second mistake was to fall for the industry's current boy toy play. What she really needed was an all-singing desktop multimedia PC and printer, with a very light and

simple portable for text entry. She ended up with an all-singing, all-dancing, portable PC, complete with CD-ROM drive and card modem and portable printer. It cost more than a desktop and simple portable put together.

With mains adaptors, the portable system is far too heavy to carry round. The printer uses tiddly ink cartridges. The LCD screen is smaller than a cathode ray tube monitor and nowhere near as bright. Because portable keyboards are small, it will be awkward to use for long periods of desktop work.

The third mistake was letting the shop flog her a PC without Windows 95. Sooner or later, she will have to upgrade. Microsoft are clever. They don't advertise the fact that Win95 is easy to load on a Win 3.1 machine, because this would bring the Advertising Standards Authority down on them. Instead, the screen tells you this as you try and load what you have already bought.

Someone has obviously told Microsoft that what the public wants is a computer with only a thin instruction manual. Sorry Bill, but that would only work if loading Win95 were as simple as making toast or tea. It isn't, so the manual is useless.

Anyone who has spent a few years learning DOS and Windows faces a completely new set of problems when things go wrong with Win95. It's like spending ten years learning French, and then being posted to Germany.

Against my better judgment, I tried

loading 95 on two machines, a 486 desktop and a 486 portable. On the desktop, pre-95 anti-virus firewall software interpreted the load as an attempt to alter the DOS/3.1 operating system, tried to repair it and fouled up the system so dramatically that I ended up having to reformat the hard disk. On the portable, Win 95 loaded from a CD-ROM drive running with a DOS driver. But 95 could not then access the ROM drive, because there was no 95 ROM driver available. "Installing the software", it then told me, waiting minutes that seemed like hours before responding to the "cancel" command.

Luckily, when I installed 95 I had clicked on the option that provides for removal. Win95 disappeared, 3.1 reappeared and the sun shone.

Why should anyone buying a new PC opt for one with Win95 pre-loaded? The answer is that at least two new CD-ROMs (Music Central and Encarta World Atlas) are available only on 95 format, not Win 3.1. Their Christmas card contained a games CD to "turn your nerves inside out". It runs *only* under 95.

Microsoft's corporate gameplan is now clear. Just as the record industry drove the CD market by excluding some titles from black vinyl release, so Microsoft will try to drive us into 95 by tailoring the software release pattern. The rest of the industry will follow, seeing it as an opportunity to sell hardware and software upgrades that would otherwise have been completely redundant.

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Business Matters



Nick Beard

How many staff are needed to run information systems? There is no correct answer to this question. There are, however, some hard truths to be found in the discussions which take place when one tries to get a budget for more. Here we will look at the task of building a mandate for the work of an information systems group.

There is a conundrum at the core of the argument about staffing an information systems department. When properly run, a department is an efficient, multi-skilled, multi-tasking group of individuals, vital to corporate wellbeing. Every department in a medium to large-sized company likes to think of itself in this light. It is worth considering, however, how fast a company would get into trouble if various tasks were simply not performed at all. The conundrum is this: it is hard to get the job done right without resources, but it is sometimes hard to get the resources unless the job is being done right. It is far easier to get resources when there are plenty of successes to point to — successes are seen as evidence that resources are being used properly.

Many of the prejudices people hold about IT are based on old fashioned departments. There were the ones which ran the big old mainframes, perceived as inflexible and unresponsive to "user needs", and the ones which simply supported the creeping costs of uncontrolled PC networks — users indulging their every whim at the company's expense. In the past, information systems tended to be monolithic in approach, characterised by large, expensive mainframe computers which provided very little flexibility and equally little user control over information resources.

The rapid spread of PCs was in part a response to the problems of the centralised, mainframe-based approach. However, PCs brought their own set of problems. Disparate, unconnected collections of data sprang up throughout organisations, and crucial enterprise data could

easily be lost. It was quite common for an organisation to be completely unaware of what information resources it had. Since information is a crucial business resource, it is too important to leave to the random selections of disparate users throughout a company.

Information systems and information technology are rapidly developing areas, in which it is possible for businesses to spend very large sums of money for very little return. Such technology needs specialist management — yet a modern, process-orientated department contributes more than technology management. Information services departments may therefore need to consider marketing themselves within the company: gradually teaching employees what a good IS team should and should not be doing.

The first step in building a mandate is to be sure there is proper user representation. We formed an Information Services Steering Committee (ISSC) with a mandate to review and approve the IS Strategy and all suggestions for software and hardware purchases, to set the overall priorities for the IS Department and to monitor progress against project plans. To fulfil this mandate, the ISSC receives regular presentations from the IS Director (that's me, for those of you who didn't know) on the IS Strategy. This allows the strategy to be discussed and, where appropriate, implemented.

With the overall mandate being provided by this group, the department is far better protected against

accusations of failure to deliver, since as long as it does what it tells the ISSC it is going to do, the IS department is delivering. This is not just about "CYA" manoeuvring. This kind of institutional politics is vital in almost all outfits. The job of the department is then clear, and the job descriptions of the team responsible for doing it — such as the technical and systems analysts — flow more easily from it.

The analysts at HCI have clear objectives which point out the process orientation of the modern systems world. Their responsibilities involve maintaining a good understanding of the processes and systems requirements of the department(s) for which they are responsible. This includes understanding relationships between departments and other areas of the hospital, both systems and non-systems. They must maintain a good understanding of the issues as perceived by the people who use the information systems. This is necessary to understand the priorities of the problems as perceived by users, and to help maintain a consensus within the department(s) as to these priorities. Escalation is inevitably necessary at certain times, so the analysts must have a sufficiently good understanding of issues and their impact on the hospital to escalate issues appropriately when they need to.

An important part of their job, however, is to be an effective advocate for the IS Strategy. A strategy should sell itself by virtue of the benefits it brings: if only life were that simple. ■

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Letters

Does not compute

I must point out the thoroughly bogus statistic in Rowland Morgan's *Computations* (PCW, January 96) stating that: "One in every 33 CD-ROMs makes money, and they cost an average £325,000 to publish, meaning you begin to cover the odds only after a £10.7 million investment."

This merely says that, on average, 32 out of 33 CD-ROMs make less than their production costs (on average £325,000) and that one makes more. It doesn't say how *much* more.

The calculation performed above assumes that 33 CD-ROMs must be published to ensure one success, and that the one successful CD-ROM will generate enough income to pay for the 32 failures; both of which are highly dubious assumptions.

If this really did come from *Newsweek* (29 May 95) as stated, then they ought to be ashamed. PCW ought to be ashamed for printing it too.

Nick Craig-Wood
ncw@axis.demon.co.uk

Rowland Morgan replies: *It is kind of Mr Craig-Wood to write in but he should relax. Computations only said that you begin to cover the odds with a £10 million investment.*

Statistics are only as strong as the validity of the point they serve to make. I

believe Mr Craig-Wood would not disagree that publishing interactive CD-ROMs is still not the stuff of cottage industry and in that sense is a field of investment that goes against the infobahn trend.

PC equality

If Polly Bird ("One for the Ladies", Letters, January 96) had email, she would not only work more efficiently, but be able to instantly send copies of her letter to the *Guardian* and the *Independent*, where they belong.

As far as I'm concerned, computers are for both (or do I mean all?) sexes, without discrimination. In our household, it is not uncommon to see my daughter giving lessons to her elder brother, who has still not emailed me from university after a whole term there.

Maybe next month you could review the latest version of the PC (politically correct, not personal computer) Grammar Checker? Sorry this is such a short letter — it's my turn to cook tonight.

Tim Wood
timwood@cix.compuLink.co.uk

Hats off to Apogee

I ordered a copy of Wacky Wheels by fax, direct from Apogee in the States at the end of November. It was for my son as a Christmas present, and something he

badly wanted.

Mid-December came and went with no delivery, so I emailed Apogee who replied that it had been despatched on 4th December.

With just over a week to go before Christmas, I emailed George Broussard at Apogee to ask if they could email the files to me if the package hadn't arrived by the 21st. He replied, saying he would sort it out for me.

We were relieved when the package did arrive on the 19th, bearing an "inspected by customs" sticker. But we were surprised the following day to receive a Federal Express parcel from Apogee containing another copy of the game.

The cost of the FedEx service must have been close to the price I paid Apogee for the game, and I take my hat off to them for pulling out all the stops to help make my son's Christmas.

My thanks go to George and his team at Apogee, and I sincerely wish them a prosperous New Year.

Jeff Yates
yatesj@sequent.com

Bargain board blues

There are many of us trying our hardest, with very limited resources, to keep pace with the rest of the field in the increasingly expensive love affair with PCs.

We read all the magazines (particularly PCW) to learn about the latest tips and innovations. We pore over the ads, ever hopeful of finding that CD-ROM or video card which gives us the justification we need to tell our wives: "I have to get one because I can't run any more software on what I've got. And it's such a fantastic bargain that I would be a fool to miss it."

But rather than buying those products which have been recommended by the magazine experts, we resort to buying those which are "compatible" or "lookalike", simply because they are a hell of a lot cheaper. Or are they?

Last August I was working in America for a while. During my stay, I visited a store selling PCs and peripherals for incredibly cheap prices.

I simply "had to have" an internal modem for my PC. There were some good prices on US Robotics gear, but still too high for me. Then I spied a Reveal PM500 internal modem for an amazing \$60 (about £42). What a bargain. I had to have it. No choice. Even though I remember an article by PCW's Barry Fox, warning of the dangers of buying PC equipment in the States. He was right.

Arriving home I inserted the board and tried to install the software, but the floppy disk was corrupt. Not to worry, though; I already had QuickLink II so I used that instead. And that was when I discovered the promised data compression was only software driven and, of course, I didn't have the software. Not only this, but I was having all kinds of problems trying to send faxes and connect to the Internet.

So I rang Reveal, in California, and told the company my problems. It responded by telling me that I probably didn't have the board set up correctly; another disk would be sent to me with the software.

That was back in September. The software never arrived, despite my numerous emails and contacting Reveal through its CompuServe forum. The store where I bought the board didn't care about me and the manufacturer of the board didn't seem bothered, either.

Now, the only real solution for me is to throw the Reveal internal modem into the canal and buy a modem from a reputable manufacturer. But then again, I may just have to look around for another bargain. Well, you've got to, haven't you?

Steve Dodson
Milton Keynes

OS/2 heaven

I take three computing magazines, including *PCW*, on a regular basis and I read many others casually.

It is frightening to see how the power of the almighty Gates dollar can bamboozle so many people — not only the generally unaware PC-owning public but also supposedly clued-up computer journalists — into thinking that Windows 95 is the best thing since the invention of the flying toaster.

I have just been reading the correspondence in your Letters pages (*PCW* November 95) headed "Focus on Windows 95". It is true that IBM's marketing strategy, as far as OS/2 is concerned, has left a lot to be desired.

However, anyone who has had the courage to ignore the Microsoft siren, purchase Warp and download from the Internet some of the uncrashable native OS/2 shareware apps, will think they are in heaven.

By today's reckoning my hardware is prehistoric: a 386 SX25 Commodore with 8Mb RAM, 200Mb HD and external 14400 modem. But I can, and do, quite happily format a floppy, receive a fax and write a letter on IBM Works, simultaneously.

My point is that although OS/2 native apps may be in short supply, those which are being written are superb. With IBM's acquisition of Lotus I forecast a burgeoning of the supply, which together with OS/2's mature and virtually bug-free code must pose a significant threat to Microsoft's virtually complete PC software hegemony.

One does hope of course that the current IBM management have learnt not to hide their light under a bushel. If they know what's good for them, they will have learnt to be up-front about the fact that they have the best-by-far practical PC operating system in the world. I would

also like to add that my only connection with IBM is as a customer.

Peter Rodriguez
Auckland
New Zealand

Paper tiger

Joanna Scott's news item (*PCW* January) gives the impression that CD-ROMs will save trees, stating that the "coming 4.7Gb high-density CD would save 78 trees". Does she have a printer connected to her computer?

As a PC user since the days when a mouse was something the cat brought in, I feel confident in saying that the PC is responsible for more "tree deaths" than any other 20th century invention.

I can remember the predictions that computers would lead to a paperless society; what a joke! The real truth is that people still like to read hard copy. The proof of this is in *PCW*'s own sales: readers prefer paper to cathode ray tubes when it comes to permanent records.

Terry P Byatt
terry@byatt.demon.co.uk

Report on service providers

One feature of particular value in *PCW* is the hardware reviews. These make a solid attempt to assess and report the various attributes of products in cold, hard, numerical terms, and then complement this with textual interpretation of the numbers.

It seems to me that a similar approach could usefully be applied to reviews of Internet access providers.

I have seen tables quoting the bandwidth of their Internet feeds, the number and highest speed of the modems they own, the number of PoPs they have, and the cost per month of subscription. But in my experience, these are poor predictors of the level of service we can expect from a service provider.

What I want from my

service provider are these core functions:

1. When I call it, I want it to answer — every time.
2. When it answers, I want it to connect and log me in successfully — every time.
3. When I am logged in, I want to be able to download data (newsnet articles, Web pages or ftp data) at a speed limited only by my equipment, until I log out.

Knowing that "Provider X" has many high-speed modems and hefty Internet feeds might be taken to imply that I am likely to get excellent service from it. This may well be an invalid assumption, mainly because the loading of that equipment is not taken into consideration.

I am sure that many of your readers would find this data invaluable, and that (in the long term) providers would be encouraged to keep their service levels ahead of the growth curve, instead of behind it.

Chris Wesley
(email address withheld by request)

Support for LCD

I was surprised that Simon Rockman considered the Opti LCD desk monitor to be a "waste of money and desk space" (*First Impressions*, *PCW* January 95).

I use a Datalux monitor which is very similar and, for me, it has four main advantages over the traditional Cathode Ray Tube monitor:

1. Bulk — the screen occupies only a few inches of desk space.
2. Portability — I can easily lift it out of the way to clear my desk of equipment when the



The Opti LCD has advantages over CRT

Hindsight

15 years ago, March 1981

When the power is switched off, any program stored within most computers is lost. For this reason — as well as for those occasions when the program bombs — all computer users feel the need for some form of long-term storage of programs... Three methods are in current use — magnetic tape, paper tape and magnetic disk...

Update

Magnetic tape still gets used for backup but paper tape is now part of computer history.

5 years ago, March 1991

Microsoft reacted swiftly to an article in the *Wall Street Journal* which reported that OS/2 was being shelved in favour of Windows. Steve Ballmer, vice president of Microsoft's system software division, went as far as to declare outright that "OS/2 is not dead".

Update

OS/2 is still not dead, quite. But Microsoft has long since ceased any involvement with the product's development.



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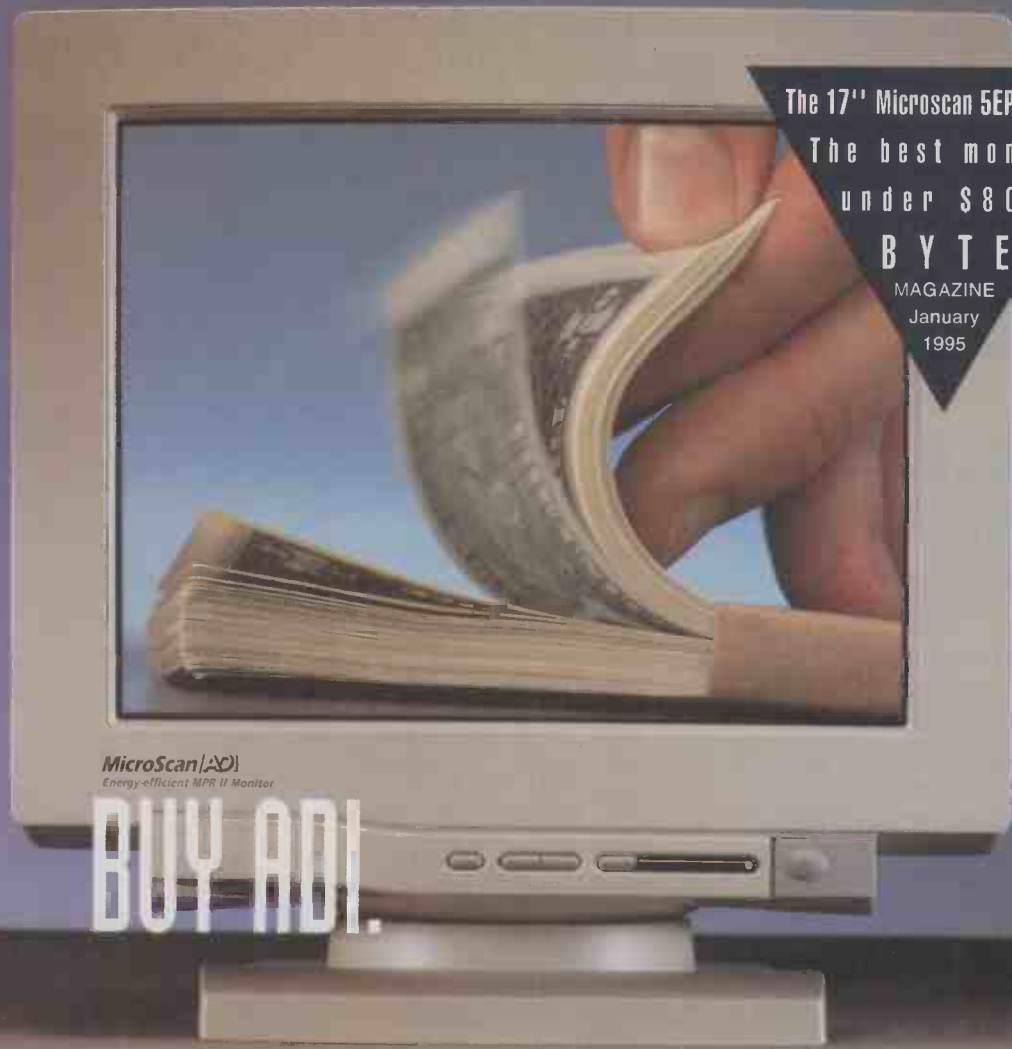
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More than just a monitor

computer is not in use (the remainder of the computer being on the floor).

3. Appearance — it does not appear to my visitors that I have a TV set on my desk.

4. Eye strain — I find the LCD screen to be much kinder to my eyes than the glare that comes from a CRT.

I take the view that flat-screen monitors will eventually replace CRT monitors entirely. Obviously Simon Rockman does not agree — neither did the producer of the film *Blade Runner*, who used CRT monitors throughout the film despite it having been set many years into the future.

Jeremy Gordon
McDuck Software

One man, one modem

I am one of those fortunate surfers who has the luxury of free local calls thanks to a Videotron-provided phone line and an Internet provider who connects to Videotron.

I know there are also many fortunate surfers (*sic*) who have their telephone bill paid by their company and don't have to dig into their

own pocket (but I'm not talking about them). The problem is that such users have no incentive (other than sleep) to log off and free up a modem.

How long can Internet providers allow this to continue? Videotron may well gain an edge in the marketing stakes by providing free local calls at certain times, but it doesn't pay for the modems at the PoP, does it?

If it is to satisfy demand, an Internet provider needs the same number of modems as it has customers, with free telephone call access. Mine doesn't, and that proves my point.

One solution would be for the Internet provider to have a dedicated line for all its customers who provide their own remote modem.

The disadvantage of this is that the Internet provider must still pay for the telephone line. But are providers really going to complain if they have happy customers and don't have to pay for modems?

Michael C Hicks
mike.hicks@private.
nethead.co.uk

PCW replies: *In the States, where local phone calls are generally free, service providers charge by the minute. Eventually, service providers working with Videotron will have to go the same way. It's never going to be economic for a service provider to have one modem per customer.*

The Word is out

What is the point of spending nearly £300 on version 6 or 7 of Word for Windows when one can still buy version 2 for £39.99 plus VAT (the price one currently pays to Morgan Computers)? If you buy Word 2 rather than Word 6 or 7, you also have an absolutely legitimate copy of a word processor that is *much* faster to load and work, requires less disk space for both program and files (WFW2.0 *.doc files are significantly smaller than their v6 counterparts), and has fewer bugs.

I have seen Word 6 working on my friend's computer, which is the same as mine, and the difference in speed between v2 and v6 is

quite dramatic. I understand that Microsoft is aiming directly at big companies as its prime clients, but how about the individual?

Version 2 works absolutely fine under WFWG3.11, Windows 95 and OS/2 Warp, and for users who need to be "compatible" with Word 6 files there are:

(a) WordPad in Win95; and
(b) file convertors widely available on the Internet, CompuServe and the rest.

Where is the logic? There can be no excuse for not having a legitimate copy of v2 for a given price, but why should anybody pay more than six times the price for a software product which is much slower, puts unnecessary demands on hardware, and is overloaded with features that 99 percent of people never use?

Microsoft can call its newer versions "big progress", but as they are effectively worse than the previous version it just stimulates a new wave in software piracy — and nothing else.

N Demidenko
Guildford, Surrey

Some service; still no smiles

Gateway grouch

I read your article, "Some service; no smiles" (*PCW* February) with interest. You may want to add my story to the growing catalogue of Gateway horror stories.

I placed my order on 14th November and eight weeks later (10th January) eventually received my P5-133 Elite.

Early next week I have to go to the Far East for a short time, so I will hardly have had time to take my machine out of its box and test it within the 30-day return period; and I am not sure that I have received everything which should have been included.

I am very unhappy with Gateway's service and I would concur with the questions that you raise in your article about direct sellers.

I think that for me, the worst aspect of this is that I have not been able to get through to anyone at Gateway who has taken any responsibility, or shown any concern, for my order. This is a terrible way to run a telephone business. I have a telephone banking service which I would chuck at once if that organisation behaved like Gateway — but it doesn't.

I've had several disasters with my bank (for instance, a cheque paid in but lost) and it has come through with great credit: its staff has been professional, courteous and efficient in clearing up errors. Gateway has shown none of these qualities.

I rate Gateway absolutely zero in the customer service stakes.

Henry Ellingworth
henry@fujitsu.co.uk

Time lapse

I found your article, "Some service; no smiles", to be both apt and timely. As you will see, I have been forced into having to put pen to paper as I do not have my PC at the moment — it is now (hopefully) on its way back to Time Computer Systems.

I received it just before Christmas and have since found many problems. The company's software helpline is exorbitantly costly and you are lucky if you can get a ringing tone rather than an engaged tone. The customer services department supposedly has 34 lines: but just try getting one — when you do, it will ring and ring until it cuts you off by its own volition. You are then back to square one.

Hardware support will keep you waiting for 20 minutes on average and then you learn that

if it is a problem remotely connected with software, "sorry, you must call the software line". You cannot talk to the manager of the technical department as he hides behind a "mail only contact" parapet. When a pick-up is promised for your PC, it does not happen and you are back to the frustrating loop of trying to contact Time customer services.

Is mine a common complaint? If so, please print a warning that by buying direct you may be opening yourself to potential stomach ulcers and heart failure because certain companies cannot support their sales. Please do not print my name and address as I would like to get my PC back in an operational state!
(Name and address withheld by request)

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Microsoft

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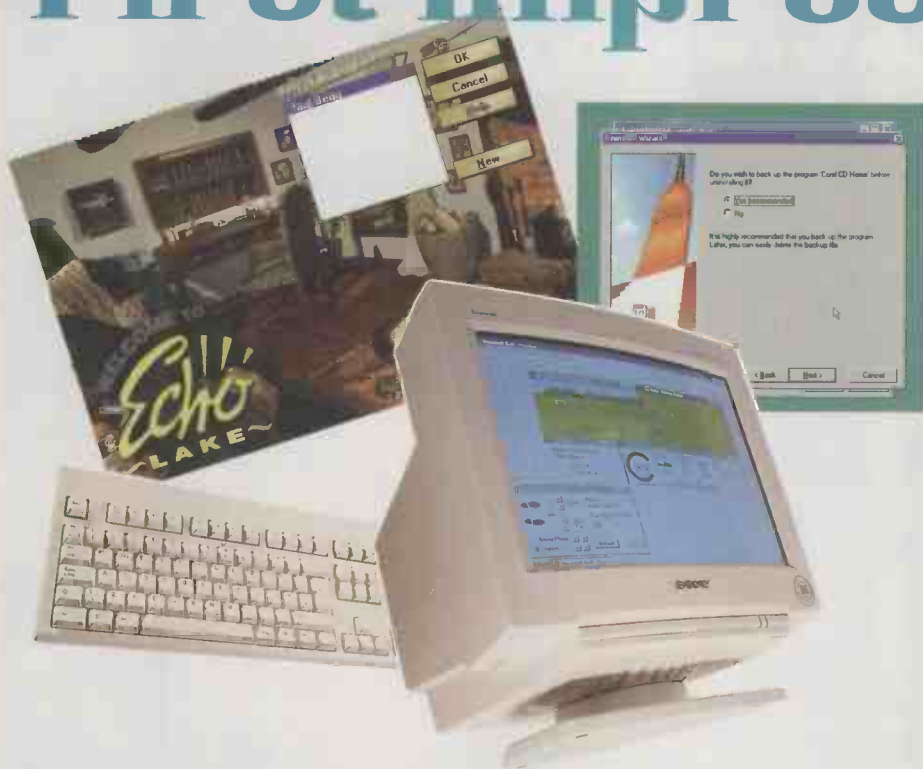
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First Impressions



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First Impressions includes the irresistible "Gadgets" selection on page 57. Highlights include a Panther Premiere to pounce on; a new PagePlus for home and office DTPeople; the Internet-ready Integra and the similar Z-Station PCs. Take a new direction in life with GPS mapping; or have hours of fun with the Sugar Men Again... sorry, we mean Anagram Genius.



VNU European Labs

VNU Labs tests cover every kind of hardware and software including PC hardware, printers, network products, modems and software applications. The tests are continually developed and enhanced to reflect

hardware and software developments.

Our tests closely simulate real-world use. For example, the suite of PC hardware benchtests uses complete versions of industry-standard applications like Microsoft Excel and Word for Windows, WordPerfect 6.0 (DOS and Windows), Lotus 1-2-3 version 3.4 (DOS) and FoxPro (Windows and DOS).

Application tests are the backbone of all the VNU Labs system evaluations but it's nearly impossible to pin an application result to a specific machine component. Only system-level tests (also known as low-level tests) can reliably tell the difference. VNU Labs' system-level test suite is called Euromark. The tests, which are mainly Windows-based, quickly size up a hard disk, sound card, motherboard, display adaptor and printer, and give individual and overall figures.

● To make them easy to read at a glance, all the graphs in PCW are now drawn so that the bigger the

bar, the better the result. Normally we'll also include the original data we worked from: for example, the time in minutes and seconds to print a page in a comparative test of printers.



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PCW/600/00/03/06

GPS mapping for Psion Series 3a

There was a time when every gadget fanatic yearned for James Bond's in-car navigation system. That fantasy is now a reality for anyone with a Psion Series 3a. Steve Litchfield has done the right thing by making up cables to connect the ubiquitous Series 3a to a variety of Global Positioning System (GPS) devices. Using Litchfield's Mapper software, you too can have a portable navigation gadget complete with a big cross to mark your spot. Those special agents will never catch you now. See page 76 for a full review. Mapper software on floppy disk **£14**, and cable to GPS unit **£35**, from Steve Litchfield on **01734 265081**. The Garmin GPS 45 unit pictured here **£325** from Garmin on **01794 519944**

Interlink DeskStick

Nipples are pointing devices which control your cursor's position with a short, firm wiggle of your fingertip; the harder you press, the faster the cursor moves. Found wedged into many notebook keyboards, Interlink has brought the nipple to the desktop by fitting it into a trackball-type case, with two large buttons and a comfy space to rest your wrist. Price **£49.95** from Capitol on **0181 569 9958**

Logitech PageScan Colour

Banish those flatbed blues with this cute, all singing, all dancing PageScan Colour from Logitech. Not only does it scan colour sheets, but it comes off its moorings to scan books, magazines and anything else you need in electronic form. For a full look at this and seven other document scanners, see the feature on page 172. Price **£299**. Contact Logitech on **01344 894300**

Gadgets

PCW Gadget Photographs by David Hoyle

HARDWARE

Panther Premiere

The Panther sports the brand new M1 chip. With this price and performance, says Adele Dyer, Intel should watch its back.

The M1, or 6x86, from Cyrix has been awaited with baited breath for over a year. It was first announced in December 1994, and has only just come into full production. The chip, as one might expect, is targeted as a competitor to high-end Intel products but aims to span the divide and take on both the Pentium and Pentium Pro ranges. It will be available in 100MHz and 120MHz clock speeds.

Cyrix claims the performance of the 120MHz 6x86 will rival the P166 running 32-bit code under Windows 95. Unfortunately, the 100MHz machine Panther supplied arrived so close to our date of going to press we were unable to run our 32-bit tests. Consequently we based these initial conclusions on our regular 16-bit bench tests and the Doom 2 speed test. We will run 32-bit tests on the M1 shortly, comparing it to a range of chips including the Pentium Pro and the latest Pentiums.

One further claim by Cyrix is that the

M1 will rival the Pentium Pro running 16-bit code. It is well known that Pentium Pros have a problem running 16-bit code — it effectively gets stalled in its multiple pipeline architecture and thus runs much slower than your average Pentium. The Cyrix architecture smooths out the problems of optimising both 16-bit and 32-bit code by using RISC architecture with two pipelines and an increased number of pipeline stages to avoid execution halts.

In the Windows 95 application tests, the 100MHz M1 was comparable to Intel P150s, even slightly outpacing them, but it was well behind them in the DOS application tests. In the Doom 2 test, the 100MHz M1 scored similarly to an average Intel P120; a slightly disappointing score. It is worth pointing out, however, that the 100MHz M1's score on Doom 2 was around double the average of the Pentium Pro's, indicating that it is a better all-rounder for those still wanting to run 16-bit applications.

We were quite happy with the overall performance of the Panther machine. We had initial problems with the BIOS, using first an old pre-production BIOS and then a full production version of the BIOS. Both versions produced some unexpected and serious errors when Windows 95 was booted for the second time. The BIOS made significant changes, putting the video card at a different address and altering the parallel port address from LPT1 to LPT2. As we were trying to connect the PC to the network via a Xircom parallel port adaptor, this was a major headache.

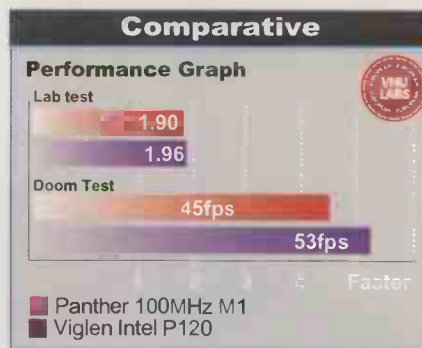
However, a corrected version of the BIOS should be available by the time this issue of *PCW* is on sale.

The other parts of the machine were of a high standard. The motherboard was an Intel Elite. The M1 uses standard ZIF sockets, in this case Socket 7, making it easy to swap from one chip to another with only minor modifications. The 2Mb VideoLogic Graftixstar 700 card is one of the best on the market, while the hard drive is a 1.6 Gb Western Digital Caviar. The sound card and CD-ROM drive are both by Aztech. The CD is six-speed and the sound card with daughterboard offer wavetable and 3D sound. 16Mb of RAM were installed in two of the four SIMMs slots and there was 256Kb of pipeline burst cache.

The 15in MicroScan 4v monitor by ADI could support 1024 x 768 at 72Hz, non-interlaced. The graphics card can drive 1024 x 768 in 65,536 colours (16-bit high colour), and in this mode the monitor coped well but looked better running at 800 x 600, which the graphics card can drive in 24-bit true colour.

We should stress that this review is very much a first look; on a price/performance ratio for everyday 16-bit Windows applications, however, the 100MHz M1 is competitively positioned. At a comparable price for a P120 and at about £300 less than a P150, it is a good contender for 16-bit applications. How it performs against the Pentium Pro and the Pentium on 32-bit applications may prove to be the crunch.

On first inspection it looks like it might give Intel a run for its money, and we look forward to testing the 120MHz version.



PCW Details

Price £1,999

Contact Panther 01442 253811.

Fax 01442 250657

Good Points Good overall, and a well-specified machine.

Bad Points Brand new and hence unproven.

Conclusion Looks promising for a combination of 16 and 32-bit apps.

SOFTWARE

Serif PagePlus Home/Office Edition

Fast and fun DTP, well adapted to Windows 95.
Look no further, says PJ Fisher.

Serif seems a pretty good friend of Bill and his new OS as PagePlus has some rather familiar blue and white skyscape on the packaging and you are greeted with the question "What would you like to do today?" when you first launch.

colour picker resides on the right of the pasteboard, making it easy to pick both colours and shades just by clicking.

Serif has created a useful tool called the Change Bar. This consists of a number of slider bars which alter the shape and fill of boxes, the size, weight

and leading of text, and even the colour and shading of pictures. Such methods of playing with type may make hardened typophiles cringe. For the rest of us however, it is a highly useful and easy way of setting headlines, and even body text if you are feeling adventurous.

A package nested inside PagePlus is WritePlus, a cut-down word processor that allows you to work directly on text placed inside documents. It

buttons. However, text wrap is sophisticated for a product at this level. Another frustration was that text must be imported without any paragraph breaks, in effect as raw text — otherwise PagePlus has a tendency to insert huge irremovable gaps between paragraphs.

PagePlus has no capacity for user-defined text Styles. You are stuck with the default headline, body and header styles with no way of setting your own. If you want to format type you have to do it manually by applying through text dialogue boxes.

Another disappointment is the promised Internet design capabilities. You cannot, as is suggested, create Web pages with Serif. The deal is that you can create documents with hyperlinks that can then be saved as .PDF files and read in Adobe Acrobat Reader (supplied), which can now be embedded in Netscape 2.0.

But the strengths of PagePlus outweigh its glitches — it is a proven favourite which has been well adapted to Windows 95. Microsoft Publisher may have grown up to include some industrial strength features, but is still significantly more expensive than Serif. If you want fast, easy (fun even) desktop publishing look no further than this.

For the moment this remains a standalone package but Serif will undoubtedly include this version of PagePlus into its Win 95 office suite in the near future.

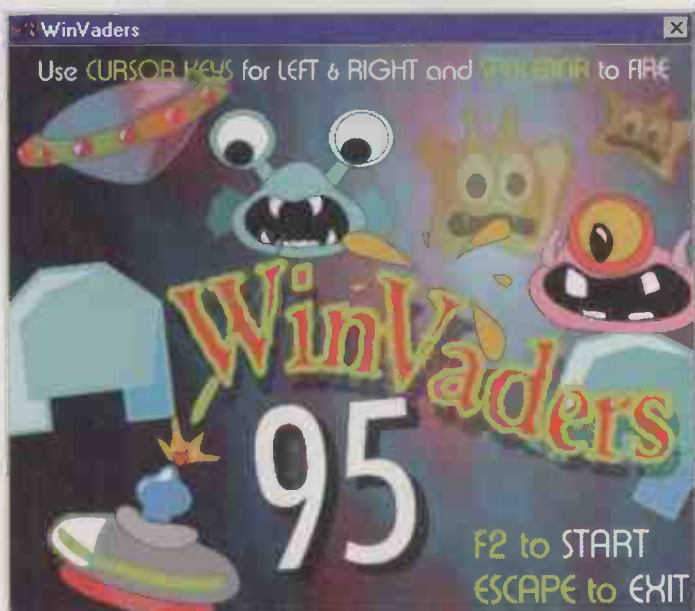
PCW Details

Price £49.95
Contact Serif UK 0115 942502

Good Points Fantastic value, can be picked up in minutes, superb online help, integration with Windows 95.

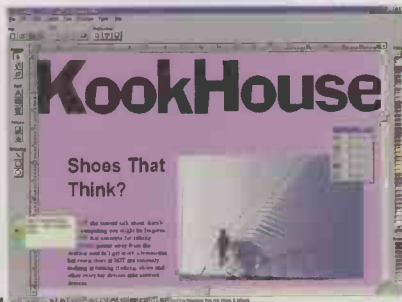
Bad Points No user-defined text styles, quirky text import, misleading Web capabilities.

Conclusion Perhaps not as many bells and whistles as Microsoft Publisher but limitations can be overcome. At this price (and probably cheaper) this is entry-level DTP that can't be beaten.



Above Bored with DTP? Serif has a game ready and waiting

Right The crisp, clean interface makes PagePlus a breeze



First off, forget the manual — you just don't need it. This really is software that you can install (you will need 10Mb of disk space and 8Mb of RAM) and use almost immediately. Such is the simplicity of the interface and the ease in which you can get things done. Here is one of the neatest interfaces yet designed. I especially liked the rulers, which unlike many other DTP packages, actually clearly displayed where objects are on the page and their measurements. The

includes a spellchecker, word count and search and replace. A similar tool is one of the best parts of PageMaker — it is good to see Serif adopting such a device.

Importing text is easy and it flows automatically into frames which can then be configured via the ChangeBar, allowing you to change columns on the fly. Text can be made to flow and link to other frames, although this is a fiddly process involving clicking on frames and

HARDWARE

Zenith Z-Station LC vs Amstrad Integra PowerPro 90

Superior software bundling and true Internet-readiness make the Integra the obvious home PC choice, says Ken McMahon.

The Zenith Z-Station LC and the Amstrad Integra are two new additions to the growing band of home PCs which look and behave more like domestic appliances than office equipment. Amstrad has more experience in the consumer electronics market, Zenith is more associated with high-end business and specialist PC products.

Externally, there's not much to tell the two machines apart, in fact they look virtually identical. Both incorporate the monitor and processor unit in one portable box so you don't have to worry about too many trailing leads. Apart from the colour, the cabinet and chassis are identical, though the CRT on the Zenith is slightly flatter than the Amstrad.

Below the screen there's a row of four picture adjustment knobs and below that the front of the system unit houses two speakers, floppy and quad-speed CD-ROM, standby switch, volume control and mute switch and headphone and mic sockets.

When you take a look at the back of the machines, configuration differences become apparent. Both machines have two serial and one parallel ports, plus a joystick and sound in and out ports. Removing two screws allows you to slide the chassis out of the casing like a drawer.

The internal construction looks very similar, though some components differ and the Amstrad is a more powerful and highly specified machine.

The Amstrad sports a Pentium 90 processor fitted in a ZIF socket, while the Zenith has a P75. The other major difference is that two of the Amstrad's three ISA expansion slots are occupied with a modem card and a TV tuner/MPEG video card, while all three ISA slots on the Zenith are empty, though an MPEG card, TV tuner card and Fax modem card are available — both machines sport a spare PCI expansion slot. Both machines are fitted with a 520Mb hard disk and 8Mb RAM in two banks of 72-pin SIMMs. There are two

spare SIMM slots so you could easily upgrade to 16Mb by inserting another 2 x 4Mb SIMMs. The maximum is 128Mb.

Video processing is handled by a Cirrus Logic GD5434 chip on the motherboard with 1Mb RAM, expandable to 2Mb. A Creative Labs Vibra 16S sound card is mounted on a central riser and there is a daughterboard midi controller which provides the joystick and sound sockets.

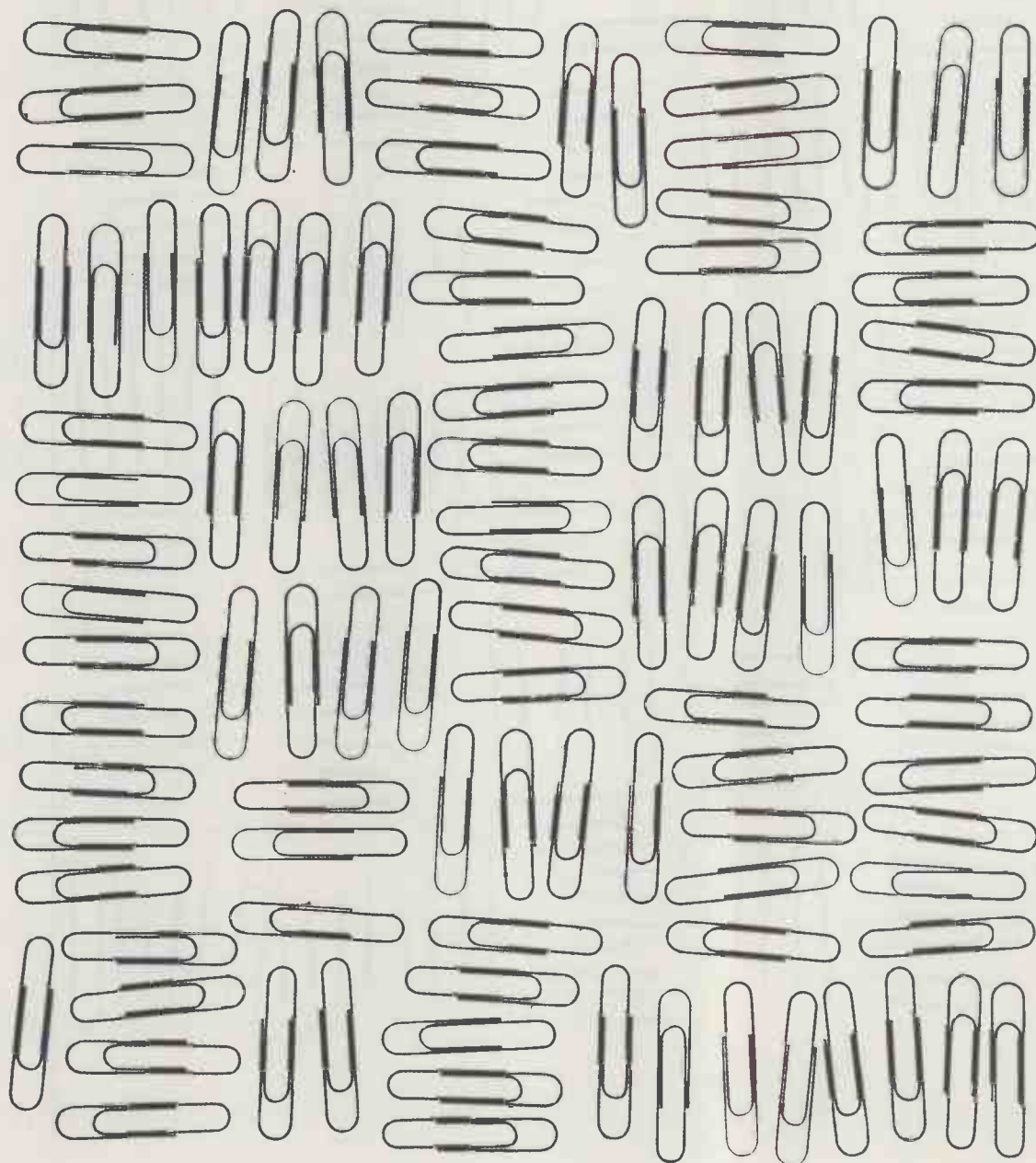
Switch on, and any ideas you might have had about these machines being identical twins is soon laid to rest. The Z-station is preloaded with Windows for Workgroups 3.11, although a free upgrade to Windows 95 is available. Other than a few utilities, video clips and Creative Labs Sound Ensemble software, that's your lot. So this is hardly what you'd call a home-ready PC.

The Amstrad Integra is a total contrast. Pre-installed with Windows 95, it's brimming over with home office, multimedia, comms and games software. The list includes Quicken 4.0 accounts, WordPerfect Works, Encarta 95, Links 386, Descent Destination Saturn and Midisoft's Sound Impression.

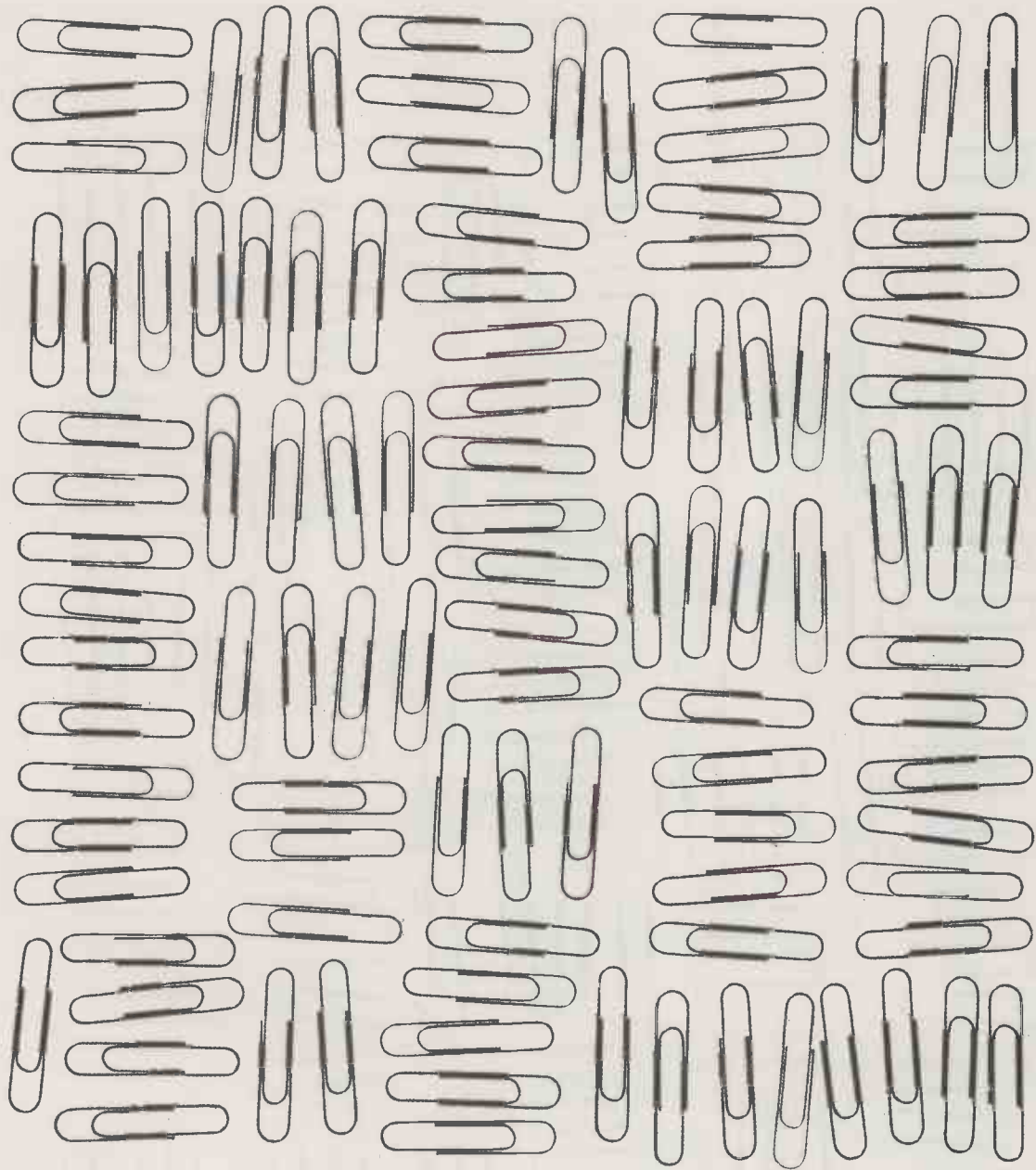
There's also software for controlling the Dataflex 14,400 fax modem and the TV tuner and MPEG card. The comms software is Cyberworks, which offers a full suite of fax, conferencing, scheduling, call logging and voicemail facilities. Integravision software provides access to the TV tuner, allowing you to view TV in a window and capture single frames. You



The IT Manager's guide to a better life: Easier ways of doing things. To recreate the experiences of an IT Manager under battle...er...audit conditions, look at these paperclips and memorise their number and position relative to each other. Now turn the page whenever you're ready...



...and try and say exactly what the differences are between the page. Tricky, even for a Network Manager. You're used to the map of all your hardware and software. But naturally, even though you know you can't be expected to remember everything. That's why



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remotely,
scuffling
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The Compaq Deskpro is truly "network ready":

Integrated high performance PCI Ethernet NIC

IBM Token Ring Adapter Option

Intuitive network Setup guide

Optimised pre-installed drivers for major network operating systems

PLUG AND PLAY

The Plug and Play BIOS specification is an industry standard developed by Compaq. Plug and Play capability provides easy Setup and configuration by allowing the system to automatically configure boot devices and system board devices.

SYSTEM ARCHITECTURE

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Monitor not included. 171FS monitor shown.

DESKP81



For further information, memorise 0990 23 24 25. Then dial it.

can grab frames from a VCR or camcorder and play Video CDs via the the MPEG card. Most of the software functions of Integravision can be accessed from the handheld infrared remote controller, so you can use it as a TV or Video CD player from the comfort of your armchair.

When manufacturers say their PCs are Internet-ready, they usually mean they have a modem installed. This is bit like describing an egg as an oven-ready chicken. The Integra is truly Internet-ready in the sense that you can plug it in, connect the lead from the modem card to your telephone socket and go online. It comes with a free 30-day trial subscription to Demon Internet and the software is preconfigured for logon to Demon, initially to an 0181 number, together with clear instructions on how to get started and switch to a local Point of Presence.

Documentation for the Integra is fairly good, though the manual could do with an introduction explaining the basics, and an index, or at least a table of contents. Otherwise it's very comprehensive and detailed. Documentation, like everything else supplied with the Zenith machine, was minimal and inadequate.

The Integra is everything a home PC should be, pre-configured and ready for most things a home user is likely to want, from domestic accounts to Internet access and games.

The Zenith is essentially the same machine in need of at least one pre-installed hardware expansion option and some applications software for the home user to get started with. Given the investment in time and money required to bring the Z-Station up to Integra specification, the Amstrad machine is a more attractive option.

PCW Details

Amstrad Integra PowerPro 90

Price £1,599

Contact Amstrad Direct 0800 338844

Good Points High hardware specification, lots of software, Internet-ready.

Bad Points The documentation could be better.

Conclusion One of the best home PCs around.

Zenith Z-Station

Price £1,299

Contact Zenith Information Centre
01756 702800

Good Points Nice design. Scope for expansion.

Bad Points Windows 3.11, lack of software, no documentation or help.

Conclusion Not one of the best home PCs around.

HARDWARE

Iomega Ditto Easy 800

Clive Akass rates this quick and easy to use backup system.

Iomega has been a front runner in the market for "superfloppy" drives which take low-cost removable disks of 100Mb and more, so you may wonder why it (or indeed anyone) bothers with slow, sequential tape.

There are several reasons. A single tape can back up an entire hard disk; speed and random access are less important for backup and archiving tasks; and the cost per megabyte is still comparatively low. Also the tape industry, worried at being sidelined by the new storage technologies, is developing software to make tape drives function much more like standard ones.

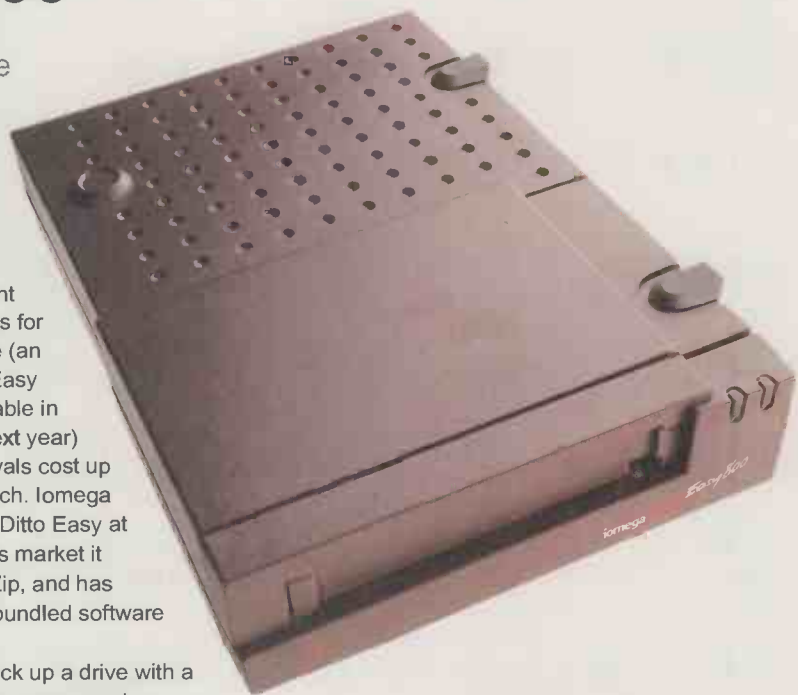
Iomega's Ditto Easy 800 takes the new high-capacity Travan tapes which hold 400Mb of raw data, or 800Mb compressed. It will also read and write older QIC-80, 80XL, 80-XLF and QW-80 cartridges, of which a huge number are in use.

From the outside, it looks identical to Iomega's groundbreaking 100Mb Zip drive, except that the stylish case is red instead of blue; the list price of £149 is much the same too, though you are more

likely to find the Ditto discounted.

There are other equivalent internal devices for the same price (an internal Ditto Easy won't be available in the UK until next year) but external rivals cost up to twice as much. Iomega is pitching the Ditto Easy at the same mass market it found for the Zip, and has designed the bundled software accordingly.

You can back up a drive with a single click of a mouse and scheduling regular backups is almost as easy. You have to poke around in the system files if you do not want the software to load automatically, however; too bad if you are a novice who has never heard of WIN.INI. The drive plugs into the parallel port, with a pass-through port for your printer, so there is no messing about with expansion slots.



PCW Details

Price £149 list; £135 street

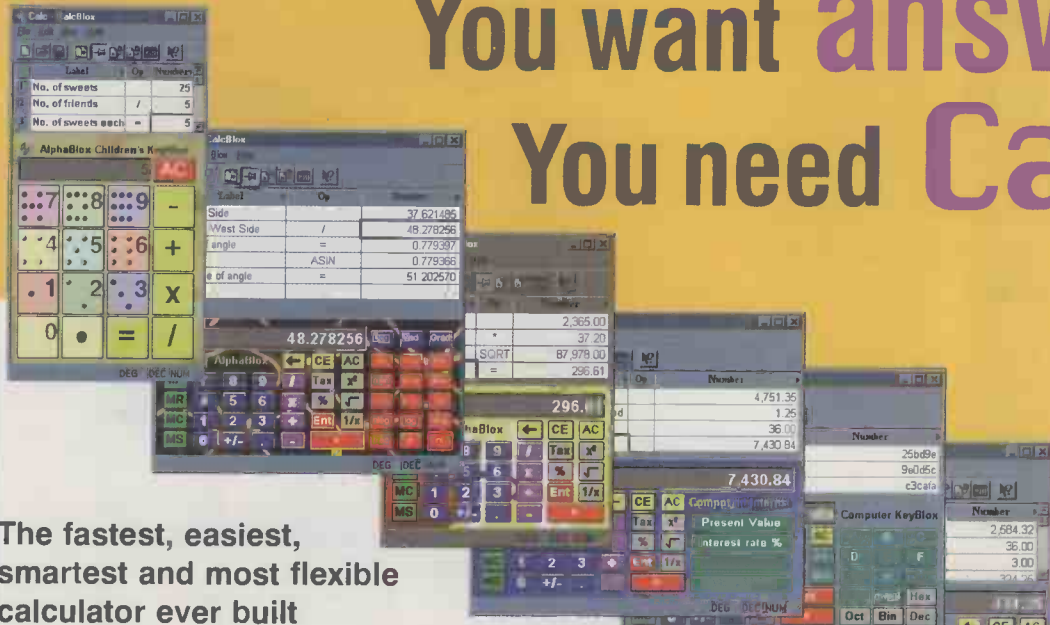
Contact Iomega 0800 898563

Good Points Easy to set up and use.

Bad Points Noisy accesses.

Conclusion Good buy if you need this class of device.

You've got Windows[®] 95 or NT You want answers fast You need CalcBlox

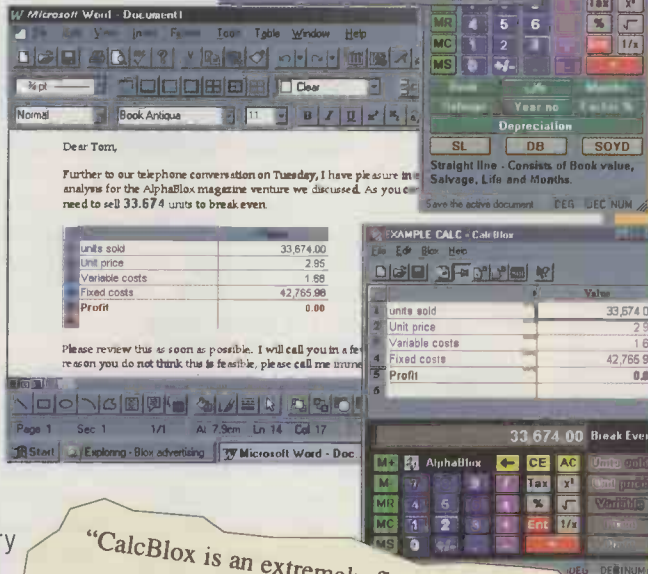


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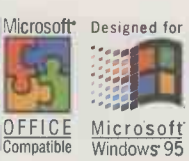
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PC Week

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Personal Computer Magazine



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- It's tiny (less than 300k), so it's incredibly fast

FOR HOME

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FOR THE INTERNET

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SOFTWARE

WinFax Pro 7.0

WinFax Pro 7.0 is widely compatible and includes every feature you could dream of. Pity it's such a monster to install, says Tim Nott.

WinFax enables a PC with a fax modem to send and receive faxes, and this is the Windows 95 version. The first eyebrow-raiser comes at installation. With all the trimmings, WinFax wants 26Mb of hard disk space, and a minimal install will set you back 16Mb. In comparison, version 4 (there was no 5 or 6) took 10Mb max and version 3, 6Mb.

According to the documentation, WinFax will replace any previous version installed and import the existing phone books and send/receive logs. There are a number of flaws here. I dual-boot between Windows 3.1 and Windows 95, and have version 3 of WinFax installed on the former but not the latter. Result; even though I installed the new version to a different drive, the existing version still got deleted, neatly removing my Windows 3.1 fax facilities. Worse was to come: it didn't, as promised, import the existing phone book and logs, which were now also inaccessible from Windows 3.1.

Pausing only to note that although I'd sent and received just one page each, the "Uninstall" routine left behind half a megabyte of files, 16 Registry and five WIN.INI entries, I reinstalled both versions from their respective Windows platforms. To cut a very long story short, this time the old version wasn't detected and I also managed to import the old phone book manually. Attempting to import the version 3.0 log files (i.e. the lists of faxes sent and received) produced a message stating that "Only WinFax PRO 4.0 logs can be imported" — a shabby way to treat existing users.

Moving on to brighter things, there's a brand-new look and feel. WinFax 7 is both Windows 95 and MS Office compatible so there are similar menu layouts, customisable button bars, tooltips, "what's this?" help, and right-button menus.

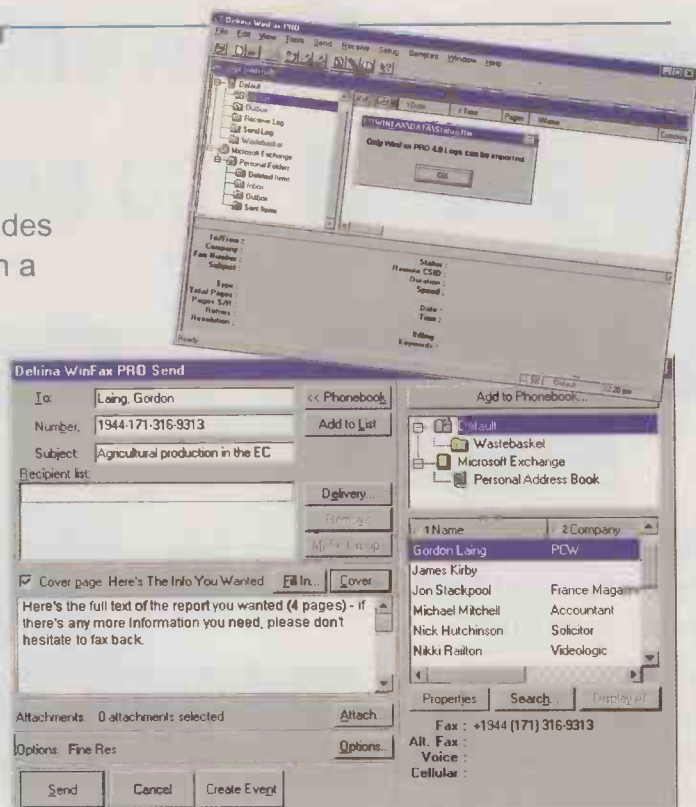
The basics are much the same. You can send faxes directly through WinFax (and there's now a "Wizard" to help), with a huge range of decorative cover pages,

or via the "Print" command from other applications. If you're in a hurry, you can now enter text straight into the "Send" dialogue without having to fill in a cover page. You can use the viewer to read and annotate faxes, and as before, use Optical Character Recognition to turn them into machine-readable text. A brief test on a single page found the new Xerox Textbridge technology was slower and less accurate than version 3's Omniscan. The test machine also seemed prone to General Protection Faults while using the Viewer.

The send and receive logs have changed considerably. You now get a window in three sections. The top is like Windows 95 Explorer, with a tree-like view of folders and their contents. Below this is a panel giving details of the selected event. You can create custom folders and drag events between them.

WinFax integrates with Microsoft Exchange — you can send email and access your Exchange (and other) address books, in and out boxes alongside your WinFax folders. You can't, however, copy items between the two. Furthermore, if you took the option to remove the native Microsoft Fax on installing WinFax, you will no longer be able to view faxes you sent or received via the former.

The Comm Bar provides a launcher for the various WinFax modules (or other Delrina products) and means you can receive faxes automatically without loading the main WinFax program. It can be docked at the top or bottom of the screen, float free, or be iconised in the "System Tray" beside the Windows 95 clock.



Top The new look send/receive log integrates with Exchange but it won't import version 3.0 logs
Above You can by-pass the cover page and enter text from the "Send" dialogue

WinFax 7.0 boasts several technical improvements. New compression technology means that faxes are transmitted, it is claimed, up to 30 percent faster and there's improved rendering for grey-scale images. "Attachments" can be sent with a fax by dragging and dropping files — they don't have to be in a fax image format, so you can include sounds and video as well as text and pictures.

For power faxers, incoming faxes can be automatically forwarded to one or many destinations. Regular events, such as distributing a newsletter, can be automated. You can automatically print a copy of each outgoing fax and if you have a pager, you can be kept informed of incoming faxes when on the move.

PCW Details

Price £99

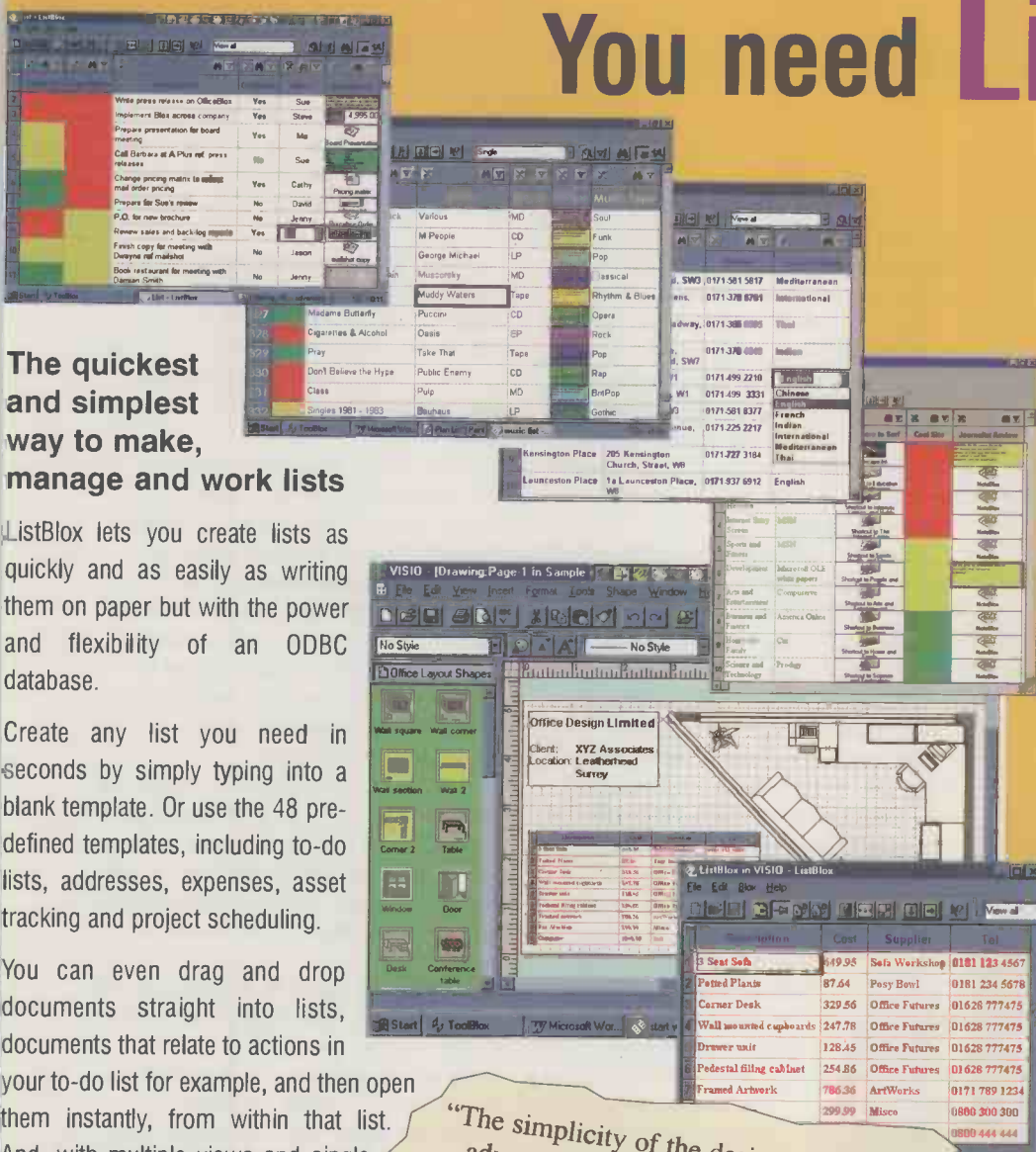
Contact Delrina 0181 207 3163

Good Points Integrates with MS Exchange and other Delrina "CommSuite" products.

Bad Points Huge, won't import version 3 logs, caused GPFs on the test machine.

Conclusion Every feature a power-faxer could possibly need.

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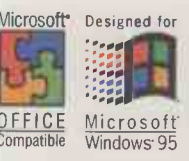
Create any list you need in seconds by simply typing into a blank template. Or use the 48 pre-defined templates, including to-do lists, addresses, expenses, asset tracking and project scheduling.

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PC User

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You can drag and drop documents and shortcuts straight into lists for easy access to:

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- More detailed notes
- Folders containing background files

Lists can be shared by e-mail or dragged and dropped into other documents to show:

- Building components in a blueprint
- Project schedule in a business plan
- Flight itinerary in a letter

It's tiny (less than 300k), so it's incredibly fast

It's powerful, supporting ODBC, and multiple views

FOR HOME

You can create any list you need in seconds from scratch or using the pre-defined templates including:

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HARDWARE

Sony Multiscan 17se II and 17sf II

Sony's new range of monitors will be a sight for sore eyes, says Gordon Laing.

In the closing months of 1995, Sony unveiled six new monitors to suit every taste and pocket. They fit into four product ranges in ascending order of quality: entry level Multiscan sx, Multiscan sf II (formally sf), Multiscan se II (formally se), and Multiscan sh at the extreme high end.

In our last monitor group test we featured several sf and se models which won commendations left, right and centre. Now we're looking at the new and improved 17in sf II and se II models (the latter pictured here).

The previous se and sf models were pretty special, leaving Sony with only a few new features to enhance its series II releases. Most obvious is support for the Display Data Channel, DDC, which allows the monitor to communicate its capabilities to the graphics card.

The result is a plug and

play display under Windows 95, optimised to the best combination the card and monitor can deliver together.

Making several appearances on recent monitors are on-screen controls, working in a similar way to that in which a modern television displays channel and volume adjustments. On-screen controls were sadly not present on the se and sf models last year, and make a welcome debut on these new models.

Perhaps most impressive of all is Sony's third generation Digital Multiscan technology, which calculates its own settings rather than relying on preset memories for VGA. We fed both monitors a huge variety of signals from different video cards, trying all the common resolutions at a number of refresh rates. Each time, both monitors locked on and optimised the picture instantaneously. Sony points out that you can tweak the image if you desire, but the monitors automatically corrected every geometric distortion, centred and fitted the

image to the edge of the tube on every signal we fed them, and required no further modification.

All the monitors in the new range also boast Energy Star power management and meet both MPR II and the stricter TCO guidelines on radiation emissions. All the Trinitron tubes used in Sony's monitors have anti-reflection coatings, reducing glare.

From here on, differences between the sf II and se II emerge. The sf II has the captive video cable of the sf, while the se II features two

independent inputs from an HD15 D-SUB plug or a set of five BNCs, offering the flexibility of connecting two machines and switching between them. At work I have both my PC and Macintosh connected to the same monitor, which is convenient and saves space.

The sf II has a maximum horizontal scanning frequency of 65kHz, capable of a highest 1024 x 768 resolution, non-interlaced at 80Hz. The se II extends this to 85kHz, which will handle a maximum resolution of 1280 x 1024, non-interlaced at 80Hz.

In all modes, including the highest, both monitors performed superbly. Details were fantastically crisp and well focused; the overall image remained stable and did not discolour. The automatic geometry correction did its job perfectly, but those who wish to tweak have a few more options on the se II. In the same mode, the se II unsurprisingly boasted a better overall image, but the sf II was by no means poor.

Both cases are as small as they could be, with slim surrounds and fairly shallow depths. The sf II is slightly better looking with some of its controls featured on a lip at the lower right, while the se II is more old fashioned with a conventional row of buttons.

Now for the hard sell. The original 17sf had a recommended retail price (RRP) of £749, while the improved 17sf II represents particularly good value at the reduced price of £649. Those who require the higher resolutions and dual inputs will have to meet the 17se II's RRP of £949, down from the original 17se's tag of £1,025. Shop around and you'll find the closest comparisons in quality and price are to models from NEC. Both companies make brilliant monitors, and it's down to your personal preference for Trinitron or not. Do your eyes a favour and check them out; you won't be disappointed.

PCW Details

Price Multiscan 17sf II £649 (RRP); Multiscan 17se II £949 (RRP)
Contact Sony 0181 760 0500

Good Points Superb monitors, much improved.

Bad Points I really can't think of any.

Conclusion Buy one now.



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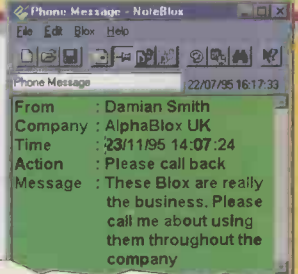
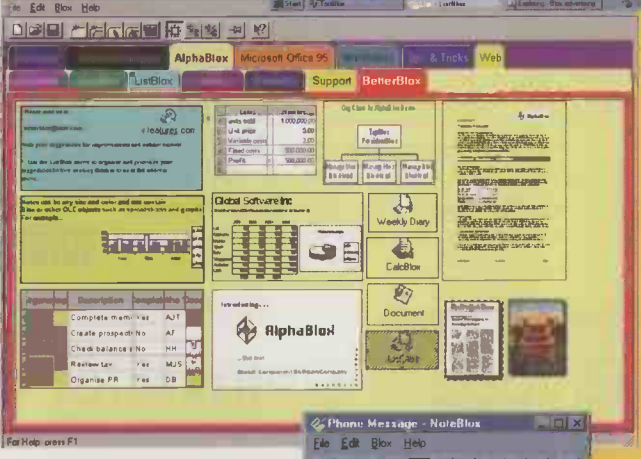
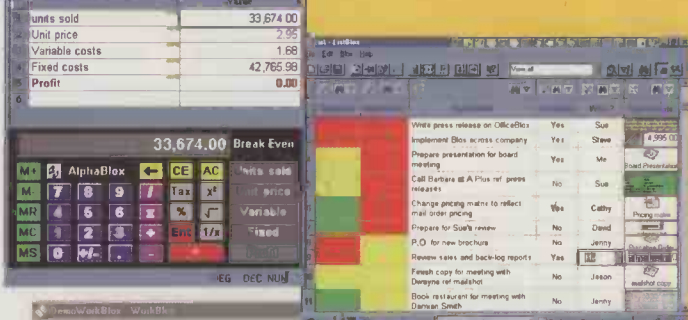
Create notes in seconds. Jot down an idea or take a phone message. Share it by e-mail, or use it to annotate another document by simply dragging and dropping it straight onto the page.

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PC Magazine

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"lots of neat touches"
Financial Times

OfficeBlox is a truly innovative and particularly useful piece of software."
Personal Computer Magazine

Why you should buy OfficeBlox

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- In folders for each project
- In folders for each customer

All the Blox are tiny (less than 300k), so they're incredibly fast

They combine with each other, and your other Windows 95 or NT applications, to provide comprehensive business solutions

FOR HOME

You can create notes in seconds from scratch or using templates including:

- Telephone messages
- Reminders and ideas

You can organise documents easily:

- Loan calculations in the bank folder
- Guest lists in the parties folder

The Blox are incredibly intuitive and easy to use

FOR THE INTERNET

Web ListBlox lists your favourite on-line sites and allows you to access them instantly with a click

You can order your own, custom built, calculators on-line from the CalcBlox Factory at <http://www.blox.com>



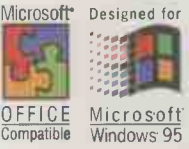
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SOFTWARE

QuickView Plus

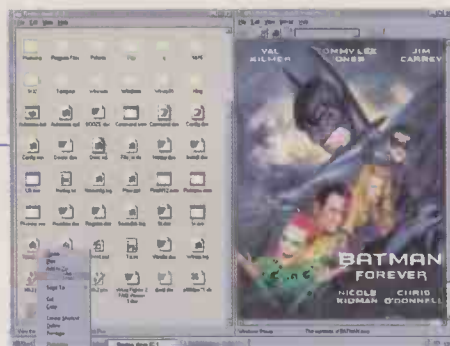
"Where have you been all my Win95 life?" Chris Cain asks QuickView Plus. It's simply brilliant and brilliantly simple.

When PCW tested the Beta version of Windows 95, one of our favourite features was a utility called QuickView. With this installed, files in a number of popular graphic and text formats could be viewed quickly without loading the parent application. When the final version of Win95 appeared, QuickView was still there, but surprisingly some of its functionality had been lost.

QuickView Plus from the Inso Corporation is designed to make up for Microsoft's apparent lack of vision. Supplied on two floppies, it increases QuickView's abilities to cope with over 200 different file formats. Formats supported include Microsoft Word, Ami Pro, MacWrite, .XLS, .EPS, .TIFF and .JPEG, plus other more obscure types like .PICT, Lotus Symphony, First Choice Spreadsheet and .WPG. The program

can also deal with HyperText Markup Language (HTML), needed for development on the Internet, and various compression formats such as Zip, Uuencode and Unix .Z.

Installation takes just under five minutes and involves little more than a quick double click and a disk swap. Once this is finished, clicking any viewable file with the right hand mouse button brings up the option to display it. While viewing you can scroll around, copy data to the clipboard, search for a string, extract from archives and print. You can even turn images into Windows wallpaper, which saves all that tedious messing around with art packages. The one thing you can't do is edit data directly, but the appropriate application can be launched at the touch of a button. If you choose, QuickView Plus can also attach itself as



Quickly view almost any type of file with QuickView Plus

an option to the Explorer and other applications.

There's not much else you can say about QuickView Plus except that it's brilliantly simple and simply brilliant. The only thing that could improve it would be a file conversion facility.

PCW Details

Price £39

Contact Contemporary Software
0172 7812812

Good Points Simple to use, quick and handy. Cheap.

Bad Points Previews only with Corel CDR files.

Conclusion A must for anyone running Windows 95.

HARDWARE

MicroSpeed Keyboard Deluxe for Windows

The MicroSpeed Keyboard Deluxe may mean you can kiss bye-bye to RSI, says Gordon Laing.

Yes, it's a standalone keyboard review, and the first in PCW for a long, long time. Keyboards aren't our usual fodder in the *First Impressions* section, since they tend to fall into the "supplied with my PC, and even if it's rubbish, I'm not going to do anything about it" camp. There's also the fact that they're incredibly subjective things. One

person's desirable click is another's RSI; while squidgyness may be heaven to some, but hell to others.

Despite all that, here's

a review of a keyboard I think is brilliant. MicroSpeed, a company known for its ergonomic keyboards and pointing devices, jumped on the Windows 95 bandwagon and released this, the Keyboard Deluxe. I say "bandwagon" because it features three additional keys; one nestling between the left CTRL and ALT buttons, and the other two between the right ALT GR and CTRL keys.

Pressing the Windows key, duplicated on both sides, has the same effect as clicking the Windows 95 Start button; while pressing the right hand only menu button mirrors a Win95 right mouse click. Certain key combinations access a variety of Win95 or 3x functions. To be honest I've not bothered with these facilities so far, but I'm not holding that against MicroSpeed.

Yes, forgiveness and understanding all round since this is the best PC keyboard I've

ever laid hands on. The very best ever, in my opinion, is Apple's old extended Macintosh keyboard, found in editorial production departments worldwide, for around £150.

MicroSpeed's keyboard has a cushioning feel, aiding hard tappers like myself, without eliminating feedback through over-squidgyness. Okay, it sounds like madness, but a few months back when my wrists felt like seizing up, salvation was more than partly due to this beauty.

You want my anti-RSI advice? Sort out your posture, workstation ergonomics, and buy this keyboard. It worked for me — and my typing speed has even increased!

PCW Details

Price £44

Contact MicroSpeed 0171 720 0592

Good Points Great feel, and not overly large.

Bad Points Windows 95 keys not much use.

Conclusion Try it, then buy it.



SOFTWARE

Quarterdeck Cleansweep 95

It's what we've been waiting for, and Windows 95 has made it a necessity. Paul Begg reviews the first installer.

If you were quick to upgrade to Windows 95 and failed to do even basic housekeeping chores, you may now be wondering where all your hard disk space has gone. The probable answer is that some of it is occupied by loads of files

Curiously, few of the uninstaller companies seem to have been geared for Windows 95. All the companies are working on a 95 version — and by the time you read this, some will have hit the shelves — but first off the mark was

Quarterdeck with CleanSweep 95.

It's a nice package, it works with Windows 3.1 and Windows NT, as well as 95, and it's simple to use. Also, providing you back up your deletions, CleanSweep is safe. And it is surprising how much lost space you can claw back — I managed to get 11Mb from chucking out redundant .DLLs.

The opening screen has five tabbed cards: Program, Cleanup,

Finder, Redundant DLL Finder, Unused File Type Finder, Low File Usage Finder and Orphan Finder, while the Restore option lets you undo mistakes and put files back into their original locations. View lets you view a text file of every action performed by CleanSweep, view how much disk space you have retrieved, and view how much space each folder on your system occupies. Finally, Options lets you configure CleanSweep to run the way you want.

CleanSweep comes with two modules: the Install Monitor and the Usage Monitor. I've been waiting for something like the Install Monitor to turn up in a commercial package for a long time. Very simply, the install monitor watches everything that happens when a program is installed and keeps a text log which you can consult. You can use this to perform manual deletions, but the idea is that CleanSweep uses the monitor to undo everything it recorded as having been done during installation.

The Usage Monitor keeps track of the files you use most often. Over time you should be able to identify files that are never used and either delete them or back them up.

CleanSweep also includes a feature called Helper Technology. It's a database of information about popular Windows applications. Using the information in the database, CleanSweep 95 can effectively clean from a system, programs installed before CleanSweep itself. Quarterdeck constantly updates the helper library and you can download from Quarterdeck's Bulletin Board.

CleanSweep 95 emerges as a solid product, well able to carry out uninstallation and Application Management tasks, but I look forward to seeing what the competition have up their sleeves.



Left Analysing my file; note the tabbed sections

Below Always back up. It's better to be safe than sorry

that you no longer need.

Windows 3.1 itself will have left DOS and Windows device drivers, .INI files, .DLLs, fonts, screen savers, and wallpaper that you don't want and which just sit there, anonymously, behind meaningless file names.

Never will an uninstaller have been so needed: especially if you have upgraded to some Windows 95 software and tried out the ton and a half of Windows 95 shareware that's been weighing down magazine cover discs for the last few months.

By now, you'll no doubt have megabytes of detritus on your hard disk and the sad thing is that Windows 3.1 uninstallers won't work well (or, in some cases not at all) with Windows 95. Among other things, they are unable to recognise long file names and invariably fail to recognise program groups nested within other program groups, flagging them as orphaned programs for deletion.



Restore, View, and Options.

Program gives you access to five wizards to take you safely, step-by-step, through uninstalling a program, compressing a rarely used program, creating a compressed backup, moving a program to a different folder or even to a second hard drive, or transporting and replicating a program to another computer.

Cleanup has the Duplicate File

PCW Details

Price £39.95. Registered users of CleanSweep 1.0 can upgrade for £19.95.
Contact Quarterdeck 01245 496699

Good Points Capable, with a good installation monitor.

Bad Points Nothing dramatic, but scope for improvement.

Conclusion A good buy.

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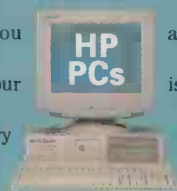
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HARDWARE

Sharp ZR-5000

Impressive hardware and fancy features spell out fighting talk towards the Psion, says Simon Rockman. But the Sharp organiser still has some way to go.

The ZR-5000 is the latest in a long line of very successful pocket organisers from Sharp. While the Psion rules supreme in the UK, the American market is contended by Sharp and Hewlett-Packard.

The hardware is elegant: there is a touch-sensitive screen with a display resolution of 320 x 240 pixels, and 1Mb of RAM which, shared with the applications, leaves around 750Kb free. The display is not backlit — this would have had an unacceptably detrimental effect on the battery life — but it's still crisp under normal lighting. The two AA batteries give a typical life of 60 hours if you take it easy on the advanced features. These include infra-red to IRDA and to Sharp's own ASK specification.

A single Type II PCMCIA slot allows the Sharp to use a number of different types of card. The

ability to take a modem or data card for a mobile phone has led Sharp to dub this device "The Communicator", although Sharp's own phone which is made by Ericsson won't have 9,600bps data for a while yet. Using the Nokia Cellular card takes too much power from the AAs so you have to resort to mains or an external battery pack which rather detracts from the portability of the whole thing. A serial cable provides a simple link to a PC and there is a custom fax/modem.

To make the most of the touch screen there is a pen, although this isn't strictly necessary since tapping the icons with a fingernail works just as well (although Sharp advises this may damage the screen). For drawing, the pen feels better with a little

bit of "give" in the screen. In practice the screen is too small for sensible note-taking or drawing (unless you are very neat) and the pen is more useful as a mouse substitute.

The pen

allows you to highlight text for cutting and pasting and to operate the Windows-like scroll bars. It works well enough but on a small screen the need for places to press and bars to scroll takes up a substantial proportion of the screen. The Calendar view is especially cluttered. There is no handwriting gewgaw but a note-taker allows you to scribble much as you would with a pen and paper. You'd probably be better off with the 2,000-year-old original in most cases.

Overall the hardware is excellent, but that is only part of the story. The software is feature-rich, perhaps too much so for a machine like this — there is a relational database and it is possible to link diary events to database entries. Data can be stored away using a filer.

The need to learn how the machine works makes it harder to use than the Newton or Psion. In many ways it tries too hard. You don't really need a GUI in your pocket and on a small screen you can't afford the space. No doubt if you do use the machine for a long time you eventually become acquainted with the workings of the system and it will prove to be excellent, but many of the people who will buy this sort of device will have limited interest in computers. Reading the manual will be a chore.

Some potential customers will be world travellers and for them the world clock will be a boon, but without the database of dialling codes it isn't as useful as that offered by the Psion. And that is pretty much a reflection of the whole machine. The hardware is better than that offered by the Psion but the package lets it down overall. The home grown computer is still the winner.

PCW Details

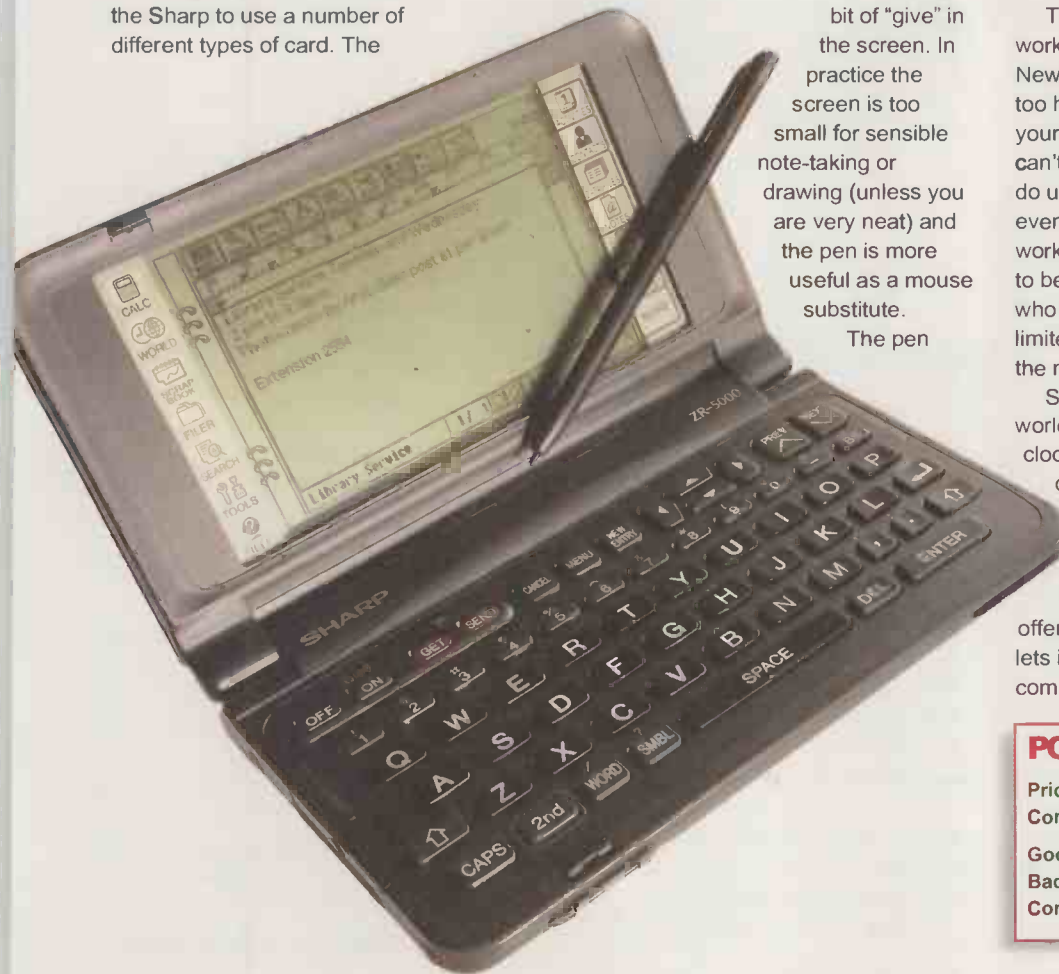
Price £399.99 (inc VAT)

Contact Sharp 0800 262958

Good Points Smart, sharp screen, IRDA.

Bad Points Fussy software.

Conclusion Psion should steal some ideas.



SOFTWARE

Corel PrintHouse

Corel puts the DIY into DTP with PrintHouse, an easy graphics package with an impressive clipart library, says Adele Dyer.

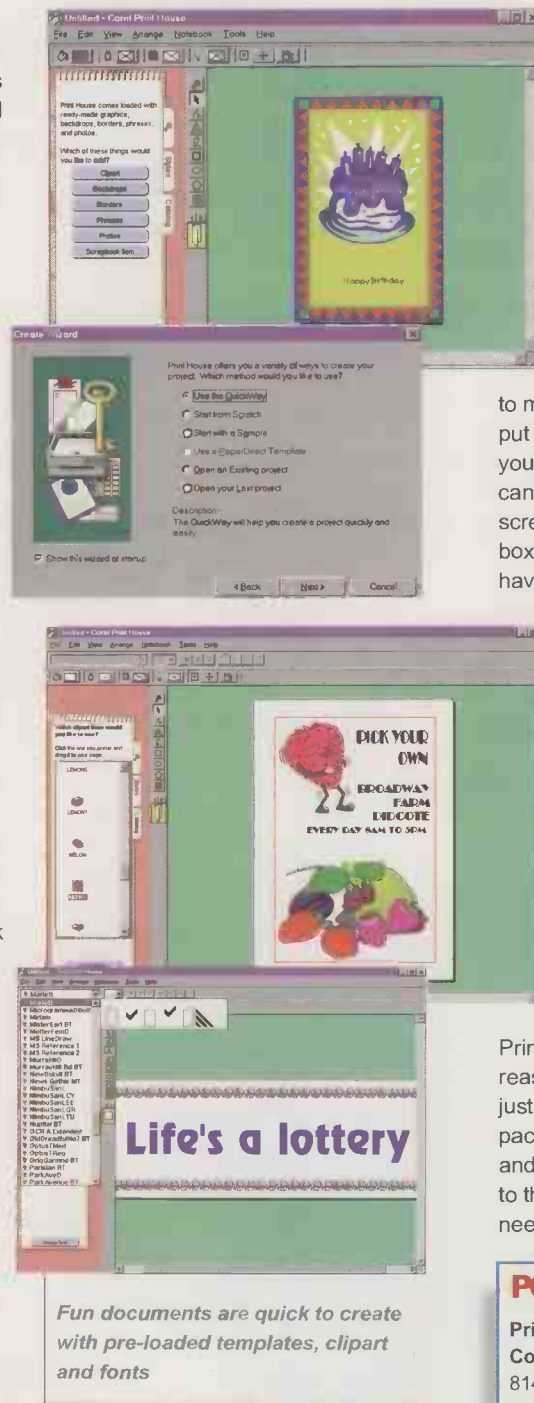
The Canada-based Corel Corporation is best known for its flagship graphics suite, CorelDraw, which has been around for the last six years and is still one of the most popular low end drawing packages. Corel PrintHouse finds its niche in the market as a very simple graphics and DTP package built for Windows 95. It is specifically designed to help the user quickly come up with documents and labels, where a little imagination and creativity is called for.

The cover of the box boasts a vast range of printed articles you can create using PrintHouse, including greetings cards, invitations, certificates, labels, envelopes, calendars, banners, business cards, letterheads, brochures and signs. To help you along there are 5,000 clipart images, 1,000 photos, over 900 sample documents and more than 100 fonts.

PrintHouse gives you templates and a compendium of decorating ideas. There are two basic routes to create what you want: you can either choose a complete document, by picking from a number of options chosen by PrintHouse; or you can just pick a basic template such as a greetings card, and use the clipart, photos and fonts to create your own work of art.

Whichever way you choose, you can design whatever you want, very quickly. You do not need to spend hours learning the package. Everything is clearly marked and if you begin as recommended with a step-through selection of a ready-made document, then you will be able to start designing your own documents within about ten minutes.

The design engine is similar to that used in CorelDraw 6, so if you are familiar with that package picking up PrintHouse will not pose any real difficulties. Clipart and photos can simply be dragged and dropped onto the page and then resized and placed. Pictures can also be overlaid, although you should be careful of the order in which you call them as the last to appear will



Fun documents are quick to create with pre-loaded templates, clipart and fonts

automatically sit on top, even if you drag them away and replace them in the order in which you want them to lie.

The quantity of clipart and photos on

offer is impressive, but its quality is a matter for debate. There is a wide range of useful drawings, including fancy letterings and flags. Personally, I prefer either formal drawings or cartoons and find it disappointing that so much clipart falls between these two stools. However there is an image here to illustrate almost any subject.

Unfortunately it is not so easy to manoeuvre text: PrintHouse lets you put in text wherever you click the cursor; you can draw a text box to help you, but cannot drag the full box around the screen. There is nothing like a Quark text box, which is desperately frustrating. You have to be extremely careful of where you put your words and which point size you use to avoid getting in a mess.

It is surprising that Corel has not made more use of text manipulation in what is basically a crossover graphics and DTP package. To compensate on those templates where text is expected to be put, there is better use of text boxes. On fax cover sheets and invitations, for example, you can adjust the ready-laid text and move it around the page.

Despite this annoyance, PrintHouse does let you create reasonably professional-looking results in just a few minutes. It is a no-nonsense package crammed with clipart, photos and fonts which will be extremely useful to those with limited graphics and DTP needs.

PCW Details

Price £79

Contact Channel Market Makers 01703 814142

Good Points Easy to learn. Quick to create documents.

Bad Points Limited text manipulation.

Conclusion Good for the SoHo user with mixed graphics and DTP needs.

SOFTWARE

Delrina Echo Lake

Budding writers might find Echo Lake the ideal modern muse, thinks Paul Begg.

It is a pity that diary keeping (in the mode of Pepys) has gone out of fashion. It's fun to recall old memories which bring the past alive for children, who relate more easily to history when it involves somebody they know. An account of an unremarkable picnic can be fascinating if it happened in the 1920s and everyone cycled through what were then leafy country lanes, to a lonely field that is now a housing estate.

The trouble is, it is often difficult to get to grips with writing. Even the most sophisticated word processor can be austere and cold, dulling the creative juices before even you start typing.

This is where Echo Lake steps in. It won't turn a poor writer into Shakespeare, but it does provide a warm and friendly environment and an armoury of memory joggers to inspire you. Echo Lake helps you lay out your prose, insert pictures, movies and sounds, and generally prepare the "manuscript" to be printed or saved in electronic form to share with others on diskette, or through online services.

The idea is that when the muse comes over you, you retire to the tranquillity of a log cabin at Echo Lake. Amid the heady aroma of the pine trees, your mind massaged by the gentle lapping of the lake and with a pot of nut brown tea to hand, you recall your memories. Of course, you'll have to put your imagination into overdrive to experience the pine trees, lake, and tea, but the software does create a comfortable and non-threatening literary environment.

Here, you create an interactive book; every member of the family can have one and the books can be password protected and hidden in a safe, away from prying eyes. Writing is done on a mini word processor with all the usual page and text formatting features, different type colours and a spellchecker. You can add multimedia to your story, too, recording family sounds, inserting scanned photographs from disc or Photo-CD, and even movies.

Echo Lake really comes into its own

Right *A comfortable working environment but the multimedia is too American*



Left *Echo Lake is a pleasant place to work*

Echo Lake has been Anglicised, this hasn't extended as far as the multimedia

via the wealth of memory joggers. First, there's a tool called the Inspirator. This contains a couple of thousand prompts: historical events that might trigger memories ("What were you doing the day Kennedy was assassinated?"); a so-called "blast from the past" in the form of trivia questions ("What were the names the Teenage Mutant Ninja Turtles?"); and "Real Life Interviews" that ask questions such as "What was your first job?" and so on. As dumb as this may sound, these triggers actually work very effectively.

Another way of recalling memories is by using the Memory Starters feature. This is a kind of mini personal life database. You can store all the details of your life such as the places you worked and where you lived. Trying to fill in the blanks not only spurs the memory, it also makes you delve through those piles of old papers, diaries and letters. You might find yourself contacting relatives and friends, or even visiting newspaper and local history libraries.

An additional feature on the CD-ROM is a collection of hundreds of video clips, photos, sounds and clipart images. Here, though, I do have a complaint. Although

the pictures and movies include lots that is American, but little that is specifically British. No WWI photos, no Vera Lynne or Gracie Fields, no Tony Hancock or Goons, no movies of VE-Day celebrations, the Coronation or Winston Churchill's funeral. As good as the rest of the program is, these omissions let it down. The overall impression here is of a quick cosmetic job by the manufacturer, rather than a well thought out attempt to gear the product towards a British market.

Nevertheless, Echo Lake is an interesting and innovative program that could add a fresh zest to home computing.

PCW Details

Price £99 (Inc VAT)
Contact Delrina UK 0181 207 3163

Good Points Innovative, fun to use, and could lead to a new and fascinating hobby for all the family.

Bad Points The multimedia hasn't been Anglicised.

Conclusion A good idea, well implemented. Worth trying to take a look at.



SOFTWARE

GPS mapping for Psion Series 3a

Mark Whitehorn is totally seduced by the ultimate Bond movie gadget. By the way, it's also quite useful.



Mapper and the Garmin in action, showing my car's location as North of Perth on the A9

In the sixties, James Bond drove a gold Aston Martin loaded with goodies. I lusted after the car of course but mainly I wanted that moving map and the little blip of light which instantly located Bond and/or the evil opposition. A mere 30 years or so later, I've got a similar system actually working in my car. Even better, it is small enough to be portable.

The location information comes from a hand-held GPS (Global Positioning System) unit from Garmin. The display unit is a Psion 3a running Mapper. With a cable to connect the two, and a 3 Link cable, I'm in spy heaven.

GPS units can locate themselves typically to within 50 metres anywhere on the Earth's surface, making use of the data broadcast by satellites. The Garmin 45 is one such hand-held unit, powered by four AAs or an external DC supply. It has its own LCD screen which can display your position in longitude and latitude. It also has a memory, so when you are mobile it can display your speed and current heading.

The GPS 45 can do lots of other clever tricks. For example, it allows you to set way-points on an outward journey and will then indicate course and distance so that you can navigate back to them. This is ideal for tricky offshore navigation or hill walking.

However, the GPS 45 is built for hand-held use so it only has a small LCD screen and lacks enough memory to store significant quantities of mapping information. The good news is that it can squirt the location information out through a serial link.

Mapper is shareware mapping

software from Steve Litchfield. It shows all of the major towns, roads and other features in the UK. Steve provides the tools necessary for users to produce overlays which sit on top of the basic map. These overlays can contain virtually anything you desire. So, if you're a travelling salesman, you can build an overlay which shows the location and details of all your contacts.

Many overlays are of more general interest, and these are often released into the public domain by their constructors. Steve supplies over 40 (by a variety of authors) with Mapper so I can, at the press of a button, find all of the Novotel hotels, Happy Eaters, airfields and so on.

A truly remarkable property of shareware is that it can respond so rapidly to external changes (like cost-effective GPS units becoming available). Microsoft now owns Autoroute (both for the PC and the Psion) and in response to the question "When will Autoroute have GPS capabilities?", stated; "In the next release." This is less impressive when you discover that the next release is due in 18 months' time. Mapper has GPS capabilities now and while I was reviewing it Steve added a feature to calculate and constantly revise your ETA during journeys.

So, how does it all work? You install Mapper and plug the cable, that Steve supplies, into part of the Psion 3 Link cable, set the mapper to "GPS moving map" and, after a brief pause, a cross appears on the map showing your location. As you move, so does the cross and when it reaches the edge of the screen, the map automatically redraws

with the cross centralised. The map can be zoomed, but even at highest resolution you will be looking at an area of 18 miles by about six. This sounds poor, but is fine for long distance navigation. Mapper takes up a mere 0.5Mb and it will run in about 100K of RAM.

Finally, there is Mapper for London, which shows more detail and will run in GPS mode, so in a car your passenger can navigate you through the streets (within the limitations that tall buildings impose on the satellite connections).

If you already own a Psion and 3 Link or a GPS unit, you are probably a gadget freak. You just have to treat yourself to Steve Litchfield's software and cable. Me? I've bought them already; all I need is the gold Aston Martin.

PCW Details

Prices Mapper £14 on floppy disk; cable £35 (available for various GPS units); Garmin GPS 45 £325 (RRP), £275 (street); Psion Series 3a £230 to £400 (depending on memory)

Contacts Steve Litchfield (Mapper and cable) 01734 265081, or Web at <http://ourworld.compuserve.com/homepages/slitchfield>; Garmin 01794 519944; Psion 0171 258 7368

Good Points An invaluable aid to motoring navigation (much better than reams of maps) and it's fun to use.

Bad Points Remains as separate components: a cohesive package would be handier.

Conclusion More fun than anything else I have played with for the last year.

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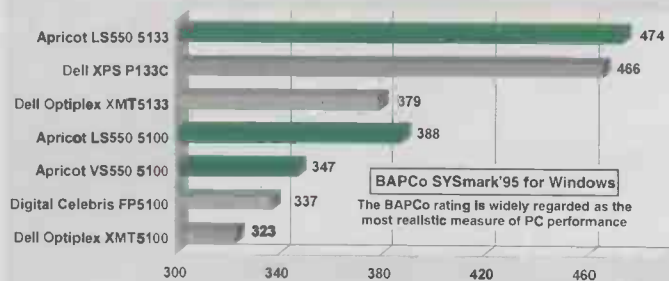
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Exceptional build-quality has always been a hallmark of Apricot PCs and the Apricot VS series is no exception: our Japanese-trained engineers supervise one of the most stringent quality management systems in the PC industry.

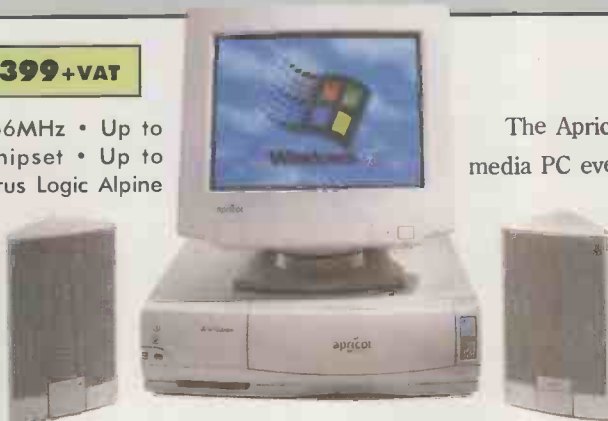
In desktop or tower configuration, the series represents the perfect balance between value-for-money and futureproofing, giving users a cost-effective system that can be easily expanded to meet their needs.

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The Apricot MS series is not only the best multimedia PC ever developed for the home, it also looks the part, with its stylishly curved front bezel concealing floppy drive and CD-ROM, plus a pair of independently amplified, high-performance speakers.

Its looks are underpinned by the same advanced technology as the Apricot LS & VS series and backed by industry-leading multimedia components: a quad-speed CD-ROM from Sony and Creative Labs SoundBlaster audio technology.

marks and the Pentium Processor Logo and the Pentium Pro Processor Logo are trademarks of Intel Corporation. Microsoft, Windows and the Windows Logos are registered trademarks of the a 14" SVGA monitor and will give you an indication of the typical prices you will pay for Apricot products and do not include VAT. Hardware configurations and software bundles vary between without notice. The motherboard featured is an Apricot LS550 motherboard. Windows®95 pre-installed as standard. Windows for Workgroups & MS-DOS 6.22 are available on request.

SOFTWARE

TASKey Version 1.0 for Windows

TASKey 1.0 — where software meets transcendental meditation. Michael Eagleton discovers a new organisation/management program that might do more for you than a few sessions with the Maharishi.

There are not many programs that justify being put in your Windows start up directory but I have just added TASKey Version 1.0 for Windows to mine.

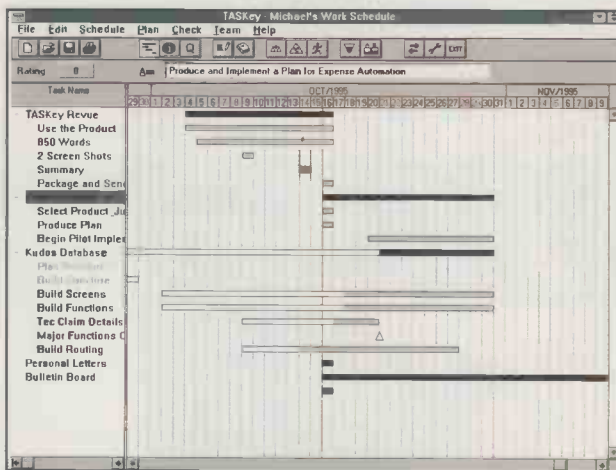
TASKey is more than a piece of software to schedule tasks, it's a philosophy. Its mantra of virtues is "To schedule, to plan, to check". The manual speaks of the "TASKey method" and how to approach the software before turning on your computer. TASKey promises to take you by the hand and into the world of effective task completion.

Even before the software has been installed, TASKey is impressive. Its manual welcomes you and introduces you to the software and the way in which the TASKey method is implemented. It describes how the program is divided into three sections: a schedule screen, a plan screen and a check screen. It is wonderfully thorough in explaining the principles behind TASKey and the practical benefits.

Having loaded TASKey, the first thing to do is identify yourself: while TASKey is excellent for the individual to manage their own tasks, it also expands for use by groups of people concurrently. Although project management software allows a project manager to crack the whip for the individuals involved, TASKey allows individuals to contribute and to own tasks within a shared project.

Once personally identified, your tasks can be listed. On the schedule screen tasks are entered to form tasks, parts of tasks and parts of parts of tasks. In a similar way to project management, the tasks are mapped out on a Gantt chart to describe their timeline. Adjusting the starts, ends, milestones, or degrees of completion is very simple. A whole schedule of tasks was entered in a few minutes.

A click takes you to the planning section, which prompted me for the aim of the Task I had entered. This section contains the description, objectives,



Bar chart scheduling is easy to interpret, displaying structured tasks, sub-tasks and current status

actions, groups and individuals, and resources of a plan. All users receive the information needed to understand the meaning of each task. The first two sections of TASKey combine maximum functionality to manage tasks, with ease of use.

Another click takes you to the checking screen, allowing you to check a plan's completeness, workability and acceptability. There are seven types of Checking framework for leaders and individuals, for checking, reviewing and doing. Each type of framework has up to 41 questions designed to extract the exact status of the plan.

The questions are completed by setting their "importance" and allocating a measure of attainment. The "importance" reservoir is a clickable stacked bar, and "attainment" is a set of radio buttons with varying degrees of answer explained beside them. The questions are searching, yet simple to complete. They do not, however, apply to the task, they apply to the plan. This is a revelation. Here is a piece of expert systems software.

TASKey applies a rating from the questions for each plan and these are processed through a simulation model. It applies your results to the life-cycle of a

plan: the initiating, sustaining and planning of tasks. Expert priorities include "communicate plan", "get information", and "allocate resources", sorted by expert consideration of necessity and personal importance rating.

TASKey displays these priorities: from "strengths and weaknesses" to "action priorities"; from individual tasks to shared tasks; or even by comparison between an alternative approach to the same task.

Informative review reports and tasks can be printed and communicated to groups, or can be for individual use.

TASKey comes in three packages: TASKey Personal, TASKey, for organisations across teams, and TASKey Plus, including team planning functions. It ran effortlessly on my 8Mb 486 DX2/66. Minimum hardware requirement is a 386 or better with 2Mb of RAM, plus a pointing device (which is essential). In a network setup or manager/secretary arrangement, its allocation and monitoring capabilities are ideal. TASKey is supported on MSN with it's own forum, as well.

So now for 15 minutes each day I start with this simple mantra: "Schedule, Plan, Check, Schedule, Plan, Check". I feel better in myself, and see tasks being identified more completely and completed more effectively.

PCW Details

Price TASKey Personal £49; TASKey (10-user) £225; TASKey Plus (10-user) £325
Contact Key Computer Software
 01270 613014

Good Points Ease of use, superb documentation, shareable.

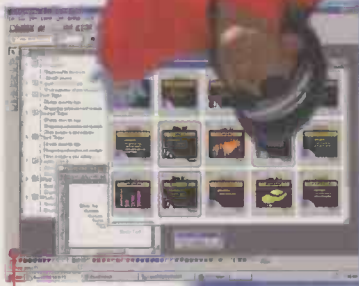
Bad Points No flashing alarm bells for late items, it's reference only.

Conclusion Between organisers and project management software it's your key to task success.

COREL DRAW!™ 6



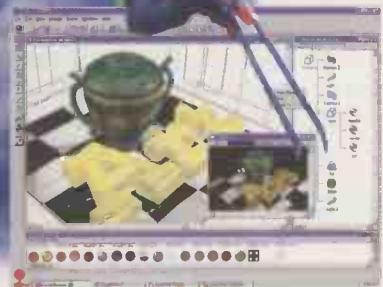
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SOFTWARE

120 Letters that Get Results

A must if you sue more than twice a week, says Michael Hewitt. Otherwise this is just the ultimate novelty software.

I often come across programs which make me think: "Why do they bother?". Talking calendars and personal biorhythm plotters are cases in point. Sometimes I'm pleasantly surprised, and using the package actually turns out to be a life-enhancing experience. More often than not, however, first impressions are correct. In this case, gut-feeling told me that "120 Letters that Get Results" (from Which?) would disappoint.

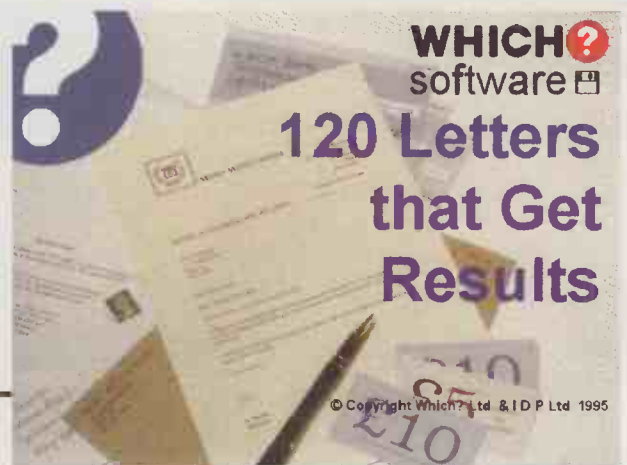
Consumer problems are a continuing theme of modern life, states the blurb on the box. What with insurers failing to pay up and restaurant meals giving us salmonella, we're continually under assault from the rip-off merchants. "Don't get mad — get even!" is the underlying theme of this product. No; this isn't an

exhortation to go out and put a brick through someone's window. Rather, you're supposed to send the miscreant in question an appropriate letter generated by the program, on receipt of which he screams "Mea culpa!" and surrenders.

The software is easy enough to use. Click on a letter icon and you're presented with a list of supposedly consumer-hostile organisations,

Looks good, but is it worth the money?

from banks through to garages. Click on one, and it yields a list of all-too-familiar consumer complaints. In the case of garages, for instance, you've got unsatisfactory servicing, excessive charging and damage to the vehicle while in the garage's care. Select one and the corresponding letter is generated, written in balls-aching legalese ("You were under a legal obligation to carry out the work... as laid down by the Supply of Goods and



SOFTWARE

Harvard ChartXL 2.0 for Windows

This graph/charting package has more ups than downs. It added a fun element to number crunching for Dylan Armbrust.

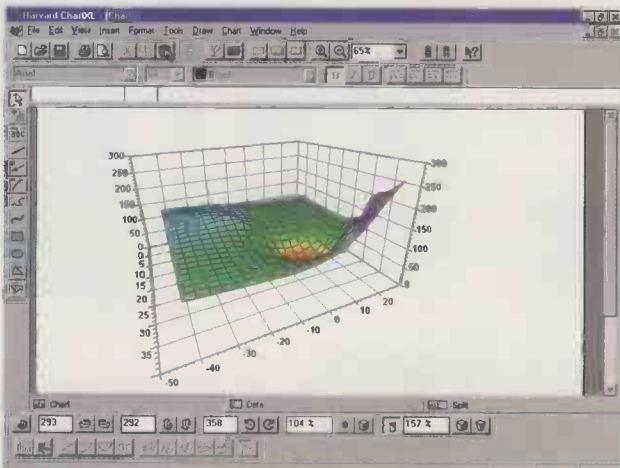
ChartXL 2.0 is Software Publishing's newest release that has been refined and enhanced beyond its first incarnation (ChartXL 1.0). It can be used

as an add-on to other spreadsheets or you can choose the spreadsheet included with ChartXL. Either way, you'll find its capabilities are extensive. It can import Lotus 1-2-3, Excel, DIF or DAT files for its data set or you can choose to create one with ChartXL's native spreadsheet function. It isn't as fancy as, say, Excel's but it can hold up to 255 tables

(worksheets) in a single spreadsheet.

This version of ChartXL offers 310 graphs (almost double that of version 1.0) and styles are divided into three categories: business, statistical and technical. The chart gallery gives you a wide choice of 2D or 3D graphs ranging from a simple bar chart to the complex parametric surface chart. There is also a Formula Visualiser, with built-in calculator, for creating your own 2D or 3D charts.

In addition, there is the added element of OLE (Object Linking and Embedding). ChartXL 2.0 allows you to import, or drop and drag objects from other applications into your chart so you can have pictures, sound or video files embedded in your document without fuss. The program also allows you to have a permanent link to the source



ChartXL 2.0 offers complex and colourful 3D graphing like this surface chart

Services Act 1982.") and with blanks so you can fill in the exact details of the misdemeanour. In addition, there are hypertext links explaining the finer legal points.

So what's the problem? This is software for software's sake. There's nothing in here that couldn't be better accommodated (more cheaply) in paperback book format. True, you'd then have to go to the effort of re-keying the letter, but how many people do you usually sue in a week? Anyway, I daresay crooked retailers are already working on a counter-program — their Patriot Missile to 120 Letters' Scud. So if you're interested, you'd best go out and buy, as quickly as possible.

PCW Details

Price £24.99

Contact Which? Software 0800 252100

Good Points Looks good. Very easy to use.

Bad Points The price.

Conclusion Unless they discount this to a tenner, go to your Citizens' Advice Bureau instead.

spreadsheet, allowing instant changes to be reflected in the chart as long as both applications are open.

And if you like to have a little fun while crunching your numbers you can use the Rotate Toolbar. This feature lets you rotate your graph a full 360 degrees on both the X and Y axes. As well as this, you can adjust the perspective of your view or shrink and enlarge the image. Printing the spreadsheet, or chart, is not difficult provided you have a reasonable printer to handle the graphic output.

The system requirements are a 486 or higher with a minimum of 8Mb of RAM and 18Mb of hard disk space. It runs under Windows 95, Windows 3.1x or Windows NT and can be installed via CD-ROM or 3.5in disks.

PCW Details

Price £149 (RRP)

Contact Software Publishing 01344 867100

Good Points More graphs, and offers full 360 degree viewing.

Bad Points Has a bare-bones spreadsheet program.

Conclusion A solid program that's versatile and easy to use

SOFTWARE

Anagram Genius

Completely useless and utterly irresistible, says Ben Tisdall. A must for the person who has everything.

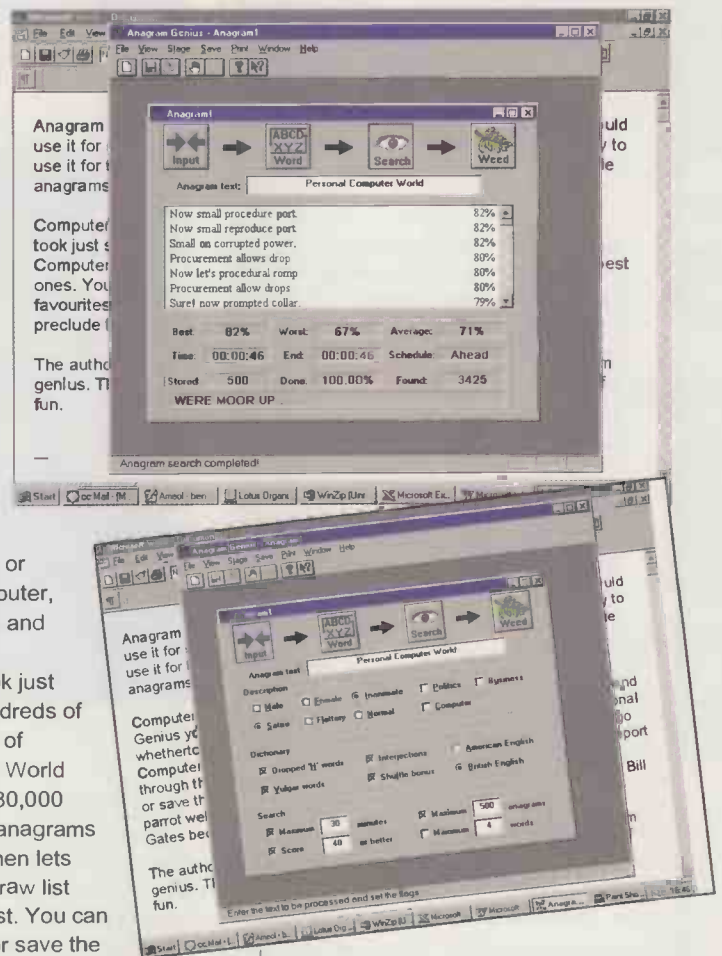
Anagram Genius is devoted to creating anagrams. You could use it for solving crosswords or for playing scrabble but most people are likely to use it for turning names, words and phrases into amusing, alarming, rude or clever anagrams.

Personal computers are ideally suited to the number crunching needed to create anagrams. To use Anagram Genius you just type in your source text, choose English or American English and whether you want a male or female bias, flattery or satire, politics, computer, business or normal, and then press Search.

The program took just seconds to find hundreds of accurate anagrams of Personal Computer World from its Lexicon of 80,000 words. It ranks the anagrams it finds for quality, then lets you go through the raw list and pick out the best. You can then print a report or save the results on disk as a text file. The best from PCW's name included: "composed parrot well run", "reproduce small worn pot" and "preclude tomorrow's plan". Bill Gates becomes "legal bits" or "it begs all".

The author, 26-year-old William Tunstall-Pedoe, has been refining Anagram Genius for seven years. The result is a program that's of very little practical use but nevertheless a lot of fun: at the price, it's cheap enough to buy for that reason alone. Tunstall-Pedoe has also written an illustrated book, published by Coronet, containing the best

anagrams he's managed to unearth. This includes such gems as "I'm palace balls worker" (Camilla Parker-Bowles) and "Manure plot" (Paul Merton).



"Sugar men again"... Anagram Genius could be addictive

PCW Details

Price £19.99; book £4.99

Contact Genius 2000 Software

0151 356 8000. Fax 0151 357 2813.

Web <http://www.demon.co.uk/genius/>

Good Points A lot of fun.

Bad Points Not much practical use.

Conclusion I'm a pirating fragment overhead (*The definitive anagram program*).

PCW How You Can Contribute To The Long Term Tests Section

We welcome contributions from readers for our Long Term Tests section. If you've been using a piece of hardware or software intensively for some time, just write a 450-word article (for hardware) or a 750-word piece with screenshot — GIF format — for software and send it on disk, in MS Word (Mac or PC) or ASCII format, to: The Editor, *Personal Computer World*, VNU House, 32-34 Broadwick Street, London W1A 2HG. Mark your envelope clearly "Long Term Tests". We'll pay for any contributions we use.

HARDWARE**IBM ThinkPad 360c**

Built to withstand nuclear assault and with some nice features, this machine is ideal for work on the go, says NA Nawab.

Six months ago, when confronted with the need to take my work over to a subsidiary company in Coventry, I asked my company's information services department for "a fast clone with lots of RAM". "Out of the question," was the reply. "We only buy IBM machines." Sure enough, a few weeks later I collected a ThinkPad 360c from the IS boys and rubbed my hands in anticipation of the hours ahead playing with my fast, expensive, top-of-the-range new toy. Unfortunately, our IS Department's idea of a

"fast processor" was a 33MHz 486 with 8Mb of RAM — not exactly cutting edge. It's nonetheless a functional and relatively inexpensive machine.

The ThinkPad came with a smart carry case, AC adaptor, the usual manuals, and some free software including Lotus Organizer and Triton Technologies' Cosession Host. The latter consists of remote access software which can enable IBM Helpware staff to access and run diagnostic checks on your computer over the telephone line.

The computer itself exudes quality. IBM's reputation for building bomb-proof computers is certainly well founded in this case. My colleagues and I have put it through its paces, but it has coped very well with the rigours of travel. The TFT colour screen, though small, is of excellent quality with a clear, sharp



Solid, dependable and with a superb build quality, the ThinkPad 360c has proved a reliable workmate

particularly useful. This basically saves your workspace to the hard disk, bringing you back to exactly the same position when the computer is

turned on again. It cuts in automatically when the batteries get low. The batteries themselves last fairly long and are charged very quickly.

Overall the ThinkPad is a solid, dependable machine which is ideal for the novice user. The only complaint I have is the performance, which is very sluggish. This is entirely due to the processor and in no way detracts from the build quality of the machine itself.

picture and crisp colours. It's among the best screens I have seen on a portable. The ThinkPad uses IBM's Trackpoint II cursor controller instead of the usual trackball. It took me no time at all to learn how to use it, but even now it feels just a bit awkward by comparison with a mouse. Over long periods in particular, a mouse puts less strain on my hand. The keyboard is compact and has a nice feel to it. Accessing some of the keys was not as straightforward as it might have been, but only until I got used to the layout of the keyboard. As with the Trackpoint II device, I feel that using this little keyboard for long sessions puts more strain on my hands than a full-size one. Those who may face a similar problem and have won the jackpot on the National Lottery should consider IBM's 701c "Butterfly" series of portables.

I found the "suspend" feature

PCW Verdict

A well-built, reliable portable with some nice features.

Price The current entry level ThinkPad is the 345. It is a DX4/75, with 4Mb of RAM expandable to 20Mb, 540Mb hard disk and a 10.4in colour screen. It costs from £1520

Contact IBM 0345 727272

6 MONTHS
TEST

Long term tests

SOFTWARE

Aldus PageMaker 4.0 for the PC

2 YEAR
TEST

After five years on the market this is still a versatile package, ideal for most DTP needs, says Marc Hindley.

I've been a dedicated PageMaker user since version 3 was launched, and I've always thought it was brilliant. The major improvements in version 4 were 0.1-point increments in type size, text rotation — albeit in 90 degree turns — excellent manual kerning controls and good, if not brilliant, colour support.

Compared with version 5 or Quark XPress it has a number of limitations, but this is still a powerful publishing tool even after five years on the market (still available as PageMaker Classic for under £60) and two upgrades later.

I use it daily for newspaper production, and actually chose it in preference to PageMaker 5 because of its price and suitability. It can't separate full colour photographs, but since we only use about two a week we just output them from Photoshop to be stripped in at the film stage.

Speed-wise, it can perform at a terrific rate. One of the problems I had with version 3 was that it couldn't keep up with me — I use a lot of keyboard shortcuts and memorise the sequences for speed-formatting of text. I would recommend 8Mb of RAM for a serious power user to obtain full speed, but it still runs very well on 4Mb.

Up to 999 pages can be accommodated per file, but this is impractical for most purposes and it is possible to break documents down into smaller "linked" files for easier handling. Master pages can be set up with styles and automatic page numbers, which is great for long documents.

Inputting of text can happen three ways. Word processor files can be imported into your publication, you can key directly onto the page in a chosen typeface, or you can use the Story Editor, a nifty little built-in word processor which

has an excellent spellchecker with good UK English.

Once on the page, unlike other DTP programs the text appears in "blocks" with handlebars at the top and bottom. The blocks can fit into predetermined column guides or stretch to span over any number of columns, or part columns. There are three types of flow control when arranging text — manual, semi-automatic, and automatic — which, although perhaps bewildering at first, brings significant control to the power user.

Under the Type menu there are sub-menus for font, type size, leading and alignment, but power users would be advised to use the Type Specs in the same sub-menu (keyboard access Ctrl-T). This dialogue allows viewing and editing of font, typesize, leading, width, case and

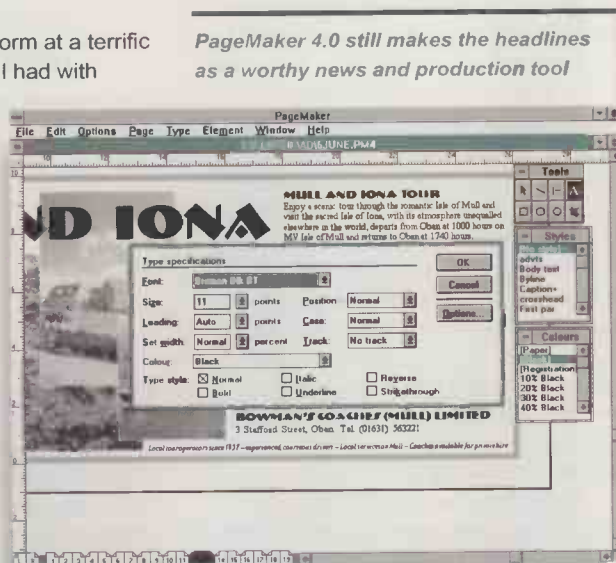
the Spacing dialogue) which defaults at Proportional. Vertical type spacing is difficult with this setting and Top of Caps is recommended for the best control, allowing lines to be accurately spaced by leading.

One-hundredth em kerning can be a godsend when working with long columns (such as in news and books) because it allows volume adjustment without the need for editing. A typical newspaper column of 400 words can easily be reduced or extended by convenient amounts using this simple kerning technique, and it doesn't show to the naked eye (I limit myself to a maximum of 2/100ths of an em either way). Text can also be compressed or expanded between 4 and 250 percent, but should be used with care. Headlines or body text should not be condensed to fit space in editorial, but for advertising or design purposes this is a good tool to have.

Text rotation is only in 90 degree increments, and once rotated it becomes fixed and non-editable. This can be tricky if you are trying to accurately place sideways text. Force justification, a feature which you will probably use rarely, works wonders when you do need it. By stretching the last line of a paragraph to the extremities of the text block, creative effects and spacing adjustments can be made.

PageMaker 4.0 is an able tool for weekly newspaper production, advertising design or book production. With a graphics package and an image editing package, you have all you need to produce anything from a business card to a book to a broadsheet newspaper. I've done all three.

PageMaker 4.0 still makes the headlines as a worthy news and production tool



track in one screen; this can easily be negotiated with the keyboard rather than the mouse. Because of a quirk of code, the font menu only shows up to 27 fonts under the font sub-menu, so this is an especially useful feature.

Paragraph specifications such as indents, spaces between paragraphs and alignment are easily altered from the Paragraph dialogue (Ctrl-M). This box also contains the leading method (under

PCW Verdict

Although limited compared to Quark XPress, PageMaker is a nice performer, both in terms of speed and finished results.

Price £515 — average street price for PageMaker v6. Upgrade from 4 to 6 — £95
Contact Adobe 0181 606 4000

The Vision thing

From writing apps for programmable calculators, to AlphaBlox via South Africa, Symantec and ESP, Michael Skok is the archetypal young entrepreneur — and he's British. Michael Hewitt meets a man with the Midas touch.

Back in the late seventies, the then cult TV series *Not the Nine O'Clock News* carried a sketch in which top trade union leaders attempted to speak for 30 seconds without using the word "aspirations". First, Hugh Scanlon: "I tell you now, comrades, our members' aspirations" (Beep). Then Arthur Scargill: "If the miners listen to our advice, they will give us a massive "Yes" vote tomorrow. Their legitimate aspirations" (Beep). And so on, unto fraternal solidarity.

If they were doing that sketch today, they'd probably try to get the CEOs of major IT companies to speak for half a minute without using the word "vision". In days gone by, it was something you beheld while in a state of religious bliss. Now, luminaries in the computer business tend to get it as one of the side-effects of launching a new software product, particularly if it's object-orientated. Michael Skok is no exception:


"Bill Gates' vision — and I found myself in full agreement with it — is exceptional... There's one key vision I have for the future... It was a tough market, but my vision was to see it work at a global level... Our vision is of a world where we can deliver scalable components on any platform."

Michael Skok is the quintessential thirtysomething British entrepreneur. I'd read somewhere that he was a millionaire by the time he was 24. He disagreed: "Earlier than that, I hate to say. But the interesting thing is, I never realised it." He started out as a stereotypical computer whizkid. Now he looks like a stereotypical City businessman. En route from tee-shirt to Crombie he's built up a number of companies, including Skok Systems, ESP, Symantec, and the new one, AlphaBlox. Basically, he starts out with the vision, invests years and capital into a project, decides enough is enough, gets some more vision, and then moves on to another. So how did it all start?

"Through the fairly usual channels of prep-school, public school and university, where I studied management science and engineering. But already, by the time I got to university, I realised that the engineering part of the degree really wasn't for me." His Road to Damascus experience actually occurred a couple of years before, aged 16, when he first encountered a Hewlett-Packard programmable calculator. "The fascination never stopped from that point on. The excitement of being able to solve a problem — automatically get a result — was just incredible."

Back then, programmable calculators and other such pieces of primitive computer hardware were somewhat akin to cars without a steering wheel or gear-box. The concept was fine, it was just that no-one produced much off-the-shelf software for the things. You had to do it yourself. Most people couldn't, or wouldn't. Skok soon discovered a lucrative niche market writing applications for them: arbitrage systems, inventory control software, shipping routing systems and so on.

"I did a number of consulting assignments for organisations such as Rank Xerox stores, and other people who were beginning to sell what were then the early PCs. I suddenly discovered that I could make money. But I just loved the work and found that it was incredibly



"I think the challenge, the excitement of something being made from nothing, is what motivates me"

rewarding. So by the time I left university, I'd already found my career and was enjoying it."

Upon graduation, Skok went to South Africa to join his father and brother, arriving just in time for the start of international sanctions. There, amid what he describes as "truly horrendous market conditions", he founded Skok Systems, which produced some of the world's first networked desktop CAD/CAM packages. The country's economic climate didn't turn out to be a problem.

"We quickly focused our business on the products in the marketplace and not the country itself. I spent the bulk of my job running international offshoots of Skok Systems, including branches in Australia, Singapore and Europe. I did some important OEM deals with people like Hewlett-Packard, which turned out to be some of our biggest business. So although it was a tough domestic market, we made our business work at a global level." Skok was soon raking it in to the tune of \$16 million worldwide. Not that the money went to his head.

"It may sound a bit odd, but my brother and I didn't regard the amount we had in the bank merely as being a measure of how well we were doing. At that age, you

don't have a lot of outgoings or dependencies like families, so you don't really think about it. What you do think is: are we succeeding? Are we managing to compete?

"One of the things I think was important was that we never assumed that the next risk wasn't going to require every bit of capital we had. So it might have seemed like we had a lot of money, but our assumption was that, at any point in time, no matter how much was in the bank, we might need that money the next day to develop a new product or open up a new market."



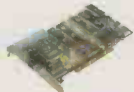










Having achieved initial success in 1988, Skok moved back to the UK and founded his second company, ESP (European Software Publishing) Systems, intended to research business needs, source the best products, and provide businesses with the necessary investment in management, marketing and support. In the same year, he founded the software company Symantec, probably best known for its database-cum-word processor, Q&A. It was a rather good, albeit no frills package, which has now been unceremoniously dropped. Ben Tisdall asked me to ask why.

"Good question, Ben," he said, misty-eyed for a moment. "What happened to

Q&A is rather classic and symptomatic of the industry. It literally fell by the wayside as Symantec got caught in the move to Windows. Sadly, they hadn't been early enough to market with a Windows version of Q&A and along the way competitors eventually displaced them.

"That's the unfortunate thing about Windows — the juggernaut of the industry — in that it sometimes leaves its users' needs behind. What users really need aren't massive, integrated suite-style applications, but simple, individual component pieces of software, each of which does a specific task. Which is where our OfficeBlox products come in."

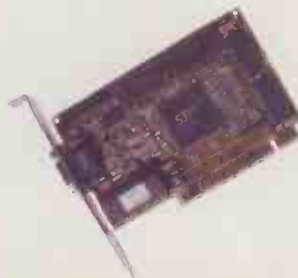
OfficeBlox is the MFI/G-Plan approach to software. Basically, all the really essential applications are split into their component parts. Running under Windows 95, each element performs one specific function. CalcBlox, for example, is a calculator. NoteBlox allows users to take notes. ListBlox allows you to make lists. You can use them individually, or thanks to the underlying OLE technology you can join them together in whatever way you like to build up your own office software suites. Alternatively, they can be launched from within other Win95 applications. Each OfficeBlox program is only about five

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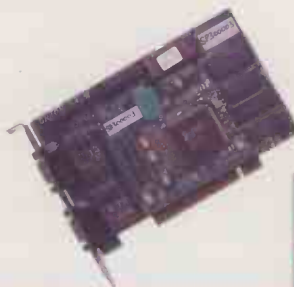
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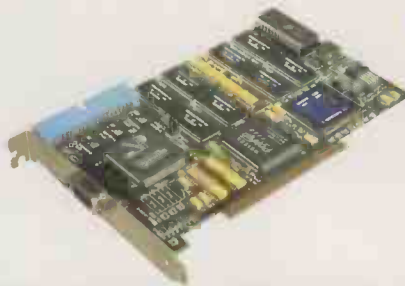
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percent of the size of traditional applications and so loads, and works, a lot faster. Where did the idea come from?

"From listening exactly to our customers' views. They said there had to be a better way of solving business problems than putting the whole bloody lot into a big box and saying: it's in there somewhere — you figure it out. What we've found is that if you analyse what people do with different software packages and systems, they need very specific things to do very specific tasks. They don't want to be distracted by add-ons. The OfficeBlox approach — componentising exactly what people need — is my vision of the future of the software business."

AlphaBlox and its products were kicked into life back in August of last year, before Windows 95 was even launched. Wasn't this a big risk?

"We were staking an awful lot," he agreed. "But what we didn't want to do was offer a product that was hampered by being on old technology. We believed first of all that Win95 as an operating platform provided so many clear benefits to users that, at some point, it would begin to take hold. Besides, I've always taken a long term view of business. I have a view that no business is going to get anywhere within less than three to five years."

Possibly. But, ultimately, are the smaller software houses, such as his own, going anywhere? Many people reckon that, in the face of the joint efforts of Microsoft and IBM to rule the world, the lesser players could be forced out of existence. Might AlphaBlox be one of the many casualties?

"There's no question that size plays a competitive advantage here, in everything from buying media space to your ability to get shelf-space. However, the industry has changed. There are now many ways in which smaller companies can address those challenges, either in a guerrilla-like fashion or an intelligent fashion, such as forming strategic alliances. Another way — our way — is by riding a wave others are building for us. Windows 95 is just such a wave. One of the exciting things about our

technology is that it not only does something valuable in its own right, but it adds that functionality to other Win95 programs, too. In this way, we're effectively playing alongside the big boys, rather than going against them in full frontal competition."

Very well. So modular, object-orientated packages are the future of software. What of other future trends? The world, obviously, is going to become increasingly more "wired", thanks to the Internet and other advances. Skok cited instances where the underlying communications infrastructure has already started to transform our lives.

"Yesterday, we had a video conference — a face-to-face interactive meeting — with a major company in Germany. It required a combination of video conferencing, ISDN communication and the ability to send and transmit software across the World Wide Web in a very short time. I wouldn't have even considered



doing that using the technology that was available just 18 months ago. Since then we've come on in leaps and bounds."

Skok has also wired up his own home using the same technology. "I've had ISDN in my business and in my home for quite some time. It enables me to 'virtually' work wherever I need to, regardless of location. Some days, you'll find me getting home as early as I can to take advantage of the time zone differences. On other occasions I'll work very late into the night to catch, say, Australia or take advantage of the US day. The only difficulty with work in today's world, or for us as a global corporation, is that the time zone difference means that there's potentially a 24-hour working day. Not that I'd advocate it for anyone. No-one's capable of going without sleep."

Nevertheless, he has a vision of the wired world breaking down the barriers between different industries and, in time, giving rise to the next key trend: all homes and offices will be equipped with a multi-purpose device which will be used either as a TV, a computer, a fax machine or a video

conferencing device.

"I call this the 'digi-centre'. I might trademark the word one day. What that device will look like depends on the type of customer being targeted. But the digi-centre is bound to have PC-like functionality built in. I'd like to see it modular. So you, the user, will decide whether or not you want to plug in a 1086 processor to do your own word processing, accounts, or whatever, at home. Or couch-potatoes will simply be able to use it as a big television set."

He believes there's every likelihood that data storage will no longer be local. Instead, you'll pay the network provider a monthly sum and they'll store all your word processed files, digital images, and telephone conversations somewhere off-site, to be called up over the line as and when required. But isn't this going to require a massive overhaul of the underlying telecommunications infrastructure?

"Yes and no. There are various ways to tackle this bandwidth problem — fibre optic, satellite. The important thing is, there isn't just one industry that's going to dominate here. I think there's an incredible opportunities for changes in hardware and software."

And, presumably, Michael Skok, as head of whatever company's he's running by then, will be up there, taking advantage of them? Or could there come a time, possibly in the very near future, when he'll feel content to drop everything and just sit back and reap the rewards of all those years of hard work? Apparently not.

"If money were ever the driving force, I'd stop today. It's not. I think the challenge, the interest of building things, and the excitement of something being made from nothing, is what motivates me. It's exciting, but it can also be unbelievably hard work. You've got to be persistent, diligent and disciplined about going after your vision. My key belief is that you have to do what you enjoy. And if you do what you enjoy, you tend to do it well. If you do it well, you're successful at it."



Four wheels

A high level of virtual reality technology has enabled Sainsbury's to recreate its Salford store, inside and out. Its researchers can now "walk" around the store, adapting, improving and increasing profitability. Simon Rockman pushes his

on my trolley

trolley to this deli counter of development techniques.

When Mike Matthews wrote his initial memo, concerning a virtual reality (VR) project, to his bosses at Sainsbury's he stated that it would not be possible to recreate a whole store. But now, just over four years later, Matthews talks not only about how accurate is the model of the Salford store, but discusses options for improving and adapting it.

Mike is CAD manager for the development division of Sainsbury's. He tells the people who look after the property what can and cannot be built. He waxes lyrical about the new design of air curtain which allows the doors of the shops to remain open while retaining the level of air conditioning inside.

The Salford store, with 27 checkouts, is one of Sainsbury's largest. A regular customer there is

(Nortel). These companies are part of a consortium which has funded Insys to carry out leading edge research into virtual reality. Although they all want different things, their requirements are the same in many ways.

Vickers Shipbuilding wants a computer model of a submarine to see whether an engineer could reach around parts of a cooling system to

The benefits of VR suit all those companies dealing with Insys so well that they have formed a club, the VRS (Virtual Reality & Simulations club) to fund and share Insys research. This has replaced the government funding which was originally supplied to the National Advanced Robotics Centre. There are 12 members of the club, each paying £25,000 per year. This high level of funding is necessary because the research unit needs the most powerful systems available.

High-speed hardware

The machines Insys uses are Silicon Graphics Onyx machines. They have two: each with dual MIPS4400 processors and 96Mb RAM. The high-throughput design makes them suitable for the graphics-intensive use to which Insys puts their machines. They are fitted with Reality Engine II graphics cards and are capable of very high speed rendering.

The hardware looks after a lot of the functions which would normally be handled in software — texture mapping



The technology has uses far beyond supermarkets

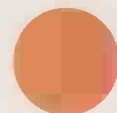
Andrew Connell, the lead researcher into VR solutions at Intelligent Systems Solutions (Insys), a company spun off the Advanced Robotics Research centre at the University of Salford.

It is Insys which has produced the virtual reality supermarket for Sainsbury's and has produced a number of similar projects for various companies including GEC, ICI, British Nuclear Fuels, Vickers Shipbuilding and Northern Telecom

reach a valve, while Sainsbury's wants to see if a butcher can reach around a cash register to the front of the meat counter. In the past, Vickers would have built a model — the American military builds full-size wooden models of submarines, while the British tend to use scale models, with scale model people. Sainsbury's would just build the actual set-up to see if it worked.

There is a tremendous amount of detail on the model. This view looks very convincing through a headset





● Glass can be simulated

and z-buffering included. Turning off texture mapping on a PC multiplies the frame-rate: on the Onyx it's only an eight percent performance penalty. This big machine cost a quarter of a million pounds three years ago — its replacement is on order.

Insys uses smaller computers as well: Pentium and 486-based units running Superscape, the 3D program which grew out of a home games system.

The Pentium systems allow Sainsbury's and other members of the club to test out store designs without having to use the powerful computers at Insys, but the results are less convincing. There is no texture mapping and the resolution is not as good, but this smaller system becomes an excellent communications tool: other people can be shown a representation of how a new store layout would look.

The walls come tumbling down

Part of the original research specification was for an "instant change" option. This allowed Mike Matthews to see what the Salford store would look like if the back wall were to be changed to resemble that of another store. But the speed at which the resulting alterations were presented for viewing was just too fast and thus a slow change option was added: now, the original wall of a particular store (with all its shelves and counters) slides down



● The viewer has full control over the characteristics of the world the supermarket inhabits

and the new wall slides in from above.

The back wall of a supermarket is particularly important. Stores are laid out with all the basics like milk, meat and bread at the back of the shop so you have to walk past shelves of other items you didn't think you wanted when you



● The interior view mixes bitmaps with vector images

first entered. The back wall is one of the many changes which can be easily made using this type of system and that is the major attraction for Sainsbury's.

By far the simplest method of solving in-store problems would be to walk around the actual store, but travelling to various sites from head office is time consuming. Added to this is the difficulty of achieving the direct comparisons possible by using a computer model; to slide out a back wall, for instance.

Café society

The company found that a café in one of its stores wasn't doing as well as expected. By "walking" around the computer model they found that there were certain angles from which the sign was obscured. The sign was duly moved and trade picked up.

Stores are designed using CAD (computer aided design) and the data entry for these systems is helped by the universal use of the DXF file format. Yet the Salford store was built from architectural plans, dimensions and photographs. Normally, only the inside of a store is designed. The Salford design is unusual in that it

incorporates the outside of the store as well, with the car park and signage. This resulted in a sign having to be moved because, from a car travelling at a reasonable speed, you couldn't see the entrance soon enough to turn into it.

But practical experience is still necessary: Insys' Andrew Connell bemoans the introduction of the no-entry sign which makes his journey home just that bit longer.

Driving around the empty virtual car park feels a bit strange. It's quite realistic, though; a feeling helped by the algorithm having inertia and collision detection. If you drive over the flower beds, the view tilts accordingly. You can only get up steep slopes if you are going sufficiently fast, but with enough of a

Computer data checkout

Computers are good at extracting money from customers and supermarkets have relied on systems for stock control and management functions for decades. The LEO (Lyons Electronic Office) was the first computer to be used in commercial applications, way back at the dawn of computing, but now computers are being used to make the most of the information that's available within every supermarket.

Do-It-YourSelf-scan

Safeway is experimenting with a system called Self-scan. Customers who have a store card can carry their own bar-code scanner around the shop. As they take items off the shelf they scan the bar code and put the product in the trolley. Fresh produce is weighed in the bag and the scales produce an individual bar code. Goods can be put back by deleting them from the scanner's memory. When the customer arrives at the checkout, the scanner is handed in and the bill produced.

The system is open to abuse. Although Safeway can identify all its customers who are using scanners, it would nevertheless be possible for these customers to put goods into their trolleys without scanning them, or to add a couple of carrots to a bag after it had been weighed. But Safeway believes the system holds advantages in the speed at which customers can be processed and believes in showing trust (there are plenty of other ways in which a shop can be defrauded). Nevertheless, facilities do exist for checking-up at the checkout point — just to make sure.

Trolley traffic

Database management is another useful application. Stores keep a close eye on what is sold and when. With the advent of store cards — Tesco is a leader in the field — the shop can also tell who is buying what. If the shop knows that Tuesday evenings are the time when their customers are more likely to be single males, they may use the public address system to announce bargains on TV dinners and lager. At a time when mothers are more likely to be in the store, baby food and nappies can be promoted.

Beyond this, there is scope for attempting to reduce in-store traffic at busy times and increase it during quieter periods. This could be achieved by making it cheaper to shop at certain times.

By using LCD price tags on the shelf, the store could automatically adjust its prices so the best possible price would be available to the shopper at certain times — a system with which the store's own buyers are familiar when purchasing fresh produce at the market.



The Salford store is unusual in having an exterior view

run-up you can get onto the roof of the shop!

Even though it is quite like a computer game, it needs to be modelled on real life and this has a significant effect on performance. The Silicon Graphics machine may cost a thousand times more than a Sony Playstation but the results are comparable only in terms of frames per second (fps): the system runs at about 12fps with a 640 x 480 display but looks good thanks to the resolution and colour depth. The speed is around

300,000 polygons per second with realtime anti-aliasing and blended pixels. This means zooming in on a bitmap doesn't go blocky the way it does in a game such as Doom. The software averages the colour between pixels.

Names in lights

Future improvements will see Insys using radiosity rather than ray tracing to cater for the lighting in a virtual reality store. Although this may mean that the results are technically less accurate, they will

nevertheless look better, particularly with lighting effects such as neon. It is in an area like this, where the gap between commercialism and research is bridged, that Insys comes into its own.

Immersive VR

For calculating how well a new design will work, it is best to use immersive VR. Insys has worked with a number of headset designs and views rapid development in this area as being the tool which will help its particular type of research gain more mass-market appeal.

Although the human eye is far more critical of detail when looking straight ahead, it has a very wide field of vision. Anyone walking into an optician with vision that was only as good as the average VR headset, would be registered blind and qualify for state aid.

New headsets with better resolutions and wider fields of view are appearing, but they are expensive: a headset with 1024 x 768 resolution still costs more than £120,000. A more moderately-priced

headset, with 640 x 480 resolution and 75° field of view still costs £20,000. Insys likes the lightweight Virtual IO headsets which only cost hundreds of pounds.

Lighting and VR will help the virtual Sainsbury's look more realistic but they won't *feel* more realistic until they are "populated": this will probably take the form of trolleys propelling themselves around the shop. More difficult will be the addition of shadows.

The good old days

But even these additions are a far cry from the

possibilities that Sainsbury's Mike Matthews envisages. Today it's possible to walk around a virtual supermarket, take things off the shelf and examine them, put them back, or add them to a list of items you want to buy. Sainsbury's uses this for store design but in the future it might be possible to walk around the store from your own home. Technology like 40Mbits/sec cable modems make silicon shopping a real possibility. You could "walk" around a shop from the comfort of home and the shopkeeper would deliver the goods to you. It's not so very different from the way shopping was done fifty years ago.

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HARD DISKS



The hard disk is the heart of your PC — it takes the strain and the blame. They get bigger, better and cheaper all the time, as Eleanor Turton-Hill and Gordon Laing explain.

It's the hardest working part of your PC, the component that continually hammers away to keep your machine afloat. Which elements of your system are you least happy with? If you answer speed and storage capacity, then your hard disk is probably most to blame.

The average PC's hard disk stores all your documents, files, applications and even the operating system itself. New

versions of software may offer greater facilities, but inevitably demand more space. Typical documents these days are not just limited to plain text; they may consist of storage-hungry sound and video clips. It's no wonder that yesterday's hard disks just cannot cope with the strain.

Remember that before your fast processor can get down to work, the information must be accessed from your hard disk. If RAM is short and virtual memory facilities are called upon, once

again it's your hard disk to the rescue. Clearly the bigger and the faster it is, the better.

But the news is good: today's hard disks are larger, cheaper and faster than ever before. The only thing to match the incessant spiralling of hard disk capacities is the rate at which they plummet in price. It is now possible to buy 1000Mb of hard disk storage for little over £100, which is great value in anyone's book.

Over the following pages we're looking at two very different ends of the hard disk market. At one end, representing value and the upgrade market, are IDE drives around 1Gb in capacity and costing around £150. At the other, representing high performance and specialist work, are SCSI drives, 2Gb in capacity, and costing around £550.

Along with detailed tests, results and conclusions, we've also got features on the IDE and SCSI interfaces, and the way a hard disk actually works.

How they work

The hard disk inside your PC is made of aluminium alloy covered with a magnetic coating. This disk itself is a rigid plate, hence the term "hard", and is completely sealed inside the case. They also spin very fast and have high recording densities, which means they must be kept free from dust and any other kind of environmental contamination.

Data is recorded onto the magnetic surface of the hard disk in exactly the same way as it is on floppies or digital tapes. Essentially, the surface is treated as an array of dot positions, each of which can be identified and set to a binary "1" or "0". The position of each array element is not identifiable in an "absolute" sense, and so a scheme of guidance marks helps the

recorder find positions on the disk. The need for these guidance markings explains why disks have to be formatted before they can be used.

When it comes to accessing data already stored, the disk spins round very fast so that any part of its circumference can be identified quickly. Hard disks typically spin about 5,400rpm or 1/90 second per rotation. High-performance drives today spin at 7,200rpm and the best are able to sustain around 7Mb/s.

EIDE (Enhanced Integrated Drive Electronics)

It's well known that the internal parts of the average home PC do not (alas) fit together like the bricks in a Lego set. But as the personal computer market matures, universal standards are slowly making an impact on the design and compatibility of PC hardware. The process is slow, and as with many other consumer products, standardisation is a difficult and messy process.

One of the earliest and most significant standards introduced into PC hardware was IDE (Integrated Drive Electronics), a standard which controls the flow of data between the processor and the hard disk. The IDE concept was initially proposed by Western Digital and Compaq in 1986 to overcome the performance limitations of earlier subsystem standards like ST506 and ESDI. The term IDE itself is not an actual hardware standard, but the proposals which were put forward were incorporated into an industry-agreed interface specification known as ATA (AT Attachment). ATA defines a command and register set for the interface, creating a universal standard for communication between the drive unit and the PC.

One of the major innovations introduced by IDE was the integration of the disk controller functions onto the disk drive itself. The separation of the controller logic from the interface made it possible for drive manufacturers to enhance the performance of their drives independently — there were no performance-boosting features incorporated into the ATA interface itself.

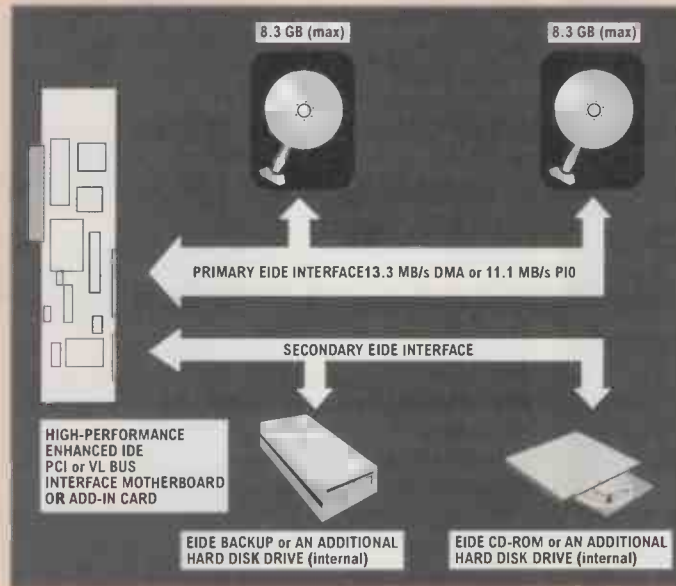
The mass acceptance of the IDE standard hinged on its ability to serve the needs of the market in terms of two important criteria: cost and compatibility. Over the years, these two factors have been more significant to mainstream PC users than high performance and as a result IDE rapidly became established as a mass market standard.

EIDE

Since the implementation of the ATA standard, the PC has changed dramatically. The IDE specification was designed to support two internal hard disks, each with a maximum capacity of 528Mb, and in 1986 this upper limitation seemed to be beyond all imaginable requirements for PC users. But within ten years, faster processors and new local bus technology (PCI and VL) have been introduced, and this combined with increasingly demanding software made the IDE interface into a performance bottleneck.

In 1993 Western Digital brought EIDE (Enhanced

IDE) onto the market. EIDE is a standard designed to overcome the constraints of ATA while at the same time maintaining backward compatibility. EIDE supports up to four internal devices including CD-ROMs and tape drives — a great improvement on IDE, which was designed exclusively for the connection of hard disks. EIDE also allows for disk drives with a maximum capacity of 8.4Gb and data transfer rates up to 13.3Mb/sec.



EIDE in detail

The four possible devices on an EIDE system are handled by two channels. Each channel supports two devices in a master/slave configuration. The primary port is generally connected to a local bus (PCI or VL), and this is set to the same address and IRQ setting as it was on the standard IDE system. This ensures backward compatibility with IDE systems and prevents conflicts which could otherwise crop up with your operating system, or other software which communicates with an IDE device. The old IDE system

must be set up to cope with the enhancements in EIDE (higher performance and increased hard disk capacity) and this is enabled by additional software.

The ability to support non-disk peripherals such as CD-ROM drives and tape drives was made possible by the ATAPI (AT Attachment Packet Interface) specification, defined by Western Digital. ATAPI is the protocol used to transfer data and status and control information between a PC and a hard drive. ATAPI is an extension of the ATA protocol defined to bring a single command set and single register set to CD-ROMs, and it can also support other devices, such as tape. ATAPI contains several commands which are specific to CD-ROM devices, including the Read CD command group as well as a CD speed-select command.

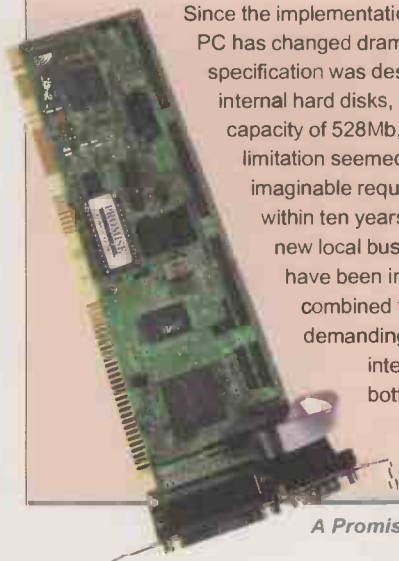
PIO modes

The most significant benefit of EIDE is its massively improved data throughput, compared to the original ATA standard. Fast data transfer is made possible by the higher bandwidths available on VESA and PCI local bus architectures. On a standard ISA bus host transfer rates are limited to 2-3Mb/sec, whereas new transfer modes permit rates ranging from 10-20Mb/sec — speeds comparable to those achieved using Fast SCSI-2.

This fast data transfer operates using new definitions for Programmed Input/Output (PIO) — a standard method for transferring data between the drive and the PC. Definitions already exist for transferring data using Direct Memory Access (DMA), but these require substantial changes in the BIOS and in external device drivers.

Enhanced IDE in its most common form currently defines PIO mode 3, which allows data transfer rates up to a maximum of 11.1Mb/sec. PIO mode 4 is now appearing on the market and allows an even higher data transfer rate of 16.6 Mb/sec.

Eleanor Turton-Hill



A Promise EIDE interface card

SCSI (Small Computer Systems Interface)

The Small Computer Systems Interface, known as SCSI (pronounced scuzzy), was developed in the early eighties. SCSI, like IDE, is a bus which controls the flow of data (I/O) between the computer's processor and its peripherals, the most common peripheral being the hard drive.

SCSI peripherals are connected in a chain to a SCSI host adaptor which controls the system. Each device on the chain, including the host, must be identified by a unique ID number. One SCSI device must not use the same ID number as another, but they may be numbered non-sequentially.

Vanilla SCSI supports up to eight devices, using ID numbers of 0 to 7. The controlling host adaptor traditionally occupies ID 7 and boots (starts up) the operating system from the device with the lowest ID number. Most SCSI systems set the boot hard drive at ID 0, leaving IDs 1 to 6 free for

other non-booting devices. When a SCSI system starts up, all the devices on the bus are listed along with their ID number.

Most SCSI host adaptors feature external and internal connectors, with the option for the chain to extend in either or both directions. Both ends of the chain, whether at the host or a device, must be electrically "terminated" with resistors to prevent signal reflections and guarantee data integrity over long cable lengths. Termination comes in several varieties, from physical jumpers or plugs to software configurations.

SCSI peripherals include hard drives, CD-ROM drives, scanners, CD recorders, tape drives, rewritable optical or removable drives. The ability to connect up to seven of these, internally, externally or both, offers far greater flexibility than Enhanced IDE's limit of four internal devices.

SCSI evolution

The bandwidth of a system is the maximum amount of information that may be sustained on the bus and therefore has a significant effect on potential performance. The original 1986 SCSI-1 standard used asynchronous transfer, where the host and device, blind to the other's maximum potential, slowly exchanged 8 bits at a time, offering a bandwidth of up to 3Mb/s.

With synchronous transfer, the host and device together determine the highest rate of transfer they can sustain and stick to it. SCSI-2 featured synchronous transfer, raising the bandwidth to 5Mb/s. A later extension known as Fast SCSI-2 used synchronous transfer at twice the speed, boasting a maximum rate of 10Mb/s. The Fast SCSI-2 standard, completed in 1994, is currently the most common SCSI variety.

Wide SCSI runs at the same clock speed as standard, narrow

8 bit SCSI but uses a 16-bit data bus, again doubling the bandwidth. A Fast Wide SCSI-2 bus may sustain 20Mb/s. Wide SCSI adaptors may support up to 16 devices on a single chain, with IDs 0 to 15.

The latest incarnation, UltraSCSI, doubles the speed of Fast

SCSI-2 again, offering synchronous rates of 20Mb/s. Wide UltraSCSI uses the same clock speed as UltraSCSI, but using a 16-bit data bus doubles the bandwidth again to 40Mb/s. The first UltraSCSI host adaptors from Adaptec and BusLogic arrived in late 1995, with the first UltraSCSI hard drives emerging in the new year. All major hard drive manufacturers have announced support for this new standard.

SCSI is entirely backward compatible, with ancient SCSI-1 devices operating on brand new UltraSCSI host adaptors. In order

to exploit the potential of faster, more recent SCSI devices, you will of course need a matching host adaptor. Similarly, the fastest host won't speed up an old, slow SCSI device.

Bus issues

Remember that the bandwidth of a SCSI system limits the combined simultaneous transfers from all the devices on the SCSI chain. The ISA bus bandwidth of 5Mb/s is clearly not suited to anything greater than a SCSI-2 host with a single hard drive. Much better are SCSI host adaptors designed for use in local bus systems, particularly PCI which can support a bandwidth of 133Mb/s.

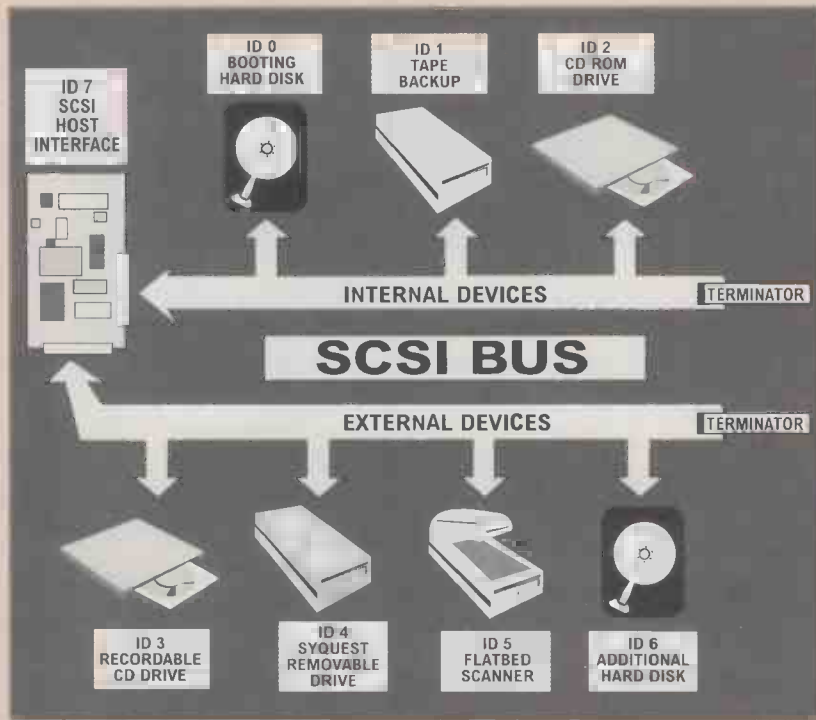
However, the Wide UltraSCSI bandwidth of 40Mb/s does not herald the arrival of single hard drives delivering 40Mb/s. Indeed, even at today's fastest spindle speeds of 7,200rpm, a single hard drive may sustain 8Mb/s, at best. But put four of them on the same SCSI chain, all requesting top burst transfer rates, and you'll need Wide Ultra to avoid saturation of the bus.

The future of SCSI

Plug and play bounds ever-forward with the recent introduction of SCAM, SCSI Configured AutoMagically. This horrendous acronym refers to the ability of a SCAM-equipped host adaptor, such as Adaptec's latest PCI 2940 Ultra Wide, to automatically set the IDs of SCAM-compliant SCSI devices, thereby avoiding any conflicts.

The proposed SCSI-3 standard consists of several levels, including normal and wide UltraSCSI, which could be the final flavour of parallel SCSI. The future of SCSI-3 and indeed most high-performance I/O lies with serial solutions including SSA (Serial Storage Architecture) and Fibre Channel.

Gordon Laing





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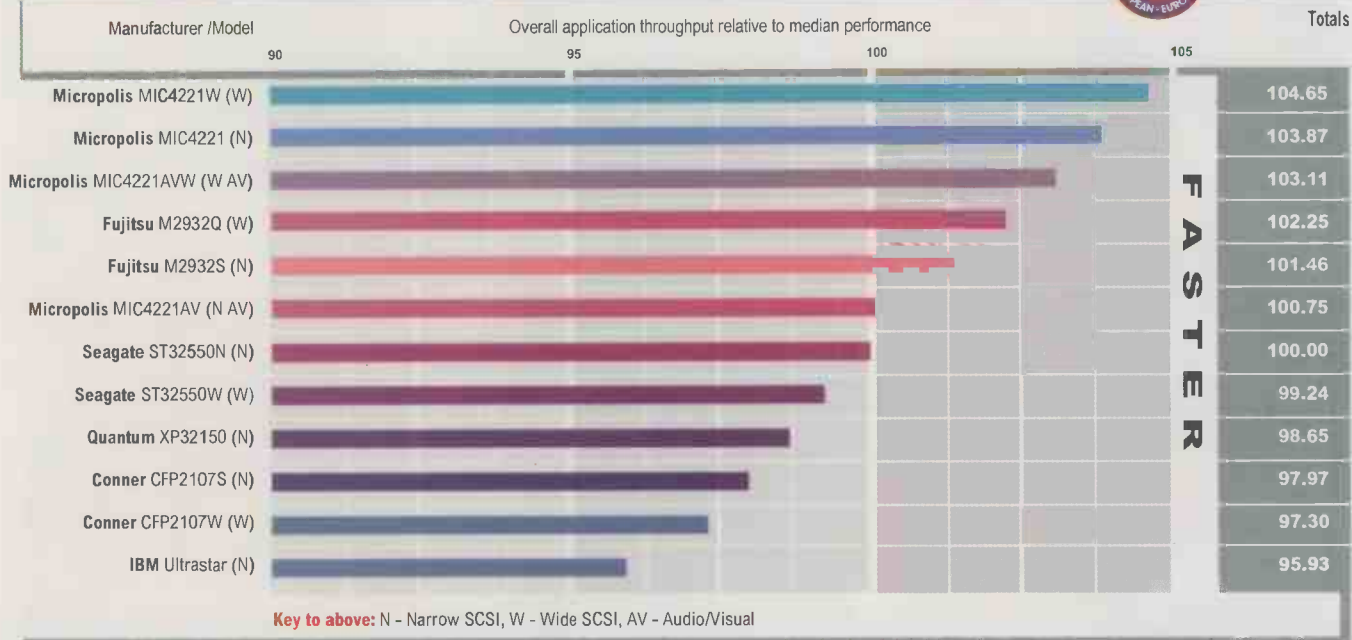
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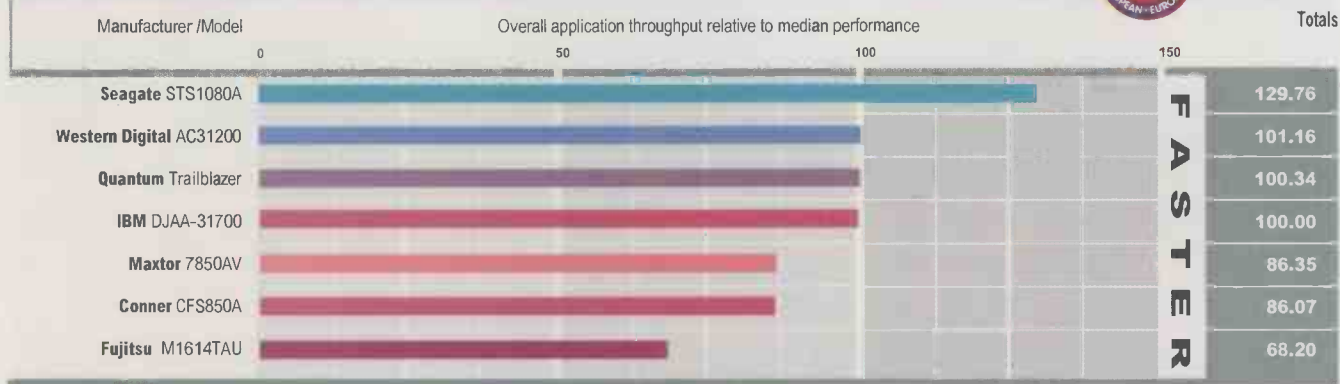
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SCSI Overall Performance Results



EIDE Overall Performance Results



How we did the tests

The major obstacle in providing meaningful benchmark results is that performance tests tend to measure just one attribute of a given component. To give a more accurate view of performance we've used three different tests, each one measuring a different aspect of performance. Our conclusions are based on the combined results of these benchmarks, which operate using a combination of real-world and simulated workloads.

For each test, the hard disk is attached to the test machine as an empty D: drive. This prevents collisions, fragmentation and other aspects of the operating system from influencing the results. The test machine was a PCI Pentium 90, with test IDE drives connected to the second channel of the on-

board PCI EIDE controller and test SCSI drives connected to an Adaptec PCI Ultra SCSI host controller.

To get a measurement of raw data throughput, the first test uses a series of "empty" files (containing only space characters) to provide a load. This test is run using the HPFS (OS/2) file system which itself resists fragmentation. The HPFS test stresses disk performance in a non-DOS/Windows environment, and for this reason it's given a low weighting in the overall score.

The second benchmark uses the Euromark component-level test and measures the performance of the test disk against a "control" score, working at the OS level. It comprises a selection of file-level and

BIOS-level random and sequential reads and writes of differing block sizes. In order to create repeatable test results and to actually pressurise the disk rather than the whole system, this test bypasses SmartDrive and other disk caches.

The third test is an application-level test which measures the real world benefits of a particular hard disk. The test runs with typical (default) disk caching options in operation and relies on FoxPro, a disk intensive database application (FoxPro ran under DOS for the IDE drives, and for Windows, running under Windows 95 for the SCSI drives). The actual operations include a mix of file-level sequential and random reads and writes using the default block size determined by the OS.

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Conclusion

EIDE

All the EIDE hard disks included here support EIDE mode 3, which is now the standard for mass produced hard drives. Despite the universal adoption of EIDE, our performance results show a clear difference between each of the drives in this round-up. So what is it that makes one hard disk faster than another?

To fully exploit the high-speed electronics in a hard drive, the mechanical

elements must be designed for optimum performance. So, although a disk may have the electronic capability of EIDE mode 3, it will not achieve high transfer rates unless the internal mechanics of the drive have been appropriately optimised.

The seek time, for example, is an important factor. This is a measure of how fast the hard drive can move its read/write head to the desired location. Rotational

latency is important too: this is the average time which the read/write heads must wait for the target sector on the disk to pass under them. The reduction of seek time and rotational latency (measured in milliseconds) is fundamental when it comes to optimising hard disk drive performance, and in our EIDE tests the Seagate ST51080A was undoubtedly the best performer.

SCSI

Many of SCSI's high-performance features are only relevant in multi-tasking environments and/or those with several devices on the SCSI chain. It is still therefore ideal for servers, but with the advent of Windows 95 its benefits are becoming much more apparent on high-performance desktops. These of course include those running OS/2 and Windows NT.

SCSI is almost exclusively found on systems designed for AV work: its high-performance capabilities are ideal in situations where huge quantities of data must be transferred at high speed. Micropolis is one manufacturer that offers dedicated AV hard drives, which eliminate possible recording and playback glitches by not pausing to thermally recalibrate the unit.

Dedicated AV drives are optimised for this work, and while high performing all-round they are best left for AV storage. An ideal AV environment would feature two SCSI drives: a standard drive to store

the operating system and applications, leaving an AV drive dedicated entirely to sound and video files.

However, SCSI isn't just about high-end. There's also the undeniable connectivity advantage of up to seven or fifteen devices per host adaptor, which may include external peripherals, and some which are first, or even exclusively available, for SCSI; today's largest single hard drives measure 9Gb and are currently SCSI only.

When choosing a SCSI system, decide what data bandwidth your applications require. Most users will be satisfied with 10Mb/s Fast SCSI-2, where peripherals and hosts are available fairly cheaply. Users with several drives, requiring a high bandwidth to avoid bus saturation, should opt for Wide or UltraWide SCSI solutions. The SCSI host we recommend is Adaptec's PCI UltraWide SCSI master, costing £275, although any card from Adaptec is unlikely to disappoint.

Cheaper ISA cards are available but make sure the one you choose is capable of booting a hard drive, if this is what you want to do.

The results clearly show very little difference between the drives tested, indicating that one 2Gb SCSI drive performs very much like another when operating without other bus traffic, and within the bus limitations. At the top of the results, sustained data transfers were measured at just over 7Mb/s. A Fast SCSI-2 host could support this and, say, a fast CD-ROM drive without saturation. Heavy use of several drives simultaneously would warrant the larger bandwidth of Wide or Ultra peripherals and hosts.

The hard disk is often the slowest element of a local bus system, making even tiny performance differences worth noting. In this case, Micropolis, with the top three results, is the winning SCSI manufacturer, but the others are extremely close behind.

Overall

Normally in a PCW group test we have a clear winner — a product that stands out on price, performance, and build quality. Somewhat infuriatingly, the hard drives we tested here have very little to tell them apart. The SCSI drives in particular performed virtually identically, leaving a decision down to price.

Despite attempts by some manufacturers to stabilise them, hard drive prices currently depreciate at 9 to 11 percent per quarter, rendering quotes a little out of date. This said, at the beginning of January 1996, most of the 2Gb SCSI drives tested were available for around £550 and the 1Gb

IDE drives for around £150. Shop around and you'll find equivalent drives from the major manufacturers available for virtually the same price.

Then there's the bigger problem of availability, where the market fluctuates violently. With individual users wanting to buy upgrades, along with PC assemblers ordering in quantity, there is currently a shortage of certain drives from certain manufacturers. Which manufacturers are short on which drives changes literally on a weekly basis, bringing your final choice down to which drive is cheapest and available on the day you want to buy. A final point to make

is that hard drives do wear out, so it's worth choosing one with a decent warranty — five years is considered very good.

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Ideal Hardware 0181 286 5000 for IBM and others
Conner 01628 777277
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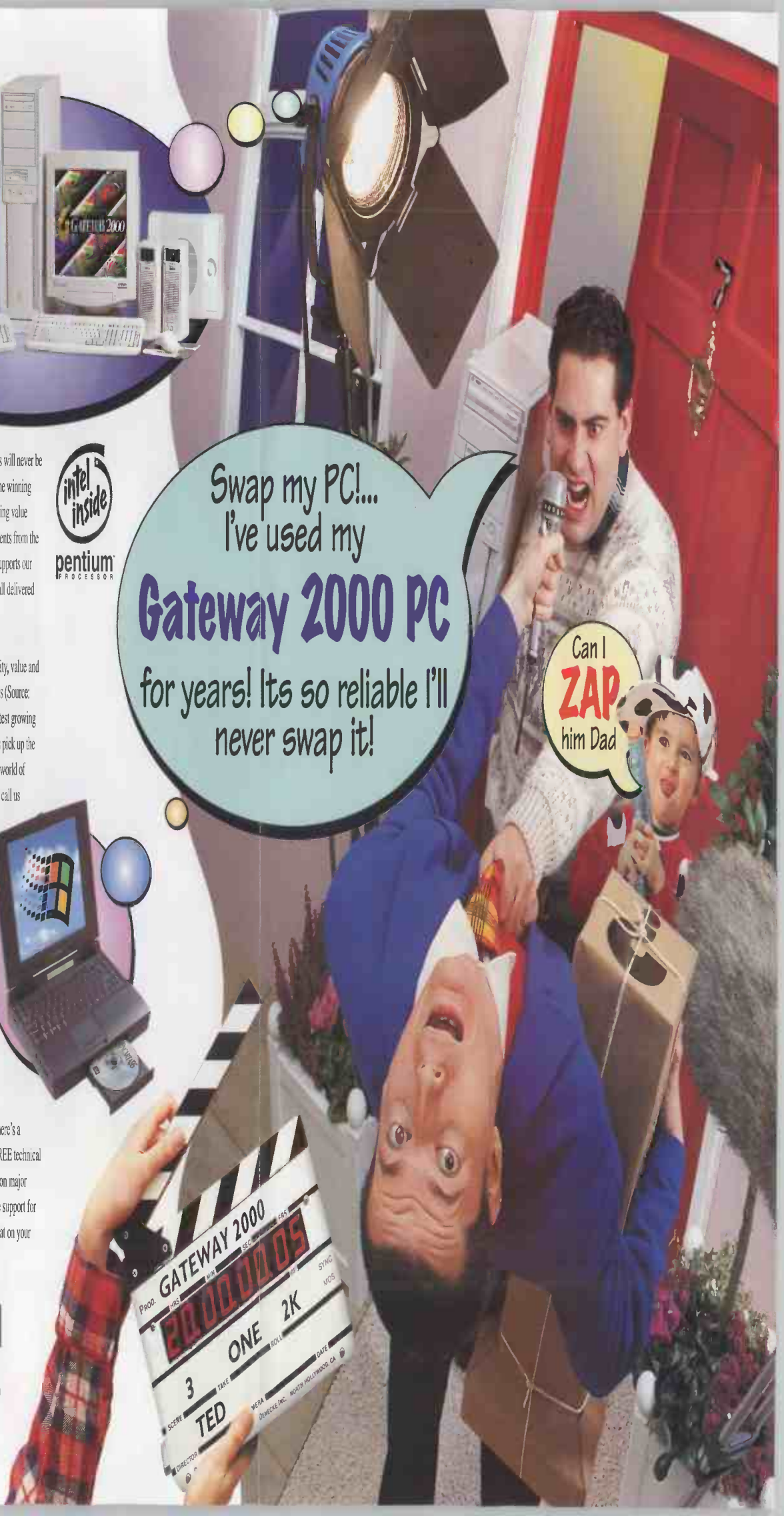


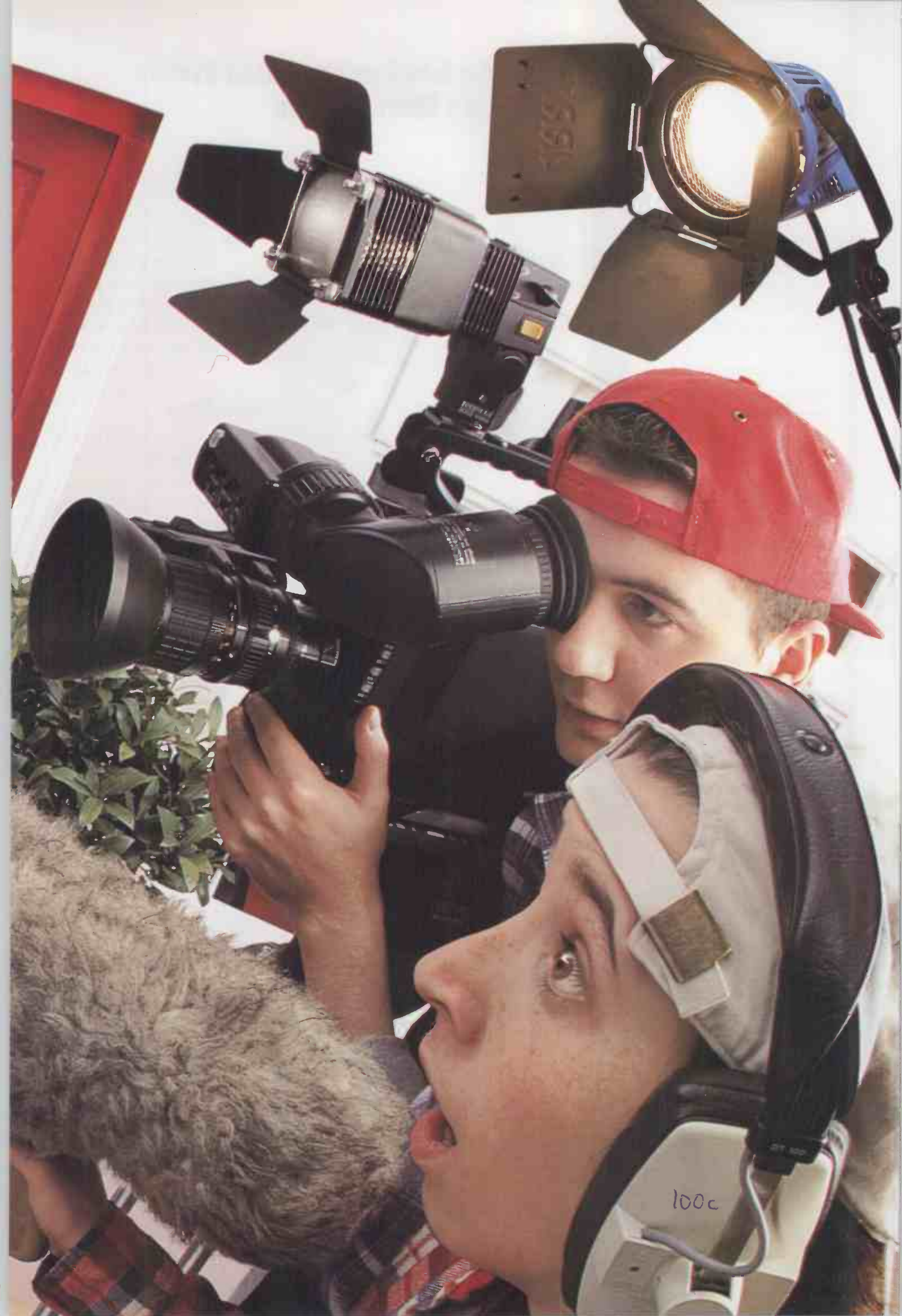
The honeymoon doesn't end there! Because we know there's a whole lot more involved in keeping you happy we offer FREE technical support for the lifetime of the system, three year warranty on major components, next business day on-site service and lifetime support for all Gateway supplied software. You don't get a deal like that on your doorstep every day!



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1006





Gateway's P5-166 Is An Intel Pentium Based System You Wouldn't Want To Swap

Why don't you try the amazing power of our top-of-the-range Pentium® processor based systems for yourself? Just pick up the phone and call for information about these systems. You'll hear about our range of Pentium processor-based systems, including the P5-166 Sovereign and P5-150 Sovereign models, based on Intel's very latest 166MHz and 150MHz processors. You'll also get the low down on the massive 2GB hard drives with PCI-enhanced IDE interface, combined with 16MB EDO RAM and 256KB Pipeline Burst Cache to give you incredible power, speed and memory.

The P5-166 Sovereign and P5-150 Sovereign feature a six-speed EIDE CD-ROM. You get incredible clarity through the 4MB WRAM Matrox

MGA video cards. And the brightest, crispest, richest colours burst onto your screen, enhanced by the Sony® Trinitron™ Tube technology behind every 17-inch Vivitron™ monitor. Add an Ensoniq Wavetable sound card, premium speakers and separate sub-woofer to the mix and these incredible systems sound even better!

What's more, the standard software offering is enough to set you in a spin. You get Microsoft Windows® 95, MS Office Professional® 95 and MS Encarta 96, all as part of the deal with your high-end system. And with our stylish tower cases, your PC's good looks will stun the competition.

Take for example our G6-200 Imperial and Monarch systems, both use Intel's 200MHz Pentium Pro Processor. These are Gateway's top-line PC's. Each packed with 32MB DRAM and configurability that will astound you. Our G6-200's are made to order, combining the top-end processors with Windows NT™ Workstation. The Matrox WRAM Video Cards are standard on our G6-200's, so you get incredible graphic support, and you'll see it all come to life on our Vivitron colour monitor (17" Imperial, 21" Monarch). Connect up to seven SCSI devices with our SCSI interface, expansion has never been so easy. The Gateway G6-200's are power-packed workstations, perfect for CAD applications, intense desktop publishing, graphics and design applications. If you require a PC that's big on features, memory and value, then the G6-200 range is for you.

You also get peace of mind as part of the package; at Gateway 2000 we offer you free lifetime technical support not only on the hardware, but on the software we supply with it too!

**Swap my
Gateway P5-166!**
Never! Don't darken my
doorway again!



intel
inside
pentium
PROCESSOR

Why Not Try The Amazing Gateway 2000 Multimedia Systems For Yourself? Check Them Out Today!



I'm keeping my amazing Gateway 2000 Multimedia system, thank you very much!

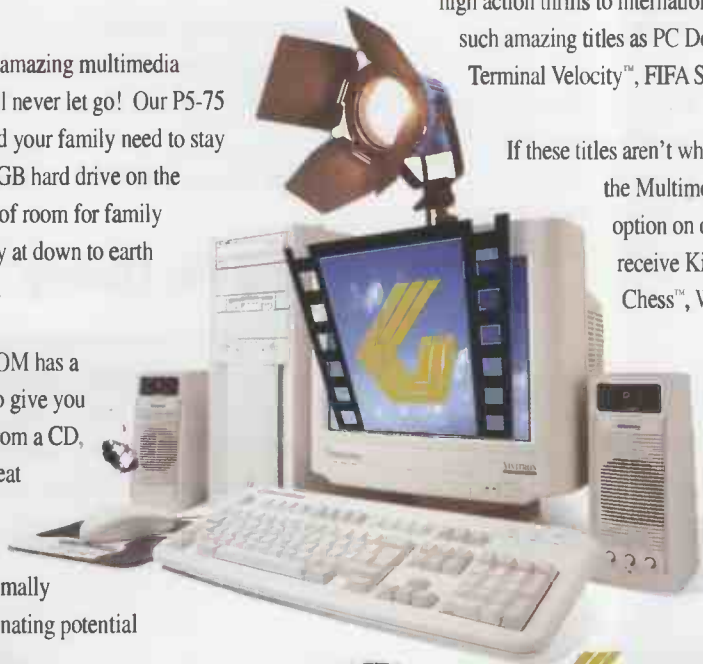
Now shoo!

But there's more! All Gateway 2000 systems are pre-loaded with Microsoft Windows 95. And with our P5-75 Family PC you get the Microsoft Generations Bundle, which includes *all* of the following, Microsoft Works™ 95, Microsoft Publisher, Microsoft Money, Microsoft Cinemania 95, Microsoft Encarta 96, Microsoft Golf and the Microsoft Entertainment Pack. This includes fourteen of the best known and best loved Microsoft® games, as well as Microsoft Bob which gives essential programs for easy, everyday home computing. For the cooks amongst you there's even Microsoft Julia Child, with tips, hints, recipes and a whole lot more.

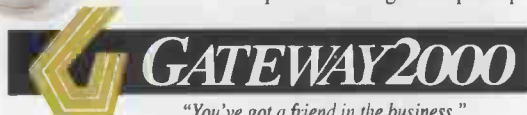
What's truly incredible is that you also get the Games Bundle (available as an option on other systems for £50) with the P5-75 Family PC! Feast your eyes on this list, but a word of warning – don't let your children read this section if you're not sure about buying a system. The Games Bundle has something for everyone, from high speed, high action thrills to international soccer superstardom and includes such amazing titles as PC Descent™, Hi-Octane™, Bioforge™, Terminal Velocity™, FIFA Soccer and SuperKarts™.

Once you get your hands on the amazing multimedia systems from Gateway 2000, you'll never let go! Our P5-75 Family PC™ has everything you and your family need to stay entertained and educated. With a 1GB hard drive on the P5-100 Multimedia, there's plenty of room for family expansion! We offer top technology at down to earth prices on these and all our systems.

The standard quad-speed CD-ROM has a throughput of 600KB per second to give you smooth action, full motion video from a CD, and premium speakers give you great sound quality too! Every system is tested before it leaves the factory, and the software is optimally configured for your machine, eliminating potential installation or set-up errors.



If these titles aren't what you're looking for, you can choose the Multimedia Bundle (also available as an option on other systems for £50). With this you receive Kiyeko and the Lost Night, Battle Chess™, Word Stuff™, Rosetta Stone™ language learning software, World Atlas™ and Magic Carpet™. So whether you want to brush up on your Russian, French, German or Spanish, or take part in an action packed adventure on a magic carpet, this is the package for you! Or why not get both? These prices are too good to pass up.



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1002

Once You Go Solo, You're Never On Your Own Again!

With the Solo™ from Gateway 2000, you can step out whenever you like. This amazing portable gives you everything you'd get with a desktop multimedia system, but in a package that weighs under six pounds! The Solo lets you escape the office without leaving it behind. Packed into its stylish and compact frame are all the features that make this portable think and act like a desktop.

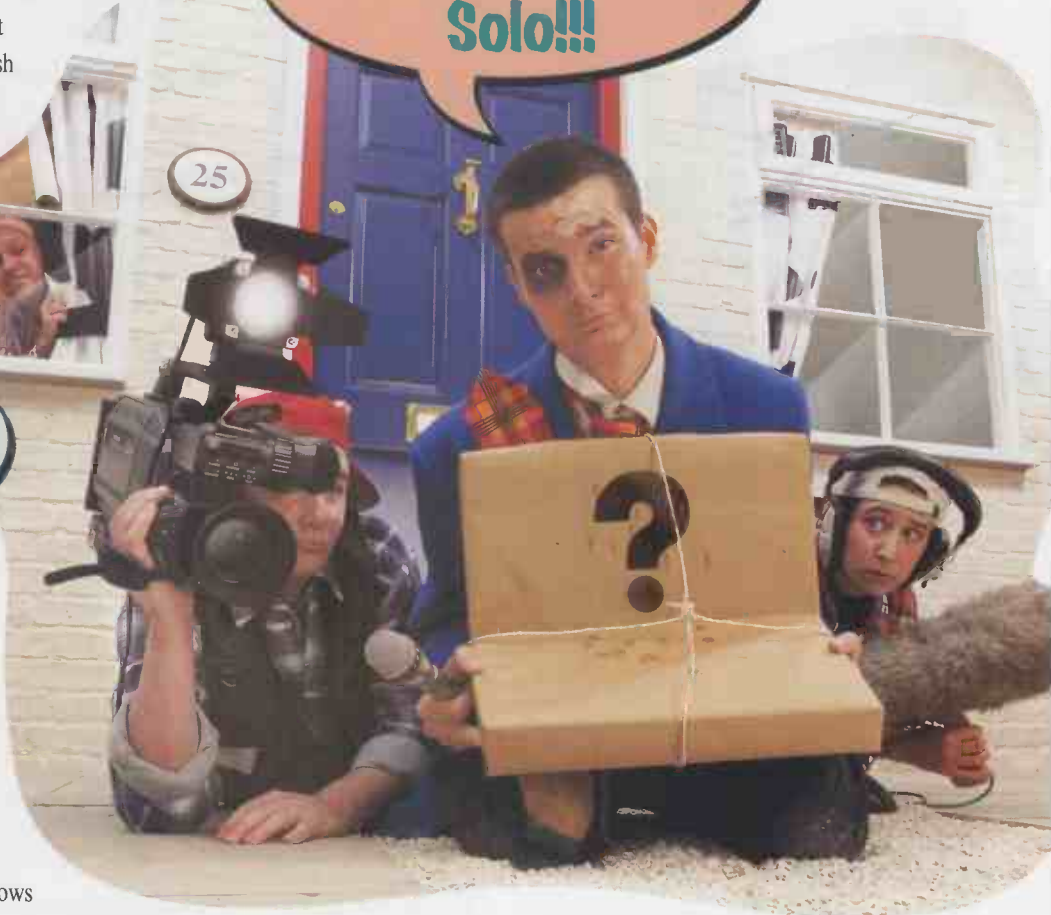
You can choose from either 75MHz or 90MHz Pentium processors and a removable hard drive that will pack up to 1.2GB of portable power. The huge screens, 10.2 inch VGA screen on the V75 or the 10.4inch SVGA on the S90, combined with 1MB Video RAM give you sharp, clear images whatever your location. The Solo comes with Windows 95 and Microsoft Office Professional 95 and, as the world's first portable with a keyboard specially designed for Windows 95, its short cut keys make your life even easier, while the EZ Pad™ Pointing Device is a dream to use.

With the large screen, modular CD-ROM drive (interchangeable with the 3.5" floppy drive), integrated 16-bit sound card and built-in stereo speakers your presentations will have never looked so good. You can listen to music while you work, or, dare we say it, run your favourite games! The Solo lets you travel the Internet, send and receive e-mail,

Please, please try my portable... it's almost as amazing as Gateway's Solo!!!

NO!

25

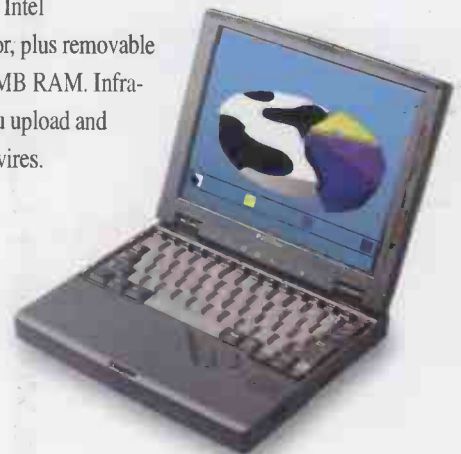


transfer data using infra-red technology and connect to external kit such as keyboard, mouse and monitor, should you wish to. The Lithium-Ion batteries give you hours of computing power on the move.

- The Gateway 2000 Solo - more computing, more places.

...And The Liberty™ Will Set You Free

The Liberty is the most portable of portables, weighing in at only 4.2-pounds, and smaller than an A4 sheet. It has a 10.4-inch dual scan STN colour display and Intel 100 MHz DX4 processor, plus removable hard drive and up to 24MB RAM. Infra-red connectivity lets you upload and download without any wires.



A Gateway 2000 PC Is Not Just For Christmas, Our Service & Support Last The Lifetime Of Your System

Here at Gateway 2000 we pride ourselves on being your friend in the business, and like a true friend we'll always keep the door open for you. We give you free lifetime Technical Support on all Gateway 2000 hardware and supplied software, so if you ever have any problems or queries, please call us on our freephone numbers – it won't cost you a penny. Our technicians have been trained to answer questions and provide solutions over the phone, and we promise to help you with every problem, large or small. You may call at any time, from 8am to 10pm Monday to Saturday.

All major components in Gateway 2000 Desktop and Tower PCs are backed for a full three years, and portables have a one year back-to-base warranty. We're working really hard with our service partners, ICL Sorbus, to bring you the highest possible level of service. During the first year, if there's a problem we cannot solve over the phone, and our technicians determine that you need an on-site service, we can send an engineer to your location, and can let you know the date and time when you can expect their visit to the nearest four hours.



For further information on extended service warranties please contact our Customer Service department, who can also assist you with any queries you may have during the course of your order.

We also offer a choice of methods of payment so you can pick the one that best suits your circumstances. If for any reason you're dissatisfied with your Gateway 2000 system you can return it within thirty days for our no-quibble money back guarantee. We refund you the entire amount you paid less the shipping charge.

We want you to be entirely happy with your Gateway 2000 system and the service you receive from us. Remember, when we say you've got a friend in the business, we mean it!



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Unbeatable Prices

P5-75 BEST BUY

- Intel® 75MHz Pentium® Processor*
- 8MB RAM
- 3.5" Diskette Drive
- Quad-Speed CD-ROM
- 850MB 11ms IDE Hard Drive with PCI Enhanced IDE interface
- PCI Local Bus Graphics with 1MB
- 14" CrystalScan® Colour Monitor†
- Desktop Case
- Windows 95 105 Key Keyboard & MS Mouse
- Microsoft® Windows® 95
- MS Works™ 95

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P5-100

- Intel 100MHz Pentium Processor*
- 8MB EDO RAM
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- Quad-Speed CD-ROM
- 1GB 9ms IDE Hard Drive with PCI Enhanced IDE Interface
- PCI Local Bus Graphics with 1MB
- 15" Vivitron™ Colour Monitor†
- Desktop Case
- Windows 95 105 Key Keyboard & MS Mouse
- MS Windows 95
- MS Office™ Professional 95

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P5-133

- Intel 133MHz Pentium Processor*
- 16MB EDO RAM
- 256KB Pipeline Burst Cache
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- Quad-Speed CD-ROM
- 1GB 9ms IDE Hard Drive with PCI Enhanced IDE Interface
- PCI Local Bus Graphics, 2MB DRAM
- 15" Vivitron Colour Monitor†
- Desktop Case
- Windows 95 105 Key Keyboard & MS Mouse
- MS Windows 95
- MS Office Professional 95

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P5-166

- Intel 166MHz Pentium Processor*
- 16MB EDO RAM
- 256KB Pipeline Burst Cache
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- Quad-Speed CD-ROM
- 1.6GB 9ms IDE Hard Drive with PCI Enhanced IDE Interface
- PCI Local Bus Graphics, 2MB DRAM
- 15" Vivitron Colour Monitor†
- Tower Case
- Windows 95 105 Key Keyboard & MS Mouse
- MS Windows 95
- MS Office Professional 95

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P5-150 • £1799

P5-75 FAMILY PC™

- Intel 75MHz Pentium Processor*
- 8MB RAM
- 3.5" Diskette Drive
- Quad-Speed CD-ROM
- 850MB 11ms IDE Hard Drive with PCI Enhanced IDE Interface
- PCI Local Bus Graphics with 1MB
- Creative Labs Vibra Sound Card & Altec Lansing ACS40 Speakers
- 14" CrystalScan Colour Monitor†
- Desktop Case
- Windows 95 105 Key Keyboard & MS Mouse
- MS Windows 95
- MS Generations Software Bundle
- Games Bundle
- Superscape Virtual Reality Software
- MS Encarta '96

£1199

P5-100 MULTIMEDIA

- Intel 100MHz Pentium Processor*
- 16MB EDO RAM
- 3.5" Diskette Drive
- Quad-Speed CD-ROM
- 1GB 9ms IDE Hard Drive with PCI Enhanced IDE Interface
- PCI Local Bus Graphics, 2MB DRAM
- Ensoniq Wavetable Sound Card & Premium Speakers
- 15" Vivitron Colour Monitor†
- Desktop Case
- Windows 95 105 Key Keyboard & MS Mouse
- MS Windows 95
- MS Office Professional 95
- MS Encarta '96

£1699

P5-133 ELITE

- Intel 133MHz Pentium Processor
- 16MB EDO RAM
- 256KB Pipeline Burst Cache
- 3.5" Diskette Drive
- Six-speed EIDE CD-ROM
- 1.6GB 9ms IDE Hard Drive with PCI Enhanced IDE Interface
- Matrox MGA Graphics, 4MB WRAM
- Ensoniq Wavetable Sound Card & Premium Speakers
- 17" Vivitron Colour Monitor†
- Tower Case
- Windows 95 AnyKey® Keyboard & MS Mouse
- MS Windows 95
- MS Office Professional 95
- MS Encarta '96

P5-133 • £2199

P5-120 • £2099

P5-166 SOVEREIGN

- Intel 166MHz Pentium Processor
- 16MB EDO RAM
- 256KB Pipeline Burst Cache
- 3.5" Diskette Drive
- Six-speed EIDE CD-ROM
- 2GB 10ms IDE Hard Drive with PCI Enhanced IDE Interface
- Matrox MGA Graphics, 4MB WRAM
- Ensoniq Wavetable Sound Card & Premium Speakers
- 17" Vivitron Colour Monitor†
- Tower Case
- Windows 95 AnyKey Keyboard & MS Mouse
- MS Windows 95
- MS Office Professional 95
- MS Encarta '96

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G6-200 IMPERIAL

- Intel 200MHz Pentium Pro Processor*
- 32MB DRAM
- 256K Internal Cache
- 3.5" Diskette Drive
- Six-speed EIDE CD-ROM
- 2GB 10ms IDE Hard Drive with PCI Enhanced IDE Interface
- Matrox MGA Graphics, 2MB WRAM
- Creative Labs Vibra Sound Card & Altec Lansing ACS40 Speakers
- 17" Vivitron Colour Monitor*
- Tower Case
- Windows 95 105 Keyboard & MS Mouse
- MS Windows NT™ Workstation 3.51
- MS Office Professional 95

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- Intel 200MHz Pentium Pro Processor*
- 32MB DRAM
- 256K Internal Cache
- 3.5" Diskette Drive
- 4X SCSI CD-ROM
- 2GB SCSI 9ms Hard Drive
- Adaptec 2940 PCI SCSI Controller
- Matrox MGA Graphics, 4MB WRAM
- Creative Labs Vibra Sound Card & Altec Lansing ACS40 Speakers
- 21" Vivitron Colour Monitor*
- Tower Case
- Windows 95 105 Keyboard & MS Mouse
- MS Windows NT Workstation 3.51
- MS Office Professional 95

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LIBERTY™ DX4-100

- 1.9kg (4.2 lbs)
- 25.4 x 20.3 x 4.1cms (10 x 8 x 1.6")
- Intel 100MHz 486DX4 Processor
- 8MB RAM
- Infrared Capability
- 720MB Removable IDE Hard Drive
- 10.4" Dual-Scan STN Colour Display
- NiMH Battery & AC Pack
- Instant On
- 2 PCMCIA Type II Slots
- 78-Key Keyboard & Pointer
- Parallel, Serial, VGA & PS/2 Ports
- MS Windows 95
- MS Office Professional 95

DX4-100 • £1899

- 16MB RAM
- 2 NiMH Batteries & AC Pack
- PCMCIA 28.8 Fax Modem
- Carrying Case

DX4-100 GOLD • £2399

GATEWAY SOLO® V90

- 10.2" VGA (640 x 480) Active Matrix Colour Display
- Intel 90MHz Pentium Processor*
- 8MB RAM (expandable to 40MB)
- 720MB Removable Hard Drive
- 256K L2 Pipelined Burst Cache
- 1MB Video RAM
- Lithium-Ion Battery and AC Pack
- 2 PCMCIA Type II Slots
- EZ Pad™ Pointing Device
- Modular CD-ROM Drive & 3.5" Modular Floppy Drive
- Integrated 16-Bit Sound with Stereo Speakers
- Headphones
- 86-Key Keyboard
- Parallel, Serial, Keyboard, Mouse, VGA and PS/2® Ports
- Built-in Mic, Headphone, Line-in Jacks and External Volume Control Dial
- Weight starting at 2.7 kg (5.6lbs.)
- MS Windows 95
- MS Office Professional 95
- Classic Case

£2699

* Industry standard practice is to measure monitors using the CRT size. Actual viewing area can be approx. 1" less.

All Gateway 2000 systems come with award-winning service and support including:
 * 30-day money-back guarantee • Three-year limited parts warranty • One-year warranty with factory service for portables •
 • One-year on-site service on desktop systems • Lifetime Freephone technical support • Extended warranty options available •

PLEASE CALL FOR INFORMATION ON OTHER PROCESSORS AVAILABLE.



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All prices and configurations are subject to change without notice or obligation. All prices are quoted in Sterling and exclude carriage and VAT.

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Uncompromising Accessories

SOFTWARE

All Gateway 2000 systems are preloaded with Windows 95, Microsoft's newest operating system. Software masters are provided on either diskette or CD.

Documentation is also provided (either printed or on CD). Software is tested and optimally configured for your system, eliminating potential installation and set-up errors.

■ Microsoft® Works™ 95 for Windows™

All the tools you need to run a business: word processor, spreadsheet, database and electronic communications.

■ Microsoft Office™ 95

Many of our systems now include Microsoft's Office 95 on CD-ROM as standard. This is the very latest version of one of the leading application software suites.

Microsoft's most popular applications: Word, Excel, PowerPoint and Access.

■ Generations Software Bundle

This Bundle, standard on all Family PCs, is packed with Microsoft titles for all the family. In addition to MS Works 95, MS Golf, MS Publisher and MS Encarta 95, it contains:

MS Cinemania 95, the film buff's dream.

MS Julia Child, an extensive culinary guide, full of recipes and useful hints. MS Music Central, bringing the world of music into your home. MS Bob, a comprehensive, easy-to-use package comprising eight essential programs: Letter Writer, Calendar, Cheque Book, Household Manager, Address Book, EMail, Financial Guide and Geo Safari.

■ Games Bundle

A standard offering on Gateway Family PCs, and available as an option for £50 on other systems. It includes the following exciting options:

FIFA Soccer, the most realistic soccer simulation ever created. PC Descent, set in the mines of the moon, is a game of survival. Players battle against menacing robots and other terrors, trying to escape alive. Hi-Octane puts you in the 21st Century, racing your armour-plated Hov-Car at speeds faster than a Ferrari. Bioforge is set centuries in the future, where you use your skill to stop a madman's interstellar plot. Terminal Velocity is a high-speed 3-D space combat game operating on up to 27 levels. SuperKarts leaves other racing games in the dust with 16 heart-stopping race tracks.

■ Starter Pack

Available as an alternative to the Games Bundle on all Family PCs, this multimedia bundle is also available as an option on all systems for £50:

Kiyeko and the Lost Night, a children's interactive story about the adventures of a young Indian. Battle Chess - Chess with a difference, where characters engage in mortal combat. Word Stuff, an educational adventure for children, designed to improve language skills in English, French and German. Rosetta Stone, total language learning software for beginners and intermediates in English, French, German, Russian and Spanish. World Atlas brings geography to life with 400 detailed maps and interesting facts. Magic Carpet makes you a Wizard, with the power to reunite the world after an international disaster.

■ Superscape Virtual Reality Software

Now a virtual reality software package that works with standard PC hardware. Explore and experience virtual 3-D worlds in real time!

PERIPHERALS

■ Basic Audio Multimedia Kit

Creative Labs 16-bit Sound Blaster sound card. 2 Altec Lansing ACS40 speakers. £70

■ Wavetable Audio Multimedia Kit

Ensoniq Soundscape 16-bit Wavetable sound card with Altec Lansing ACS31 speakers. £170

■ CH Flightstick £29

■ 28.8 Data/Fax Modem £199

■ Network Cards

ISA and PCI Ethernet Cards and ISA Plug n Play Token Ring Cards. Call for details.

■ Vivitron™ Monitor Upgrades

Call for details.

■ Hewlett Packard DeskJet 600 £249

■ Hewlett Packard 660C Printer £299

■ Hewlett Packard LaserJet 5L £399

■ Jumbo 1400 Tape Backup Unit £139

■ 2GB SCSI Bundle

Kit includes 2GB SCSI drive and Adaptec AHA-2940 PCI SCSI Controller. £700

■ SCSI DAT Tape Drive £649

PORTABLE OPTIONS

■ 28.8 PCMCIA Data/fax modem.

■ Memory upgrades.

■ Liberty 720MB removeable hard drive.

■ 3.5" 1.44MB external floppy drive for Liberty.

■ Padded, soft-sided case custom designed for the Liberty.

■ Additional NiMH or Lithium Ion batteries.

Call us for pricing today!



The software, peripherals and upgrades listed here are sold only with the purchase of a Gateway 2000 PC.



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SERVICE

Every Gateway 2000 system comes with excellent after-sales support. Our technical support staff is renowned for being friendly and helpful. When you buy a Gateway 2000 system, you get:

■ 30-day money back guarantee.

■ 3-year limited parts warranty – first year on-site (desktops only).

■ Freephone technical support.

■ On-site service (desktops only).

■ Extended warranty options available.

If our technical support staff determines that an on-site service call is needed, we will send a technician to most locations in the UK at no charge during the warranty period. Please call for more information on our guarantee, warranty and on-site service programmes.

WARRANTY OPTIONS

	1 Year	3 Years
Next Business Day On-Site Repair Service At GW Discretion	Free/Std	£150
Same Day On-Site Repair Service At GW Discretion		£210



We also offer several payment options including advanced payment and major credit cards. We charge your credit card only when your system is despatched. Net 30-day credit terms are also available to qualified commercial customers.



PENTIUM 90MHZ NOTEBOOKS

Time — and processor power — flies when your're in the business of notebooks: from 486DX-4 100MHz to 90MHz Pentium in just a year. Dylan Armbrust checks out what this year's Power User has on their lap.

PCW Notebook Photography by David Whyte

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It has now been a full year since we had our last notebook group test and, wow, have things changed! Last year most of the notebooks we looked at fell into two categories: Entry Level and Power User. The highest spec we had then was a 486DX-4 100MHz CPU with 20Mb RAM. But over one year we find that yesterday's Power User is this year's processor Pee Wee. Not that this is unusual in the computer world, but the leap in power and capability of the more current notebooks stands out almost more than that of PC technology.

This year we decided to take a look at notebooks for this year's breed of Power User. Our specs were simple but, at the time of writing, leaning toward the upper end of the price scale. We asked that the notebook come with an Intel Pentium 90 CPU, TFT screen capable of 800 x 600 resolution (if available), a minimum of 16Mb RAM, an internal CD-ROM module and Windows 95. The size of the hard drive and anything else extra was up to the supplier.

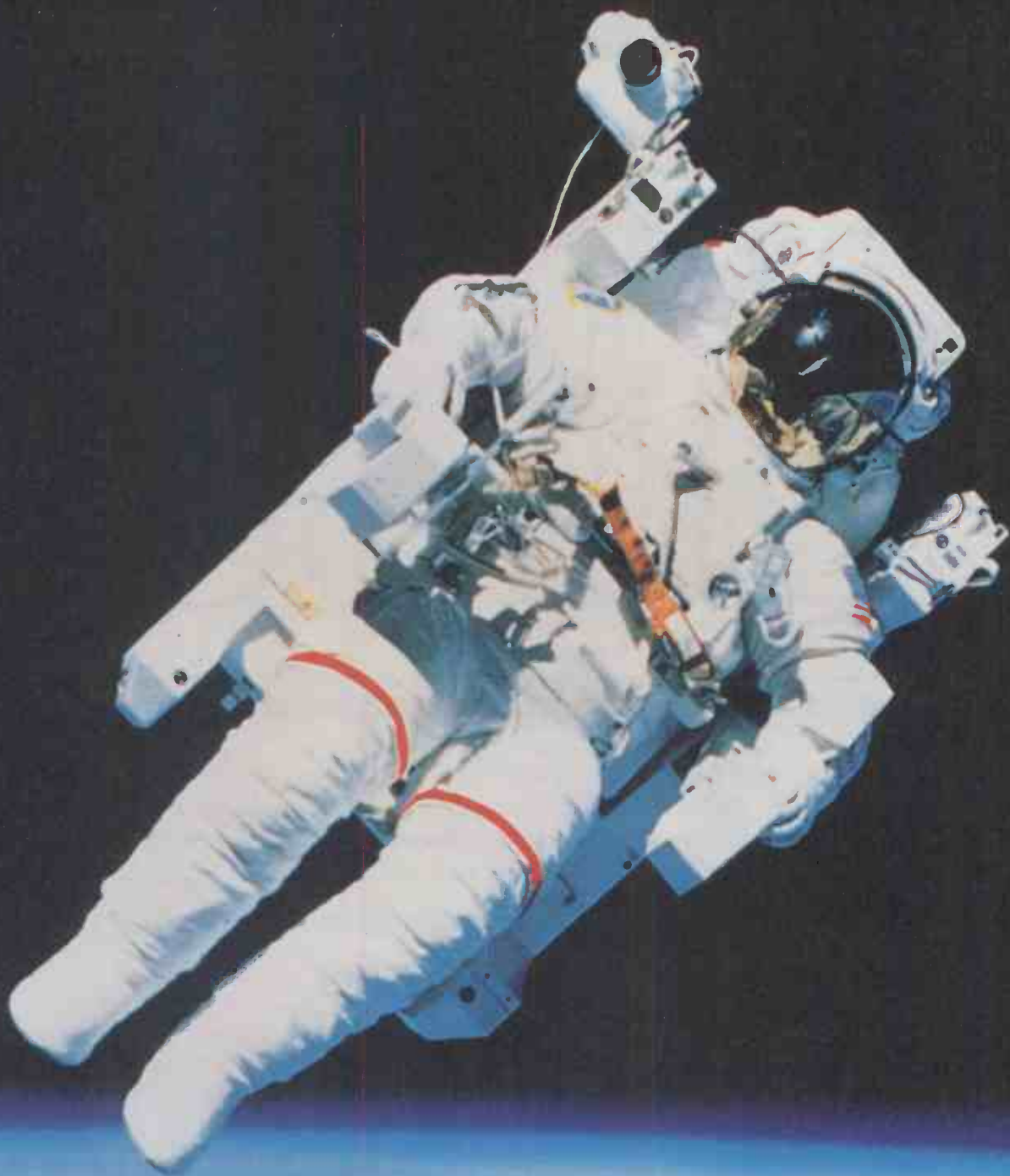
What we received came as quite a surprise. First, not all the Pentium 90-

based notebooks have TFT screens capable of 800 x 600 resolution, but the vast majority do. Second, eighty percent of the notebooks have trackpad pointers, with the remainder using stick

technology. This is a truly remarkable shift in technology considering that roughly 95 percent of the notebooks we reviewed last year, with the exception of the Apple notebook, used a trackball pointer. One vendor even supplied us with a Pentium 100-based notebook so we decided to see how it compares.

The last big shift is the introduction of full multimedia capability and infra-red I/O ports. All the notebooks we review have on-board sound chips, mics and speakers. And in spite of the fact that we specified an internal CD-ROM it was fairly evident that it already was, or soon will be, a standard feature. The same goes for infra-red I/O capability. Not one notebook reviewed last year had infra-red I/O available. Now only the Adams and the Panasonic don't, but not for long as they, too, will shortly be introducing IR-capable notebooks.

We reviewed and tested 15 Power User notebooks to see how they compare. Our focus was on usability, durability and versatility so don't be deceived by outright performance as it's not always the best indicator of value.



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VISION COMPUTER INSURANCE
THE ULTIMATE IN PORTABLE COMPUTER PROTECTION



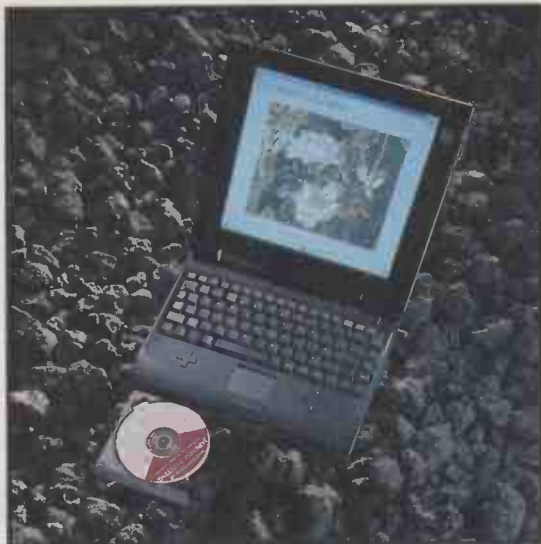
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0990 84 84 84

ACi Amethyst

The ACi Amethyst is not, regrettably, as gem-like as its name alludes to. Its jet black exterior and box-like shape proved to be the most rudimentary of the group, a bit of a disappointment as the last Pentium 90 from ACi we looked at had a bit more style.

Its 11.3in dual scan screen looks impressive when you open the notebook but the display quality soon disappoints. The colour appears washed out and the edges of the monitor fade into white. The keyboard has large keys but the travel action is a bit stiff. A sizeable 3in wrist rest makes typing quite comfortable but the presence of gamepad joystick controls on the rest can be a distraction. Wedged between the game pad sits a responsive trackpad.

Like all our models the Amethyst comes with standard multimedia function. A fixed Teac dual speed (quad speed will be the



standard at the time of press) CD-ROM sits under the left wrist rest. To right of it is the 3.5in FDD that can be swapped for an extra battery to give you extended use. A trio of audio jacks provide for microphone, headphone and speaker use. Or you can stick with the two built-in speakers if you're not fussy about sound quality.

The ACi comes with the expected power management utilities and there's a power suspend button allowing for deliberate power offs, but there's no suspend function if you close the top. The I/O consists of enhanced serial and parallel ports, a PS/2 port for keyboard or mouse, a docking port, and VGA port for an external monitor.

The Amethyst leaves the user with quite an impression... on one's lap. It was one of the largest notebooks in the group with a total weight of 3.5kg and a 30cm x 22.7cm x 5.4cm footprint.

Dylan Armbrust

PCW Details

ACi Amethyst

Price £2467

Contact ACi 0181 830 1958

Good Points Cheap and durable.

Bad Points Poor quality screen and has game pad on the wrist rest.

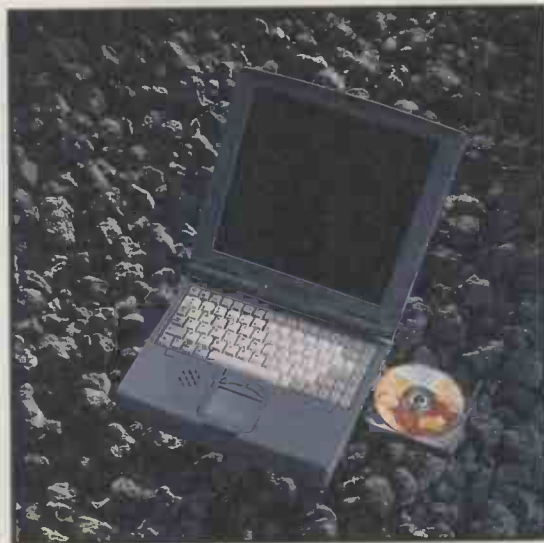
Conclusion Budget-priced model for those users willing to compromise quality for functionality.

Adams Accura Portable Plus

Style is of the essence when you look at the Accura. With charcoal grey colouring, a slightly sand-papery feel and a Pentium 100MHz CPU you can see that Adams wanted a unique and nice-looking machine.

The Accura has an impressive 11.4in TFT screen that comfortably accommodates an 800 x 600 resolution. Power, suspend, and brightness controls all sit just below the screen. Beware when you power up as the internal fan makes quite a racket before it settles down to an overly audible hum. Six multi-coloured LEDs, instead of the expected LCD, display system status such as recharging and HDD access. A 3.5in ergonomically designed wrist rest (the largest in the group test) with a centred trackpad is a nice touch.

The FDD and the Teac quad speed CD-ROM are interchangeable but not hot-swappable. A striking weakness was the



plastic build quality of the FDD. Two Type II PC Card slots are housed in a shallow bay which could prove awkward in crowded situations such as an airplane seat. The HDD is only 543Mb but can easily be upgraded. The I/O consists of the usual single serial, parallel, VGA, and PS/2 port at the back. Headphone, mic and speaker

jacks are positioned on the front and there's also an in-built mic on the notebook, but I'd avoid using it as the noise from the fan overpowers any recording. The Adams was also one of only two machines that didn't have an IR port, but future models are expected to include it.

In terms of performance the Adams didn't fare well, considering it's a Pentium 100. The Doom 2 score was also unexpectedly lower than some of the P90s. One solid plus is that it only weighs 2.9kg (perhaps a result of its thin plastic build) making it one of the lightest in the group.

Dylan Armbrust

PCW Details

Adams Accura Portable Plus

Price £3198

Contact Adams Computers 0161 877 8822

Good Points Ergonomic wrist rest. 11.8in screen. Looks great.

Bad Points Cheap plastic latches. Loud fan. No IR port.

Conclusion A good performer with 100MHz chip at 90MHz price, but overall performance isn't markedly better.

Compaq LTE 5100

There's no awkward edging, nooks or crannies on the Compaq, making it smooth to handle and stylish in appearance. The switches, keys and EasyPoint II pointing device glide effortlessly, though the bevelled right and left click buttons require a firm thumb. Air vents above the keyboard leave no room for a wrist rest below the keyboard, just an inch or so of "palm rest".

Three front-loading sections consist of the MultiBay, the dedicated hard drive bay (with 810Mb HDD) and the main NiMH battery pack. The versatility of the MultiBay means it will support any one of the following at any one time: CD-ROM drive, disk drive, a hard drive or a second battery pack.

The PC Card slot is easily accessible and supports one Type III, two Type I or two Type II cards. All the usual I/O ports are present along with an external options connector for the MultiBay Expansion Base



(docking station) or optional MPEG and TV Video Adaptor. An infra-red port can also be found at the rear.

Although we requested only 16Mb of RAM, the review machine came with 24Mb (which inflated the quoted price as 8Mb is in fact the standard) and you can expand to a maximum 72Mb.

The LTE 5100 has both internal and external audio capabilities and, to round off good design, the two speakers of the 16-bit stereo sound system are located left and right of the display.

It outperformed all the other review notebooks in overall testing but, oddly, it stumbled in the Doom 2 test. This could in part be due to Compaq's use of 1Mb of DRAM for the video whereas a number of its competitors opted for 1 or 2Mb of VRAM. However, for notebooks with such a high spec it's Windows performance that's important and Compaq has optimised the LTE 5100 precisely for this.

Joanna Scott

PCW Details

Compaq LTE 5100

Price £5,330

Contact Compaq 0181 332 3000



Good Points Versatile, good power management utilities and outstanding Windows performance.

Bad Points High price — though less RAM will make it cheaper.

Conclusion An excellent all-rounder for the smooth operator.

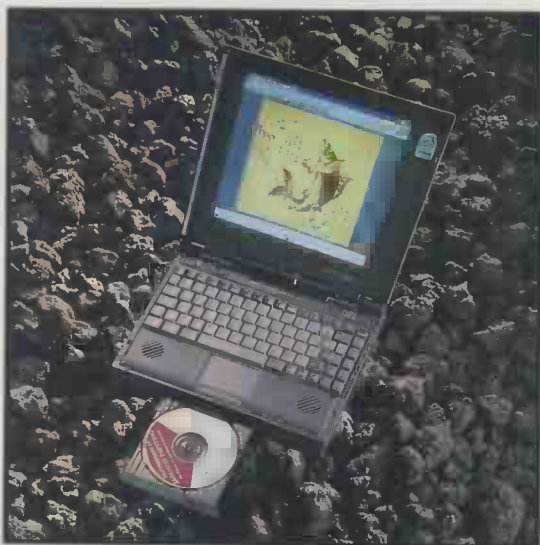
DFI Explorer

The Explorer, at £2695, was one the cheaper notebooks in the group test. It was also one of the fastest, coming in sixth in overall results.

Externally there's very little difference between the DFI, the Evesham and the Twinhead. However, the make-up of the internal components are what set it apart. A 540Mb HDD and Teac dual speed CD-ROM sit just below the wrist rest. The CD-ROM swaps easily with the 3.5in FDD but you'll have to power down the notebook beforehand.

There is also the option of running the FDD externally and DFI provides the cables for this. The Explorer's other unique features are the wide power button and light grey coloured trackpad as well as the external moldings of the two speakers.

The 10.4in TFT screen didn't disappoint in its offering of rich colour. This plus was



really noticeable when running the Doom 2 test. In terms of performance the DFI placed well with a score of 31.46fps on Doom 2 and an overall result of 1.34. Much of the good score can be attributed to the presence of 2Mb of VRAM for the graphics as opposed to 1Mb found in some of the other models.

The I/O of the DFI consists of an IR, PS/2, game/MIDI and enhanced serial and parallel ports. It can also accommodate one Type III or two Type II PC Cards and has three sound jacks for a microphone, external speakers and headphones. It also has 16-bit stereo sound capability but you won't appreciate sound quality via the small on-board speakers. The keys on the keyboard are large and fairly quiet but typing on the lower keys is somewhat impeded by the lip of the track pad.

The Explorer comes with the normal BIOS-based power management utilities and is loaded with Windows 95.

Dylan Armbrust

PCW Details

DFI Explorer

Price £2695

Contact DFI 0181 776 5555

Good Points Fairly quick and has 2Mb VRAM.

Bad Points Trackpad impedes typing.

Conclusion It works well and is fairly priced.

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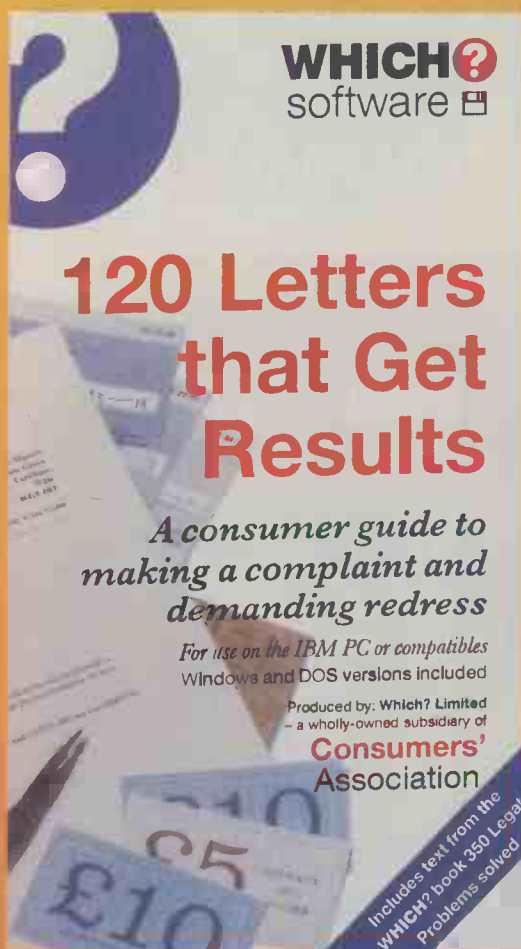
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Elonex Pro 410CDT

Open up the Elonex, take a look at the Fujitsu next to it and you start to get a feeling of *déjà vu*. The Elonex is basically the same machine as the Fujitsu/ICL shorn of its sleek silver grey coating and sculptured buttons. There are also one or two other cosmetic differences on the track pad.

But as our test results show, beauty is more than skin deep as the Elonex comfortably outperformed the Fujitsu which surprisingly came bottom.

However, neither machine could be described as easy on the eye, and the Elonex is even worse in this respect, but taking off the cosmetic (Swedish designed) frills also shaves £500 off the price.

Whatever the looks, the Elonex does have some practical design features. All the drives are easily slotted in and out but the catches to release them proved fiddly to operate and being underneath mean that the machine has to be turned over — not always practical if you are in the



middle of work. Better is the absence of an external transformer: instead, a two-pin plug goes directly into the battery pack.

PC cards are slotted in behind a pop downslide in flap which felt flimsy and could get snapped off. Far better would be the tough sprung flaps that other manufacturers are starting to use.

Multimedia ports include stereo speaker out and mic in. The built-in speakers only give moderate performance. The screen is a standard 10.4in TFT which is respectable enough with an even presentation but no external controls for setting screen brightness.

As a typing machine the Elonex fared below average with large amounts of bounce, lack of feel and a curious bump in the middle of the keyboard giving the whole board a strange feel. However, the track pad was positive and the mouse buttons each side responded well once users had adjusted to their placement.

A mid-price machine bringing average performance and features for your money.

PJ Fisher

PCW Details

Elonex Pro 410CDT

Price £2,710 + VAT

Contact Elonex 0181 452 4444

Good Points Good value, well built.

Bad Points Numb keyboard, flawed port design, tricky catches.

Conclusion Won't get anyone excited.



Enact 5400 Series

It's difficult not to avert one's eyes upon the first look at the Enact as it was one of the most unprepossessing notebooks in the group test. In fact, it also has an ugly sibling in the name of the ACi. This is because they are both badged goods and are very similar to each other.

The black, angular exterior highlights its 30cm x 22.7cm x 5.4cm dimensions and its 3.5kg weight. Compared to the other notebooks in the review this was one of the thickest and heaviest. The I/O, located at the rear, consists of VGA, serial, parallel, and PS/2 ports. On the left side an IR, MIDI/game port and cooling fan reside. Up front are a fixed Teac dual speed CD-ROM and removable floppy disk drive. There's a 540Mb hard disk drive and the RAM can only be expanded to a maximum of 32Mb. No module swapping is necessary. And finally, on the right side, are audio jacks for headphones or



speakers, line-in and mics as well as a PC Card bay that can hold one Type I or two Type II cards.

The 10.4in monitor only supports 640 x 480 resolution and the colour, in spite of it being TFT, appeared a bit washed out, even with adjustment. The keyboard is large and clear but the travel action is a bit stiff.

There's a 3in wrist rest but, like the ACi, its value is diminished by the presence of built-in joystick features. In the centre of the wrist rest lies a pleasantly sensitive trackpad. The Enact also has the expected on-board microphone and speakers in the upper right and left corners of the base that make use of the 16-bit sound capability. Portable power consists of a NiMH battery with a surprisingly low 30 minute operating time, but you can purchase a rather large and heavy external battery attachment to give you three hours of use, if you feel up to lugging it about.

Dylan Armbrust

PCW Details

Enact 5400 Series

Price £2599

Contact Enact 01952 428888

Good Points No swapping modules.

Bad Points Screen quality a bit washed out. Heavy.

Conclusion A durable budget model suited for duty in a loan pool.

Evesham Voyager II

With a name like Voyager II one would expect this machine to stand out and be unique. Unfortunately, this isn't the case. What we have here is a badged notebook that is an identical twin to the Twinhead and a close cousin to the DFI. But they come from a good family so there's not much to worry about.

The Evesham's charcoal grey hue and semi-stylish molding is somewhat marred by the poor label. It looks like someone used a craft knife around the edges before they mounted it. But this is the only distracting external feature we could find. Otherwise, the Voyager II has the usual complement of I/O ports expected in a notebook of this level.

Like its twin, it comes with a flush PC Card bay that holds one Type I or two Type II cards, a 10.4in TFT screen, and a



Li ion battery. Also present is the same keyboard and trackpad, as well as the same spacebar impediment. But this is where the similarity stops. Our model had a Panasonic quad speed CD-ROM instead of a dual speed and a 528Mb hard drive. Our review model came with 16Mb of RAM but it

is expandable up to 64Mb.

The Evesham's performance was more than respectable as it placed fourth in the pack. Oddly, this was slightly better than its "relations" but only marginally. Similarity is also the case when you look at the Doom 2 benchmarks where it had an identical score to the Twinhead.

The Evesham is retailing for £2677 which is fairly low in relation to the other notebooks in the group. It comes loaded with all relevant drivers, Windows 95, MPEG player and communications software.

Dylan Armbrust

PCW Details

Evesham Voyager II

Price £2677

Contact Evesham Micros 01386 765500

Good Points Quad speed CD-ROM.

Bad Points Identical to the DFI and Twinhead. Trackpad impedes space bar.

Conclusion Solid, durable but not unique.

Fujitsu ICL Ergolite 590CD

As we know, the Ergolite 590CD shares casing and components with the cheaper Elonex model in the group. But for your extra £600 you get some Swedish design twirls and a smart silver grey finish which certainly makes it distinctive among our group. Despite this, the ICL doesn't cut the mustard as a piece of modern design. Too much of it is design for its own sake and not for practical ergonomic reasons. The Elonex works just as well without the frills. (Ironically, the entry level 486 Ergolite is a much more pleasing machine visually.)

Like its cousin the Fujitsu performs well in areas such as screen technology with a crisp, bright image, and the trackpad worked smoothly although the mouse buttons seemed stiff, requiring a firm push to activate windows.

The keyboard was disappointing, revealing far more bounce than the Elonex (which suggests variances in quality control) and threatening tired wrists when inputting heavy data or text.



Modules slotted in and out with ease but unlike the Elonex you were less likely to lose your fingernails on the locks which again suggests variable quality control.

The Fujitsu does score with a number of software utilities designed to make life on the road easier. Most of these are designed around ICL's TeamOffice and include remote access, Internet and email programs. You also get some bundled CD-ROM software pre-installed including Encarta and

a DOS-based game, Lost Eden.

Fujitsu would probably argue that all this bundled software justifies the extra price. Maybe; but many buyers would rather spend their cash on extra RAM or hardware specification.

This is a machine which is certainly competent and will gain a number of buyers, but it will hardly establish Fujitsu ICL in the front rank of notebook suppliers. It does nothing badly but it in the end it is too expensive for what it offers and fell down badly in our performance tests.

If you're spending your own money on a notebook you tend to be a lot more cautious about what you buy. As it stands, the Fujitsu is comfortably outdistanced either on price or features by others in this group test.

PJ Fisher

PCW Details

Fujitsu ICL Ergolite 590CD

Price £3295 +VAT

Contact Fujitsu 01344 472000

Good Points Crisp screen, attractive casing, good range of software.

Bad Points Pricing, keyboard, performance.

Conclusion Competent. If you were given one of these you wouldn't complain.

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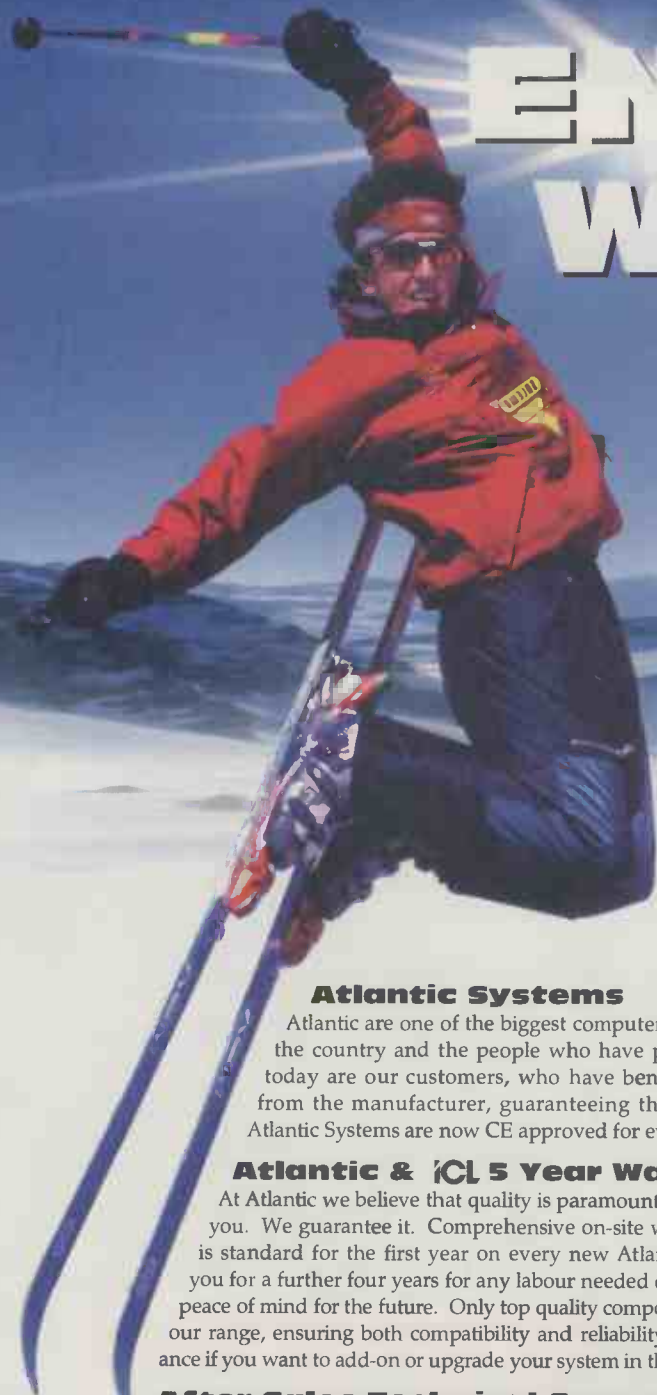
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Gateway Solo V90

One look at the Gateway Solo and you know it's a nice machine. Even though it was a pre-production model, it proved itself worthy of praise.

Gateway appears to have put some thought into the design of the Solo. With a 2in profile its size is marginally larger than a sheet of A4, and a weight of 2.9kg made it one of the most compact in the group. In terms of I/O it comes with all the expected serial, parallel, audio, VGA, PS/2, and IR ports, plus there are two Type II PC Card slots and a docking port connection.

Once open you find a clear, easy-to-use keyboard with sensitive travel action. A full 3.5in wrist rest with an off centre EZ Pad complete the ergonomic circle. The Solo conformed perfectly with our spec. Its 10.2in TFT screen provided rich colour depth and brightness. The dual-speed, front-facing CD-ROM swaps with



the FDD, but they can't be hot-swapped. One of the nice design touches is the integrated speakers on the hinge joint that automatically face you when you open the screen.

All the interchanging modules were easily accessible and simple to change. This was

the same for the RAM. We were accidentally sent 8Mb of RAM and needed to upgrade to 16Mb, so when Gateway sent another 8Mb all it entailed to install was popping open a cover and sliding in the RAM. Yet another nice touch is the direct plug-in on the Li Ion battery to allow fast recharge. Gateway claims that its battery life extends to five hours, the longest of the group, but we didn't have time to challenge this in the test.

The Gateway did not perform well on the Doom2 Test, where it managed a mere 22.8fps, or in the overall results.

Dylan Armbrust

PCW Details

Gateway Solo V90

Price £2699.00

Contact Gateway 2000; 0800 973120

Good Points Nice design touches and compact build.

Bad Points Performance is slow.

Conclusion A budget price but has a quality build and design.

IBM ThinkPad 760CD

Just when Toshiba thought it had created the world's most desirable notebook, IBM went and pooped them with the launch of the 760CD with the biggest TFT screen yet seen on a notebook.

And it is quite a shock when you open the lid on the 760CD for the first time. Turn it on and it's a revelation. With a 12.1in screen running in 800 x 600 you have a machine that could realistically be used for layout and multimedia work as well as double up nicely as a presentation unit for small groups. Microphone and headphone jacks mark this out as a true multimedia machine.

The screen is crystal clear from edge to edge although the cursor still displays a degree of ghosting which is disappointing given the price of this IBM. The screen is easily viewable right down to an angle of approximately 45 degrees, again useful for presentation work.

Build quality and finish is immaculate — no rough edges or poor machining was in evidence. Only a loose volume control



let the side down. Quality is evident inside the machine too where the modular policy that characterises the ThinkPad series continues. I have no problem with lifting the keyboard to access components or switch between drives (an easy task) although others prefer to slide out modules. However, care should always be taken when the keyboard is raised to avoid damage. The keyboard itself defaults to a raised angle which can be easily switched if you prefer a

flat typing position. Two stereo speakers are encased in the keyboard moulding and provide adequate sound for CDs, multimedia etc.

The keyboard is outstanding. It feels like silk; it's beautifully weighted and is even better when in raised position. The wristpad is perhaps a little small but it makes for an extremely compact machine (29.7cm x 21cm x 5.43cm) given the spec. It's also light at only 3.4kg fully laden. The tactile matt black finish looks gorgeous but is prone to marks.

Quad speed drive, 1.3Gb hard disk, two IRDA ports... This is a fabulous machine, but more than £6000 is a lot of anyone's money. If money is no object...

PJ Fisher

PCW Details

IBM ThinkPad 760CD

Price £5745

Contact IBM 0345 727272

Good Points Fantastic build quality, brilliant screen, terrific keyboard

Bad Points Fantastic price.

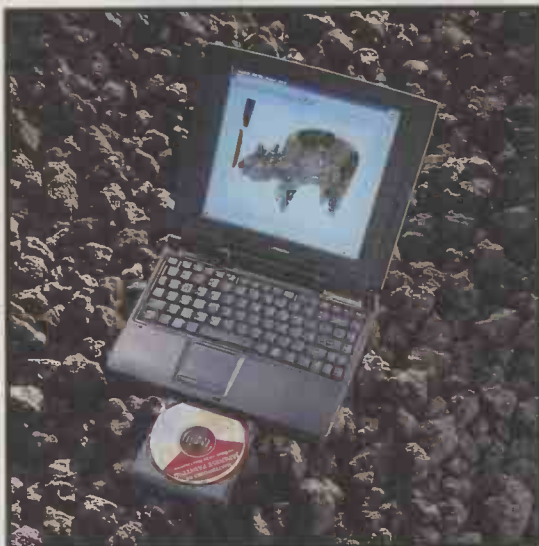
Conclusion If you can afford it, this is probably the finest notebook in the world.

NEC Versa 4050H

This battleship grey notebook stands out in this group test, not only in performance but design too. The NEC came in a respectably high second in both the Doom 2 and the overall test results.

Not only is it fast, but it's also a joy to use. Externally, you'll find that the front loading FDD and dual speed CD-ROM are interchangeable. The Li Ion battery and 720Mb HDD are easily accessed from the bottom of the unit. If you feel like exploring you can remove the hard drive to access and upgrade the RAM. Our model came with a whopping 20Mb of RAM, making it more expensive, but 8Mb is the NEC standard. If you have the urge and cash you can expand the RAM to a maximum 40Mb. The Versa displays one of its more forward-looking aspects with the presence of two IR ports; one on the front and one in the rear.

The I/O at the rear is comprised of your standard serial, parallel, VGA, PS/2 and



proprietary docking ports. On the left side there's a bay for one Type III or two Type II PC Cards. On the right are headphone, speaker and mic jacks with volume control that make use of the NEC's 16-bit sound features, but the Versa also has two speakers mounted on the left and right of the screen.

One of the little extras to be found are the

two foldout legs on the bottom of the unit that help place the keyboard on an angle for more ergonomic typing. The keyboard has large keys and a big, well-placed Return key. There is a recess by the trackpad to ensure that typing is not impeded when using the space bar.

Other features include excellent power management utilities, a 10.4in TFT screen capable of 800 x 600 resolution, and a dedicated sleep button by the power switch. Plus, with proper utilities adjustment, you can get up to five hours of battery life, one of the longest in the group.

Dylan Armbrust

PCW Details

NEC Versa 4050H

Price £4545 (with 20Mb RAM)

Contact NEC 0181 993 8111



Good Points Well built, excellent utilities, and the small touches really make an impact.

Bad Points For something this good, it could do with a bigger screen.

Conclusion An excellent machine that's well worth its price.

Olivetti Echos P90

We got the Echos P90, but what we really wanted to review was the Echos P90s with its 11.8in TFT screen with 800 x 600 resolution. As it wasn't available when we did this group test, we took a look at the next best thing.

The P90 is a jet black, solidly built machine made to take a few knocks and bounces. Our model fulfilled most of the spec except that the 10.4in TFT screen could only support a maximum resolution of 640 x 480. The subsystem consists of a 810Mb HDD and a FDD that can operate externally or can be swapped with the dual speed CD-ROM. The RAM can be upgraded to a maximum of 32Mb.

Unlike most of the notebooks in our review the front of the Olivetti is clear of any drive bays or ports. The CD-ROM or FDD modules and the battery bay (holding a NiMH battery) are located on the right of



the machine. On the left is the PC Card bay with two Type II slots, plus a speaker and mic jack for recording and playback and the access plate for the HDD. The rear holds the usual VGA, PS/2, serial, parallel, docking station and IR ports. One noticeably poor aspect of the Olivetti is the cheap quality of the bay and port cover latches, which fall out

whenever you open one.

The no frills theme also applies to the Echos when you open it up — but don't let looks fool you. It may be plain but the keyboard has large, easy-to-use keys with very quiet travel action and a bevelled trackpad. The 10.4in TFT screen provided some of the best colour contrasts and it was one of the lightest (2.9kg) and smallest (28.6cm x 22.8cm x 49cm) notebooks in the group. This is a solid machine and if the upcoming Echos P90s is anything like it, it will be worth a look.

Dylan Armbrust

PCW Details

Olivetti Echos P90

Price £3499.00

Contact: Olivetti 0181 785 6666

Good Points Well built, very compact and excellent screen colour.

Bad Points Cheap latches. A bit expensive for its class.

Conclusion A quality machine that will last, and a good buy if you're willing to spend a bit extra.

Panasonic CF-41QTA4

At £4499 the Panasonic is the most numerically labelled and overpriced notebook of the group. It doesn't offer anything substantially better than most of the other models and, in fact, is still carrying some old technology.

The 29cm x 23.5cm x 59cm dimensions and 3.6kg weight make it one of the largest notebooks around. The shape is a bit box-like but the build quality is good. On the left side is the PC Card bay that holds the standard two Type II or one Type III cards. The rear of the unit carries a VGA, PS/2, serial, parallel, and docking station port, but IR capability isn't present on this model. There's also the standard line-in, line-out, and microphone jacks as well. A modular FDD is located on the right side of the notebook that swaps with the main battery pack or a FMV (Full Motion Video) module, which wasn't supplied with our review unit.



Upon lifting the display panel two features strike you. There's no wrist rest, which is now the norm, and it has a trackball, the only one in the group. The trackball, which is a bit fiddly, isn't necessarily a bad thing but the technology is a bit old and the trend is now with trackpads. The keyboard is clear, quiet, and easy to use. The 10.4in TFT

display could only support 640 x 480 resolution but the quality was excellent. The double speed CD-ROM can be found under the keyboard, but again the technology and design seem a bit outdated as a caddy is required. This makes accessing, loading and playing the CD-ROM time consuming compared to the standard tray-loading models and can expose the user to the common problem of losing or breaking loose components.

On the up-side, it comes with a 1Gb HDD, can expand to 48Mb of RAM and has a three-year warranty.

Dylan Armbrust

PCW Details

Panasonic CF-41QTA4

Price £4499

Contact Panasonic 0500 404041

Good Points Good display. Three-year warranty.

Bad Points Big and heavy with old technology.

Conclusion Not worth the price. Surely Panasonic can do better?

Toshiba Satellite Pro 410CDT

Toshiba shows no sign of ditching its familiar dull grey exteriors and so it is with the new Satellite Pro 410CDT. The finish may not be as stunning as the ThinkPad but is more likely to survive wear and tear. This was a pre-production model so it is hoped the finish on some of the fittings such as PC Card slot doors will be higher on final units.

The screen size of 11.3 inches is beaten by the IBM but it is a match for the ThinkPad in terms of colour depth and sharpness, and passed the 45 degree angle test. This is a machine that grows on you — you find yourself admiring its solid feel and sculptured looks after a while. It is a smart piece of industrial design.

The palm rest brings to mind the Apple PowerBooks, which pioneered this design, and this is complemented by a pointer that was smoother than the IBM.

The mouse buttons are awkward, making one-handed operation awkward.



They look stylish but take some getting used to. The keyboard was disappointing, at least in this pre-production model, with a considerable degree of bounce and flex, and noisy too. It was quite easy to make mistakes when typing. There was no way of raising the keyboard or machine for a more relaxed typing angle.

The swappable CD and floppy drive are

stored on the right side and engage positively. On the other side is the PC Card slot and serial and mouse ports. An infra-red port is found on the rear.

A nice touch is the built-in mains transformer which adds to the weight (3.4kg fully laden) but it makes for a neater connection to the mains when needed. Only one speaker is included but a jack plug provides sound out.

This is an expensive machine but one that performs well: it should be given serious consideration by high-end buyers. Existing Toshiba owners looking to upgrade will feel at home.

PJ Fisher

PCW Details

Toshiba Satellite Pro 410CDT

Price £4490

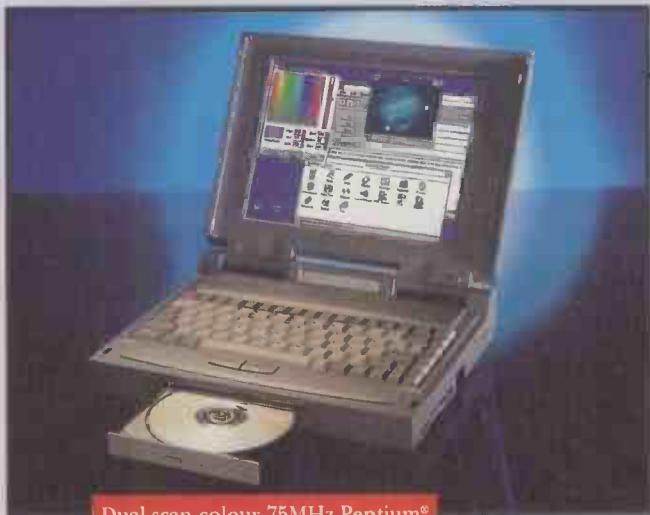
Contact Toshiba 01932 828828

Good Points Clean design, large screen, well made.

Bad Points Bouncy keyboard, tricky mouse buttons.

Conclusion An advanced machine let down by some design quirks.

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Twinhead Slimnote 890TX

One gets an overwhelming sense of *déjà vu* when looking at the Slimnote 890TX. This is due to the fact that it's an exact replica of both the DFI and the Evesham notebooks, except for the colour of a few buttons. In other words, it's just another badged notebook.

But this doesn't have to be a bad thing and not all the internal components are identical. Our review model came with a respectable 810Mb hard drive and a Toshiba dual speed CD-ROM module. The 3.5in floppy disk drive and CD-ROM are interchangeable but you have the option to use the floppy as an external device. This allows you to operate the CD-ROM and floppy simultaneously.

The Slimnote has a TFT screen that supports a resolution of 800 x 600 at 64,000 colours. The depth and richness of colour was excellent and this was reaffirmed when running the Doom2 test.



When looking at an open Slimnote you find that the simple keyboard layout and sizable wrist rest, with a trackpad in the centre, come as a bonus. The keyboard travel action is light and easy but the spacebar is slightly lower than the lip of the trackpad and this can be a bit of an obstacle in intensive typing.

Like that of the DFI and the Evesham, the Slimnote provides for easy module interchangeability and we found no difficulty with this. Its I/O configuration consists of an enhanced serial and parallel port, VGA, PS/2, MIDI, and docking station ports. There's a Lithium Ion rather than a NiMH battery.

Also present was an IrDA compliant infrared port for wireless data transmission. By the time this review goes to press all Twinheads will come loaded with Windows 95 and the usual power management utilities, instead of the Windows 3.11 ours came with.

Dylan Armbrust

PCW Details

Twinhead Slimnote 890TX

Price £3330

Contact Twinhead 01256 56066

Good Points Large keyboard with simple layout.

Bad Points Trackpad design interferes with typing.

Conclusion A solid machine with a good display but a bit expensive compared to its sister clones.

Ten tips for buying and using notebooks

1. "Try before you buy" is the maxim of the day when selecting a notebook. The variety, in terms of design and performance, is astounding.
2. One of the best ways to test a portable's suitability for Windows use is also one of the simplest. Fire up the included Solitaire game and have a go. If you find it hard to move the cards around then it will probably be the same with cutting and pasting blocks of text and so on.
3. Assess your needs carefully. Do you need a faster processor or a better screen? If you mostly do word processing then look for the notebook with the best keyboard and pointing device. If you are dealing with a lot of graphics or making a lot of presentations then screen quality becomes an issue.
4. Ensure you have enough RAM to run your system well. Eight megabytes is good for DOS or Windows 3.11 applications, but 16Mb is ideal for those using Windows 95.
5. Build quality is important. Notebooks assigned to particular individuals for long

periods will generally be treated better than those which pass through many hands. In the latter case, it is important to buy notebooks that will take a real hammering. This is more important in the long term than a better screen or bigger disk.

6. Removable floppy disk drives can allow longer times between recharges if the bay accommodates a second battery. The absence of a floppy can also avoid viruses and games which clog the disk and can mess up the configuration setup. File transfer can be done by the system's administration staff centrally.

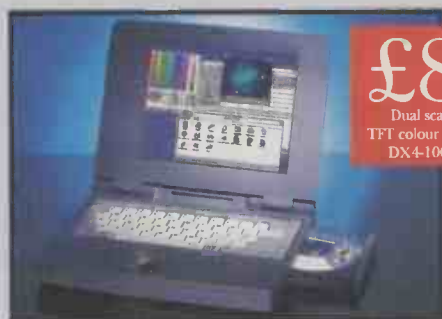
7. Generally speaking, it is best to buy the spec you'll need for the long term at the outset than to upgrade later. With notebooks being so modular, it is tempting to buy a base model and upgrade as funds allow. The drawback is overall cost. Nearly all major components are proprietary and considerably more expensive than their desktop counterparts. RAM prices are one example. You can be expected to pay £100 per megabyte, compared with around £30/Mb for standard SIMMs.

8. Upgrading can prove to be tricky. Sometimes it's easy, sometimes it's not. Many manufacturers insist that their own staff or recognised engineers perform the upgrade. This would, naturally, add expense to the overall cost of the unit and take it out of circulation while it's being worked on. Check with your dealer or the manufacturer to clarify where you would stand.

9. The display becomes very important if the notebook is to be used by large groups of people. The viewing angle is much more restricted with a dual-scan screen than with TFT, which allows more people to see the screen at once.

10. In the early days many batteries could be recharged externally with a separate charger — a spare could be charged up while the main battery was in use and the two later swapped over. The trend today seems to be against this as none of the manufacturers in this group supplied external chargers. For anyone managing a large group of portables, the logistics of keeping everyone supplied with power can become a nightmare. Check with your supplier before you buy.

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As versatile as it's upgradeable, and ideal for multimedia presentations, this notebook has an interchangeable floppy drive and optional CD ROM or second battery pack. With such a variety of options, you decide how fully featured it should be.

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The 4023 DX2-66 Notebook

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£699

Dual scan colour £999
 DX4-100 option + £30



All machines come with free DOS and Windows, power adaptor, technical support, 12 months' return-to-base warranty and free carry case. On-site warranty £49. Delivery £15.

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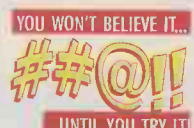
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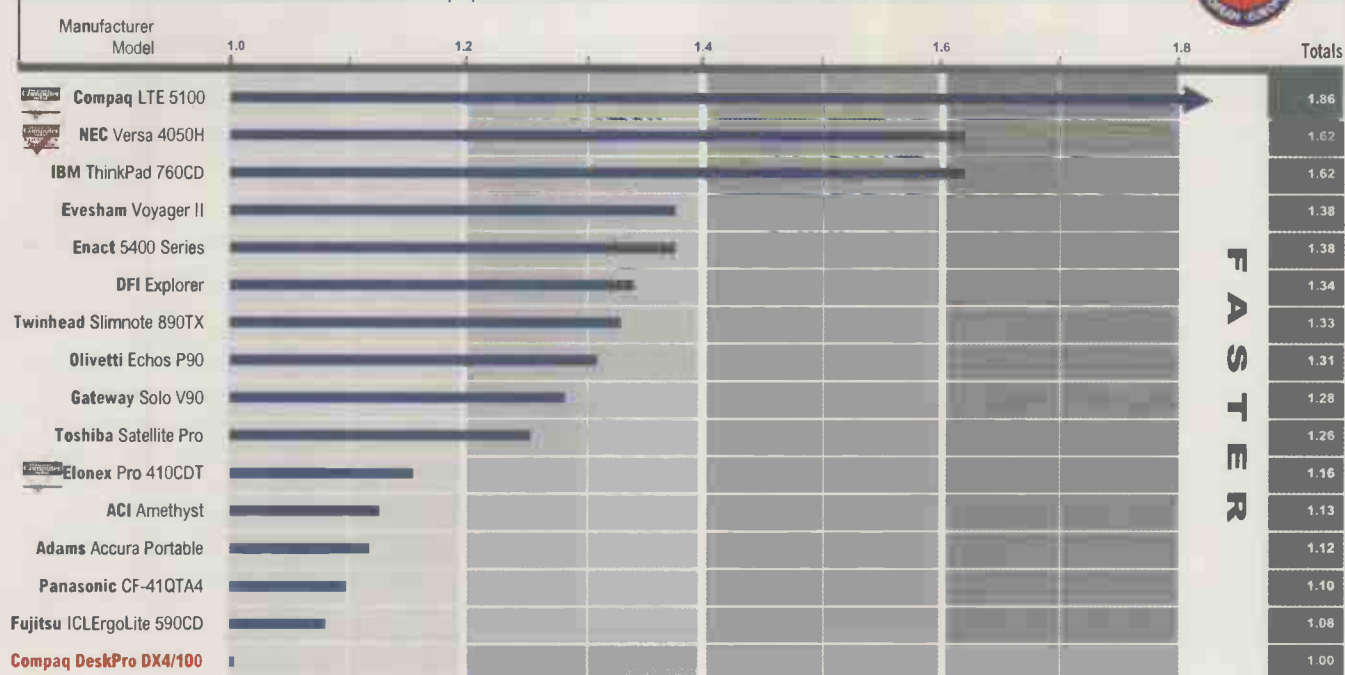


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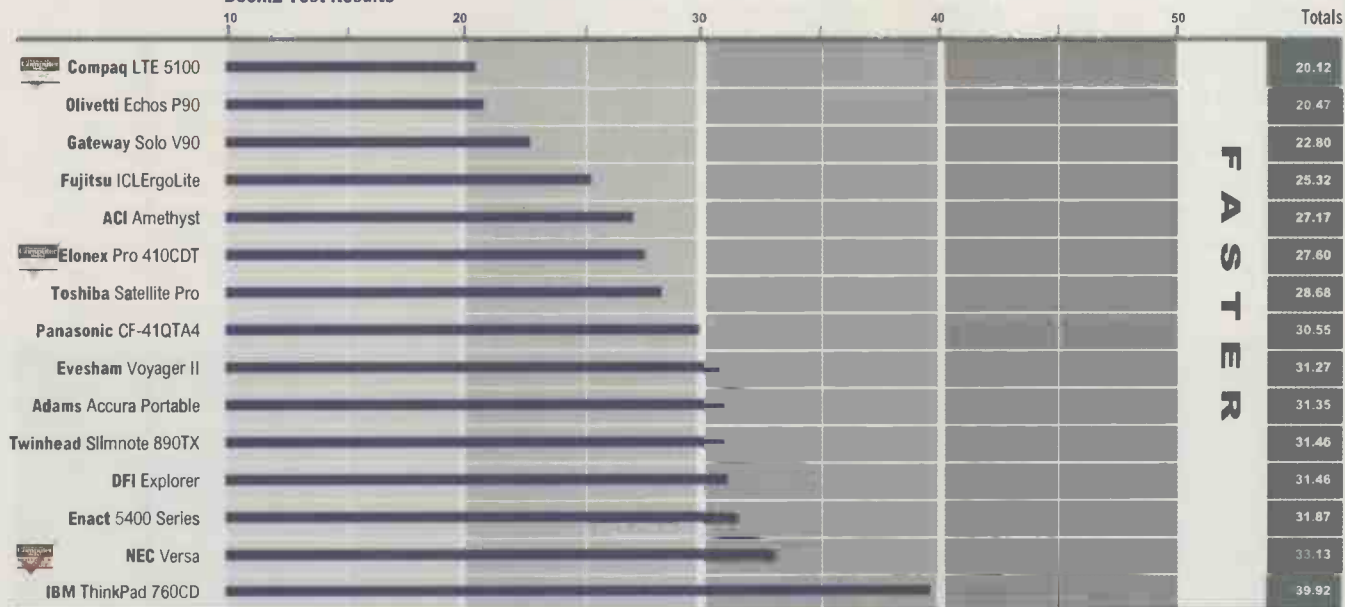
Performance Results

Relative Performance to Compaq DeskPro DX4/100



FASTER

Doom2 Test Results



FASTER

Editor's Choice

Change was the watchword for this year's notebook group test, particularly for the Power User. The standard presence of high-quality TFT screens, quad speed CD-ROM modules, infra-red ports, trackpads and fast CPUs in this category are an indication, going by last year's round-up, of what will be the norm next year.

One thing that was more noticeable in this time was the number of near identical machines, such as the ACI and the Enact. These were only physically differentiated, in some cases, by the label on the cover but their performance and price were what set them apart. This fact, however, didn't sway our judgement in selecting our Editor's Choice.

We looked at build quality, performance and

extras, like enhanced power management software and external design. Price was less of a consideration as we knew our minimum spec, particularly the TFT screen and 16Mb RAM, would automatically place the notebooks into a higher, more corporate, cost category. There isn't an all-in-one notebook that combines all of the most ideal features, but our choice comes close.

Editor's Choice is the NEC Versa 4050H. It's an impressive notebook designed with portability in mind. Its dimensions are small and it's lightweight. The TFT screen gave rich, resilient colour that allowed for viewing from wide angles. Module swapping was carefree and the keyboard was a joy to use. The overall shape combines with little extras, like fold-out feet that place the keyboard on an angle for easier typing, and an

excellent bundle of power management utilities that go well beyond the standard BIOS-based systems. Add to this the versatility of two infra-red ports and its speedy performance and you have an excellent, but rather expensive, notebook.

Two other notebooks that impressed us, and thus come Highly Commended, are the Compaq LTE 5100 and the Elonex NB-590/I. The Compaq was chosen for its solid build quality, strong warranty, and its superior Windows 95 configuration which contributed to its topping the overall performance list. And finally, we chose the Elonex because it combined durability and excellent design, in particular its A/C power and battery swapping modules, with an affordable price tag when compared to its twin, the Fujitsu Ergo Pro.

Notebook (TCP) Chip Technology

The design technology behind a chip is now becoming almost as important as the speed and power of the chip itself. This is especially the case with the ever increasing use of portable computers and the simultaneous demand that they become smaller, lighter, and more energy efficient. The new breed of Intel processors now being produced appear to be addressing these needs.

In the past notebook computers faced the dilemma of a) quickly running out of power while operating on the battery, b) squeezing a large chip into a compact space, and c) preventing the CPU from overheating. At most, a notebook would run on battery power for an hour or slightly more, due to the fact that desktop and notebook PCs used the same type of chip. So, a notebook faced the same level of power consumption as a desktop did. The advent of better battery technology [see page XXX] and power management utility software combined to give longer run time while on the move, but still not enough to make portable use practical.

Also, the size of the chip and the amount of heat emitted had to be tackled. The older ceramic-encased Pentiums, such as the P60 and the P66, and the 486 line did not accommodate themselves ideally for portable use as they consumed an average of 13-16 Watts. Fans,

combined with heat sinks, were used to keep the chip from overheating. This in turn consumed power and the vicious cycle of short battery life was continued.

However, there is new line of Intel chips specifically designed for notebook use. Tape Carrier Packaging (TCP) is Intel's newest chip design for portable computers. TCP involves a unique process of placing a thin protective plastic coating directly on the silicon, instead of encasing it in ceramic and plastic. This allows for the processor to weigh less than a gram and makes its thickness come to less than 1mm, or about half the thickness of a 5p coin. As a result, the heat generated from the chip is no longer trapped inside an insulating material but, instead, is in direct contact with an array of solder plugs in the motherboard. These plugs draw heat away from the chip to the opposite side of the motherboard where the heat can dissipate, usually into some heat absorbent material, thus eliminating the need for mechanical fans to cool the computer.

Another feature of TCP chips is Intel's System Management Mode (SMM) and SL Technology. These chips only use 2.9 volts internally, as opposed to 3.3v on current and 5v on older chips, to consume an average of 3 to 4 Watts. With the SL Technology, the CPU's clock can be stopped when not in use, putting it into sleep mode where it

consumes less than 1 Watt of power.

Combine this with the SMM's ability to shut down notebook peripherals when not in use and return them to the prior operating state when needed, and you have yourself a very sophisticated chip. Now all of Intel's chips, starting from the Pentium 75, have the SMM and SL Technology built in and that is why we see the use of non-TCP chips, such as the Pentium 100MHz, being used in notebooks.

The use of TCP is not, regrettably, as widespread as one would think. It's currently taken advantage of only by the larger notebook manufacturers like Compaq, IBM and Toshiba, but the smaller clone vendors, like Adams and Hi-Grade, appear to have bypassed this technology altogether. The primary reason is cost. Robotic equipment is required to install TCP chips on a motherboard and the expense is out of reach for these smaller vendors.

The second reason is flexibility. Currently, only the Pentium 75, 90 and 120MHz chips are available in TCP and clone vendors like to be ahead of the game. That is why one sees the notebooks with Pentium 100 and 133MHz CPUs on the market. This may give the vendors a certain cachet but leaves the notebook prone to "hot bottom" syndrome and higher power consumption because they use ceramic-encased desktop chips. They don't get the maximum efficiency possible because the best technology isn't applied.



Windows 95 testing

The VNU European Labs Windows 95 tests measure performance using a mixture of standard DOS and Windows applications. Although DOS programs are still tested, they have a lower weighting than was used in the old Windows 3.11 test, and DOS figures are now merged into the overall score rather than being presented separately.

Previous lab tests used a normalised test platform that included changes to the swap file and other system settings. To better measure the additional tuning provided by manufacturers (e.g. 32-bit FAT for faster disk performance) our new tests run with very light system reconfiguration: specifically, installation of PostScript printer drivers and disabling the undelete facility in the Recycling bin. As WordPerfect for DOS requires a sizeable amount of conventional memory and EMS, slight adjustments are made to CONFIG.SYS (to remove unnecessary DOS sound card drivers and NOEMS statements) before running it.

The new approach to testing PCs has highlighted greater speed variations across relatively similar hardware platforms. Although the processors in all but one of these machines are identical, and despite all of them running with 16Mb-24Mb of RAM, there is an overall difference of roughly three quarters of a point between the fastest and slowest. We mostly attribute these differences to various classes of display and disk hardware, but note that certain models which are virtually identical gained very different scores owing to poor software configuration. Careless software installation makes a dramatic difference in Windows 95; like a bad apple, one 16-bit driver loaded for a sound card or display adaptor can cripple performance across the entire application suite. Encouragingly, several machines are now using the "full" version of Windows 95 rather than the upgrade, and these seemed to fare better in the tests. On the other side, manufacturers are still putting old 16-bit drivers on their machines for additional

hardware such as trackpads. When you buy any of them, it's clearly still worth going through your configurations and pruning where necessary, Win95 or not.

The Doom2 demo test, although not an official benchmark, is a good indicator of hard disk and graphics performance as no frames in the demo sequence are dropped. The test consists of a short demo lasting about two minutes and it can be run on any computer loaded with Doom 2. To run the test ensure you are running only in DOS, not from a DOS window, and first configure the setup (by running setup.exe) to omit all sound and, once the game has loaded, set the screen size to full (i.e. no ammo/health status bar should be present). Then quit the game and enter the following command:

```
c:\D00M2\doom2 -timedemo demo1
```

After the sequence has run, a final score (of realtics) is divided by a constant (gametics) and multiplied by 35 to give a frames per second (fps) rate. The higher the fps the better.

Julian Hovnis

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The IrDA specification

Linking computers together makes them more powerful. It also ties them to one place. Infra-red communications has the benefit of communication without the ties of a docking station or a network PC Card. In theory, you can plonk your computer on your desk and instantly have access to your network, printer and modem. No wires, no fuss. All this is done by having the computer communicate using what is effectively Morse code: the computer flashes an invisible light at the network which reads it and flashes a response.

Of course, for this to work you need a standard. There is a standard for infra-red TV remote controls to make sure that changing channels doesn't stop the video or open the curtains. To this end Hewlett-Packard, which pioneered the Serial Infra Red standard, organised the Infra-Red Data Association (IrDA) which now has



over 100 members including chip makers, computer manufacturers, and printer manufacturers. This initial specification was launched in March 1994 and has vastly spread in popularity. It works at short range, and being light-based is of course line of sight, with a speed of 115Kbps. Since infra-red LEDs are very cheap and the switching is simple, the cost of adding IrDA to a device is tiny and the power consumption low. Judging by the number of notebook manufacturers including it on their machines, it's a standard which has now taken off. IBM, Compaq, Toshiba and Gateway 2000, to name but a few, have at least one machine with an IrDA port in the range.

Just as the new standards start to become popular, a new standard which allows faster rates of transmission — 1.5Mbps and beyond — is being written for the IrDA specification. This is not quite as damning as it seems

since the new specification allows backwards compatibility to run at the old speed. The first device to support the 1.15Mbps speed is the IBM ThinkPad. This can communicate with IrDA devices at 115Kb and with devices like the Apple Newton and Sharp IQ using older standards at 9600bps. Currently, a number of manufacturers provide machine-to-machine links by using the Tranxit (LapLink-like) software.

A disadvantage of the standard is that there is no security. IrDA relies upon the limited distance and line of sight transmission to stop unwanted snoopers from reading your beam. If you are concerned you can add software encryption. The invisible network is still a little way off, but infra-red printing is alive and well.

We are now seeing more and more infra-red devices. It's a flexible way of linking PCs, notebooks and peripherals and it doesn't add much cost to the equipment and requires little power or board space. It's ideal for pocket computers and works well in an environment where a number of users want to share a printer without installing a network. It's not a universal solution — it doesn't replace the network just yet — but for many people it will be a better bet than a docking station.

Simon Rockman

Battery technology

Notebooks are sexy, wonderful things and can do anything a desktop PC can do. Except, that is, keep on running until the cows come home. As any notebook user knows, the time when your notebook's battery runs out of juice will invariably be one of three situations: just before you had time to save that mega-spreadsheet, just before you're about to make a crucial sales presentation, and just at the moment you realise you left the AC power supply at home.

Although strides have been made in battery technology, concurrent advances made in PC technology such as fast Pentium processors, hard disks measured in gigabytes and ever bigger screens has put greater strains on battery life. PC manufacturers and third party software vendors have helped with better battery management and sleep software but ultimately the real task lies with the battery itself. Unfortunately we are a long way off a super-light, super-life battery but advances are being made with today's battery technology.



Lithium-ion batteries are now being seriously looked at by both notebook and portable phone manufacturers. Environmentally friendly, they do not contain polluting material (such as Cadmium, Mercury, PVC). They are also lightweight with a high-energy density, said to be 1.8 times the current capacity of Nickel Cadmium (NiCad). But perhaps the best advantage of Lithium-ion is that they don't need to be fully discharged before they can be recharged. Stored Lithium-ion batteries also discharge less.

But currently the most popular types of battery to be found in notebooks are still Ni-Cad and Nickel-Metal Hydride (NiMH). NiCad is becoming cheap and its main advantage is voltage stability throughout multiple recharge/discharge operations. But they tend to be bigger and harm the environment if not disposed of properly.

NiMH batteries can hold up to 80 percent more charge than NiCads but take longer to charge and cost much more. And both types must be fully discharged before recharge otherwise their overall life is reduced.

For now it remains a question of swings and roundabouts: if you are going to use your notebook mostly on the road (and why not?) make sure you look at how good its own power management systems are as well as the weight, recharge time and life of its battery system. And save your spreadsheets more often.

PJ Fisher

IT'S NOT IF, IT'S WHEN

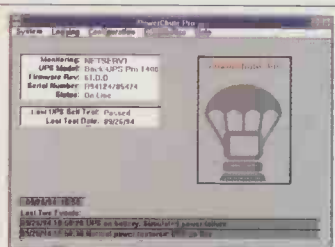
Windows® 95 puts the power of a server on your PC. The new Plug & Play Back-UPS® Pro™ will keep it there...



If you're about to invest in a new multi-tasking operating system like Windows 95, experts say it may be time to invest in APC protection. Why? Because bad power is the largest single cause of data loss, and on a multi-tasking system, your vulnerability is multiplied. When full protection is as affordable as a new mouse, it just doesn't make sense to leave your premium machine unprotected.

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Software exclusively supplied with APC Back-UPS Pro PnP models (ref: BP xxx iPNP). Supports Windows, Windows 95, WinNT, Windows for Workgroups, and OS/2.



Back-UPS Pro Plug & Play comes with the Free PowerChute Pro Software that provides: safe automatic shutdown (whether you are there or not), power event recording for power quality analysis, real time display of UPS status, and certified Windows 95 Plug & Play compatibility for easy installation

Protect against the inevitable power hit with new Back-UPS Pro, the one and only UPS designed for Windows 95. Automatic Voltage Regulation (AVR) provides the edge you need for full protection against extended brownouts or overvoltages without draining the battery, while CellGuard™ intelligent battery management extends battery life with fast recharge and deep discharge protection. The units even include built-in 10Base-T network cable surge protection for a bulletproof response to anything Mother Nature or Murphy's Law may send in your direction.

All in all, you can't make a bad choice when you choose the company that protects more PC's than all other UPS vendors combined: APC.



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Equipment to protect	Advised Back-UPS Pro PnP	Battery runtime	Part #
Desktop PC	Back-UPS Pro PnP 280	14 minutes	BP280i PNP
Multimedia station	Back-UPS Pro PnP 420	9 minutes	BP420i PNP
Multimedia station & peripherals	Back-UPS Pro PnP 650	10 minutes	BP650i PNP

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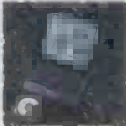




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TABLE OF FEATURES PENTIUM 90MHZ NOTEBOOKS

	ACI	Adams	Compaq	DFI	Elonex
Manufacturer	ACI	Adams	Compaq	DFI	Elonex
Model Name	Amethyst	Accura Portable Plus	LTE 5100	Explorer	Elonex NB-590/I
Company Phone No.	0181 830 1958	0161 877 8822	0181 332 3000	0181 776 5555	0181 452 4444
Company Fax No.	0181 830 1959	0161 877 8684	0181 332 3145	0181 776 5500	0181 452 6422
Price of Machine Being Reviewed	£2467	£3198	£5330	£2695	£2735
SPECIFICATION					
Processor Type and Speed	Pentium 90MHz	Pentium 100MHz	Pentium 90MHz	Pentium 90MHz	Pentium 90MHz
RAM Supplied (Mb)	16	16	24	16	16
RAM Maximum (Mb)	32	32	72	64	40
Level 2 Cache (Kb)	256	256	256	256	256
Hard Disk Supplied	810Mb	540Mb	810Mb	540Mb	520Mb
Floppy Disk (Int/Ext)	Int	Int	Int	Int	Int
PCMCIA Slots Type II/Type III	2 Type II or 1Type III	2 Type I, 2 Type II or 1 Type III	2 Type I, 2 Type II or 1 Type III	2 Type II or 1Type III	2 Type II or 1Type III
Pointer Type	Glide Pad	Trackpad	Easy Point II	Trackpad	Touchpad
CD-ROM Manufacturer	Teac	Teac	Varies	Toshiba	TEAC
CD-ROM Speed	Dual Speed	Quad speed	Dual speed	Dual speed	Double speed
Other/Extra					
16-bit Sound Capability	●	●	●	●	●
CONNECTORS					
Serial Port (Std/Enh)	Enh	Enh	Std	Enh	Standard
Parallel Port (Std/Enh)	Enh	Enh	Enh	Enh	Enhanced
Ext Conns Key/VGA/Mouse	Keyboard, VGA, PS/2, Audio	PS/2, VGA, Audio	PS/2, VGA, Audio	PS/2, VGA, RCA, Audio	PS/2, VGA, Audio
IRDA Option?	●	○	●	●	●
DISPLAY					
Display Type	DSTN	TFT	TFT	TFT	TFT
Screen Size (inches)	11.3	11.8	10.4	10.4	10.4
On-screen Colours @ 640x480	64K	64K	64K	64K	64K
External Mon Colours @ 1024x768	256	65,000	65,000	256	256
POWER SUPPLY					
Battery Technology	Ni MH	Ni MH	Ni MH	Li Ion	Ni MH
Claimed Battery Life (Hours)	1 hour	2 hours	2.5 to 4 hours	2 hours	3.5 hours
Claimed Recharge Time (in use)	2 hours	3 hours	3 hours	2 hours	2 hours
PHYSICAL SIZE					
Dimensions (WxDxH) cm	30 x 22.7 x 5.4	29.8 x 23.8 x 5.2	22.9 x 31x 5.1	29.5 x 22.5 x 5.8	29.7 x 22.8 x 5
Weight with Battery	3.5kg	2.9 kg	3.5kg	3.3kg	2.9kg
SOFTWARE					
Operating System version	Windows 95	Windows 95	Windows 95	Windows 95	Windows 95
Business Applications	Top level Complete Works	None	None	None	KMS Office, Office Professional, Lotus SmartSuitek
Multimedia Titles	None	None	None	None	KMS Works, MS Money, MS Encarta, MS Scenes, Tuneland, Shareware gamesk
Other	Utilities	Utilities	Utilities	Utilities, drivers	Utilities
SALES AND SUPPORT					
Basic Warranty Length (years)	1 year	1 year	3 years	12 year	1 year
On-site Service or					
Back to Base (BTB) available	BTB	BTB	BTB	BTB	BTB
Extended Warranty available	●	○	○	●	○
Sold through Dealers or Direct	Direct	Direct	Dealers	Dealers	Direct
					

KEY ● Yes ○ No
*IRDA (Infra-Red Data Association)

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- 10.4" DualScan or 10.4" SVGA TFT Screen
- Simultaneous LCD / External Monitor Support
- Internal Full Size CD-ROM Drive
- Removable PCI Bus 540 / 810Mb or 1.08Gb HDD
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- 2 x PC Card 2.0 Type II Slots or 1 x Type III
- 16-bit Soundblaster Pro Compatible Sound
- 2 internal Stereo Speakers
- Digital Status LCD Indicator with Graphical Icons
- Keyboard Embedded 2-Button Trackpoint Device
- Infrared Transceiver (IrDA Compliant)
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75MHz DualScan 8Mb / 540Mb	£1,899	75MHz SVGA TFT 8Mb / 540Mb	£2,399
100MHz DualScan 16Mb / 810Mb	£2,399	100MHz SVGA TFT 16Mb / 810Mb	£2,899
120MHz DualScan 16Mb / 1.08Gb	£2,499	120MHz SVGA TFT 16Mb / 1.08Gb	£2,999

OPTIONS

8Mb to 16Mb RAM	£320	75MHz to 100MHz	£150
16Mb to 32Mb RAM	£640	75MHz to 120MHz	£200
540Mb to 810Mb HD	£150	MPEG / VIDEO	£300

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- 2 x PC Card 2.0 Type II Slots or 1 x Type III
- Soundblaster Compatible Sound System
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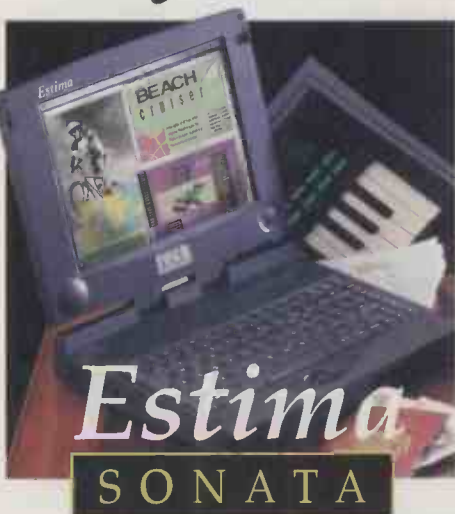
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100MHz DualScan 4Mb / 540Mb	£1,299	100MHz TFT 4Mb / 540Mb	£1,699
100MHz DualScan 8Mb / 540Mb	£1,399	100MHz TFT 8Mb / 540Mb	£1,799

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ROCK
COMPUTERS

TABLE OF FEATURES PENTIUM 90MHZ NOTEBOOKS

	Enact	Evesham	Fujitsu	Gateway	IBM
Manufacturer	Enact	Evesham	Fujitsu	Gateway	IBM
Model Name	Enact 5400 series	Voyager II	Ergolite 590CD	Gateway Solo V90	ThinkPad 760CD
Company Phone No.	01952 428 8888	01386 765500	01344 472000	0800 973 120	0345 727272
Company Fax No.	01952 428 800	01386 765354	01344 473756	00 353 1 848 2022	0345 727 272
Price of Machine Being Reviewed	£2599	£2677	£3295	£2999	£6270
SPECIFICATION					
Processor Type and Speed	Pentium 90MHz	Pentium 90MHz	Pentium 90MHz	Pentium 90MHz	Pentium 90MHz
RAM Supplied (Mb)	16	16	16	16	24
RAM Maximum (Mb)	32	64	40	40	40
Level 2 Cache (Kb)	256	256	256	256	256
Hard Disk Supplied	540Mb	528Mb	520Mb	720Mb	1.2Gb
Floppy Disk (Int/Ext)	Int	Int	Int	Int	Int
PCMCIA Slots Type II/Type III	2 Type II or 1Type III	2 Type II or 1Type III	2 Type II or 1Type III	2 Type II	2 Type I, 2 Type II or 1 Type III
Pointer Type	Glidepoint	Alps Glidepoint	Touch pad	EZ Pad	IBM Trackpoint III
CD-ROM Manufacturer	Teac	Panasonic	Teac	Matsushita	IBM
CD-ROM Speed	Dual speed	Quad speed	Dual speed	Dual speed	Quad speed
Other/Extra	built in game pad				28.8bps modem, MPEG2
16-bit Sound Capability	Yes	Yes	Yes	Yes	Yes
CONNECTORS					
Serial Port (Std/Enh)	Enh	Enh	Enh	Enh	Std
Parallel Port (Std/Enh)	Enh	Enh	Enh	Enh	Enh
Ext Conns Key/VGA/Mouse	PS/2, VGA, Audio, MIDI	PS/2, VGA, Audio, RCA, MIDI	VGA, PS/2, Audio	PS/2, VGA, Audio	Ext FDD, VGA, Telephone, PS/2
IRDA Option?	Yes	Yes	Yes	Yes	Yes
DISPLAY					
Display Type	TFT	TFT	TFT	TFT	TFT
Screen Size (inches)	10.4	10.4	10.4	10.2	12.1
On-screen Colours @ 640x480	64K	64K	64K	260K	64k
External Mon Colours @ 1024x768	256	256	256	256	256
POWER SUPPLY					
Battery Technology	Ni MH	Li Ion	Ni MH	Li Ion	Li Ion
Claimed Battery Life (Hours)	30 minutes	2-3 hours	3.5 hours	5 hours	3.1 hours
Claimed Recharge Time (in use)	20 minutes	2 hours	2 hours	Not known yet	2-3 hours
PHYSICAL SIZE					
Dimensions (WxDxH) cm	30 x 22.7 x 5.4	29.5 x 22.5 x 5.8	29.7 x 22.8 x 5.0	30 x 22.4 x 5.1	29.7 x 21 x 5.43
Weight with Battery	3.5kg	3.3kg	3.15kg	2.9kg	3.4kg
SOFTWARE					
Operating System version	Dealer dependent	Windows 95	Windows 95	Windows 95	Win 95, Win 3.11, OS/2 Warp
Business Applications	None	None	MS Works/Road Office	Office Professional 95	World Beat and others
Multimedia Titles	None	None	Astound, Lost Eden	None	None
Other	Utilities	Drivers, Sound, MPEG	Utilities	Utilities	Utilities
SALES AND SUPPORT					
Basic Warranty Length (years)	1 year	1 year	3 years	1 year	3 years
On-site Service or	BTB	BTB	BTB	BTB	BTB
Back to Base (BTB) available					
Extended Warranty available	No	Yes	No	No	Yes
Sold through Dealers or Direct	Dealers	Direct	Dealers	Direct	Dealers and Direct
					

KEY ● Yes ○ No

*IRDA (Infra-Red Data Association)

TABLE OF FEATURES PENTIUM 90MHZ

	NEC	Olivetti	Panasonic	Toshiba	Twinhead
Manufacturer	NEC	Olivetti	Panasonic	Toshiba	Twinhead
Model Name	Versa 4050H	Echos P90	CF-4LQT44	Satellite Pro 410CDT	Twinhead SlimNote 8
Company Phone No.	0181 993 8111	0181 785 6666	0500 404041	01932 828828	01256 56066
Company Fax No.	0181 235 4930	0181 780 8191	N/A	01932 852455	01256 811142
Price of Machine Being Reviewed	£4545	£3499	£4499	£4490	£3005
SPECIFICATION					
Processor Type and Speed	Pentium 90MHz	Pentium 90MHz	Pentium 90MHz	Pentium 90MHz	Pentium 90MHz
RAM Supplied (Mb)	20	16	16	16	16
RAM Maximum (Mb)	40	40	48	40	64
Level 2 Cache (Kb)	256	256	256	256	256
Hard Disk Supplied	810Mb	810	1Gb	810Mb	810Mb
Floppy Disk (Int/Ext)	Int	Int	Int	Int	Int
PCMCIA Slots Type II/Type III	2 Type II or 1Type III	2 Type II or 1Type III	2 Type II or 1Type III	2 Type II or 1Type III	2 Type II or 1Type III
Pointer Type	Versa Glide	Trackpad	Trackball	Mouse Point (nipple)	Touchpad
CD-ROM Manufacturer	NEC	Teac	Panasonic	Toshiba	Toshiba
CD-ROM Speed	Dual speed	Dual speed	Dual speed	Quad speed	Dual speed
Other/Extra					
16 bit Sound Capability	Yes	Yes	Yes	Yes	Yes
CONNECTORS					
Serial Port (Std/Enh)	Std	Std	Std	Std	Enh
Parallel Port (Std/Enh)	Std	Std	Std	Enh	Enh
Ext Conns Key/VGA/Mouse	PS/2, VGA, Audio	PS/2, VGA, Audio	PS/2, VGA, Audio	PS/2, VGA, Audio	PS/2, VGA, RCA, MIDI
IRDA Option?	Yes	Yes	No	Yes	Yes
DISPLAY					
Display Type	TFT	TFT	TFT	TFT	TFT
Screen Size (inches)	10.4	10.4	10.4	11.3	10.4
On-screen Colours @ 640x480	64K	64K	64K	64K	64K
External Mon Colours @ 1024x768	256	64k	256	256	256
POWER SUPPLY					
Battery Technology	Li Ion	Ni MH	Ni MH	Li Ion	Li Ion
Claimed Battery Life (Hours)	5 hours	3 hours	6 hours	4 hours	2.5 hours
Claimed Recharge Time (in use)	2.5 hours	3 hours	3.5 hours	2.5 hours	2 hours
PHYSICAL SIZE					
Dimensions (WxDxH) cm	29.7 x 24.1 x 5.1	28.6 x 22.8 x 4.9	29 x 23.5 x 5.9	29.9 x 23.5 x 5.5	29.5 x 22.5 x 5.4
Weight with Battery	2.88kg	2.9kg	3.6kg	3.4kg	3.3kg
SOFTWARE					
Operating System version	Windows 3.11 or Windows 95	Windows 95	Windows 95	Windows 95	Windows 95
Business Applications	MS Office	Windows for Workgroups 3.1	None	Windows for Workgroups 3.1	
Multimedia Titles	None	None	None	None	None
Other	Utilities	Utilities	Utilities	Utilities, Audio Utilities, Puma, Tranxit	Utilities
SALES AND SUPPORT					
Basic Warranty Length (years)	3 years	1 year	3 years	3 years	1 year
On-site Service or	BTB	n/a	BTB	BTB	Dealer dependent
Back to Base (BTB) available					
Extended Warranty available	Yes	No	Dealer dependent	Dealer dependent	Dealer dependent
Sold through Dealers or Direct	Dealer	Dealers	Dealers	Dealers	Dealers

KEY ● Yes ○ No

*IRDA (Infra-Red Data Association)





Little 'uns

The little and large of the Adams range of standard and RAID based servers can now all be found on one page. From our small workgroup units right through to our powerful Integrated RAID Server.

Our two RAID machines have proved extremely popular. The Modular offering a "building block" style external disc array, providing the ability to upgrade your server as requirements dictate, from disc mirroring to full RAID level 5, even peripherals like DAT, can be added.

Accura Integrated gives a traditional server layout, with up to 6 removable drives integrated into the case. Features include a redundant power supply system with "quick change" spare, a high efficiency cooling system and the ability to integrate further peripherals like DAT, CD-ROM and optical drives. The Accura Integrated is one of the most cost effective high performance server systems available.

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Model	Single CPU	Dual CPU
Modular P90	£4899	N/A
Modular P100	£4999	N/A
Dual P90	£7999	£8249
Dual P120	£8149	£8549
Dual P133	£8299	£8749

Integrated RAID Server



- Intel Pentium® 90/120mhz CPU
- Dual Pentium m/b with Intel Neptune II, chipset, PCI and EISA slots.
- Plug and play compatible with auto configuration (PCI and ISA bus)
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- 32mb RAM (max 512mb)
- 3 channel bus mastering, PCI RAID fast wide SCSI-II controller with 8mb cache. Max data transfer as configured 50-60mbs
- 4.0gb addressable RAID level 5 array, with 3 x 2gb fast wide SCSI-II hard drives, mounted on alloy "hot pluggable" mounts.
- SCSI CD-ROM, 4.4 speed
- 3.5" 1.44mb floppy drive
- Fast PCI graphics card with 1mb RAM
- 14" Accuscan energy saving, MPR-II monitor, NI, max res 1024 x 768
- 2 serial, 1 parallel port
- 32 bit 100mbps PCI bus mastering ethernet card
- Accura Integrated Server case with 2 x 400W redundant power supplies and 1 x 400W pluggable spare.
- Power supply failure alarm
- Accutouch 102 key UK keyboard
- Microsoft Ergonomic Mouse
- 3 year parts and labour warranty (first year on site)
- Operating systems: Novell Netware (with SMP support), SCO Unix with SMP extns, Windows NT 3.5 (not supplied).



Case accommodates 6 removable RAID drives and 5 secondary units



HDD's mounted in alloy quick-free carriers, hot spare provision



400w PSU's can be hot swapped spare unit fitted in lower case

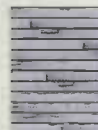
Modular RAID Server



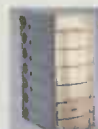
- Intel Pentium® 90/100mhz CPU
- Plug and play compatible with auto configuration (PCI and ISA bus)
- 256k external cache
- 32mb RAM (max 192mb)
- Modular expandable RAID enclosure with redundant PSU's
- 2.0gb addressable RAID level 5 array, with 3 x 1gb fast SCSI-II hard drives
- DPT 2124 PCI 32-bit bus mastering RAID controller with 4mb cache memory
- SCSI CD-ROM drive, 4.4 speed, multi session,
- 3.5" 1.44mb floppy drive
- Fast PCI graphics card with 1mb RAM
- 14" Accuscan energy saving, MPR-II monitor, NI, max res 1024 x 768
- 2 serial (16550), 1 parallel port (EPP/ECP)
- 32 bit 100mbps PCI bus mastering ethernet card
- Accura tower case with 250w PSU
- Accutouch 102 key UK keyboard
- Microsoft Ergonomic Mouse
- 3 year parts and labour warranty (first year on site)
- Operating systems: OS/2 Lan Server, Novell, SCO Unix, Windows NT (not supplied).



Full redundancy and hot swappability of drive modules and PSU's



Extra mount modules will slip on, no cabling is required



Extra peripherals (ie DAT) can be added to the Modular RAID unit

Big Guns!

Single/Dual Server



- Intel Pentium® CPU(s)
- Plug and play compatible with auto configuration (PCI and ISA bus, PCI and EISA bus on dual model)
- 256k external cache (512k dual model)
- 16mb RAM (max 192mb)
- 2.0gb 8.5ms fast SCSI-II hard drive with DPT PCI 32-bit bus mastering SCSI controller (caching and RAID upgradeable)
- SCSI CD-ROM drive, 4.4 spd
- 3.5" 1.44mb floppy drive
- Fast PCI graphics card with 1mb RAM
- 14" Accuscan energy saving, MPR-II monitor, NI, max res 1024 x 768
- 2 serial (16550), 1 parallel port (EPP/ECP)
- 32 bit PCI 10mbps bus mastering ethernet card
- Tower case with 200w PSU, Server case with 300w dual
- Accutouch 102 key UK keyboard
- Microsoft Ergonomic Mouse
- 3 year parts and labour warranty (first year on site)
- Operating systems: OS/2 Lan Server, Novell, SCO Unix, (SMP extns may be req) or Windows NT (not supplied).

Model	Single CPU	Dual CPU
Single P90	£2399	N/A
Single P100	£2499	N/A
Dual P90	£2799	£3049
Dual P120	£2949	£3299
Dual P133	£3099	£3499

Some Server Options

Single Server main memory upgrades (per 1mb)	£29
Dual Server main memory upgrades (per 1mb)	£35
Single/Dual 2gb → 4gb SCSI-II HDD upgrade	£389
Single/Dual 2gb → 9gb SCSI-II HDD upgrade	£CALL
DPT 2024 → DPT2124 SCSI controller (faster!)	£149
DPT CM4000 cache module (for DPT2024/2124, 0mb)	£349
DPT DM4000 RAID module (for DPT2024/2124)	£349
Modular main memory upgrades (per 1mb)	£29
Integrated main memory upgrades per 1mb	£35
Modular RAID upgrade from 2gb → 4gb capacity (2 extra 1gb SCSI-II drives and 2 mount modules)	£879
Modular 4gb → 8gb upgrade (5 x 2gb SCSI-II)	£1399
Modular 4gb → 16gb upgrade (5 x 4gb SCSI-II)	£2460
Integrated RAID upgrade to 5 drives (8gb capacity) (2 extra 2gb W-SCSI drives and 2 alloy mounts)	£1449
Integrated 8gb → 16gb upgrade (5 x 4gb W-SCSI)	£1749
RAID cache upgrades (per 1mb)	£33
4-16gb DDS-2 DAT drive mounted mounted in main server	£749
10mbps PCI ethernet card (combo)	£89
10/100mbps PCI ethernet card (UTP only)	£199
Separate external 2gb Modular RAID box with 2 x PSU's, 3 x m/modules containing 3 x 1gb SCSI-II HDD's	£1649

Adams service

Warranty: For your peace of mind Adams offer a 3 year parts and labour warranty on your Accura Server. The first year of this warranty is on-site with BS5750 standard eight hour response. All main system components are covered except monitors which are warranted by their own manufacturers. The on site service can be extended up to 3 years, and in certain areas, a four hour response time can be provided. Please call for specific quotations.

Ordering: We are pleased to accept enquiries between 9am and 6pm Monday to Friday. All Accura Servers are normally shipped within 2 weeks of order. We accept cheque with order, Visa, Mastercard or American Express. PO's are welcome from FTSE100 listed companies and government departments. Carriage charges at cost, normally around £25 per system. All prices quoted are subject to VAT. Our new phone number from end Feb: 0161 282 8822.



Adams' are the official computer supplier to Williams Renault for 1996

0161 877 8822



Adams

Advanced Computer Technology

ADAMS TECHNOLOGY LTD, CITY POINT, CHESTER RD, OLD TRAFFORD, MANCHESTER M32 0RW UK. FAX: 0161 877 8804

CD-ROM

thrashing, with the addition of Secret Agent to their collections. Meanwhile, crash-landing in an unearthly hamlet full of over-emotional villagers is an alien experience to all those of us who don't watch Emmerdale on TV. But rather than saving mankind's sanity by wiping out the villagers, you must save them from an alien uglier than Seth Armstrong in a gurning competition.

Digital video

Not only, but also... the PolyGram MPEG Sampler brings you over 25 minutes of music from top artistes. To play the videos you need an MPEG player. If you have an MPEG graphics card, you can just click on the play button in PCWI to play the movie. If you don't, you can still get a feel for the video using the VMPEG software player, also on the CD. Just install it and press the play button. But remember, a software player will only be as good as your PC — the slower it is, the more video frames and audio will be skipped. Owners of Pentium 133s should find the video plays quite well, though.

Features

Renowned voice-over artiste and radio DJ, Marc Silk, brings you a steaming selection of soundbites to spice up your life. You could indefinitely loop them and play them at 600W in your garden, just to annoy the neighbours.

DOS

Headlining this month is Superchase — Czech out this superb Slovakian car-based brand of hi-jinks. East European software mogul, Igor Kracun, took one and a half years to complete this logic test. So the full version is likely to cost you more than just a pair of Levis and a bottle of Bud.

Win 95

Those of you resplendently equipped with last year's version of Windows will vibrate with delight while transforming your static pointy cursor into, perhaps, an animated Pamela Anderson or Keanu Reeves. There's also an invaluable Web site designer that will get you online in no time, no bother.

Win 3.1

A Solitaire-fest beyond comparison to fritter away the time you spend at work. Plus, there's Money Smith, the ideal companion for your dosh.



Left PCW magazine items; plus ClipMate with the exclusive PowerPaste; and more...

Below Over 450 new soundbites and vocal effects

Bottom A super STD Code Decoder and two unusual games

Configuring Video for Windows

If you select the "New users start here" button on the first page of PCW Interactive, you'll have the opportunity to install the latest version of the Video for Windows runtime so that you can view the digital movies on the CD. If you haven't installed Video for Windows from a PCW Interactive CD before, then you should install this new version, as it contains the latest drivers which deliver higher quality, a larger size and a faster playback rate. If you don't install the new version, some videos will display the message "Cannot display this video", or give similar warnings.

There are also some extra buttons on the Video for Windows page, which allow you to fine-tune your PC's performance without having to leave PCW Interactive or restart Windows. In particular, you can choose to have digital movies played back on your PC at full-screen resolution. That's right, without having recourse to hardware add-ons such as MPEG cards, you can have full-screen digital videos when you run the PCW Interactive CD-ROM.

But please remember when you exit from PCW Interactive; if you leave the option for full-screen video selected, then all video in other applications will also be full-screen. If you don't want this, then re-run PCW interactive and select the "Windowed" option and quit again.

Testing your CD-ROM

If you suspect your CD-ROM may actually be faulty or damaged, you can run



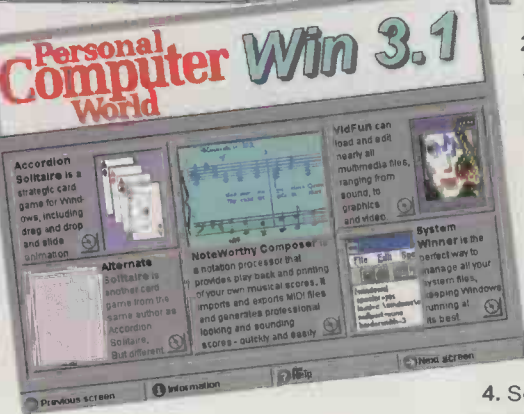
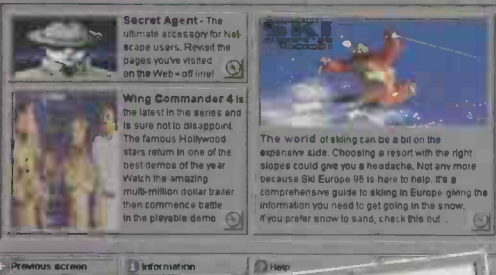
the file CDTEST.EXE in the SYSTEM directory of the CD-ROM. The program will then examine every byte of data in the PC partition of the disc to see if it can be correctly read.

The process takes up to 35 minutes and generates a verification code if the disc passes the test. If the CD-ROM fails this test, try cleaning it with a light solution of washing-up liquid and dry it with a lint-free cloth then run the test again. If it still fails, return your CD-ROM to the magazine for a free replacement.

You are free to copy the CDTEST.EXE program to your hard disk in order to test other CD-ROMs as long as it is not distributed in any way. If you are running CDTEST from your hard drive, you need to specify the CD-ROM drive to test, as follows:

Right GPSS, Image AXS and Jigsaw: find yourself, manipulate a picture and then make a jigsaw of it

Below Leisure, music score processor, system file and multimedia utility demos



graphic display driver may not be entirely 100 percent Microsoft compatible. The answer is therefore to install one of Microsoft's own drivers, as follows (but NOT if you are using Windows 95, as the drivers supplied with it are even newer than the ones on this disc):

1. Run Windows Setup from File Manager, then select Options followed by Change System Settings.
2. Scroll through the list of displayed graphic drivers until you get to the final entry: Other Display (Requires Disk from OEM), and select it.
3. Insert this month's CD-ROM into the drive and replace the A:\ prompt with D:\SYSTEM\SVG256 (changing the D: to the correct letter if your CD-ROM is not in drive D:), then press Return.
4. Scroll through the new drivers until you find the ones beginning Super VGA... then select the one for the resolution you prefer. The driver will then be installed and Windows restarted. PCWI and Video for Windows should then have no further problems.

If this works (which it should in 95 percent of cases) you may wish to contact the supplier of your graphic card to see if they have an updated graphic driver. If Microsoft's drivers don't work you will need to contact your graphic card supplier anyway.

If Video for Windows install fails

If the Video for Windows installation fails and you receive an error such as

"XXXXXXXX.YYY cannot be updated as it is a shared file". The answer is to delete the file XXXXXXXX.YYY (or whatever it is called) and reinstall Video for Windows.

PCWI is slow to load or runs slowly

You need at least 4Mb of RAM free to use PCWI. If necessary, you can obtain this by creating a permanent swap file of up to 4Mb. You are also advised to enable read caching of your CD-ROM by adding its name to the SMARTDRV line in your AUTOEXEC.BAT file. You should also allow MSCDEX to set up its own buffers by adding a line such as /M:10 to the MSCDEX line, also in your AUTOEXEC.BAT file. Please refer to your manuals for full details.

Windows NT and OS/2

Macromedia Director, the program used to create PCWI, is incompatible with Windows NT. However, you should be able to run PCWI from OS/2 simply by calling up PCWI.EXE from the command line.

PCW Advice & Contacts

The PCW CD-ROM is virus-checked at every stage of production. However, PCW will not accept liability for any problems arising from its use. You are advised not to install software on a networked PC before checking the disc.

For technical support on the CD-ROM and the programs on it, call the VNU 24-hour Hotline on 0891 616444. This is a computerised touch-tone advice system providing hints and tips on a wide range of topics. It also offers you the opportunity to speak to a member of our technical support staff during office hours by pressing the 0 key on your keypad. Calls cost 39p per minute off-peak and 49p at all other times (tone phones only).

Using the computerised system you can access the information you need very quickly. If you request to speak to a member of our technical support staff and we cannot answer your question immediately, we will offer to call you back at our expense. Outside office hours you can leave us a message by pressing the 9 key. If you leave your phone number, we'll call you back at the earliest opportunity during office hours.

If you prefer, you can email mixon@cix.compulink.co.uk, or on CompuServe: 70007,5547, or write to us at the magazine.

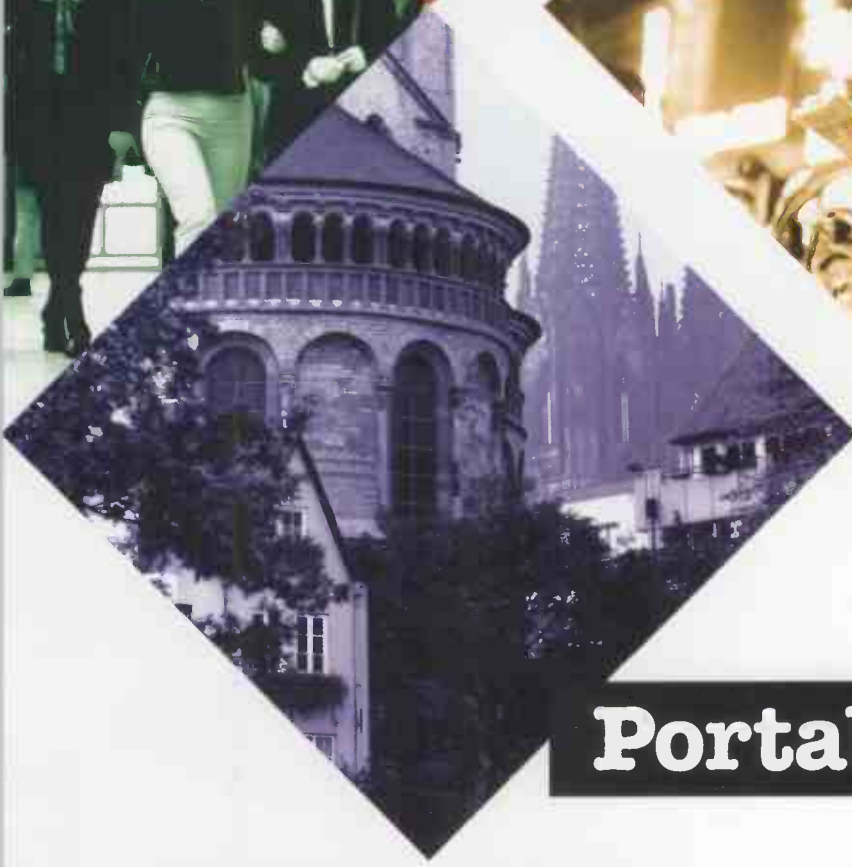
CDTEST D:

Note: We offer this tool "As is" purely as an aid to diagnosing possible faults, some of which may occur because an older version of MSCDEX.EXE is in use. This is not because of a faulty CD-ROM, and we disclaim any responsibility for any erroneous error reports that it may generate.

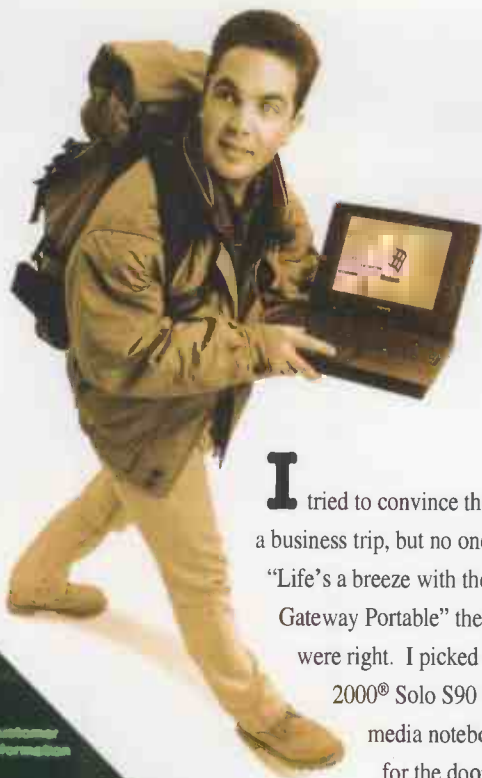
IMPORTANT — READ THIS! GENERAL PROTECTION FAULTS

If you receive General Protection Faults when running PCWI or playing any digital videos, it is probably because your

Gateway 2000



Portable PCs



Gateway Solo models feature two integrated stereo speakers.

I tried to convince them it was a business trip, but no one believed me. "Life's a breeze with the mobility of a Gateway Portable" they said, and they were right. I picked up my Gateway 2000® Solo S90 Best Buy multimedia notebook and headed for the door. Nothing like a bit of travel to broaden the mind.

"Wow, I love this machine!"

Stopping only to bid farewell to my erstwhile best friend Brodie the Border Collie, there I was, off on a trip round Europe with everything I needed to make a really good job of my report. I remember thinking, "Wow, I love this machine!" It's got a powerful 90MHz Intel® Pentium® processor, active matrix SVGA colour

display, 16MB RAM, hefty 720MB removable hard drive, and CD-ROM drive – in fact it's got everything you want in a high-end desktop – all in a six-pound portable PC.

First stop Victoria Station. Quietly grooving to my favourite music – easy with the built-in 16-bit sound stereo speakers and CD-ROM drive – I was assailed by four girls. "I can't believe it!" said Claire from Bradford. "You've got a Gateway 2000 notebook too! We're here for the

conference, but we wouldn't go anywhere without one, would we girls?"

"No way," chorused the others, as they produced a Gateway Solo S75 from one handbag and a Gateway Liberty™ from another.



132b

"It handles everything I need", said Susie.

"That's what I love about Gateway 2000 portables," said Susie from Sheffield, "there's something for everyone and they're fantastic value too! I take my Liberty everywhere, it only weighs just over 4 pounds, and with a 720MB removable hard drive, 100MHz 486DX4 Intel processor and the super 10.4-inch dual-scan colour screen, it handles everything I need it to do with ease."

Tempted as I was to tarry a while, I bid farewell to my new-found friends and headed for the boat train. Aboard the ferry to France I settled down to some serious work on my

**More com
more p**



report. The four-hour journey was well covered by my Solo's Lithium-Ion battery giving me up to six hours working time between recharges.

Once on French soil, I plugged into the nearest phone socket and e-mailed the first part of my report back to the office. Hmm, I thought, that'll blow them away back at base!

Paris proved a doddle to negotiate and avoiding the tasty delights of the Pigalle by night, I checked into an hotel to recharge the batteries. Mine and my Solo's.



EZ Pad pointing device for easy cursor navigation.



Next morning I headed north for Cologne where a successful meeting with my German colleagues was concluded by them calling

Gateway for details of their whole range of portable PCs with a one-year back-to-base warranty and lifetime technical phone support! Not really what I'd planned, but who's complaining?

My German colleagues made a free call to Gateway 2000.



Friday, 10.00am and I'd already done the Dutch deal. Spreadsheets, data and graphics all downloaded effortlessly from my Solo, direct onto our client's desktop.

Back in the UK it's a toss-up who was most pleased to see me, my boss or my faithful collie. Both were left panting for more!

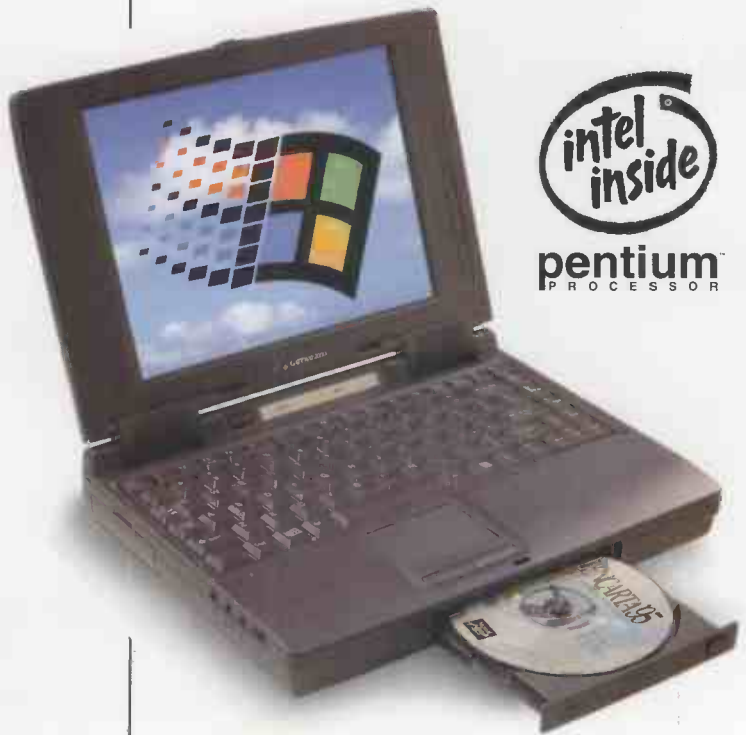


Gateway Solo notebooks are optimised for Microsoft Windows 95

For more computing, more places – call Gateway 2000 today.

**Computing,
places.**

By nightfall I reached Maastricht. Dinner done, I spent a couple of hours working on my Solo, before getting sidetracked into a little cruise on the Internet. Fantastic!



"You've got a friend in the business."

0 8 0 0 3 6 2 0 0 0

Fantastic Value in any Language

Gateway Solo V75

- 10.2" VGA (640 x 480) Active Matrix Colour Display
- 75MHz Intel® Pentium® Processor
- 8MB RAM (expandable to 40MB)
- 256K L2 Pipeline Burst Cache
- 1MB Video RAM
- Lithium-Ion Battery and AC Pack
- 2 PCMCIA Type II Slots
- EZ Pad™ Pointing Device
- 720MB Removable Hard Drive
- 3.5" Modular Floppy Drive
- Integrated 16-Bit Sound with Stereo Speakers
- Headphones
- 86-Key Keyboard
- Parallel, Serial, Keyboard, Mouse, VGA and PS/2® Ports
- Built-in Mic, Headphone, Line-in Jacks and External Volume Control Dial
- Weight starting at 2.7kg (5.6lbs)
- Microsoft® Windows® 95
- MS Office Professional™ 95

£ 2349

£ 2499 (WITH CD-ROM DRIVE)

Gateway Solo V90

- 10.2" VGA (640 x 480) Active Matrix Colour Display
- 90MHz Intel Pentium Processor
- 8MB RAM (expandable to 40MB)
- 256K L2 Pipeline Burst Cache
- 1MB Video RAM
- Lithium-Ion Battery and AC Pack
- 2 PCMCIA Type II Slots
- EZ Pad Pointing Device
- 720MB Removable Hard Drive
- 3.5" Modular Floppy Drive
- Modular CD-ROM Drive
- Integrated 16-Bit Sound with Stereo Speakers
- Headphones
- 86-Key Keyboard
- Parallel, Serial, Keyboard, Mouse, VGA and PS/2 Ports
- Built-in Mic, Headphone, Line-in Jacks and External Volume Control Dial
- Weight starting at 2.7kg (5.6lbs)
- Microsoft Windows 95
- MS Office Professional 95
- Classic Case

£ 2699

Gateway Solo S90 Best Buy

- 10.4" SVGA (800 x 600) Active Matrix Colour Display
- 90MHz Intel Pentium Processor
- 16MB RAM (expandable to 40MB)
- 256K L2 Pipeline Burst Cache
- 1MB Video RAM
- Lithium-Ion Battery and AC Pack
- 2 PCMCIA Type II Slots
- EZ Pad Pointing Device
- 720MB Removable Hard Drive
- 3.5" Modular Floppy Drive
- Modular CD-ROM Drive
- Desktop IR Receptor
- 28.8K bps PC Card Fax/Modem
- Integrated 16-Bit Sound with Stereo Speakers
- Headphones
- 86-Key Keyboard
- Parallel, Serial, Keyboard, Mouse, VGA and PS/2 Ports
- Built-in Mic, Headphone, Line-in Jacks and External Volume Control Dial
- Weight starting at 2.9kg (6.1lbs)
- Microsoft Windows 95
- MS Office Professional 95
- Deluxe Leather Case

£ 3499

Liberty DX4-100

- 10.4" Dual-Scan STN Colour Display
- 1.9 kg (4.2 lbs)
- 25.4 x 20.3 x 4.1 cms (10 x 8 x 1.6")
- Intel 100MHz 486DX4 Processor
- 8MB RAM
- Infrared Capability
- 720MB Removable IDE Hard Drive
- NiMH Battery & AC Pack
- Instant On
- 2 PCMCIA Type II Slots
- 78-Key Keyboard & Pointer
- Parallel, Serial, VGA & PS/2 Ports
- Microsoft Windows 95
- MS Office Professional 95

DX4-100 • **£ 1899**

Liberty DX4-100 Gold

- 10.4" Dual-Scan STN Colour Display
- 1.9 kg (4.2 lbs)
- 25.4 x 20.3 x 4.1 cms (10 x 8 x 1.6")
- Intel 100MHz 486DX4 Processor
- 16MB RAM
- Infrared Capability
- 720MB Removable IDE Hard Drive
- 2 NiMH Batteries & AC Pack
- Instant On
- PCMCIA 28.8 Fax Modem
- 78-Key Keyboard & Pointer
- Parallel, Serial, VGA & PS/2 Ports
- Microsoft Windows 95
- MS Office Professional 95
- Carrying Case

DX4-100 GOLD • **£ 2399**

Peripheral Options

- Desktop IR Receptor **£ 59**
 - 28.8K bps PC Card Fax/Modem **£ 299**
 - 3.5" External Floppy Drive **£ 79**
- Call for Memory & Hard Drive Options*

Service & Warranty

- Lifetime freephone service and support
- One year limited parts warranty



All prices and configurations are subject to change without notice or obligation. All prices are quoted in Sterling and exclude carriage and VAT.



pentium
PROCESSOR



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Four Tops

The way Intel has been launching chips recently you'd think they were going out of fashion. First came the Pentium Pros and now the latest addition to the Pentium range, the P150 and the P166. For the average desktop, these are still the way forward. They are designed to make Windows 95 and those heavy office packages fairly race along.

We took a first glance at Viglen's P166 last month and have now got our hands on the first batch of P150s. Intel promises these chips are quickly going to become available in high volume, while by the summer, the P100 and P120 will be entry level processors. The new breed of P150s and P166s will then hold the high ground for some time to come. In other words, they are going to be highly desirable objects.

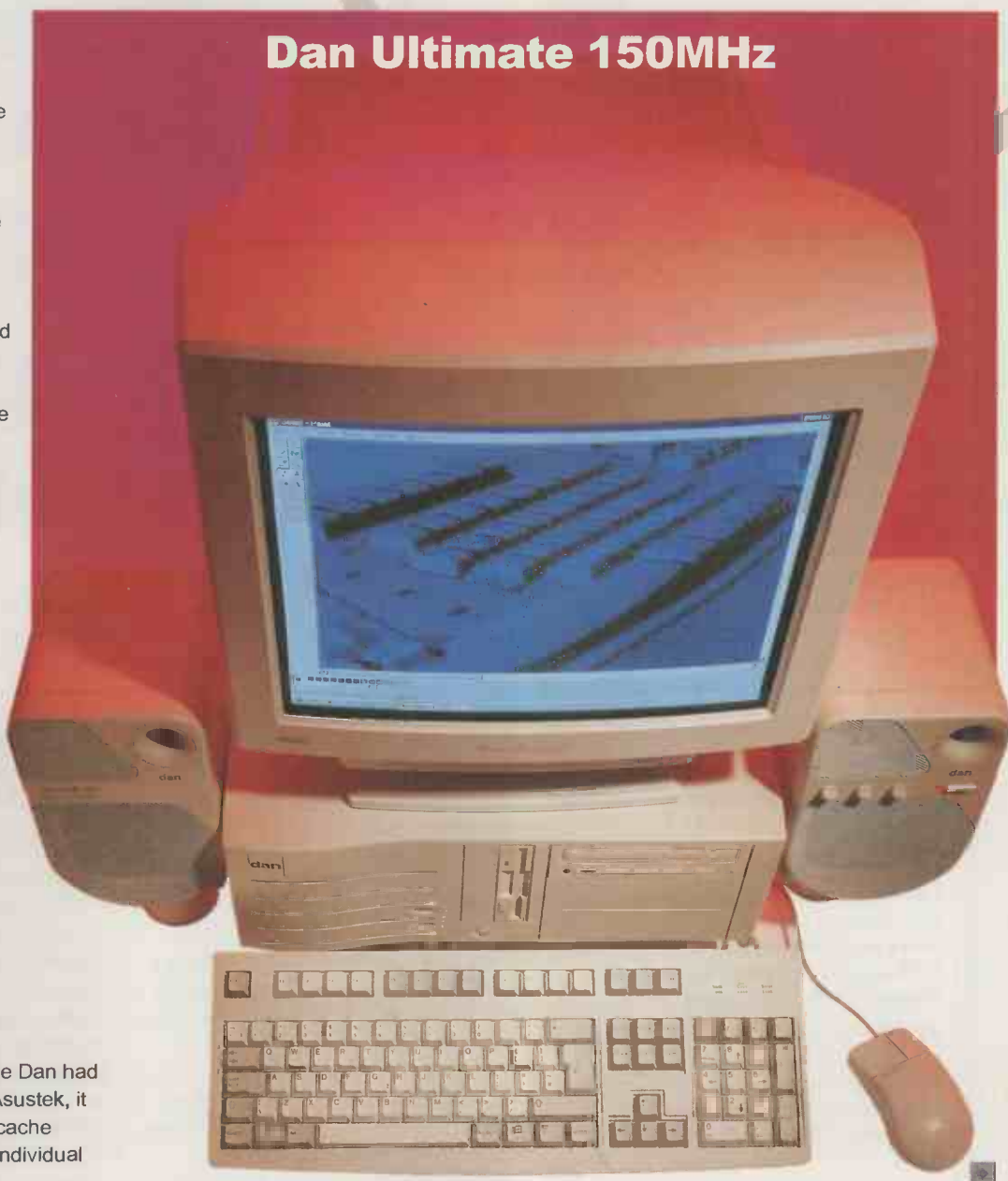
To give you an idea of how these new chips are expected to perform, Intel has produced the Intel Comparative Microprocessor performance index (iCOMP), based on 16 and 32-bit processor performance on integer, floating-point, graphics and video operations. The results show the P120 with a score of 1000, the P150 with 1176 and the P166 with 1308 (see the Intel Web pages on www.intel.com for more details). The P150 nestles nicely between the P120 and the P166 in terms of both performance and price.

Dan Ultimate 150MHz

The most unusual feature of the Dan had to be the motherboard. From Asustek, it features both kinds of Level 2 cache sockets: the older type house individual

The latest breed of Pentiums promise to feed the hungriest of applications and bring you into the fast lane. Adele Dyer looks at four new machines from Dan, Elonex, Vale and Viglen boasting the Pentium P150 chip.

Dan Ultimate 150MHz



cache chips as well as a COAST (cache on a stick) socket with 256Kb cache.

The other components were more standard: a 1Gb Quantum Fireball hard drive; 16Mb EDO RAM; Triton chipset and Socket 7. The multimedia aspects were taken care of by a Creative Labs AWE 32 sound card and a TEAC six-speed CD-ROM, while the video card was a Matrox Millenium.

Included in the deal is a V.34 internal modem, a useful addition to those who want to get online although you may prefer to choose your own modem. The machine came loaded with software to go with the fax/modem, including Pipex Dial and an icon to take you to the Dan BBS. This is all fully set up and ready to run and you can find further help through the pre-loaded Dan Information module.

The 17in monitor is capable of 1600 x 1200 x 256 at 60Hz and runs non-interlaced at this speed. While the monitor itself was easy to use, the on-screen controls were a little annoying. Whether or not you like on-screen controls is a matter of taste, but these were worse than most of their type. The screen resolution dialogue box came on repeatedly — at first, whenever we shut down, booted up or opened a DOS box. We could stop it from coming up when opening a DOS box, but it was mildly annoying to have it flash up every time we rebooted.

Performance-wise, the Dan was level pegging with the other machines, both on the benchmarks and on the Doom 2 tests. The only problem was running the WordPerfect 6.0 for DOS tests as it did not have enough extended memory to cope, although this problem was easily corrected. Altogether, the machine ran very well, as did all the PCs in this test. The Dan, however, has the edge on the added extras, the fax/modem and software bundle.

PCW Contacts

Dan Ultimate 150MHz

Price £2600

Contact Dan

Tel 0181 830 1100

Fax 0181 830 1122

Hardware Bundle AT75 — 160W

Software Bundle Windows 95, Works 4.0

Warranty Lifetime back to base

Good Points Good monitor and software bundle. Fax/modem included.

Bad Points Outdated motherboard. Annoying on-screen monitor controls.

Conclusion A good machine, but a little pricey.

Elonex PC-150/I



Elonex PC-150/I

Elonex is a genuine OEM (original equipment manufacturer), making its own boards rather than just buying in Intel boards and putting all the bits together. The fact that Elonex had control over the internal designs meant that this was one of the most original and interesting machines we have looked at for a while.

The main motherboard is half-size and has on it the IDE connections for the hard disk and CD-ROM drive. There is one PCI slot here and it contains a riser card with three PCI and three ISA expansion slots, as well as a PCI SCSI connection.

There are two reasons for this arrangement. Firstly, by effectively bending the board in two you can fit the maximum expansion in a very small case, so leaving you more desk space. Secondly, you can upgrade easily and

cheaply. Elonex does a range of riser cards which can meet a variety of needs. The idea is that you can buy a P75 with a more basic riser card and upgrade it right up to a P166 with onboard SCSI, by changing the chip, clocking up the motherboard and adding a new riser card. For only £50 for a riser card with SCSI you will save yourself money on a SCSI card for internal devices such as a hard disk or a tape streamer.

The design has a couple of drawbacks — everything is very squashed. The hard disk sits slap on top of the power supply, a potentially problematic position, while putting anything into the spare front-facing bay under the floppy and CD would mean considerable fiddling.

The performance of the Elonex was not really reflected in the benchmark tests. The Doom 2 test gave a score comparable with the other machines and

in use it suggested a faster speed than the results of the tests proved.

Otherwise, the PC150/I is well-specced. The CD-ROM drive is from Sony and, while not a six-speed like the others in this test, is nevertheless a good drive. The monitor is neat, capable of 1600 x 1200 x 256 at 60Hz. The screen controls are operated through a few simple switches on the monitor and on-screen software.

PCW Contacts

Elonex PC150/I

Price £2390

Contact Elonex

Tel 0181 452 4444

Fax 0181 452 6422

Software Bundle Windows 95, MS Works, Encarta 96, Money, Scenes, 7th Level, Tuneland

Hardware Bundle Altec Lansing ACS 31 with Subwoofer

Warranty One year on-site

Good Points Small but with plenty of room for expansion.

Bad Points The slowest in the test.

Conclusion A decent machine at a reasonable price.

Vale Platinum SE P150

The Vale stood out because of its speed. It outperformed the rest of the machines in the test by only a whisker, but every little bit counts. The benchmark tests gave the Vale an edge on the rest of the crowd, but so too did the Doom 2 scores. After our recent P120 group test (*PCW* January) we found that a high score in one test did not automatically predict a high score in the other. In the group test of P120s the Vale machine was the highest Doom 2 scorer but showed only average performance in the benchtests. In this test the P150 was consistent in its high performance, winning both tests.

In other respects, the machine was strikingly similar to the Viglen. Both machines use the Intel Endeavour board, which has been updated by Intel to clock the chip at 2.5 times the speed of the board. The I/O therefore runs at 60MHz and the Triton chipset at 30MHz, but the board can be clocked up to make the I/O run at 66MHz for the P166.

Some of the other components stood out from the crowd. The 2Gb Seagate Medallist Fast ATA-2 hard drive was the first of its kind both in size and type that we have seen in a review machine. The TEAC six-speed CD-ROM drive won our recent six-speed round-up (January 96 issue), while the Matrox Millennium video card has 2Mb WRAM, which is faster



than VRAM. The Vale also came fitted with 512Kb of cache. There was no sound card, as the Endeavour board comes complete with a built-in Vibra 16S chip.

We had a problem with the first monitor we saw but Evesham promptly sent us a new one and this worked well apart from one small fault: we could not get it to run in 256 colours. Oddly, it only ran in the 16-bit high colour. However, the monitor does have certain factors in its favour. It was 17in, capable of 1024 x 768 at 72Hz non-interlaced and has on-screen commands.

The high spec and resultant speed of this machine made it a clear winner,

offering the best value for money of the bunch.

PCW Contacts

Vale Platinum SE P150

Price £2229

Contact Evesham Micros

Tel 01386 765500

Fax 01386 765354

Warranty One year on-site

Hardware Bundle Zy-Fi speakers

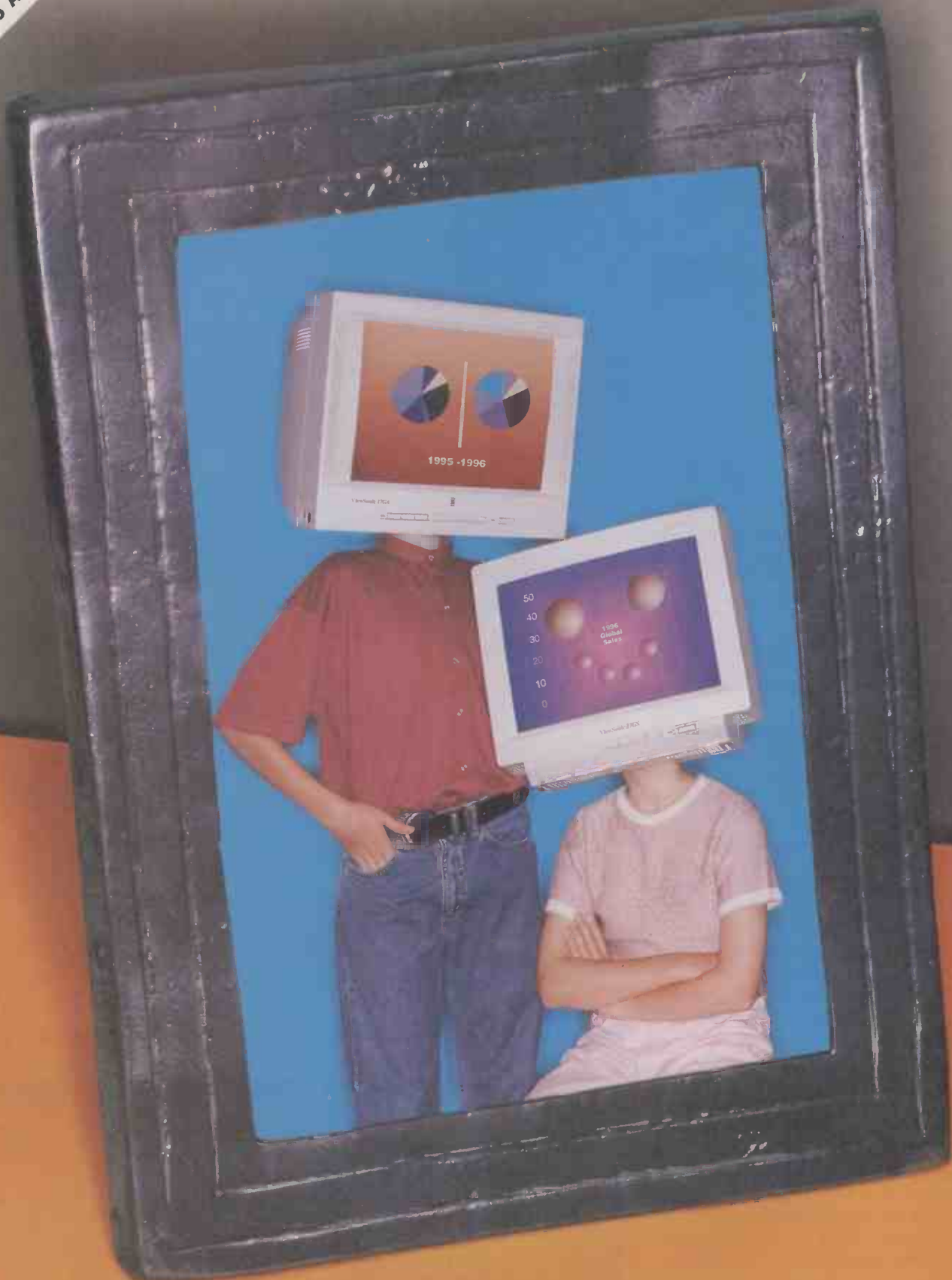
Software Bundle Windows 95

Good Points Very high spec machine.

Bad Points Initial problem with the monitor.

Conclusion A nice little runner. A well deserved Editor's Choice.

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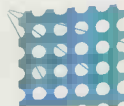
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- Microsoft® Ergonomic Mouse
- Microsoft® Windows NT workstation 3.51
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1GB EIDE	16MB	£3749	£3849	£4049
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4GB SCSI	64MB	£6109	£6229	£6429

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Viglen suggests the newly launched CAD package 'Solid Edge' from Intergraph for 3D solid modelling and engineering applications. This package is true 32bit Windows® NT compatible and offers the ability to link 3D geometric models with other applications making this one of the most advanced CAD package in its class. Please call for prices.

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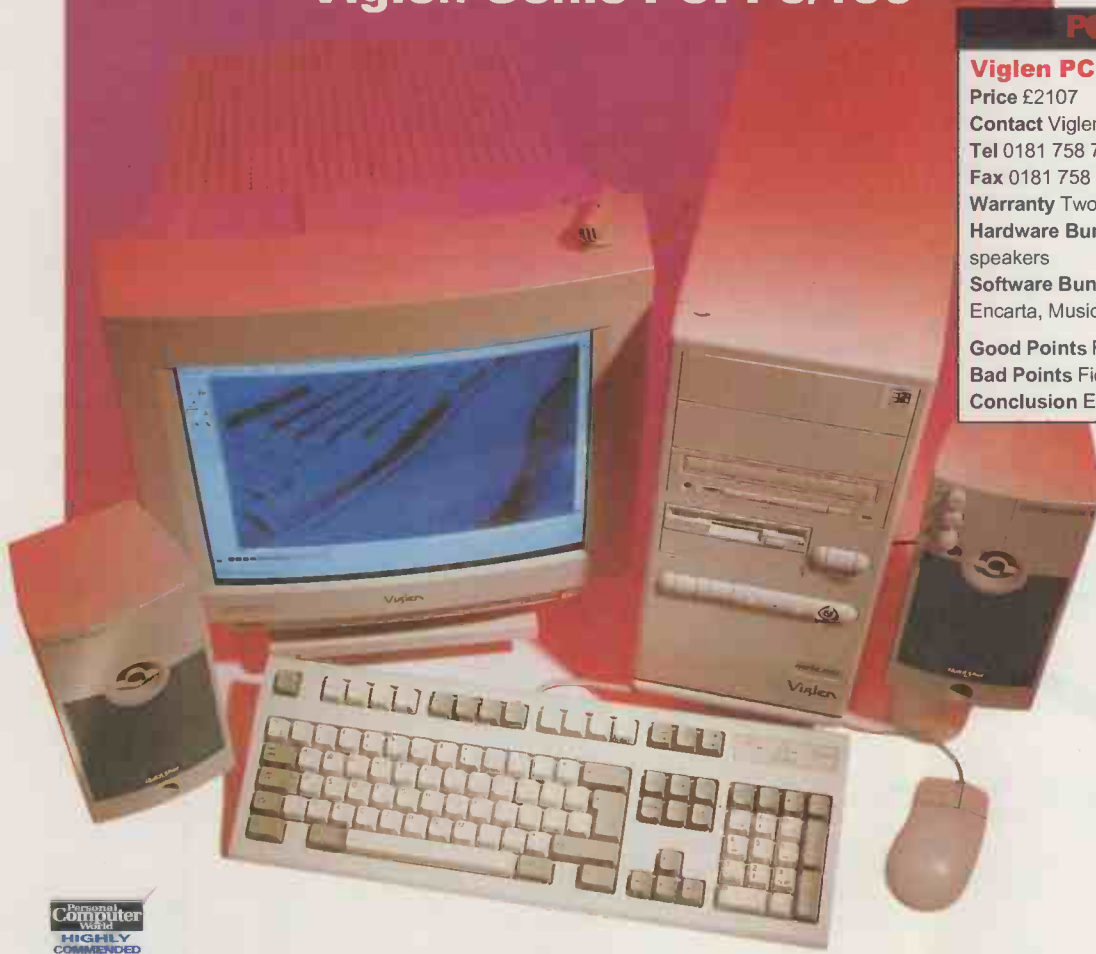
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Viglen Genie PCI P5/150



PCW Contacts

Viglen PCI P5/150

Price £2107

Contact Viglen

Tel 0181 758 7000

Fax 0181 758 7080

Warranty Two years back to base

Hardware Bundle QuickShot Sound Force 1 speakers

Software Bundle Windows 95, Works 95, Encarta, Music, Golf, MS Money

Good Points Fast, well specced, well built.

Bad Points Fiddly RAM SIMMs.

Conclusion Excellent value.



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Viglen Genie PCI P5/150

Having reviewed the Viglen P166 in last month's First Impressions, we were keen to see how a P150 from the same manufacturer would perform in our benchmark and Doom 2 tests. The results were reassuringly fast — faster, in fact, than you could reasonably expect. The Viglen P166 clocked up a score of 2.5 in the benchmarks, while the P150 rated 2.35. However, the Doom 2 score was much slower on the P150 than on the P166, the P166 producing 64fps and the P150 only 54.

As to the build of the machine, it came as no great surprise to find the P150 squigged from the same mould. Both use the updated Intel Endeavour motherboard but with the I/O running at only 60MHz, and the Triton chipset at 30MHz on the P150, not 66MHz and 33MHz respectively as with the P166. This new board includes onboard sound in the form of a Creative Labs Vibra 16S chip, with the I/O connections on a riser card.

The similarities do not end there, as

the two machines have exactly the same components throughout. These include a 1Gb Quantum Fireball and a TEAC six-speed CD-ROM drive, which won our recent round-up of six-speed drives. The graphics card is a Matrox Millenium.

The case allows plenty of room for expansion. The mini-tower allows for two free 5.25in bays and one 3.5in front-facing bay, as well as one more internal 3.5in bay. The hard disk hangs over two of the four SIMMs sockets however, so removing the two existing 8Mb EDO SIMMs would be a little fiddly.

The Viglen Envy 17PE monitor is standard fare but has a fairly dense black screen and a slim, elegant surround. It can operate up to 1600 x 1200 x 256 at 85Hz and its maximum non-interlaced refresh rate is 75Hz.

Comparisons between the P150 and the P166 are probably most easily made by taking the Viglen machines we have reviewed as benchmarks. On the Windows applications tests, the P150 seemed to do proportionally better than the P166, but on the Doom 2 test, the

P166 stormed ahead. For the price against the P166, the P150 is highly competitive for general use.

Benchtest Results

PCW Pentium 150MHz tests

Dan P150 2.35

Elonex 150 2.16

Vale 150 2.38

Viglen 150 2.35

0.00 0.50 1.00 1.50 2.00 2.50 3.00

Relative to Compaq Deskpro DX4/100

Faster

Doom Scores

Dan P150 54.0fps

Elonex 150 53.6fps

Vale 150 55.1fps

Viglen 150 54.7fps

0.0 10.0 20.0 30.0 40.0 50.0 60.0

Faster

For details on our tests, see page 122.

Editor's Choice

To judge these machines against one another on speed alone would be a hard job. All four were very close in terms of performance figures in the benchmark tests and even closer in the Doom 2 tests. They were equally close on build quality. All were sensibly put together and well configured, so again there was nothing to put between them.

The only two criteria left to judge them by, therefore, by price and components. The Dan was the most expensive but managed to include a modem. Going by price the Viglen is the winner, at a staggeringly cheap £2107. However, the Editor's choice went to Vale, firstly for including a 2Gb hard drive, and secondly for being marginally the fastest.

To Pro or not to Pro

Intel has produced a glut of new chips over the past few months, so how are you to choose between them? If you can buy both a Pentium P150 and a Pentium Pro 150, should you spend nearly £1500 more on a Pentium Pro, or should you stick to a tried Pentium clocked up to 150 MHz?

The simple answer is the two are designed for different purposes. Pentium Pros have been optimised for 32-bit code, and a Pentium Pro 150 runs 16-bit code slower than a Pentium 150. So there is little benefit in running Windows 95 on a Pentium Pro, or much of your everyday software.

The Pentium Pro range is first and foremost a workstation chip. If you plan to run 32-bit operating systems such as Windows NT or Unix, and heavy-duty applications whether software development tools, CAD packages or network software for a large proportion of your daily business, then the Pentium Pro is a sensible choice. It is well priced for a workstation or a server, starting at around £3750, but would be overpriced for a general home machine.

In contrast, the Pentium range is designed to process all the everyday 16-bit applications which the majority of non-specialist users are most likely to run. Windows 95 still contains some 16-bit code and while many of the office suites are now being produced in 32-bit versions, it will be a while before all software is written as 32-bit code. Of course a Pentium can run 32-bit code, but it has not been optimised for it like the Pentium Pro. A Pentium is therefore seen as the business and home computing chip, while the Pentium Pro is the workstation and server chip. If you are looking for a home machine, the Pentium is the only answer.

TABLE OF FEATURES PENTIUM 150MHz

	Dan	Elonex	Evesham Micros	Viglen
Manufacturer	Dan	Elonex	Evesham Micros	Viglen
Model Name	Dan Ultimate 150MHz	PC-150/I	Vale Platinum SE P150	Genie PCI P5/15
Tel No	0181 830 1100	0181 452 4444	01386 765500	0181 758 7000
Fax No	0181 830 1122	0181 452 6422	01386 765354	0181 758 7080
Price (excl VAT)	£2600	£2390	£2229	£2107
Local Bus Architecture	PCI	PCI	PCI	PCI
Free local bus only slots	4	1	3	2
Free ISA only slots	1	1	2	2
Free shared local Bus/ISA slots	0	1	1	1
Motherboard Manufacturer	Asustek	Elonex Technologies	Intel	Intel
Chipset	Triton	Triton	Triton	Triton
No. of spare 3.5in bays	1	1	2	1
No. of spare 5.25in bays	2	1	2	2
Hard Disk Manufacturer	Quantum	Seagate	Seagate	Fujitsu
Hard Disk Size	1Gb	1Mb	2Mb	1Gb
Hard Disk Interface	EIDE	EIDE	Fast ATA-2	EIDE
RAM	16Mb EDO	16Mb EDO	16Mb EDO	16Mb fast page
Secondary cache (Kb)	256Kb pipeline burst	256Kb pipeline burst	512Kb pipeline burst	256Kb pipeline burst
CD-ROM Drive	TEAC 56E	TEAC 56E	TEAC 56E	TEAC 56E
CD-ROM Speed	6X	6X	6X	6X
Sound Card	Creative Labs SoundBlaster AWE 32 Value	Creative Labs SoundBlaster AWE 32	Creative Labs Vibra 16S on motherboard	Creative Labs Vibra 16S on motherboard
Graphics Card	Matrox Millenium	Matrox Millenium	Matrox Millenium	Matrox Millenium
Graphics Card RAM/Max RAM	2Mb	2Mb	2Mb	2Mb
Graphics Card max non-interlaced resolution	1600x1200x256 @ 60Hz	1600x1200x256 @ 60Hz	1600x1200x256 @ 60Hz	1600x1200x256 @ 85Hz
Monitor	Liyama 9017E	Acer 7176i	Smile 1716SL	Viglen 17PE
Monitor Size	17in	17in	17in	17in
Monitor Maximum Refresh Rate at 1024x768 (Hz)	85Hz	75Hz	72Hz	75Hz
				

KEY ● Yes ○ No



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- Lotus 1-2-3 for Windows
- Lotus Ami Pro for Windows

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850Mb	£879	£1079
1.08Gb	£929	£1129
1.60Gb	£989	£1189

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P120 models	plus £50
P133 models.....	plus £100



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28.8 modem.....	plus £160
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Quad speed CD drive.....	plus £100
Six speed CD drive.....	plus £150
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15" .28dp NI screen upg.....	plus £110
17" NI screen upgrade.....	plus £340
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Microsoft Office Pro 95.....	plus £199

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PC User

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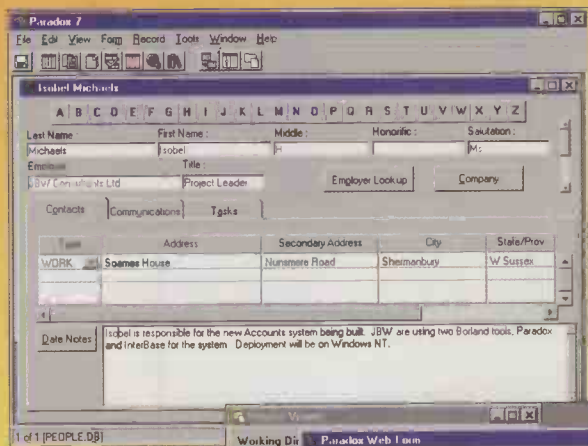
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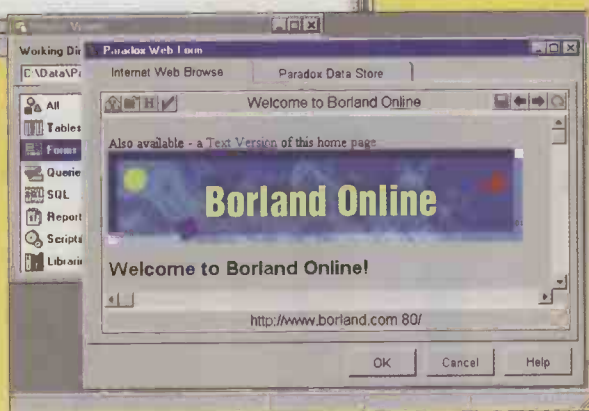
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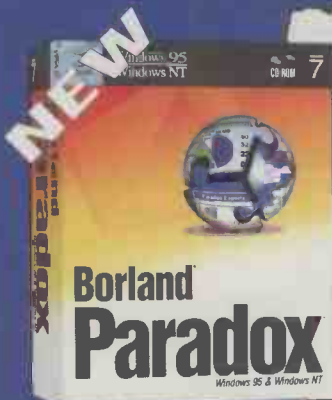
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Suite & savoury



There are just two contenders in the software suite market — MS Office and Lotus SmartSuite. Ben Tisdall supervises the clash of the office titans, looking at their attention to detail and the integration between components.

another is still to cut and paste. Yes, you can embed an OLE object from Excel into a Word document, but even using the fast PC that we tested these applications on, (16Mb memory, 120MHz Pentium) it's a slow and rather unwieldy process, and one, I suspect, that very few people use.

The great and the good

When we last looked at software suites, in June 94, there were four contenders. Since then, two of them — CA-Simply Business from Computer Associates and WordPerfect Office — have fallen out of the picture. Both products were effectively killed off by Microsoft.

Developing and maintaining a software suite is a hugely expensive process. As Microsoft has between 80 and 90 percent of the market, and Lotus accounts for most of the rest, it just hasn't proved economically viable for Computer Associates or Novell (the buyers of WordPerfect) to continue development.

That leaves just two contenders: Microsoft Office and Lotus SmartSuite. At the launch of Windows 95 in August, Microsoft launched Office 95. A few months later, SmartSuite appeared on the scene. Here we pitch the two products head to head.

They both have enough spellcheckers, table editors and templates to sink a small battleship. What we'll concentrate on in this review is not the many features, which you can take for granted, but the attention to detail and integration between components. These are ultimately what separate the great from the good.

Lotus SmartSuite

Lotus became successful by producing the first killer application for the PC. Lotus 1-2-3 wasn't the first spreadsheet, but it was the fastest and the best.

Over the years, Lotus added to 1-2-3, mainly by acquisition. Its word processor, AmiPro, was bought in from Samna, developed and then renamed WordPro, as was Organizer (from a small British company, Threadz) and Approach, its database package.

A full install of SmartSuite gobbles 150Mb of disk space. Even a minimum

Just a few years ago, you bought word processors, spreadsheets and databases from different manufacturers. In the days of DOS, it wasn't unusual to buy WordPerfect as a word processor, Lotus 1-2-3 for spreadsheeting and dBase for your database work. Three entirely separate products, each with different interfaces and file formats. Then Microsoft hit on the bright idea of marketing its products together.

Initially the "suites", as they became known, were merely collections of disparate products, packaged in the same box. Gradually, once again led by Microsoft, the manufacturers began to work on integrating their products more thoroughly into a coherent package.

The integration has happened on several fronts. Structure, menus, look and feel are more similar across products. Code used for utilities such as spellcheckers is shared between the various components; and moving data across components is easier.

The components of the latest suites look and feel the same — so much so that it's sometimes easy to forget you're using Excel rather than, say, Word. But integration between the components is still at a pretty crude level.

The easiest way to transfer information from one application to

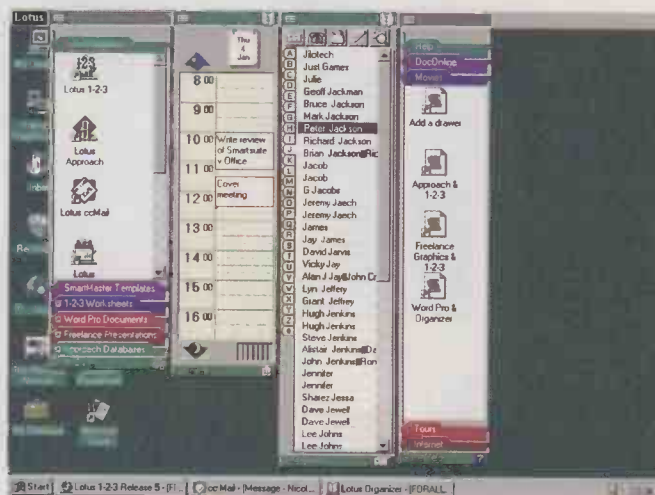


Fig 1 The folder drawer, calendar drawer, address drawer and suite answers drawer all drop down from above, producing some interesting sound effects as they do so. The address and calendar sections use your existing organiser file

install 74Mb. The default installation also installs the SmartCenter cabinet.

This is Lotus's big push towards integration. It consists of a Windows 95-style bar which can be anchored to the top or bottom of the screen. By default it has four main components (Fig 1) but can be fully customised.

The address list gives you access to

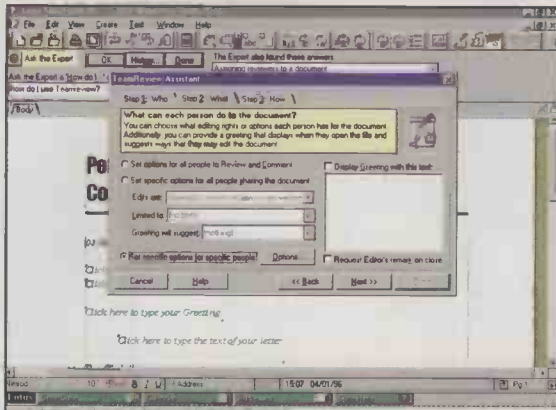


Fig 2 SmartSuite concentrates heavily on letting people work collaboratively on documents

all the numbers and addresses in a Lotus organiser database and is a quick and easy way of looking up numbers. A name and address file can be shared between members of a team. SmartSuite has also added SuiteStart; a bar containing quick launch icons for the various applications which is added to the Windows 95 start bar. Lotus has majored on team working. It conducted research into how people work and discovered that 63 percent of documents require input or feedback from others and 46 percent of the time spent preparing business information is devoted to collecting input and feedback.

TeamMail, for instance, is designed to let you send email from within any component. Unfortunately, there are a number of inconsistencies between the various components. The interface within WordPro, even when working with Lotus's own ccMail email package, is slightly different from the one within Lotus 1-2-3.

TeamReview, now built into Word Pro and Freelance, but not yet into 1-2-3, lets you set up the who, what and how of sharing documents or presentations. Once the documents have been created, TeamConsolidate is there to bring them together. Again, it's not yet in the spreadsheet.

Lotus says it has

improved the consistency of menus between different SmartSuite components. But as you can see from our screenshots (Figs 2 & 3) they have some way to go to match Microsoft's level of integration.

Generally speaking, simple customisation of Lotus applications is less straightforward than with the Microsoft equivalents. It means going to user setup under the file menu. You can then drag buttons to the bar displayed in the dialogue box. In the Microsoft apps you simply right click on the tool bar at the top of the screen and then drag buttons from the dialogue box straight to the tool bar at the top of the screen — a more intuitive and quicker process.

For advanced customisation, Lotus has introduced LotusScript, a common BASIC programming language, across all components. The SmartSuite 96 feature set is available as common objects which can be used and reused to build custom applications.

A LotusScript Editor ships with the product. It proofs and formats code for correct syntax to make programming with

it an easier task. A step by step view of programming execution helps with debugging.

But it's with the help utility

that Lotus has made serious progress. Word Pro has introduced a feature called "Ask the Expert". Microsoft's has an equivalent, the Answer Wizard, but it has to be pulled up on-screen in a dialogue box. Ask

the Expert stays on screen roughly where you normally find the Microsoft Tip Wizard. Where the Tip Wizard churns out tips at random, you can "Ask The Expert" anything you like just by entering words in English, followed by a question mark. I found it quick and easy to use but so far it's only in WordPro.

The components in brief

● Lotus 1-2-3

The full 32-bit version of 1-2-3 is still under construction so version 5, which ships with SmartSuite 95, is a step or two behind the other apps and lacks new features such as "Ask The Expert".

It comes with a huge range of templates called Smartmasters, covering everything from creating a territorial sales plan to managing your personal budget. Sadly, none of these have been customised for the UK although you can, of course, create your own.

Otherwise, 1-2-3 has all the items that power spreadsheet users have come to expect: a plethora of formulas, tabbed worksheets, in-cell editing and a feature to copy one range's style to another. This

L Four piece suite

Experts can skip over this, but for PC novices it's worth running through the core software components:

- Word processor — Where you write letters and reports or even produce a simple newsletter. Word and Word Pro both have advanced features like outliners, table editors and facilities for adding up columns of figures.
- Spreadsheet — An electronic version of an old-fashioned ledger. Ideally suited for balance sheets, sales figures and the like but useful for lists as well. They now include excellent graphing and charting facilities.
- Presentation graphics — Traditionally used for producing overhead transparencies of bullet points and pie charts. 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.
- Database — At its simplest, an electronic card index. For just a few hundred names and addresses an electronic Filofax, such as Lotus's Organizer, may be more appropriate. But for more sophisticated applications such as 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 office environments you're more likely to use a database application that somebody else has written for you.

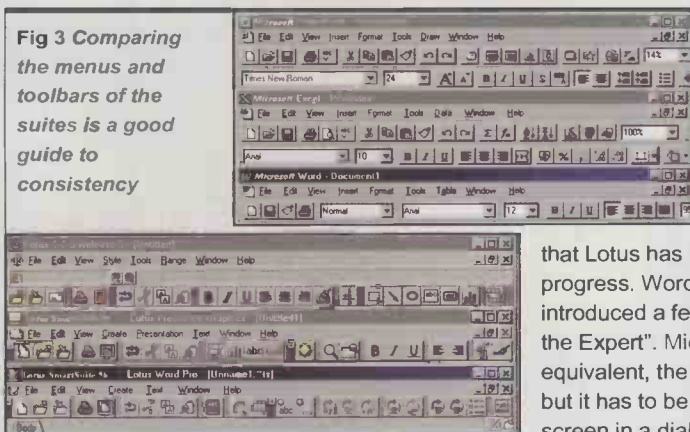


Fig 3 Comparing the menus and toolbars of the suites is a good guide to consistency

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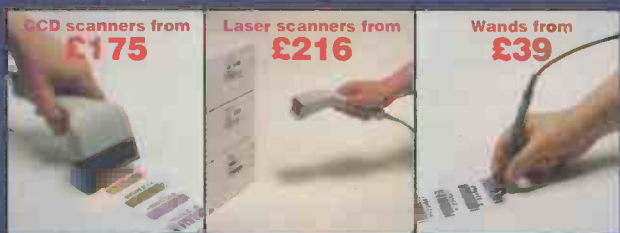


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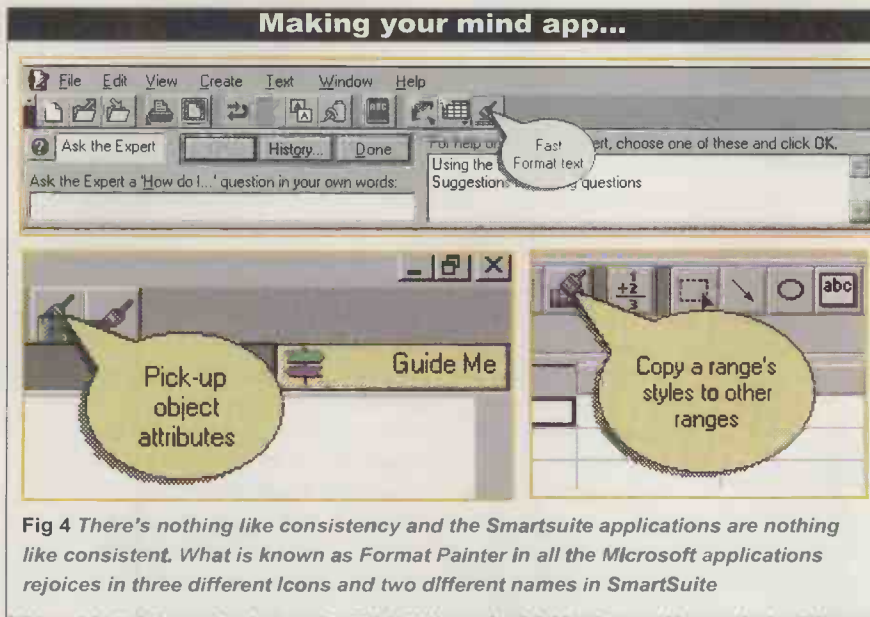


Fig 4 There's nothing like consistency and the Smartsuite applications are nothing like consistent. What is known as Format Painter in all the Microsoft applications rejoices in three different icons and two different names in SmartSuite

idea was first dreamt up by the Microsoft PowerPoint development team, and is now found almost everywhere.

● Word Pro

Again, fairly bristling with all the features people have now come to expect from a modern major word processor. WordPro includes all the standard formatting features and then some. One of its main innovations is the ability to cycle through options for typeface, font size, alignment, bullets and numbering.

WordPro has a decent spellchecker, but lacks the Intellisense feature about which Microsoft makes such a song and dance. Rather begrudgingly I have to admit to liking the on-the-fly spell-checking of Word 7. It picks up typos and spelling mistakes and means I no longer need to bother running the spellchecker.

File filters used to be awful, but Microsoft now makes the Word file format freely available and the Word import filter in Word Pro is now flawless.

● Freelance

Freelance is a highly capable presentation graphics program. Back in September 94, we reviewed 16 of the DOS and Windows presentation packages then available and Freelance came out top. Eighteen months down the line, it still deserves top spot.

Research shows that most people use presentation graphics programs less often than word processors and spreadsheets so Lotus has set out to automate, as much as possible, the process of putting together a presentation. In Freelance, this means

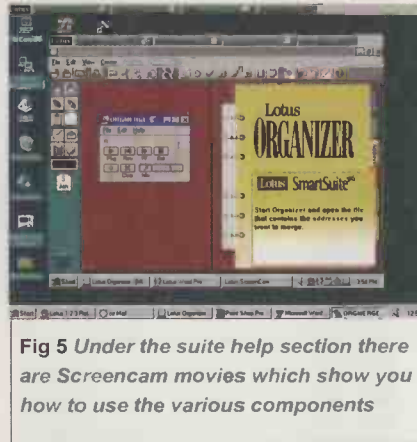


Fig 5 Under the suite help section there are Screencam movies which show you how to use the various components

over 30 SmartMaster templates which can be given any one of 25 different looks and colour schemes, plus plenty of clip-art. However, as with all the SmartSuite applications, there are some inconsistencies between the icons. For example, the fast format icon (format painter in MS-speak) is completely different in Freelance from the one in WordPro (Fig 4).

● Approach

A genuinely easy-to-use database. But programmability is limited and there's insufficient guidance on design principles. Not suitable for large or complex projects. For a full review see *PCW*, November 95.

● Organizer

Organizer, used in the *PCW* office, has matured into an excellent address and contacts book. It's far less buggy than it used to be, but still remains more prone to odd problems and glitches than it ought to be.

● ScreenCam (Fig 5)

ScreenCam is a simple, easy-to-use utility for creating and distributing screen movies. Demo movies supplied with SmartSuite are in ScreenCam format.

Conclusion

Lotus is trying hard with SmartSuite, and the Win 95 version is a big improvement. Sadly, what it's done won't be enough to tempt Microsoft Office users. The product is just too different from the Office products, which means a period of low productivity and frustration for anyone planning to move over. It's also a strong disincentive to mix and match best of breed applications. Frankly, Lotus's strategy is all wrong. It's reminiscent of the days when every car had its indicators and switch gear in a different place and french ones had peculiar gear sticks which took a bit of getting used to.

Lotus needs to accept that the way Microsoft applications look is the standard for now. Then it can concentrate on making most of SmartSuite as much like Office as possible. It can differentiate the product by doing great templates, neat things with team computing and by integrating with Notes better than Microsoft could ever hope to.

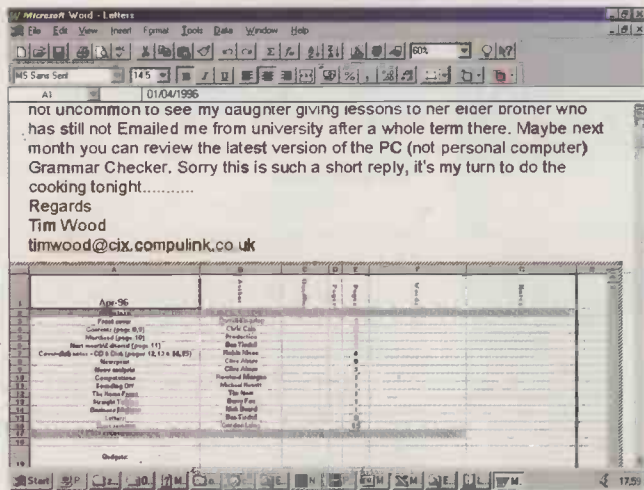
In the meantime, Lotus needs to work much harder on consistency. SmartSuite suffers from tool-bar button proliferation as it is. The least Lotus can do is to make sure that each component product uses the same buttons for the same functions.

MS Office

Microsoft's path to domination of the business software market began with Windows. While it's rivals stuck with DOS, or developed for OS/2 (the operating system then widely expected to replace DOS), Microsoft produced first Excel (which was never available as a DOS program) and then Word for Windows. It later bought in Powerpoint and, after a long delay, added Access to complete its suite.

A full install of Microsoft Office Standard (which excludes MS Access) takes 89Mb, but a compact install squeezes into 28Mb. One irritation worth singling out is that once you've installed the product from the CD, you must make any changes to your installation from the same CD-drive on the same path — annoying if you're on a network.

The default install includes the Office Binder. This allows you to create a single file containing a mixture of different types of document, such as worksheets,



You can embed an Excel object in a Word document but even on a 16Mb Pentium it's a slow and unwieldy process

calculator will tot up any highlighted area of cells. It was added in response to the number of spreadsheet users who still keep a calculator to hand.

documents and presentations. Although we use MS Office at PCW, the binder has not caught on — no-one is currently using it, and most people couldn't remember what it was.

Where Lotus puts the emphasis on team working, Microsoft concentrates on what it calls "intellisense". Microsoft research discovered that 94 percent of users use spellcheckers, so its response was to include technology to spell check as you type. If you type something that Word doesn't recognise, it places a red wiggly line underneath it. You can correct it yourself, right click the word to spell check it, or add it to the dictionary.

In Word there is now some auto-formatting. For example, if you type an asterisk followed by a word and some text, the program will automatically insert a bullet point. Type "1 forward slash 2" and Word will automatically convert it into a 1/2.

Under Office 7 you can share files. Under Excel you go to File Shared Lists and enable multi-user editing. On PCW we quickly tired of its strange anomalies. For example, you cannot re-format the text in a shared file, range it left, or even centre it.

The components in brief

● Excel 7

Excel revolutionised spreadsheeting when it first appeared. Hitherto, spreadsheets had concentrated on adding more and more functions. Excel made spreadsheets look better with DTP-style formatting and font control.

Many features have been added since and most, such as Autosum, edit in place and tabs to switch between worksheets are now standard in all the main spreadsheets packages.

The latest release, Excel 7, adds a few innovations of its own. The scratch

Another detail in the same vein is a box which pops up when you scroll through large spreadsheets, telling you which row or column number you've reached. This was produced in response to the number of people who complained that they were getting lost in large worksheets.

● Word

Word has become almost the industry standard for word-processing. It tends to be Word for Windows skills that are required in secretarial temps.

The stand-out features of Word 7 are the intellisense features already described, now far more refined than in Word 6. For example, the previous version had the annoying habit of capping down acronyms — if you typed in "PC", Word 6 would turn it into "Pc". This has now been fixed. Microsoft has also sorted out the file dialogue box in this release and added an improved Internet Assistant. Templates have had a face lift too. Printing under Word now has its own thread, which means your system is tied up for a minimal amount of time.

● PowerPoint

Like Freelance, Powerpoint is a highly-automated graphics program. The Wizard now present in most Microsoft software reaches new heights in Powerpoint. The auto content Wizard doesn't quite cook your breakfast and pour the coffee, but it does check that the language you've used in a presentation is suitable for your audience. There's also a feature to scan your text for key words and suggest suitable clip-art.

● Access

The latest version is now much easier for beginners, but also has more to offer power users. It is slow and resource hungry though, and is the only

application reviewed here that won't even run in 8Mb of memory. For a full review see PCW February.

● Schedule Plus

This utility, formerly part of the ill-fated Windows for Workgroups, has most of the features of Lotus Organizer, including a contact manager but with none of the appeal. It is faster though.

Conclusion

For better or worse, Microsoft now dominates the suite market. Office 95 does enough to hang on to its lead. Its biggest fault is its greed for processor power and, above all, memory. Don't even think about using this product in less than 16Mb of memory, and a DX2/66MHz processor is the bare minimum. But if you have the horsepower you'll probably like Microsoft Office. Annoying rough edges are getting rarer and the consistency between applications leaves Lotus SmartSuite standing.

Office vs SmartSuite

Head to head ratings

App by app

Excel	●●●●	1-2-3	●●●●
Word	●●●●	WordPro	●●●○
Powerpoint	●●●○	Freelance	●●●●
Access	●●●●	Approach	●●○○
Schedule Plus	●●○○	Organizer	●●●●

Integration

MS Office	●●●●	SmartSuite	●●○○
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Overall

MS Office	●●●●	SmartSuite	●●●○
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PCW Details

System requirements

Both suites state that 8Mb is the minimum memory requirement. In practice, to run more than one application you'll need 12Mb and to run the suites as they're intended, 16Mb memory and a DX/2 66MHz, or better, processor.

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 Fax 01784 469342. Web www.lotus.com

Microsoft Office

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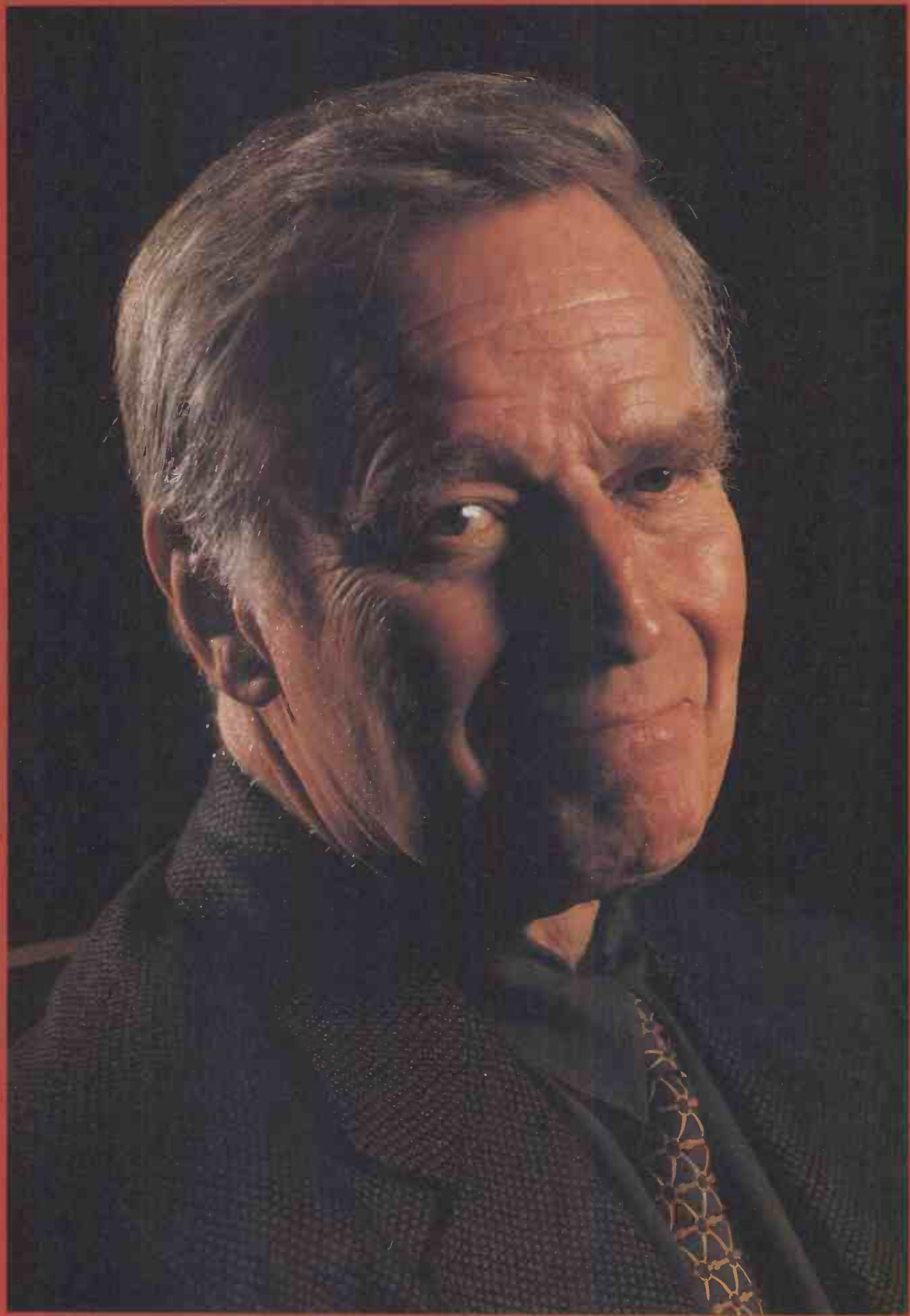
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Holy Roller

Who could be better qualified to be at the helm of a CD-ROM about the Bible than Charlton Heston — the archetypal Biblical epic star. Michael Hewitt meets the man and hears the Good News.

PCW Charlton Heston Photography by John Millar

I met the man himself over a glass of wine and canapés, in GT's offices on the Marylebone Road. We talked about the *Voyage Through the Bible*, technology and life in general... at least, as much of it as we could cram into my allotted 15 minutes. He had a pressing appointment with Kenneth Branagh later in the afternoon, and chatting to someone from PCW took second place. Anyhow, the first question concerned the CD: what, to use a luvvie term, was his motivation?

"A few years ago, I realised that the Bible would make excellent material for a TV series," he said. "So I approached the TV people with a view to doing a personal documentary. This was almost unique among the projects I've done in my life in that everyone we went to said 'What a great idea!'"

A great idea because Charlton Heston came up with it, I suggested. Maybe a concept such as *Quentin Tarantino's Voyage Through the Bible* wouldn't have got them quite so excited? "I am perhaps better equipped to it than most," he agreed. "But it is a marvellous idea, nonetheless. An even better idea for a CD-ROM."



Where did that idea come from? "I'd heard Stephen Spielberg predict that CD-ROM is the future of the moving image. Within two years, I believe the PC and the television set will be one unit. So when one of our people on the film unit suggested we bring out a CD-ROM of *Voyages Through the Bible*, I was all for it."

Some people complain that transferring the Bible to CD-ROM risks trivialising it, I said, turning it into little more than a computer game. Naturally enough, he disagreed.

"That's like saying if you make a movie of Hamlet (which incidentally, Ken Branagh is doing, and I'm going to be in it) that trivialises Shakespeare's text. No.

I think one of the unusual things that a CD-ROM does is to treat the Bible — or at least, the stories that I have chosen to relive from both Testaments — as stories. And that's how they began. People were telling those stories around campfires before the Phoenicians had even invented writing. Then they were set down in written form. Therefore, a CD-ROM is just getting the word of God across more easily in another format. First, there was oral tradition, then written, and now we have CD-ROM. It is just another natural development."

When did he first come across the technology? "Curiously enough, my wife introduced me to it. My wife is a photographer. For our 50th wedding anniversary (obviously a big anniversary) I said: 'What do you want, honey? A diamond necklace?' She said: 'I want digital equipment for my darkroom.'

"It turns out a diamond necklace would have been cheaper. But I bought her a PC with a CD-ROM drive. Now she stores all her photographic negatives on the disc and manipulates the images on-screen. It's amazing: she's able to do so much more in terms of processing than she ever could before. Indeed, she



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seldom does much conventional work in her darkroom now."

Heston himself has also become a convert to computer technology. His last two books were written using an IBM PC. Is he likely to go all the way and start surfing the Net? "No, I'll stick to word processing. People say to me: 'Boy, don't you want to get on the Internet?' But I reply: 'I spend half my life talking to strangers. So why should I want to go online and search out some guy in, say, Lisbon whom I've never met?'"

How is technology in the film industry going to affect his own job? "It already is. Take editing, for example. Twenty years ago you sat over a Moviola. You had to

pull sequences together from hundreds of printed takes, set up on racks. It could take a full half day just to edit one scene. Today, the computer has revolutionised all this. Now all printed takes are transferred to a single computer disk stored in memory. The director sits in front of a video screen and can call them up instantly. What used to take days now only takes hours."

He'd been quoted as saying that epics along the lines of *El Cid* and *Ben Hur* would be impossibly expensive to produce nowadays. But might not digital technology mean you could do away with costly location shooting and a cast of thousands?

"Currently, no. Digitally, I'm sure you could turn 1,000 extras into the 8,000 we used on *El Cid*. But you couldn't really have them all besieging Valencia. You still need something to photograph. Of course, if we want to look far enough ahead, it may be that in ten or 20 years (when I won't have to worry about it) all the sets will be created by computer; in fact, everything except the actors with speaking parts. They'll be filmed against a neutral background and then dropped in electronically."

Might it not also be possible to create the actors digitally? "It might indeed. And then I'll be out of a job. So let's hope that's way off in the future."

Charlton Heston's Voyage Through the Bible: The New Testament

Click on the start-up icon. Cue stirring, epic music. The screen opens with an aerial view of Jerusalem circa 100AD, orbits the walls, and then zooms in to a 3D graphic of the Second Temple. "I'm Charlton Heston," intones the voice-over "I'm not a priest, or a scholar. I'm an actor. I tell stories. I want to take you on an odyssey. On the way, I'll tell you some of the oldest, greatest stories on earth — the stories of the Bible."

This has got to be one of the best-produced CD-ROMs I've seen in a long time, which isn't surprising given the money and people behind it. The whole venture was originally conceived by Charlton Heston as a documentary for cable TV. This CD-ROM marries 20 minutes of live-action footage from the series with new, specially created material. There are digital reconstructions of ancient buildings, 100 masterpieces of art, excerpts from famous orchestral masterpieces, and Heston's narration.

When you install the program, a version of Apple's QuickTime for Windows is installed at the same time. You'll need at least 8Mb of RAM, though 16 is preferable. Your screen must also be capable of displaying 16-bit images with upwards of 65,000 colours.

Once installed, the program is simple enough to use. If you have problems, click on "Help" and Chuck's voice tells you what and where to click. After the initial preamble and opening credits, you arrive at a start-up screen with four self-explanatory windows: Biblical

stories, Voyages around the Holy Land, Jerusalem, and Art and Music.

Select Voyages, for example, and you get a map of ancient Palestine, divided up into Galilee, Samaria, and Judaea. Select any one of these, and you're presented with a larger scale map scattered with jar and column icons.

Clicking on a jar brings up a description of one of Jesus' miracles, plus a graphic. Click on a column, and you get a video of Heston emoting on the subject and describing the

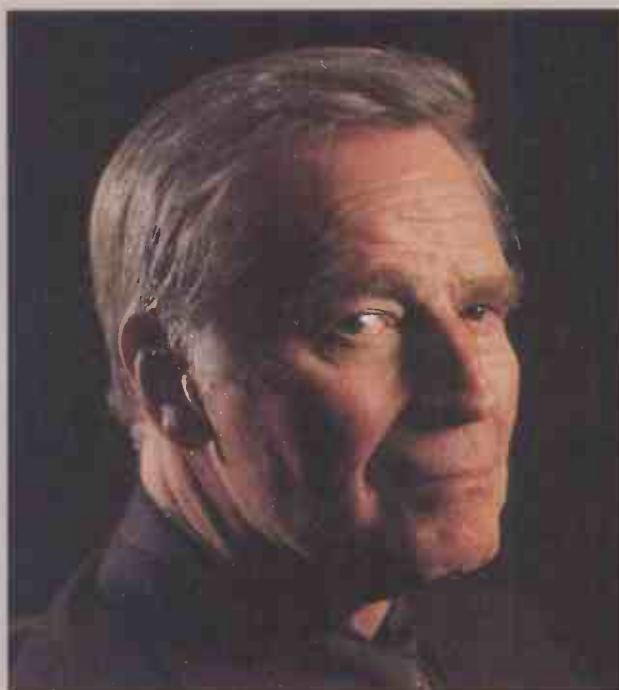
the program automatically creates a Link menu. So, for instance, on exiting the story of how Jesus recruited his disciples, you can click on the Art window, and Heston narrates a short documentary about how artists through the ages have depicted the apostles. Or click on Text, and you can read the corresponding New Testament verses.

Actually, the Biblical text element is the only disappointment here. It's not nearly comprehensive enough — I was expecting the whole of the New Testament. Nor, as in a program such as the DOS-based "Multimedia Bible", can you type in a keyword and bring up all the Biblical verses containing that word. Therefore as a scholarly concordance, it isn't much cop. Probably a minor oversight, though.

The graphics and video, which, after all, are what a CD-ROM is really all about, are superb. One of my favourites has got to be the 3D reconstruction of the Second Temple — an interactive walking tour reminiscent of *Doom*. As you enter the courtyard, you half expect to be able to zap moneychangers or score points for knocking off Pharisees.

At a recommended retail price of £39.99, "Voyage Through the Bible" is an excellent buy. If you're at all religious, it provides a wealth of background detail — and even if you're not, it's an excellent historical reference tool in its own right. In the first quarter of 1996, the Old Testament will be out.

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setting and historical background. Sometimes he's a bit OTT, but then he is noted for getting very passionate about all things religious.

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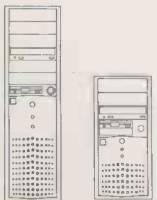
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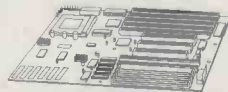


Midi-tower case is the most popular and features 8 drive bays (three 5.25" accessible, two 3.5" accessible and three 3.5" internal)

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- 64-bit PCI graphics card with 2Mb Video RAM, optimised for Windows 95
- 14" NI .28dp low radiation SVGA colour screen
- Intel socket 7 and advanced 'Plug & Play' motherboard
- Intel Triton chipset with support for Flash BIOS and EDO RAM
- Fast PCI enhanced IDE mode 4 hard disk controller can handle up to 4 drives
- 3 PCI and 4 ISA expansion slots
- 2 16550 compatible UART driven high speed serial ports
- EPP and ECP capable enhanced bidirectional parallel printer port
- 16-bit stereo sound card
- 3.5" 1.44Mb floppy drive
- Colossus 7 bay desktop case with 210W CE approved power supply and CPU cooling fan
- 102 keyboard & Microsoft compatible serial mouse
- 4w Stereo speaker system (various options available)
- Microsoft Windows 95 with manuals
- Selected Lotus software titles including Lotus 1-2-3, Ami Pro, Approach, Organizer & Smartpics
- Quicken v4 personal finance pack
- Novell PerfectOffice is not included with this system
- 4 CD multimedia titles (see bottom of page)

Built with 16Mb RAM

For optimum performance in Windows 95, you need 16Mb RAM. Six out of eight of our 'best buy' systems now include 16Mb or more RAM as standard. On 8Mb Windows 95 systems, increasing the RAM to 16Mb is the single most important factor that will increase real-life performance and productivity.



Unique Sound Capability

All our multimedia systems feature high quality 16-bit sound with low noise to signal ratio. System 96 features the latest WaveTable PnP 'NuSound' sound card from Orchid with the following features

- Hardware wave table synthesis and MIDI support
- 3D Spatializer audio technology giving 'Surround Sound'
- 1Mb Wave table in compressed ROM (forget 512K wave table sound cards)
- Up to 32 simultaneous voices, 190 instrument sounds and voice recognition
- 5 sound channels (4 stereo and 1 mono)
- Fully Plug & Play compliant with CD quality sound compatible with Soundblaster, MPC II/III, Roland MT-32 and MPU-401
- Speakers may be upgraded to 15W for £20 or 70W for £50

Fast 28.8 Modems



Most of our systems come with high performance 14.4 or 28.8 modems with associated fax, data comms and Internet software.

High Capacity Storage

- Hard Disks: All our systems feature the latest enhanced IDE hard disks with on board cache. Capacities are available from 850Mb to 2.0Gb. The performance of these drives when linked to the E IDE controller on our motherboards is comparable to SCSI II based systems.
- CD ROM: All systems feature a fast IDE quad, six or eight speed CD-ROM drive with data transfer rate approaching 1200Kb/sec.
- System 96 PI 50 models come with 3.2Gb tape back-up as standard.

Top Quality Business Software

We offer a range of top quality business software from Novell which includes Novell PerfectOffice which may be pre-loaded or supplied on CD

- WordPerfect Wordprocessing Package
- Quattro Pro for Windows Spreadsheet
- Presentations Graphics package
- Envoy Document System
- Infocentral Organizer
- Groupwise Electronic Mailing System

Colossus PI33 Multimedia Desktop

£1399

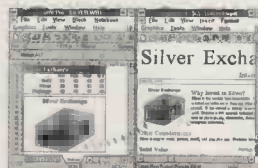
- Intel 133MHz Pentium® processor
- 16Mb RAM expandable to 128Mb
- 1.08Gb enhanced IDE hard disk with 256K cache
- Quad speed IDE CD-ROM drive
- 256K Pipeline Burst Mode CPU cache
- 14" NI .28dp low radiation SVGA colour screen
- Intel socket 7 and advanced 'Plug & Play' motherboard
- Support for Flash BIOS and EDO RAM
- Fast PCI enhanced IDE mode 4 hard disk controller can handle up to 4 drives
- 3 free PCI and 4 ISA expansion slots
- Two 16550 compatible UART driven high speed serial ports
- EPP and ECP capable enhanced bidirectional parallel printer port
- 16-bit stereo soundcard
- 64-bit PCI integrated graphics optimised for Windows 95
- 3.5" 1.44Mb floppy drive
- Colossus 7 bay desktop case with 210W CE approved power supply and CPU cooling fan
- 102 keyboard & Microsoft compatible serial mouse
- 4w Stereo speaker system (various options available)
- Microsoft Windows 95 with manuals
- Selected Lotus software titles including Lotus 1-2-3, Ami Pro, Approach, Organizer & Smartpics
- Quicken v4 personal finance pack
- Novell PerfectOffice CD with 6 leading applications including WordPerfect
- 8 CD multimedia titles (see bottom of page)

Some systems also include other programs including Lotus 1-2-3 spreadsheet, Lotus Approach database, Lotus SmartPics clipart and Quicken v4 finance pack.

Superb Leisure/Multimedia Software

In order you may enjoy the multimedia capabilities of these systems immediately, we include a range of multimedia CDs which include

- Wintutor 95 multimedia tutorial
- Infopaedia full-feature encyclopaedia
- Multimedia version of World Atlas
- BodyWorks 4 Educational/Medical Package
- French, German & Spanish Language tutor



Business software from Novell



Multimedia CDs including Bodyworks

Colossus PI20 Multimedia MT

£1699

- Intel 120MHz Pentium® processor
- 16Mb RAM expandable to 128Mb
- 1.60Gb enhanced IDE hard disk with 256K cache
- Six speed IDE CD-ROM drive
- BAPT approved 28.8 fax/data/Internet modem
- 256K fast external CPU cache
- 64-bit PCI graphics with 2Mb Video RAM, optimised for Windows 95
- 15" NI .28dp low radiation SVGA colour screen
(other options available)
- Intel socket 7 and advanced 'Plug & Play' motherboard
- Intel Triton chipset with support for Flash BIOS and EDO RAM
- Fast PCI enhanced IDE mode 4 hard disk controller can handle up to 4 drives
- 3 PCI and 4 ISA expansion slots
- 2 16550 compatible UART driven high speed serial ports
- EPP and ECP capable enhanced bidirectional parallel printer port
- 16-bit stereo sound card
- 3.5" 1.44Mb floppy drive
- Colossus 8 bay mid-tower case with 210W CE approved power supply and CPU cooling fan
- 102 keyboard & Microsoft compatible serial mouse
- 4w stereo speaker system (various options available)
- Microsoft Windows 95 with manuals
- Selected Lotus software titles including Lotus 1-2-3, Approach & SmartPics
- Quicken v4 personal finance pack
- Novell PerfectOffice CD with 6 leading applications including WordPerfect
- 8 CD multimedia titles (see bottom of previous page)

Colossus PI33 System 96

£2099



- Intel 133MHz Pentium® processor
- 16Mb EDO RAM expandable to 128Mb
- 2.0Gb enhanced IDE hard disk with 256K cache
- Six speed IDE CD-ROM drive
- BAPT approved 28.8 fax/data/Internet modem
- 256K pipeline burst mode external CPU cache
- 64-bit PCI graphics with 2Mb 'VRAM' Video RAM, Software MPEG, optimised for Windows 95
- Orchid NuSound Plug & Play Waveable 3D sound card
- 15" NI .28dp low radiation SVGA colour screen
(other options available)
- Intel socket 7 and advanced 'Plug & Play' motherboard
- Intel Triton chipset with support for Flash BIOS and EDO RAM
- Fast PCI enhanced IDE mode 4 hard disk controller can handle up to 4 drives
- 3 PCI and 4 ISA expansion slots
- 2 16550 compatible UART driven high speed serial ports
- EPP and ECP capable enhanced bidirectional parallel printer port
- 3.5" 1.44Mb floppy drive
- Colossus 8 bay mid-tower case with 210W CE approved power supply and CPU cooling fan
- 102 keyboard & Microsoft compatible serial mouse
- Powerful 70w stereo speaker system
- Microsoft Windows 95 with manuals
- Selected Lotus software titles including Lotus 1-2-3, Approach & SmartPics
- Quicken v4 personal finance pack
- Novell PerfectOffice CD with 6 leading applications including WordPerfect
- 8 CD multimedia titles (see bottom of previous page)

Built to your requirements

If none of our money saving 'best buy' models listed here matches your desired specification, you can instruct us to build a performance multimedia system by using the 6 step procedure listed below.

Colossus SBF Multimedia Systems

To specify the Colossus Specifically built and formulated (SBF) multimedia system to your requirements, simply follow the following procedure.

1. Select the Case / Motherboard / Graphics / Base RAM

- Desktop 486 PCI board, 1Mb PCI Graphics, 256K cache, 4Mb RAM £329
- Desktop Pentium PCI board with 64-bit int. graphics, 8Mb RAM £369
- Midi-Tower Pentium PCI board with 64-bit int. graphics, 256K cache, 8Mb RAM £399
- Desktop Pentium PCI Triton board with 1Mb DRAM, 256K pipeline burst mode cache, 8Mb EDO RAM £479
- Midi-tower Pentium PCI Triton board with 2Mb VRAM, soft MPEG, 256K Burst mode cache, 8Mb EDO RAM £629
- Full-tower Pentium PCI Triton board with 4Mb VRAM, soft MPEG, 256K Burst mode cache, 16Mb EDO RAM £1079

The base units include keyboard, mouse, 1.44Mb floppy drive, parallel and serial ports etc.

2. Select the Processor

For 486 board	
• 486DX2-66	£30
• 486DX4-100	£50
For Pentium boards	
• Intel 75MHz Pentium	£90
• Intel 100MHz Pentium	£160
• Intel 120MHz Pentium	£210
• Intel 133MHz Pentium	£260
• Intel 150MHz Pentium	£360
• Intel 166MHz Pentium	£510
3. Select the Hard Disk	
• 850Mb IDE	£130
• 1.08Gb IDE	£180
• 1.6Gb IDE	£240
• 2.0Gb IDE	£300
4. Select the Screen	
• 14" .28dp SVGA NI	£160
• 15" .28dp SVGA NI	£230
• 17" .28dp SVGA NI	£460
5. Select Multimedia Options	
• Quad Speed IDE	£100

• Six Speed IDE	£150
• Eight Speed IDE	£Call
• 16-bit sound card	£40
• Orchid NuSound sound card	£100
• 4W Stereo Speakers	£10
• 15W Stereo Speakers	£30
• 70W Stereo Speakers	£70
• PC Microphone	£10
• PC Joystick	£10
6. Select Software & Other Options	
• MS Windows 95	£60
• MS DOS 6.22 & Windows for Workgroups 3.11	£60
• 14.4 BAPT modem	£80
• 28.8 BAPT modem	£160
• 16-bit Ethernet card	£40
• RAM upgrade per 4Mb	£100
• EDO RAM upgrade per 4Mb	£120
• 800Mb Tape back-up	£150
• 3.2Gb Tape back-up	£220
• PCTV card with Teletext	£160

Colossus PI 50 System 96

£2699



- Intel 150MHz Pentium® processor
- 16Mb EDO RAM expandable to 128Mb
- 2.0Gb enhanced IDE hard disk with 256K cache
- Six speed IDE CD-ROM drive
- BABT approved 28.8 fax/data/Internet modem
- 256K pipeline burst mode external CPU cache
- 64-bit PCI graphics with 4Mb 'VRAM' Video RAM, Software MPEG, optimised for Windows 95
- Orchid NuSound Plug & Play Waveable 3D sound card
- Advanced PCTV system with Teletext
- 3.2Gb Tape back-up system
- 15" NI .28dp low radiation SVGA colour screen (other options available)
- Intel socket 7 and advanced 'Plug & Play' motherboard
- Intel Triton chipset with support for Flash BIOS and EDO RAM
- Fast PCI enhanced IDE mode 4 hard disk controller can handle up to 4 drives
- 3 PCI and 4 ISA expansion slots
- 2 16550 compatible UART driven high speed serial ports
- EPP and ECP capable enhanced bidirectional parallel printer port
- 3.5" 1.44Mb floppy drive
- Colossus 9 bay full-tower case with 230W CE approved power supply and CPU cooling fan
- 102 keyboard & Microsoft compatible serial mouse
- Powerful 70w stereo speaker system
- Microsoft Windows 95 with manuals
- Selected Lotus software titles including Lotus 1-2-3, Approach & SmartPics
- Quicken v4 personal finance pack
- Novell PerfectOffice CD with 6 leading applications including WordPerfect
- 8 CD multimedia titles (see bottom of previous page)

Colossus PI 66 System 96

£2999



- Intel 166Mhz Pentium® processor
- 32Mb EDO RAM expandable to 128Mb
- 2.0Gb enhanced IDE hard drive with 256K cache
- Eight speed IDE CD-ROM drive
- BABT approved 28.8 fax/data/Internet modem
- 256K pipeline burst mode external CPU cache
- 64-bit PCI graphics with 4Mb 'VRAM' Video RAM, Software MPEG, optimised for Windows 95
- Orchid NuSound Plug & Play Waveable 3D sound card
- 15" NI .28dp low radiation SVGA colour screen (other options available)
- Intel socket 7 and advanced 'Plug & Play' motherboard
- Intel Triton chipset with support for Flash BIOS and EDO RAM
- Fast PCI enhanced IDE mode 4 hard disk controller can handle up to 4 drives.
- 3 PCI and 4 ISA expansion slots
- 2 16550 compatible UART driven high speed serial ports
- EPP and ECP capable enhanced bidirectional parallel printer port
- 3.5" 1.44Mb floppy drive
- Colossus 9 bay full-tower case with 230W CE approved power supply and CPU cooling fan
- 102 keyboard & Microsoft compatible serial mouse
- Powerful 70W stereo speaker system
- PC Joystick and Microphone
- Microsoft Windows 95 with manuals
- Selected Lotus software titles including Lotus 1-2-3, Approach & SmartPics
- Quicken v4 personal finance pack
- Novell PerfectOffice CD with 6 leading applications including WordPerfect
- 8 CD multimedia titles (see bottom of previous page)

Built for Windows 95

'System 96 by Colossus' truly unlocks the power, compatibility and the versatility of Windows 95. These systems are built on a solid performance foundation that includes the fastest motherboards, 4Mb 'VRAM' graphics, 28.8 modems, upto 32Mb EDO RAM and Six or Eight speed multimedia with Waveable 3D sound.



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Facsimile 01 707 26 74 00

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Colossus Computer Corporation Ltd. Colossus House, Travellers Lane, Welham Green, Hertfordshire. AL9 7DA



Colossus systems may be available from Colossus Authorised Dealers with different specifications, bundled software and pricing than those shown here. All prices exclude delivery and VAT (17.5%). Delivery: Systems £19, Lasers and large items £15, software and small items £10. Visa /Access/ American Express /Switch and Government orders welcome. Prices, specifications and offers are subject to change and subject to our conditions of sale copies of which are available on request. Mail order only. No collections please. Goods are normally despatched within 7 days. All orders will be fulfilled within 28 days unless otherwise specified. Software is pre-installed, back-up CD and manuals are available as options. Intel® Inside and Pentium® processor logos are trademarks of Intel® Corporation. All trademarks are acknowledged. E&OE

Sales lines are open Monday - Friday 9.00am - 6.00pm

5COLTS/A

Colossus SBF Business Systems

Colossus Business Systems "Specifically Built and Formulated" (SBF) to your individual requirements

Colossus Value Range P75 850Mb Desktop

£809

- Intel 75 to 166MHz Pentium® Processor
- 8Mb RAM expandable to 128Mb
- 850Mb (or higher) hard disk
- SIS 'Triton performance' chipset
- Integrated 64-bit PCI graphics
- 14" SVGA .28dp screen
- 7 bay desktop case (8 bay midi-tower optional extra)
- Microsoft Windows 95 (or MSDOS 6.22 & Windows for Workgroups 3.11)

All standard features such as 1.44Mb floppy drive, 2 fast serial & parallel ports, 3 PCI & 4 ISA slots, keyboard and serial mouse.

Hard disk	850Mb	1.08Gb	1.6Gb	2.0Gb
75MHz	£809	£859	£919	£979
100MHz	£879	£929	£989	£1049
133MHz	£979	£1029	£1089	£1149
150MHz	£1079	£1129	£1189	£1249

Midi-tower models with 256K fast cache ___ +£30

Colossus Standard Range P100 850Mb Desktop

£989

- Intel 100 to 166MHz Pentium® Processor
- 8Mb EDO RAM expandable to 128Mb
- 850Mb (or higher) hard disk
- Intel Triton chipset
- 256K pipeline synchronous burst mode cache
- 64-bit PCI graphics card with 1Mb DRAM upgradeable to 2Mb
- 14" SVGA .28dp screen
- 7 bay desktop case
- Microsoft Windows 95 (or MSDOS 6.22 & Windows for Workgroups 3.11)

All standard features such as 1.44Mb floppy drive, 2 fast serial & parallel ports, 3 PCI & 4 ISA slots, keyboard and serial mouse.

Hard disk	850Mb	1.08Gb	1.6Gb	2.0Gb
100MHz	£989	£1039	£1099	£1159
133MHz	£1089	£1139	£1199	£1259
150MHz	£1189	£1239	£1299	£1359
166MHz	£1339	£1389	£1449	£1509

Video RAM upgrade to 2Mb _____ +£40

Colossus Performance Range P100 850Mb Midi-Tower

£1139

- Intel 100 to 166MHz Pentium® Processor
- 8Mb EDO RAM expandable to 128Mb
- 850Mb (or higher) hard disk
- Intel Triton chipset
- 256K Pipeline synchronous burst mode cache
- 64-bit PCI graphics card with 2Mb 'VRAM' video RAM software MPEG
- 14" SVGA .28dp screen
- 8 bay midi-tower case (9 bay full tower with 4Mb VRAM optional)
- Microsoft Windows 95 (or MSDOS 6.22 & Windows for Workgroups 3.11)

All standard features such as 1.44Mb floppy drive, 2 fast serial & parallel ports, 3 PCI & 4 ISA slots, keyboard and serial mouse.

Hard disk	850Mb	1.08Gb	1.6Gb	2.0Gb
100MHz	£1139	£1189	£1249	£1309
133MHz	£1239	£1289	£1349	£1409
150MHz	£1339	£1389	£1449	£1509
166MHz	£1489	£1539	£1599	£1659

Full tower models with 4Mb VRAM and 16Mb EDO RAM _____ +£450

System Options

- Screen upgrade to 15" _____ +£70
- Screen upgrade to 17" _____ +£300
- 16-bit Ethernet card _____ +£40
- 32-bit PCI ethernet card _____ +£100
- Adaptec 2940 PCI SCSI controller+£200
- RAM upgrade per 4Mb _____ +£100
- EDO RAM upgrade per 4Mb _____ +£120
- 800Mb tape back-up _____ +£150
- 3.2Gb tape back-up _____ +£220
- 14.4 BAPT fax/data modem _____ +£80
- 14.4 BAPT Pace Message Desk Voice modem _____ +£100
- 28.8 BAPT fax/data modem _____ +£160
- Double speed CD-ROM _____ +£50
- Quad speed CD-ROM _____ +£100
- Six speed CD-ROM _____ +£150
- 16-bit sound card _____ +£30
- Orchid NuSound PnP 1024K waveable card _____ +£100
- 4W speakers _____ +£10
- 15W speakers _____ +£30
- 70W speakers _____ +£60
- PC TV card with Teletext _____ +£160
- PerfectOffice software suite on CD _£call

Colossus Power Portables

Colossus Power Portables provide incredible computing power for users who need desktop performance in a portable package. They are designed for mobile and industrial applications that

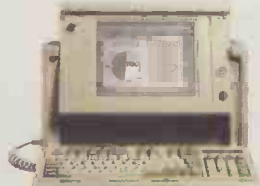
require speed, expandability, and ruggedness. The most popular uses are in network management, instrumentation, data capture, presentations and multimedia applications.



Colossus P75 CRT Colour

£1799

- Colossus CRT portable features 9" Sony SVGA colour screen
- Colossus "Lunchbox" portables feature LCD, VGA mono, STN dual scan colour or TFT colour screens
- Intel 75MHz Pentium® processor
- 8Mb RAM expandable to 128Mb
- 850Mb enhanced IDE hard disk

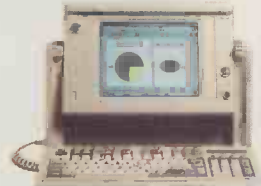


Colossus P75 LCD Mono

£1399

- 3 drive bays and 5 slots
- 3.5" 1.44Mb floppy drive
- Parallel and 2 fast serial ports
- Portable keyboard

Select required operating system and options



Colossus P75 STN Dual Scan Colour

£2199

Colossus Power Portable Options

- HD Upgrade to 1.08Gb _____ +£50
- HD Upgrade to 1.6Gb _____ +£110
- HD Upgrade to 2.0Gb _____ +£170
- P100 upgrade _____ +£70
- P133 upgrade _____ +£170
- P150 upgrade _____ +£270
- P166 upgrade _____ +£420
- Windows 95 _____ +£60



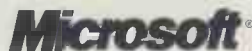
Colossus P75 TFT Colour

£3099

- MS DOS 6.22 & Windows 3.11 _____ +£60
- RAM upgrade per 4Mb _____ +£100
- 3.2Gb tape back-up _____ +£220
- 14.4 BAPT fax/data modem _____ +£80
- 28.8 BAPT fax/data modem _____ +£160
- NEC 6XI SCSI CD-ROM _____ +£300
- NEC SCSI adapter _____ +£60
- 16-bit Ethernet card _____ +£40
- Deluxe serial mouse _____ +£19



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PERSONAL COMPUTER WORLD

MARCH 1996

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01 707 25 88 99

Colossus Computer Corporation Ltd. Colossus House, Travellers Lane, Welham Green, Hertfordshire. AL9 7DA

Northern Sales Office 01 282 77 00 88

Facsimile 01 707 26 74 00



Colossus systems may be available from Colossus Authorised Dealers with different specifications, bundled software and pricing than those shown here. All prices exclude delivery and VAT (17.5%). Delivery: Systems £19, Lasers and large items £15, software and small items £10. Visa / Access / American Express / Switch and Government orders welcome. Prices, specifications and offers are subject to change and subject to our conditions of sale copies of which are available on request. Mail order only. No collections please. Goods are normally despatched within 7 days. All orders will be fulfilled within 28 days unless otherwise specified. Software is pre-loaded, back-up CD and manuals are available as options. Intel® Inside and Pentium® processor logos are trademarks of Intel® Corporation. All trademarks are acknowledged. E&OE. Sales lines are open Monday - Friday 9.00am - 6.00pm

The R3AL Deal

Realimat claims to bridge the gulf between programming games and creating 3D. Simon Rockman asks whether this toy wonder could revolutionise 3D graphics.

Ask the average person which countries do what in the PC industry and you'll get some stock replies: the Japanese design and manufacture notebooks and memory, the Taiwanese manufacture cases and motherboards, while the Americans do the lion's share of PC programming. What often gets overlooked is the areas in which the Brits excel, such as 3D programming — the kind of programming required to make games like Doom come to life.

The boom in home computing in the early eighties created a generation of 3D graphics programmers; the UK has more skilled graphics programmers than anywhere else. Most of the major console hits were programmed here. Last year's Christmas hit on Nintendo was Donkey Kong Land, a 2D game with 3D-rendered images which was programmed by Rare in

Leicestershire. The year before, the hit was a real 3D game, Starwing, from Argonaut Software in London. One of the newest companies to emerge as expert in 3D is Datapath of Derby. Datapath, best known for its high-end video-cards, has applied the expertise gained in writing complicated drivers and bespoke applications into its first venture into 3D graphics programming, RealMation.

The RealMation solution

Programming 3D graphics is difficult — particularly if your skills lie elsewhere. The old-fashioned solution to this was either to recruit programmers who know 3D, or to sit down with the text books and teach yourself. Recruitment has proved

difficult. Finding the right person is hard enough, but they then have to be taught about your application, methods of working and libraries. Teaching yourself solves these problems but is slow. Not only does it take a long time to understand the problems, write the code and test it, but the results are usually sub-optimal. A programmer or mathematician new to 3D is unlikely to produce code which runs as quickly as a programmer who has been getting lines to move at breakneck speed



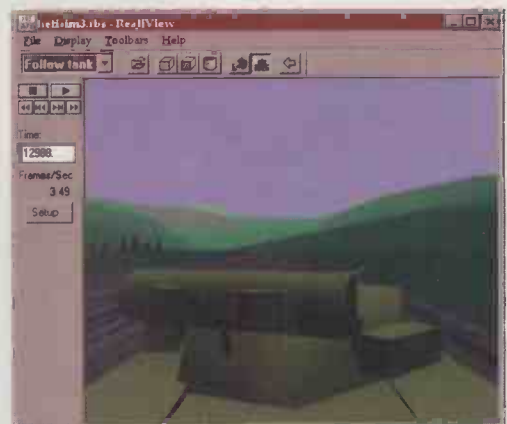
Convincing pictures can be produced, but the update speed is poor

since the heady days of the Sinclair Spectrum.

Datapath claims to have provided a way for programmers with little or no experience in 3D to tap the resources of those programmers who are experts. RealMation, pronounced Re-alimation, is a suite of programs which allow programmers to create 3D environments. It is not a rendering library. In fact, it needs a library to work. RealMation currently supports Open GL and Criterion's

Renderware as standard, with other versions currently in development. Datapath is working on systems for Rendermorphics — the 3D API Microsoft liked so much it bought the company — and Brender, the system from Argonaut Software which has been seen in the PC game FX Fighter. The new Microsoft release, 3D Movie Maker, includes Brender and will soon have hardware support.

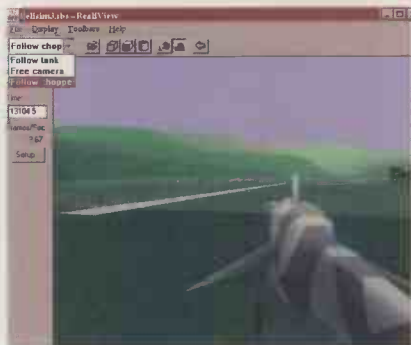
The ultimate idea is that whatever rendering system the programmer wants to build, the software around can be used by RealMation. There is support for sound as well as 3D graphics, so all the programmer has to worry about is the application. RealMation acts as an interface layer between the application and the rendering system. A programmer might want to choose one rendering system for prototyping and then, for reasons of cost or performance, another system for the equipment which is installed. As the technology improves, a programmer might want to switch from one rendering system to another. With so many rendering systems around at the



The system can process lots of operations at once. This view from a tank is an alternative to one from a helicopter

moment, it is a wise precaution for programs which are likely to have a long lifetime. Games, which are not updated, can have custom-written routines and be hard-coded for a renderer, but for flexibility the RealiMation approach makes life much easier.

The software consists of three main sections: the core application libraries, the support libraries and drivers, and the RealiMation editor — the world-builder. Datapath sees some application for this in games development, but this is typical of the naive attitude of companies who don't really understand what goes into



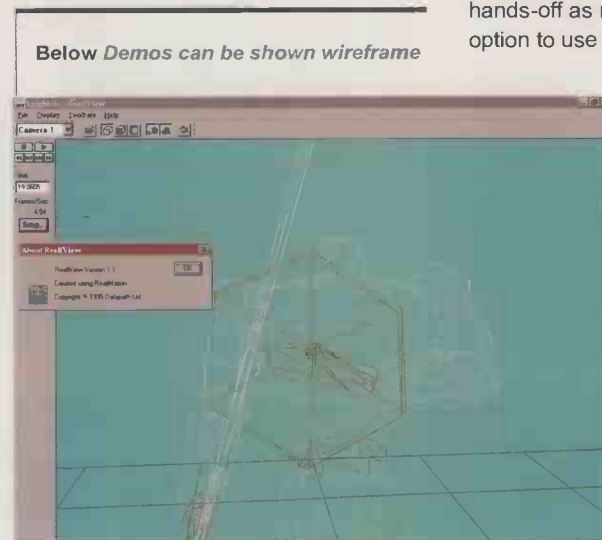
Above
The disc on the top of the helicopter gives a realistic view

games development. The software is much better targeted at its other market: high-end simulation and virtual reality. There is a lucrative market in the military and in industry. RealiMation can cope with multiple screens and machines, producing the same simulation across a network. One key market for this is air traffic control simulation, but there are lots of other simulation environments (tanks, shipping and factories) where a system can be built quickly. The idea isn't new: PostScript was invented as a result of research work done on a shipping simulator.

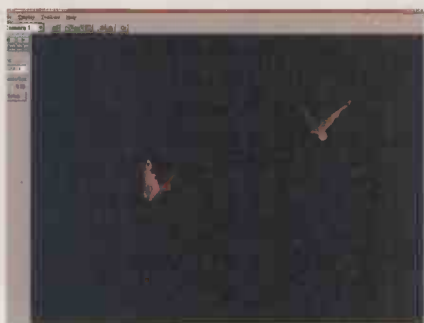
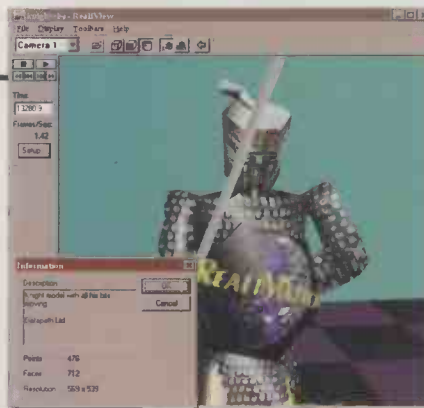
Right
The knight demo doesn't have a lot of work to do, but is still slow

time-based rather than frame-based. Processor power permitting, a minimum number of frames is shown, to ensure the right things happen at the right time. RealiMation will draw frames at a rate determined by the hardware. An image might become jerky but will produce the best possible results — paths of moving objects are changed to ensure the shape reaches the right keypoints.

The world builder allows the programmer to place objects in the 3D environment and manipulate them. If a plane is made to fly around a tower it will bank correctly. The plane can be set to follow terrain so that it hops over



Below Demos can be shown wireframe



The butterflies demo gives a sensible frame rate but doesn't have many polygons

mountains or the nose rises and falls correctly.

What the World Builder cannot do is create shapes. The plane or spaceship must be produced in a 3D editing package such as 3D Studio. The software is essentially a choreographer for a number of actors placed by the programmer, and this is an ideal generalised approach.

The RealiMation editor is the world-building tool used to create the backdrop. There is a library of routines called `rimation.lib`, below which are the geometry and device drivers. The idea is that the programmer can be as hands-on or hands-off as necessary. There is an option to use the RealiBase data object which stores the scene, and the whole lot is hierarchical.

In the real world

RealiMation is great for prototyping and ideal for Datapath bespoke work. This is needed for, say, linking a number of machines together and providing the same views on all of them. In an environment where you can go for a faster machine if the software is too slow RealiMation is fine: it saves on the major

cost — programming time. But in the world of consumer applications it is way too slow — by an order of magnitude. An animation at anything less than 10fps is awkward. The Beta version of RealiView, the viewer program for RealiMation movies, struggled to reach 4fps on a DX4-100, with fairly simple images. While the program is showing you one scene, it is calculating the data for a view from any other position, which allows instant changes of view. In practice, this can be achieved using more efficient techniques.

But if your work involves modelling environments where there will be a lot of testing and changes, RealiMation is an option you should explore. Datapath offers excellent technical support, and if you are a major customer it is likely it will help you get your application working. The company may be too wrapped up in the project to see the commercial limitations, but if it matches your requirements you may well benefit from the tightly focused development.

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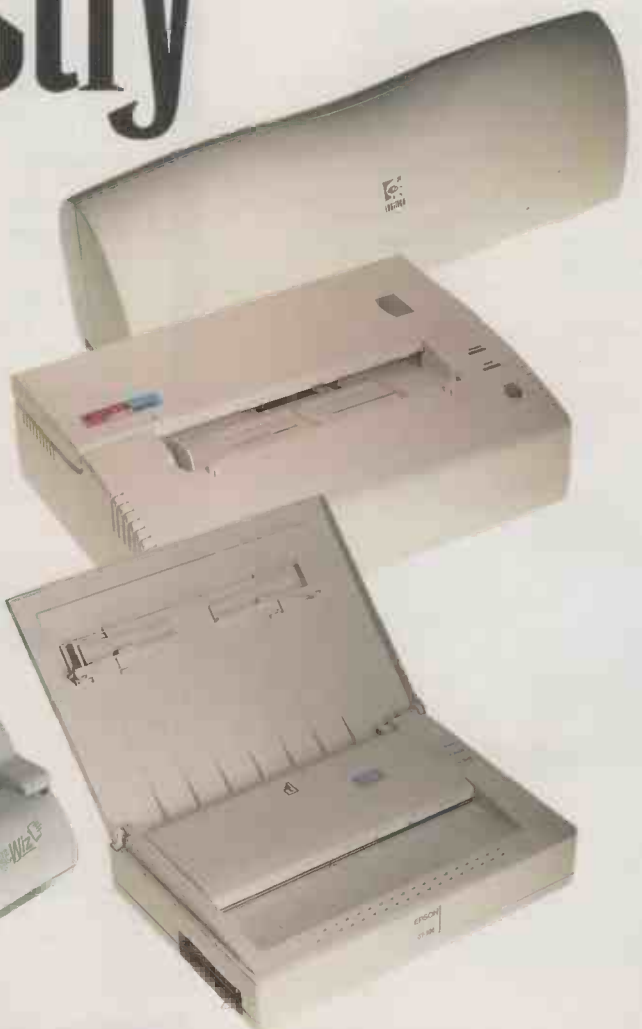
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Small but perfectly formed

The latest breed of document scanners have been designed to combine the reliability of flatbed scanning technology with speed and portability, but you should think hard about what you want your scanner to do before choosing one. Adele Dyer takes her pick.



PCW Document Scanner Photography by David Whyte

For years, document scanners were the great idea that never quite got off the ground. The paperless office needed a handy office tool that could sit on a corner of the desk to scan a document in quickly. The only options available in the past were a vast flatbed which took ages to scan and was very expensive, or a cheap handscanner which often gave suspect results.

The obvious advantage of a small document scanner is that it is static and so produces the reliable results of a flatbed, but faster, cheaper and without taking up valuable office space.

Meanwhile, the software sold with the new breed of document scanners is geared towards office needs, rather than taking in the panoply of possible uses for a scanner. If you need to digitise photos for publication, a document scanner will not meet your needs. But if you want to take "snapshots" of documents and so create a paper-free office, it is more useful to have a basic scanner bundled with filing and OCR packages.

As can be expected from a relatively new concept, all these document scanners offer slightly different features and have strengths and weaknesses according to their main purpose as seen by the manufacturer.

Hewlett-Packard ScanJet 4s

On unpacking and setting up the ScanJet 4s, you could be forgiven for thinking you had in fact bought a Visioneer PaperPort with an HP badge on the front. In fact, Hewlett-Packard has licensed the Visioneer software and the housings of its various scanners are just spookily similar through pure coincidence.

Evidence of differences from the PaperPort began with the need to calibrate the scanner, and a slightly less generous software bundle — you don't get CardScan or PictureWorks Copier. However, the basic driver and OCR software are exactly the same as that supplied with the PaperPort and this is boasted on the title bar. Again, automatic recognition of compatible hardware and applications was painless and seamless.

Passing documents over the CCD was not as smooth on the ScanJet 4s as on other scanners in the test. It had to stop to think about what it was doing several times while scanning an A4 sheet and this slowed down the whole process considerably.

Scanning photographs on the ScanJet was not as successful as you might expect from a manufacturer well known

for its flatbeds. Shades of grey were not picked up well on black and white photographs, giving a mottled effect, and the CCD created streaks on the photograph.

Despite this, the HP proved robust, standing up well to heavy scanning needs. If anything, it suffered from the PaperPort link as it does not have the same polish in looks or in operation. However, on its own, it is still a very decent machine, solid and reliable with the ease of operation offered by the PaperPort software.

Epson LapCAT GT-300

The LapCAT betrays its size even before you see it. It is larger than many of the scanners in this test, about the size of a notebook computer. The model we tested came with an interface card which we dutifully installed before discovering in the read-me that we could simply have plugged it into the parallel port.

Unlike the more common integral desktop interface, this uses a series of component parts. The control panel lets you choose how to get in your scans, whether scanning them alone or straight into the TextBridge OCR package. This pays dividends as the scanning time is quite long, but combining the two



PCW Contacts

HP ScanJet 4s

Price £310 (RRP), £235 (street)

Contact Hewlett Packard 01344 369222

Good Points Software.

Bad Points Quite slow. Does not process photographs well.

Conclusion Solid, reliable, small and will do most things you need from a document scanner.

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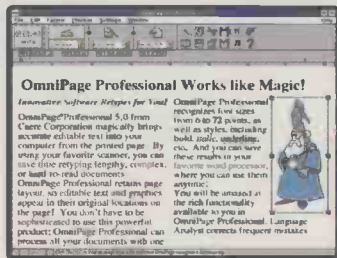
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June 1995
OmniPage Professional 5.0
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PERSONAL COMPUTER WORLD
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PCW Contacts

Epson LapCAT

Price £375 (RRP), £299 (street)

Contact Epson 0800 289622

Good Points TextBridge OCR package. Modular interface.

Bad Points Not intended for saving images and photographs. High system requirements.

Conclusion The scanning capabilities are built around the OCR function, but as such is an efficient and accurate way of getting paper into your system.

the parallel port and has a switch box to let you plug your printer in at the same time. I had problems setting it up however, getting a fatal error when I tried to calibrate the scanner.

Once it was up and running, though, the PageScan Colour was impressive. Bundled with the scanner comes an OEM version of TextBridge, the PaperMaster filing package and

PageScan Image, a very simple image display and manipulation package. All of this can be managed from a control tool bar which launches automatically when the scanner senses paper coming in.

All the software elements are designed for maximum ease of use. The specially adapted OCR elements let you make scanning choices based on the kind of print you have. For example, there is a setting for tinted text or a tinted background. You can also OCR directly into your word processor, which is sensed automatically on installation.

The highest resolution available is 200dpi which should be more than adequate for most of your scanning needs. Good results are achieved when scanning colour photography at this resolution. Obviously it is not professional quality, but it is quite sufficient for printing a newsletter on a colour inkjet. Image manipulation is limited in PageScan Image, but you can do very basic tasks such as adjusting brightness.

The cleverest thing about this scanner is that it can scan bound books. It comes off its stand and when placed on the document in question, walks itself across the page, sensing when to stop before it falls off the end.

Filing could not be easier. The package, DocuMagix PaperMaster SE, is built to look like a real filing cabinet so you can label drawers and see dividers within them like paper files. The software also tries to recognise the kind of document you have and makes filing suggestions accordingly.

operations cuts down time significantly.

TextBridge gives you considerable scope for the way you scan and then OCR your documents. Handy functions include a fax option which allows for the degraded images and mucky type you get on faxed documents. You can also choose to verify any suspect words as you go, which gives you the dual benefit of more accurate, if slower, results and training TextBridge in the process.

The filing module, Visual Recall, was one of the more impressive bundled products. It was more like a free text database than a simple filing system. You can index your files with details such as content, author, title and keywords, or alternatively you can search for specific words included in the database. This of course depends on having recognised your documents, but is still extremely useful.

Sadly, the Epson let itself down badly when scanning photographs. The options available in terms of greyscales are not sufficient to achieve good-quality scans, while the files are saved as bitmaps, slowing down the process and choking your hard disk with enormous files. However, you can convert files and save them as .GIFs. Also, it was not possible to hold smaller photographs in position to scan them in, so there are no test results for the 6"x4" photographs.

Logitech PageScan Colour

In theory, the Logitech should have been extremely simple to set up. It plugs in via



PCW Contacts

Logitech PageScan Colour

Price £299 (RRP, street)

Contact Logitech 01344 894300

Good Points Versatility, high-quality colour scanning, good supporting software.

Bad Points Judging by my own experience, can be surprisingly difficult to set up.

Conclusion A colour scanner for not much more than you would spend on a mono document scanner and at a fraction of the size of the cheapest flatbeds.





Microtek PageWiz

Microtek has a good reputation for building quality flatbed scanners so we had high hopes for the PageWiz, especially as it comes in at an exceptional £149.

Installation is via the parallel port and it is powered with an external power supply rather than taking its power straight from the PC. The software went on without faults and to calibrate it you just need a blank piece of A4.

An automatic paper sensor picks up the paper and launches the interface software, PageSuite. It is all too easy to get the paper slightly off-centre as you scan, however, and there is no de-skew facility.

The scanning itself is easy to adjust using a highly graphic interface. There are no dpi settings to confuse the novice scanner, just normal, fine and extrafine. For accurate OCR you must have the scanning set at fine. This means larger file sizes, but there is very little point in scanning at a lower resolution if you want any sense out of the OCR.

The OCR itself is by Caere — a limited edition of OmniPage. Its results are okay, but again the resolution has to be quite high to produce decent results. Neither does it have all those subtle extras like manual verification to improve its performance.

The greatest disappointment, however, is that it does not cope at all well with photographs — black and white or colour. The images produced are very rough, even when scanned at a high resolution.

PCW Contacts

Microtek PageWiz

Price £149
Contact Microtek Europe BV
 0031 10 242 5688

Good Points Very easy to set up and use.
Bad Points Does not cope well with photographs.
Conclusion Good for computer novices who simply want to scan without understanding how to do it.

As if by compensation, the filing system is very good. You can access files directly from a button on the desktop interface. Creating and finding files is simplicity itself — everything is there to be viewed.

All in all, this was not the most impressive scanner we saw, but it does have the advantage of being cheap and performs reasonably well at basic electronic paper management.

Plustek PageReader 800

Plustek might not be a name you are familiar with. It is a US/ German/ Taiwanese company which specialises in producing scanners, mainly flatbeds.

Due to its lack of publicity, we were not expecting great things of this scanner. But as soon as it

came out of the box we were impressed. It is the lightest and smallest of the bunch and, at £149, the cheapest. It is easy to install via a small interface card and operates with TWAIN drivers. We tested it with Recognita Pro, but by the time this appears, it will be bundled with TextBridge. Otherwise, the bundle consists of Photo Plus and a saving facility.

Like the Visioneer PaperPort, the PageReader 800 has automatic paper sensing. However, unlike some of the scanners in this test, it does not have an integrated desktop allowing you to access the various related software packages via buttons. Instead it opts for a standalone control panel arrangement. This detects the bundled software packages and leaves you buttons free to add whatever else you want to put on, such as your own saving sites or applications such as Word or Paintshop Pro. Working with the paper sensing on the scanner, you can simply feed in your document and the application of your choice is launched and activated.

One huge disappointment was that the PageReader 800 we saw did not take photographs. It dealt very well with pictures on ordinary paper, producing crisp images, but actual photographs were too thick to feed through the scanner. The distributors were very surprised at this and claimed not to have had such a problem themselves.

PCW Contacts

Plustek PageReader 800

Price £149
Contact Scan Direct 01292 671676

Good Points Perfect for document scanning, OCR and saving.
Bad Points Will not scan photographs.
Conclusion Excellent value for money.



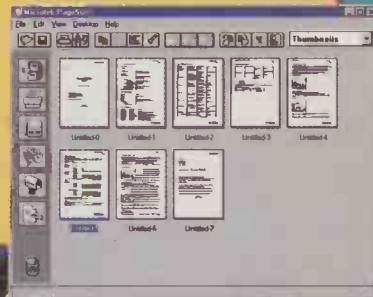
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For the technically-minded: PageWiz scans in black and white and 16 greys at a maximum of 300dpi resolution. Scanning time for a A4 page is approximately 12 seconds (1-bit mode). PageWiz processes artwork from 51 x 77 mm up to 215 x 355 mm (A4 large format). Connection to your PC or notebook is via the Centronics interface, without an additional interface card. PageWiz includes PageSuite, a powerful software for managing and processing files. System requirements: IBM 386 PC or compatibles and notebooks with 4 MB RAM, Windows 3.11 or higher (fax function from Windows 3.11, e-mail from Windows 95). Further information is available from your specialist dealer, or direct from Microtek Electronics Europe GmbH, Schiess-Strasse 72, D-40549 Düsseldorf, Germany, phone ++49/211/52607-0, fax ++49/211/596782.

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Sicos Colour Page Scanner

This scanner is remarkable for two reasons: it's a colour scanner, and it's been on the market for some time. Sicos is a Swiss company which has been operating for about seven years and which, like Logitech — the other manufacturer with a colour scanner in this test — is mainly a mouse manufacturer.

When we first saw this machine, which has been on the market for around 18 months, it was running under Windows 3.1. The installation under DOS and the fitting of an interface card was a tad fiddly, but manageable. Since then we have switched over to Windows 95 and the new drivers make the installation a piece of cake.

The Sicos is the largest in the test, but it makes up for this in robustness. Again, it is one of the slower scanners, but as it is bundled with TextBridge you can save time by scanning and OCRing all in one go. The bundled software includes a fax/copy facility which allows you to fax scans direct, or to use your printer as a photocopier, again by sending document images straight to the printer. TextBridge, the bundled OCR package, performs very well, lets you verify as you go along and retains formatting from the original document.

It deals well with colour photographs, producing good colour duplication and definition. However, as you would expect, the process is slow and although you can theoretically scan at very high resolution, the size of the file will be prohibitively large and the time taken will probably not be worth your while. Photo manipulation is not made easier by the bundled Photo Plus, a package which is pretty much standard with these scanners and which has little to recommend it.

The feel of the Sicos was altogether one of solidity and good performance. It was surprisingly fast and accurate and was the only one to offer high-resolution colour scanning.

Umax Page Office

Umax is well known for its flatbed scanners, so we were not surprised when this was one of the first document scanners on the market. The interface card is SCSI-II and the drivers



PCW Contacts

Sicos Colour Page Scanner
 Price £249 (RRP), £199 (street)
 Contact Sicos 00353 1 456 9383

Good Points Colour scanning at high resolutions.
Bad Points Quite large compared to others in the test.
Conclusion If you have a little extra desk space this is a highly competitive machine.

used are TWAIN, so you should have minimal problems at this stage. The software also comes with a useful uninstall feature.

The desktop has a large surface where your scans appear as thumbnails. Functions and other applications are displayed as buttons. Your printer, fax, email facilities and Write are all detected automatically. Other compatible applications such as your word

processor can be added but without their icons or name. Annoyingly, you cannot name your scans on the desktop and filing involves a "save as" procedure — not a simple drag and drop into a folder on the desktop.

The OCR engine kicks in when you switch from image to recognised mode. However, it does not activate automatically when you put a scanned document into your word processor, so you can transfer a load of nonsense.



PCW Contacts

Umax Page Office
 Price £399 (RRP), £299 (street)
 Contact IMC 01753 830999

Good Points SCSI -II interface and TWAIN drivers make it easy to install.
Bad Points Clumsy file management. Problem with CCD.
Conclusion A good scanner, slightly marred by adequate but unimpressive software.



The original formatting is not saved, and the OCR package cannot recognise large or unusual fonts or even common symbols such as £ (this is a little unfortunate if you are scanning invoices, as it tends to substitute a row of 1's). As the scanner is TWAIN compliant, however, those with heavy OCR needs could consider investing in another OCR package.

The actual scanning is very good. There was a slight problem with the CCD — it does not see the top 0.5cm of photographs. This was a slight annoyance, but the quality of the scans was still very good. The PageImage software bundled with the scanner is not PhotoShop but it does offer enough tools for basic photo manipulation. Documents on thick paper are hard to force through, but there is no such problem with photographs.

Visioneer PaperPort Vx

When we first looked at the Visioneer PaperPort last year it was one of the first document scanners on the market and extremely good at its job. There is now a new version out, complete with improved chip and image enhancement technology.

The supporting software is simplicity itself to use. All compatible applications (now numbering over 100) and hardware appear as link buttons on the desktop, as do most of the functions and the files where you can save your work. File names appear with the scan thumbnails and can be changed, as in Windows 95, by over-typing them.

PCW Contacts

Visioneer PaperPort Vx

Price £299 (RRP, street)

Contact Computers Unlimited 0181 200 8282

Good Points Excellent software, packed full of good ideas and very easy to operate.

Bad Points Fault when scanning straight through.

Conclusion Despite the fault, the best buy in the test.

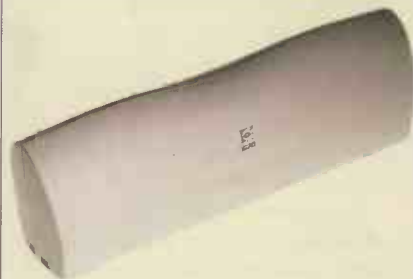
The OCR link is invisible — OmniPage LITE is launched as soon as you drag a thumbnail onto the word processor link. The formatting remains intact. Even spreadsheets can be scanned, OCR'd and fed into Excel. The results are not perfect, but much faster than having to enter the information by hand.

The automatic edge detection, crop and clean-up facilities go a long way to producing high-quality document scans which will OCR well. Any shape of document can be fed in and cropped before OCR, including articles torn out of a newspaper.

Documents do not need to be saved and can be dragged and dropped to files on the desktop. There are browse and find functions to help you navigate your files. Alternatively, files can be exported as bitmaps, .GIFs, .TIFs, .JPGs or .PCXs. Files can also be imported to make faxing easier.

However, there was one fault. When scanning in photographs flat, the hardware crashed repeatedly, losing its connection to the PC. The quality of the photographs was also less than perfect. The edge detection did not work so had to be cropped, and the definition was not ideal. However, the files were compressed so did not take up much disk space.

Document Scanner Technology



If it is such a good idea, why haven't document scanners been around for years? Well, the simple answer is technology. Up to now you had a choice: either of a hand scanner which was limited in the amount of text it could scan at one time, or of a large and expensive flatbed, possibly with an automatic sheetfeeder.

The advent of single-pass scanning heads was an important step in the evolution of document scanners. Older models used to make three passes for a colour scan, once each for red, green and blue. Since document scanners feed the paper past a fixed head, a single-pass device is an essential requirement.

CCDs have also reduced in size. In the case of the Microtek PageWiz, the CCD is approximately 2cm wide and 2cm deep. Lenses and mirrors enable the full A4 width to be captured. These tiny CCDs allow manufacturers to produce small cases, only a few inches tall and deep, and barely any wider than a sheet of A4.

While conventional OCR takes place on monochrome line-art scans, most scanners are greyscale devices. Greyscale CCDs are so commonplace that there is no particular cost advantage in fitting monochrome ones instead. The mixed results of scanning photographs demonstrated clearly which units featured high-quality CCDs.

For OCR purposes, scanning in greyscale can sometimes help. Most good OCR packages pick up anti-aliasing (a rim of lighter grey around the letters) to help them decide which letter they have. However, all these scanners also offer black and white modes. Monochrome images require 1 bit per pixel as opposed to 8 bits for greyscale; consequently 1-bit images are eight times smaller than 8-bit at the same resolution, saving valuable file space. One-bit images compress highly, too.

Editor's Choice

Choosing just one document scanner to win Editor's Choice is not easy. The options are wide and there is no one solution which will suit everyone. The choice you make will depend on what you want to do with the scanner. The three I have picked out for special mention are the three most versatile ones.

The Logitech PageScan Colour immediately springs to mind when you mention versatility. It has colour capability — of course — and can be detached from its moorings to scan bound documents. In addition, the software is easy to pick up and operate with one of the most transparent



operating systems. The Plustek PageReader 800 also scored highly for its versatility. It scans accurately and swiftly, the software shows no particular weaknesses and is easy to operate, if not as transparent as that of some of the other scanners tested. But where this scanner really scores is in its value for money. At around half the price of almost all the scanners in this test, it is a real winner for those who simply want a cheap scanner which will do a decent job and are not unduly bothered by the document scanner

equivalent of go-faster stripes.

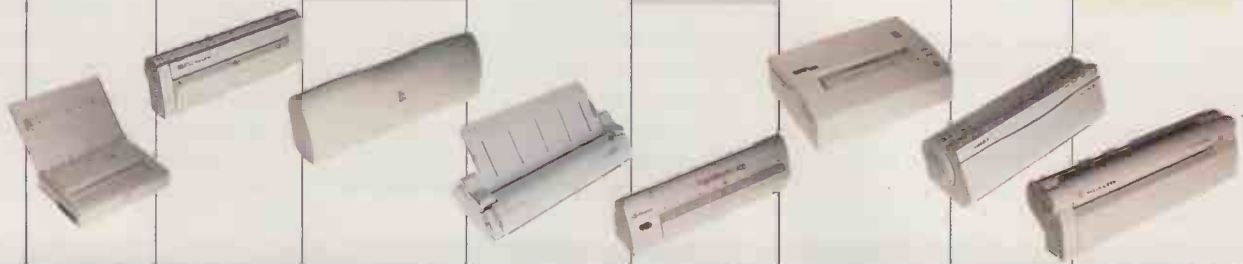
But if you want it all then you will have to plump for the Visioneer PaperPort. The extras on this scanner are almost bewildering in their extent. Uses have emerged for this machine which had never been thought of until those clever people at Visioneer started to increase its utility. The result is not only a scanner which will detect your printer, fax/modem and word processor, but also any of over 100 possible applications which work with it.

Of course, when Visioneer produces a colour version of this scanner the company will doubtless clean up, but even in mono it is exceptionally good.

TABLE OF FEATURES MINI DOCUMENT SCANNERS

	Epson	HP	Logitech	Microtek	Plustek	Sicos	Umax	Visioneer
Manufacturer	Epson	Hewlett-Packard	Logitech	Microtek	Plustek	Sicos	Umax	Visioneer
Model	LapCAT	ScanJet 4S	PageScan Colour	PageWiz	PageReader 800	Colour Page Scanner	Page Office	PaperPort Vx
Contact	Epson	Hewlett Packard	Logitech	Microtek Europe BV	Scan Direct	Sicos	IMC	Computer Unlited
Tel	0800 289622	01344 369222	01344 894300	0031 10 242 5688	01292 671676	00 353 1 456 9383	01753 830999	0181 200 8282
Fax	01442 227227	0800 960271	01344 894303	0031 10 242 5699	01292 671678	00 353 1 450 8765	01344 872868	0181 200 3788
RRP	£375	£310	£299	£149	£149	£249	£399	£299
Street Price	£299	£235	£299	£149	£149	£199	£279	£299
Connection								
Interface card	●	○	○	○	●	●	●	○
Parallel port	○	○	●	●	○	○	○	●
Serial port	○	●	○	○	○	○	○	●
Bundled software								
OCR	TextBridge	OmniPage Lite	TextBridge	OmniPage	TextBridge	TextBridge	Integral	OmniPage LITE
Filing	Visual Recall	Visioneer	PaperMaster SE	Integral	Scan and Save	None	Page	Integral
Photo retouching	None	None	PageScan Image	Integral	iPhotoPlus	iPhotoPlus	PageImage	None
Links to applications								
Automatic	○	●	●	○	○	○	●	●
Manual	○	○	○	○	●	○	●	○
Features								
Dimensions (w x h x d - in cms)	30 x 21 x 6.6	32 x 9 x 7	21 x 7 x 9.2	28 x 11 x 5.6	29 x 8.5 x 6.5	33.5 x 10 x 23.5	32 x 13 x 12.5	32 x 9 x 7
Weight (lbs)	6.4	2	8.7	2.2	1.7	9.7	5	2
Sheet feeder	●	○	○	Optional	○	○	●	○
Autosaving	○	●	●	●	○	○	○	●
Automatic fax and printer detection	○	●	●	●	●	●	●	●
Colour scanning	○	○	●	○	○	●	○	○
Maximum optical resolution (dpi)	400 x 400	200	200	300	200	300 x 600	300i	400

KEY ● Yes ○ No



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An orderly few

There are personal information managers and contact managers to suit every need but finding one that matches *your* requirements isn't easy.

Paul Begg has reviewed what's available to help you put your personal and business life into apple pie order.

If you want to get some organisation into your life and your business, you need either a Personal Information Manager (PIM) or a Contact Manager (CM). PIMs and contact managers are often thought to be more or less the same thing. Even some companies don't fully make the distinction, but there is a very real difference between the two.

In its truest sense a PIM is an electronic address book, a diary, and the back of an old envelope — that is, a PIM is a place for storing names, addresses and phone numbers, for noting appointments and making a list of things to do. A PIM can also be a place to record birthdays and anniversaries, store the type of information you may like to have ready to hand such as price lists, train times and notes of your expenses. The operative word is "personal": a PIM contains information about you, the user.

A contact manager isn't about you. It's about those with whom you interact, which generally means people with whom you do business. It lets you record the usual address details, but may also allow you to store such things as your contact's spouse's and children's names. It keeps a history of all your dealings with that client, too. The next time you see a client you'd be able to walk into his office and say something like "Hello, Mr James. How were those two weeks in the Dominican Republic? Did Mary like it? I bet Daniel and George loved those warm seas. Now when we spoke last, in March, on the 25th wasn't it?..."

More powerful Contact Managers should also let you know when to contact

clients, when to bill them, send them reminders, and so on. And ideally it should have some kind of scheduling feature as well so you can schedule meetings, visits, and assorted other appointments; while at the heavyweight end it should be highly networkable and offer group scheduling, resource management and email. Remote file synchronisation — keeping the contact database of the on-the-road mobile user up-to-date with the latest information at the office — is another important plus of a fully-featured CM.

A PIM, therefore, is about you, whereas a contact manager is focused on your clients. The difference isn't quite that simple though — things never are! Developers have begun isolating and targeting sectors of the market and some of the software packages have become fairly specialised. For instance, Alpha Software has launched The Complete Home Suite, reviewed here, which no doubt is the first of many PIMs designed for the home user. Then there are the PIMs such as Sidekick which are intended for the SoHo (Small Office/Home Office) user, and PIMs like Organizer that attempt to bridge the divide and become a low-end contact manager. And contact managers themselves seem to be dividing into those designed for office-based sales teams and those for a sales force on the road: some aren't even for a sales force at all, and others aren't really CMs but specialist contact databases which store contact data and output it by almost any criteria you can imagine. These programs are not

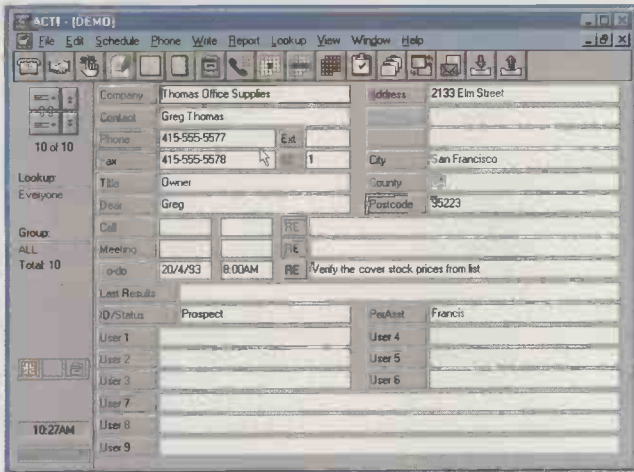
designed to keep you in touch with your contacts but for you to extract statistical data such as how many contacts you have in a specific postal code, or those who share the same surname.

Deciding whether you want a PIM or a CM, or something that tries to combine the basic tools of both, depends on your needs and this is one software category where practically every package does its job differently. The best advice we can give is: decide in advance what you want your PIM or CM to do, then try to get a demonstration of those packages, described here, that seem to fit the bill.

ACT! for Windows 2.0

Contact management, as distinct from personal information management, was almost invented by a company called Contact Software International when it launched ACT! for DOS in the antediluvian mists of 1987. Over the years the program blossomed and contact management turned into a BIG software category. Then, in 1993, Contact Software International was bought by Symantec, a company then best known for its Q&A database and today for Norton Utilities. Since acquiring ACT!, Symantec has done practically nothing with it.

We first reviewed ACT! 2.0 back in July 1994 and in our last PIM group test in October 1994, when it was awarded the Editor's Choice. We observed in the July review that ACT! 2.0 was a minor upgrade; no more than a few tweaks here and there with some enhancements necessary to bring it into line with the



ACT! for Windows 2.0 is a solid contact database that needs some attention from Symantec

competition. This mainly included network and integrated email support. Now, round about 18 months later, we find that Symantec has still done nothing to ACT! and that ACT! for Windows 2.0 is the current version — but remarkably, ACT! remains a solid contact manager and a strong contender for the Editor's Choice award.

ACT! is one of the easiest of the high-end contact managers to use mainly because all contact details are contained on a double-sided file card. Each contact card has about 70 fields for contact and company name, address, phone and fax numbers, plus assorted other details. Additionally, there's a host of user-definable fields for other information you'd like to include, such as nicknames and spouse names.

Once the database has been set up, you can keep a record of all those "to-do" and "done" tasks associated with each contact. Once the to-do has been done, the details are automatically transferred to the contact's history file and stamped with the date and time.

There's an integrated word processor that although basic, is likely to satisfy letter-writing needs (which is all it's intended to do). ACT! will also insert address details into a letter or fax (you can fax from within ACT!) and there's all the usual stuff for setting alarms and producing contact reports.

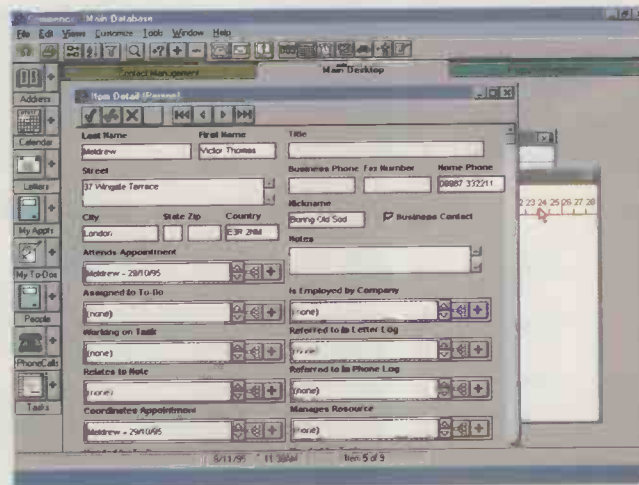
ACT! is weak when scheduling appointments: these can only be scheduled at 15-minute intervals and two tasks cannot be scheduled for the same time; this is a hindrance if you want to meet more than one person within those 15 minutes, or want to schedule two appointments for the same time. There's no provision for entering timeless events either. And, ACT! lacks an expense account module (present in the old DOS version) which would otherwise be useful

for mobile sales staff.

There's a separate package called ACT! Mobile Link which merges contact, history, and activity information from mobile salespeople into a central ACT! database. When the central database is changed, the information can be sent via Mobile Link to the appropriate salespeople.

There are other features, too. For example, the Electronic Literature Rack is where the sales manager can store price sheets, sales literature, and so on. These can be downloaded via Mobile Link by a salesperson, who will thus be assured of having the most up-to-date information. In addition there's a version of ACT! specially designed for the Psion 3a (see "Power in your pocket" on page 203).

It's remarkable that ACT can hold its own against all-comers and be a serious contender for our Editor's Choice award even though it hasn't undergone any kind of serious upgrade since version 1.0. One cannot seriously doubt that Symantec is committed to ACT! and we are conscious of the maxim "if it ain't broke, don't fix it", so there is no hard case for penalising this mature and



Commence tries to be all things to all people and generally succeeds, although the learning curve is steep

PCW Contacts

ACT! for Windows 2.0

Price £189 (inc VAT)

Contact Symantec 01628 592222

Good Points Easy-to-use, powerful and elegant.

Bad Points Lags behind the competition.

Conclusion ACT! remains a good contact database, its deficiencies reflected in the price. Symantec needs to demonstrate its commitment to this product.

robust product simply because Symantec hasn't released the sort of penny-ante upgrade about which some companies try to make a brouhaha. In the final analysis, however, one can't ignore the fact that in the high-end contact management stakes, ACT! is falling behind by a few furlongs.

Commence 3.0

Commence has a reasonable pedigree. It was developed by New Jersey-based Jensen-Jones and under the name "Current" was adopted by IBM. The name was changed to "Commence" when the product was re-acquired by Jensen-Jones.

If Commence has a great strength it lies in trying to be all things to all people. Unsurprisingly this is also a weakness, though in this case not a particularly great one. Commence attempts to be a personal information manager and a contact manager and a standalone package, as well as one for network users. The result is a package that does pretty much everything but has a very steep learning curve. On the plus side, it has been reduced in price by about £100 since we reviewed version 2.1 in October 1994.

All information in Commence is in list form which can seem overwhelming when you start the program, and there is

a seemingly endless series of dialogue boxes open which list all your contacts, all your appointments, all your to-do's, all your... well, you get the idea. Connecting the data could be a nightmare, but Commence has particularly strong search capabilities which in fact make it fairly easy to find the information you want. You can search for a specified piece of text in all or any of the data lists.

All addresses are contained alphabetically in a ring organiser, similar to a paper-based organiser or the Filofax-look of Lotus Organizer. The entry contains basic information such as telephone numbers. Clicking on the contact name brings up a data card with additional information.

A core feature of Commence (though by no means unique to the program) is Agents, a kind of computerised Pavlov's dog responding to a stimulus, here called a "Trigger Event". Instead of merely salivating, Agents responds to the trigger by performing a function such as automatically re-invoicing a client whose account is overdue. Commence is supplied with some pre-configured agents and version 3.0 includes some new ones, but it's easy to configure your own.

Commence is flexible and has a considerable amount of integration. There are good printing options, report generation, and you can synchronise data with a laptop PC.

Version 3.0 has a number of new features which add to its strength. Data entry has been speeded up with the inclusion of Plus buttons on the View Bar: down the left-hand side of the screen are several buttons which launch different modules. One of these buttons is now marked with a plus (+) sign and clicking on this lets you add data directly to the appropriate category. In other words, you can add a new contact to the address book without opening the address book module. There's also a full complement of diary views by one day, two days, a week, two weeks, a month, and six

weeks. Another new feature is support for Delrina WinFax 4.0, which can now use Commence as a phone book.

The Complete Home Suite

The Complete Home Suite is an innovative personal information manager. Not only does it have a basic address book and contact manager, but there are also modules for keeping track of other personal details such as finances, possessions, and repairs and renovations you may have made to your home. There are 11 modules altogether.

The software, which runs under Windows 95 as well as 3.1 and comes on CD-ROM or two floppies, has been fully anglicised: US zip code has been changed to postal code, US state has been altered to county, and so forth.

Perhaps the most important modules here are the Phone Book and the Contact Manager. The Phone Book is a basic card index: one card per person, each card containing fields for address details, home and work phone and fax numbers. There's an area for making free text notes as well as a button to get your computer to dial the phone number for you. Although this is good enough for basic address book information it's not much good if you want to include cellular phone numbers (now very common with tradesmen such as plumbers and electricians), email addresses, or numbers for a home fax machine (usual among self-employed people). And there is no provision for other user-definable data.

The contact manager divides information into clients and activities. The client data-sheet basically duplicates the information in the Phone Book module (name, address, home and business phone and fax numbers) with the addition of fields for personal salutation, suffix, title, and company name. You can

automatically dial the phone number from within the Contact Manager module, too. Information is entered on a client data-card but is viewed in a list from which you can automatically dial your contact's phone number. You can move from Client List to the Client Activity window. An "activity" is the interaction with the contact. Interactions are something like a letter, fax, phone call, even a meeting and whatever you are planning to do next — this information must be entered manually. Unfortunately, you can't set alarms to remind you that a week has passed and it's time to write that follow-up letter.

There's a Quicken-like home finance and budgeting module, a useful home inventory which includes a form for entering insurance details and a module for recording home repairs. As well as this, you get a module for keeping tabs on your records, tapes, books and periodicals, a stock portfolio, a party and wedding planner, a club membership module and a conversion calculator, too.

The Alpha Software Corporation has recognised a (potentially) highly lucrative gap in the market but then left it to others to make a real killing with a more fully thought-out and integrated suite. The Home Suite is essentially a collection of pre-defined database modules. Aside from a front-end, there's no integration — you can't enter the details of a new music CD into your database and have the

PCW Contacts

Commence

Price £199

Contact Now Distribution 0181 288 3512

Good Points High-end CM for standalone and network use.

Bad Points Overwhelming lists and a steep learning curve.

Conclusion A good, all-round contact manager, not as fully featured as GoldMine but with the distinct advantage of being a standalone CM as well as being networkable.

PCW Contacts

Complete Home Suite

Price £35

Contact Alpha 01752 897100

Good Points Good price for simple needs.

Bad Points Lacks reminders and integration between modules.

Conclusion Alpha has identified, but failed to fill, a gap in the market. It's just a bunch of database modules.



The eleven modules that make up the Complete Home Suite make for an innovative personal information manager

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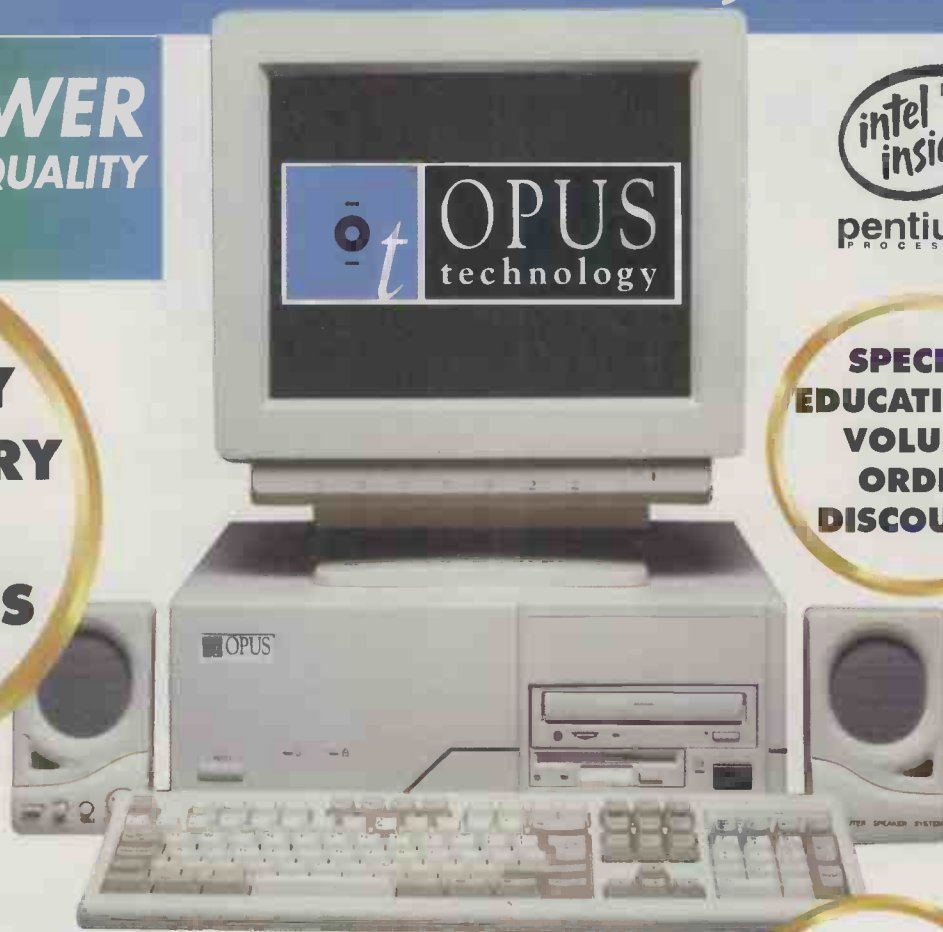
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- Serial Mouse
- Desktop case 2 Serial Ports (16550 UART), 1 Parallel Port, 1 Game Port
- MS Windows 95

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- 2MB S3 64-bit Super Fast Graphics Accelerator Card
- Quad speed CD ROM
- Communications card: Fax machine, 16-bit Soundcard Full Duplex Speakerphone, Answering machine, High Speed Modem & CD ROM interface
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- Serial Mouse
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- PCI Enhanced IDE Controller
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- Six speed CD ROM
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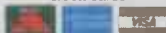


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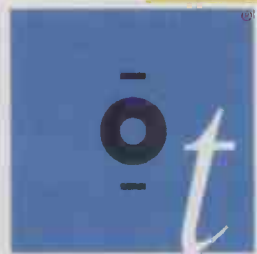
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home inventory module automatically updated, for instance. And there's too much missing: there's no diary or to-do maker, no link to a word processor and no module for recording birthdays and anniversaries. There's a desperate need to be able to set alarms and reminders.

Ecco Professional

Ecco Professional was developed by Arabesque which was acquired in 1994 by NetManage, developer of the Chameleon Internet browser software, the leading provider of TCP/IP applications for Windows and one of the fastest growing companies in the US.

Despite a somewhat sluggish performance and the feeling that it was "initially tricky to get to grips with", Ecco Professional 2.0 won high praise and our Editor's Choice award in our PIM round-up back in October 1994. Performance has been improved with version 3.0 and there's been a small price reduction of about £50, which is good news.

Version 3.0 has over 100 new features including workgroup collaboration but NetManage, unsurprisingly, most actively touts Internet Integration: an Internet address book with over 2,000 pre-configured Gopher, World Wide Web and FTP sites. These are organised into more than 30 categories, and double clicking on any home page address stored in Ecco Pro 3.0 takes users directly to that home page — assuming they have set up Ecco Pro to link with NetManage Websurfer or some other Web browser.

Another new tool is Shooter. You can use this to send selected information from the Internet into Ecco, where it is stored along with its Internet address. Shooter links with yet another new feature, AutoAssign, an automatic information organiser. AutoAssign simplifies information management by

PCW Contacts

Ecco Professional Chameleon
HIGHLY
COMMENDED

Price £129

Contact Roderick Manhattan 0181 875 4400

Good Points New tools enhance functionality. A good choice for anyone graduating from a PIM to a CM.

Bad Points Slightly idiosyncratic.

Conclusion A very good choice.

automatically categorising information into specific Ecco folders based on a wide range of user-definable rules. When information is entered, Ecco checks the "rules" and if the conditions are met, the information is placed in the appropriate folders. When combined with Shooter, automating greatly simplifies the management of information sent from the Internet or any other Windows program. Users can shoot into Ecco from a Web Page and then AUTomating will automatically categorise it for them.

There is a new Correspondence Manager through which you can automatically send letters, faxes, email and letters to any number of contacts simultaneously, and a record of the correspondence is saved in the contact history. A new, and valuable, Time and Expenses module allows individuals and workgroups to track all expenses for any activity. This doesn't just mean out-of-pocket expenses for lunches or travel, but for projects too. You can set up billing codes and expense categories to fully track all expenses and calculate the billings for a particular client, or project, over a given time period.

There are new notepads for outlining all the details of every project and Ecco Pro 3.0 adds customisable colours, tabs to switch between views, revised menus and dialogues, icon balloon help, a print coach for sophisticated print layouts, as

well as helpful hints throughout the program. It receives our Highly Commended award.

GoldMine for Windows

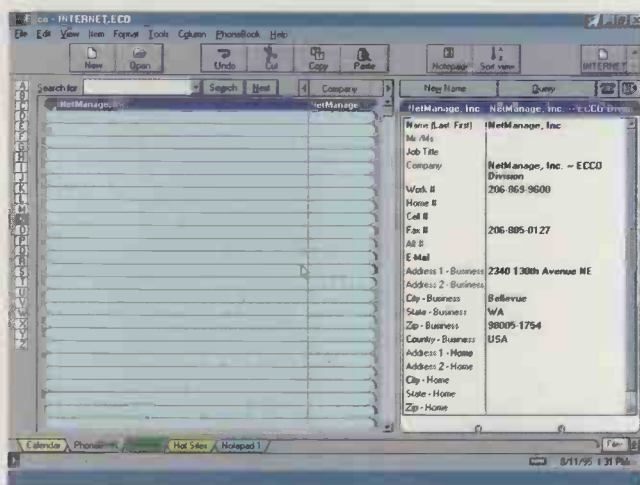
We said earlier that a PIM and a CM are not the same thing. If you really want to know the difference, GoldMine is it. There's little provision here for recording personal information. This is a heavyweight contacts database specifically designed for use on a network.

GoldMine for DOS was launched in the UK in 1992 and the Windows version hit the shelves in May 1994. It now has an installed base, worldwide, of 72,000 and for many well-known companies it is the contact manager of choice. In the October 1994 round-up we looked at version 2.5. This time we are looking at 2.5A. The "A" suffix means that we don't have a major upgrade here — what we do have is a fully anglicised version of GoldMine mainly distinguished by the incorporation of what the developer, Elan Software, calls "automated processes". This is a scripting language which searches for a predefined event and then automatically executes an action. For example, you could have GoldMine look for all customers not contacted within, say, the last three months and automatically generate an appropriate letter. These Automated Processes are similar to "Agents" in Commence and thus not wholly unique, but it certainly shows that Elan doesn't drag its feet when keeping its user base up-to-date with the latest labour-saving innovations.

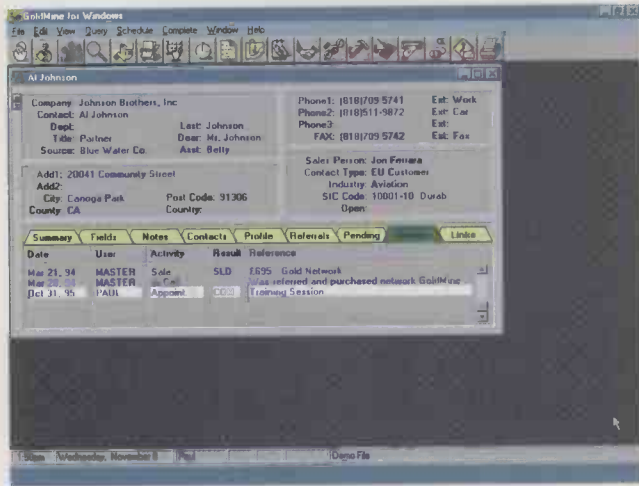
If your business relies on your contacts it's doubtful that you need look far beyond GoldMine, though there is a steep learning curve to be climbed before you feel anything like pipe-and-slippers-at-home; which means you are looking at some staff training.

GoldMine uses a contact record card, underneath which is a series of tabbed dividers. A mouse click on one of these enables you to add or retrieve additional information about your contact. You can group contacts and associate salespeople with each group, and build lists using specified criteria. You can keep a complete history of interactions with the client, too.

There is a diary for managing your time. You can view by day, by week or by month, and it is possible to see the diaries of other users on the network as well. A good idea is the way that all activities in the diary additionally appear in list form so you can separate the



Ecco's Internet Integration is a Net address book with over 2,000 pre-configured Gopher, WWW and FTP sites



GoldMine strikes it rich in the contact management stakes: truly powerful and on the cutting edge

activities into lists of calls to make, appointments, things to do, and so on.

GoldMine comes with predefined links to Word and Ami Pro, but if you use another word processor you can set up links of your own. You can set up templates, too, for specific types of correspondence such as one thanking someone for enquiring about your product, or maybe even responding to a complaint. This is particularly valuable as it provides some control to ensure that your company responds correctly to the client's needs. You can also send faxes from within GoldMine.

It doubles as a statistics gatherer. You can use GoldMine to gather and collate data about such things as sales calls made, enquiries received, complaints dealt with and so on. The information can then be used in different ways, not least important being lead tracking.

GoldMine is feature rich and well thought out. A sister package, ColdSync, further enhances GoldMine's existing Remote Synchronisation facility, keeping on-the-road users up to date with changes at head office. In this respect the Windows 95 version, which is about to hit the streets as I write, includes interface enhancements, wizards, agents and Internet integration. This means that users can log on to the Net from within

GoldMine 95 and synchronise databases via the Net, merging all changes down to the field level, including notes and history.

It all adds up to a contact manager without equal. If you are looking for a truly powerful package that stays on the cutting edge and has dedicated company backing, GoldMine can't be beaten. Unhesitatingly awarded the Editor's Choice of contact manager.

InfoCentral 1.1

InfoCentral, which absorbs between five and 11Mb of hard disk space, is truly unique and is your best (probably only) choice if your business involves dealing with complex relationships. But be warned: InfoCentral at first seems so alien that you could easily be put off.

So, what's so special about InfoCentral? If you are familiar with an outliner, you'll have a basic idea of what InfoCentral looks like. It's rather like the directory structure in Windows File Manager where you have a directory name and next to it a button which, if clicked with a mouse, expands a list of sub-directories, some of which may in turn expand to reveal sub-sub-directories,

which can in turn expand... and so on.

With InfoCentral, the directories, sub-directories and sub-sub-directories are called "objects". This is a piece of information you have defined. A name is an object and so, too, is an organisation, a job title, or whatever. InfoCentral isn't restricted to merely contact details, so you could have a directory called "Companies". The sub-directory would list each company with which you deal and each company would have a sub-directory called "People" which would list your contacts within that company. Then, each contact would have a sub-directory giving his job title, and so on.

The beauty of InfoCentral is that the sub-directories also become directories. In the above example you would have directories for Company, People, and Job Title. Thus, looking up a list of all the Marketing Directors with whom you deal would be simple. The real joy of InfoCentral is that it becomes a snip to locate complex interconnections between information. This isn't of significant value as regards contacts, where all the information you need might be best presented in a list, or on an index card, or found by searching for key words, but there are lots of ways in which it can be a boon. For instance, you might deal with somebody on the board of several companies or commissions: this fact may be buried under all kinds of weighty stuff in an ordinary contact manager, but in InfoCentral all such interconnections are made automatically.

You can use InfoCentral to keep track of your time and appointments and it additionally provides a neat and inexpensive way of keeping track of your documents. It will launch your word processor, automatically transfer addressee details to a new document and, when you've saved the document and exited back to InfoCentral, a record

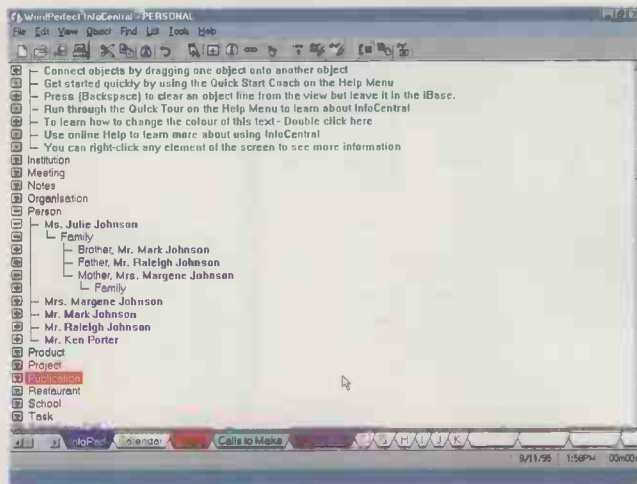
PCW Contacts

GoldMine
 Price £395
 Contact AVG Sales & Marketing 0171 454 1790

Good Points Not too user-specific. Fully featured. The 95 version has some smart tricks.

Bad Points Nothing immediately springs to mind.

Conclusion At the high end of the contact manager market, GoldMine emerges as a solid piece of software supported by a dedicated company with innovative ideas. All round it has to be a winner.



InfoCentral is truly unique, and is in a class of its own for handling complex relationships

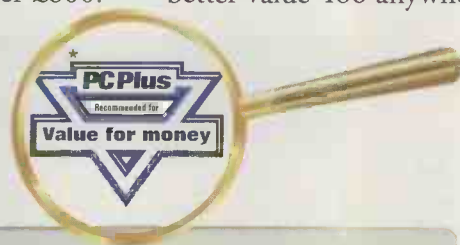
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PCW Contacts

InfoCentral

Price £70

Contact Novell 01344 724000

Good Points Unbeatable for handling complex relationships. Inexpensive.

Bad Points Not ideal if you want speedy access to contact details.

Conclusion Clever, but not the nicest thing to look at or to use.

of the letter — dated, timed, and briefly described — will be listed under the contact name.

InfoCentral comes standalone or as part of the PerfectOffice suite. The former contains four pre-filled Information Bases, or iBases, which InfoCentral calls its databases. These are databases of computer companies, or other companies, travel and even wine. The PerfectOffice version only contains the travel iBase. The standalone version reviewed here also comes with a wide selection of templates for using InfoCentral to catalogue your video collection, and so on.

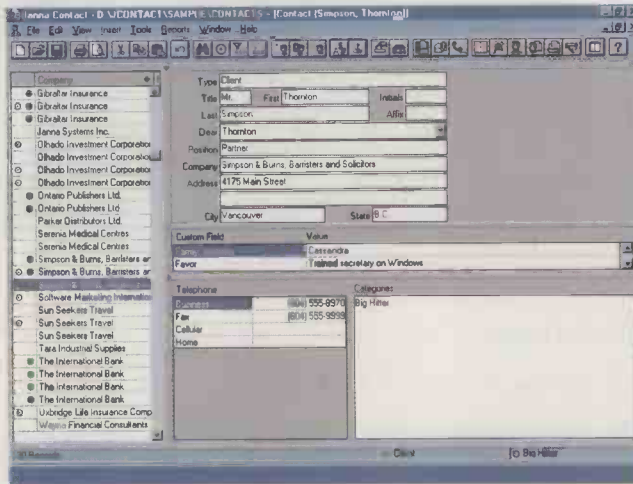
Version 1.1 has a new look and feel to the toolbar, but otherwise the improvements have been designed to satisfy the wishes of existing users rather than attract new ones. For example, you can now view all the appointments and meetings for which you have alarms pending. There's also new GroupWise Calendar Synchronisation.

InfoCentral is innovative, clever, and is designed for the computer rather than trying to emulate non-computer record keeping methods such as a file index card or telephone directory-type lists. There's nothing to touch it for dealing with complex relationships.

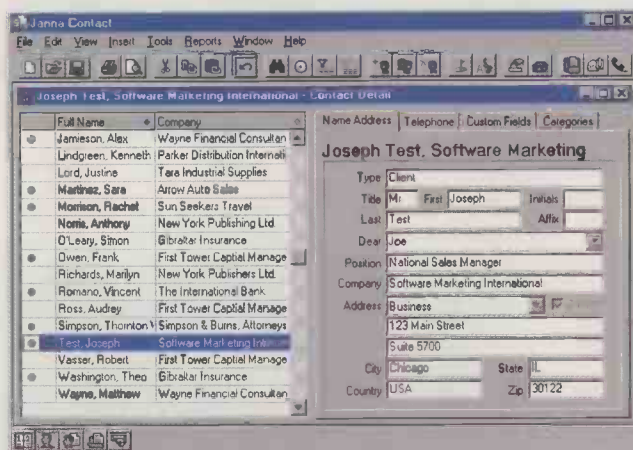
Janna Contact 95 and Janna Contact 2.0

The minimum recommended specification for Janna Contact 95 is a 33MHz 486 with 8Mb of RAM. I don't expect software to run like lightning on a minimum spec machine — but I do expect it to run. Janna Contact 95 didn't run. It didn't even crawl. Tolstoy took less time to write *War and Peace* than Janna Contact 95 took to do anything. Corpses have been more animated.

I wondered whether my copy was a duff one so I telephoned the appropriate people who were disarmingly up front while at the same time trying to cover their rear: there was something about the minimum spec in the UK being 66MHz instead of the US version's 33MHz, but



Janna 2.0 for Windows 3.1 is a very acceptable contact manager with some neat touches



Document handling is good in Janna 2.0

the upshot is that being in a sweat to ship its 95 contact manager with Windows 95, Janna let go of a bum bit of software. Steps are being taken to rectify the

situation, of course. The slowness is apparently caused by some of the code being written in Visual Basic. This is being sorted out right now and monthly upgrade disks are being issued. All should be OK by the time you read this but make sure you get the very latest version when you buy, not a box that's been on the shelf for a month or two.

In the meantime, while castigating Janna for being stupid with this product, its UK marketing person deserves a pay rise for being up front and successfully mollifying some of the more vitriolic comments caused by an afternoon wasted in trying to get the damn thing to work. Also for the speed with which they rushed out Janna Contact 2.0.

PCW Contacts

Janna Contact 95

Price £99.95

Contact Janna UK 01628 23453

Good Points Er, that's a bit tough because...

Bad Points ...it doesn't work.

Conclusion We found this a duff piece of software, but hopefully by the time you read this the problems will have been resolved. Nevertheless, a product not achieving the claims made for it should never have been released.

Janna Contact 2.0

Price £99.95

Contact Janna UK 01628 23453

Good Points Performs all the standard CM tasks and simplifies data entry. Inexpensive.

Bad Points Not brilliant as a network tool.

Conclusion A good low-end contact manager. Worth considering, but at this stage the upgrade to '95 is in question and who knows but that you just might have to switch to another '95 package if Janna fails to rectify Janna 95's speed problems.

Janna Contact 2.0

A complaining user in the Janna Forum on CompuServe complained that Janna 95 "runs like junk" even on his Pentium 133MHz with 13Mb of RAM and a 512Kb cache, but we shouldn't forget that Janna did manage to get its act together with Janna 2.0 for Windows 3.1. It's a very acceptable contact manager that handles all the common tasks and has some neat

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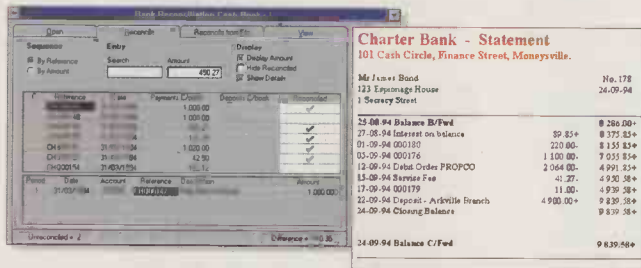
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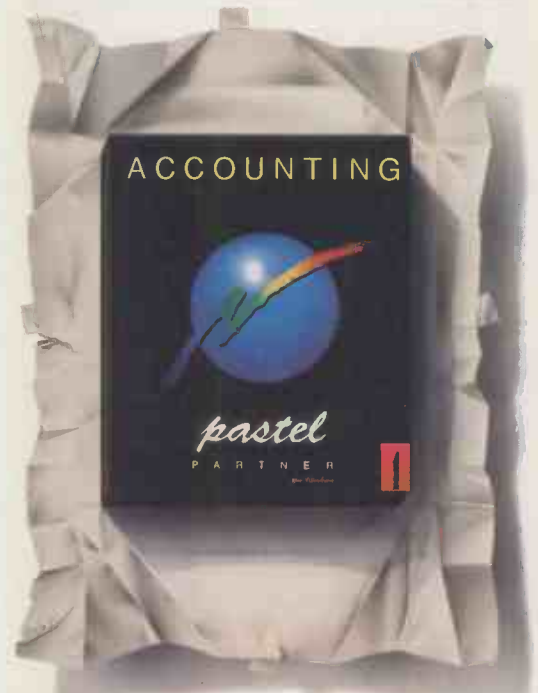
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touches. For instance, Janna 2.0 neatly handles companies with a number of outlets. When you come to add a new contact to, say, the Basingstoke branch of the MacHarris Burger chain, Janna pops up a list of all the MacHarris outlets you have in your database. You can then click the Basingstoke branch and Janna automatically fills in all the address and phone details.

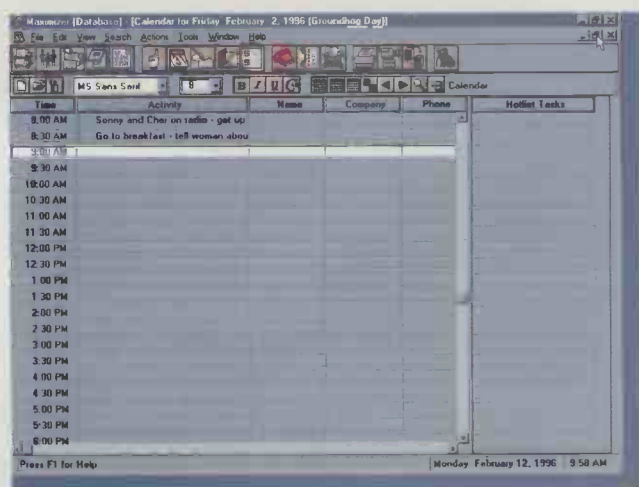
There is almost no limit to the number of custom fields you can create in Janna, which is a strength it shares with the more heavyweight Maximizer. On a smaller scale than Maximizer, Janna 2.0 can be used to extract useful information from the raw database data.

Document handling is good. There are links to Word so that you can automatically insert address and other data into a letter or other document. You can run one of the supplied macros to link with WordPerfect and Ami Pro. There's lightweight network capability and group-scheduling. The diary could be improved, however.

Overall, reasonably quick to learn and simple to use, it has a number of powerful features but doesn't quite bring everything together in an equal whole. The price is a factor in assessing Janna 2, though: it is considerably less expensive than many contact managers, yet matches several in many areas with equal power. It might do exactly what you need and you could save enough to maybe buy a Psion 3A PDA for when you are away from your desk!

Maximizer 3.0

Software that is too focused on a specific sector of the market is invariably too specialised for inclusion in a PCW group test such as this, and programs like Sage Telemagic, and Maximiser, may in future years come to be seen as specialist products.



Maximizer 3.0 is a glowing example of a contacts manager for the professional sales team

PCW Contacts

Maximizer

Price £395

Contact JI Software 01234 214004

Good Points Powerful and feature-rich.

Bad Points Too sales orientated for general use.

Conclusion For a sales force, this is *the* contact manager. Highly commended.

Maximizer is clearly targeted at sales: half-inch letters on the back of the box scream "Sell, Sell, Sell!" and below this is the statement that Maximizer is "the secret weapon of today's sales superstars". To ram home the purpose of Maximizer, the supplied documentation states that Maximizer has been "specifically designed for today's highly competitive selling climate". If ever there was one, Maximizer is a targeted piece of software. It is aimed solidly and uncompromisingly at sales managers and sales forces.

The first version of Maximizer was launched, in the US, for DOS in 1988. It took three years to reach Britain, where the DOS version was launched in 1991. A Windows version hit the pavements and sidewalks simultaneously in 1992. The following year the developers were acquired by Modatech Systems, a Canadian company heavily committed to sales systems and sales automation — which is another pointer to Maximizer's target market.

In the UK, the program is distributed and supported by JI Software, which, stressing that it takes training to make the most effective use of Maximizer, operates a national consultancy service offering installation and individual or classroom training. From this you'll gather that we are handling a very sophisticated piece of weaponry in the armoury of contact management. In fact, Maximizer is the closest that off-the-shelf software gets to

bespoke, and some user training is as inevitable as a Saville Row tailor requesting your presence for a fitting.

The reason for this is the sheer number of contacts that Maximizer is designed to handle — anything up to tens of thousands! According to Modatech the card metaphor layout used by ACT!, for instance, actually slows a salesperson down when the database contains in excess of as few as 150 contacts. Maximizer therefore employs a system of lists, which is a faster and easier method of finding the information needed by the sales professional.

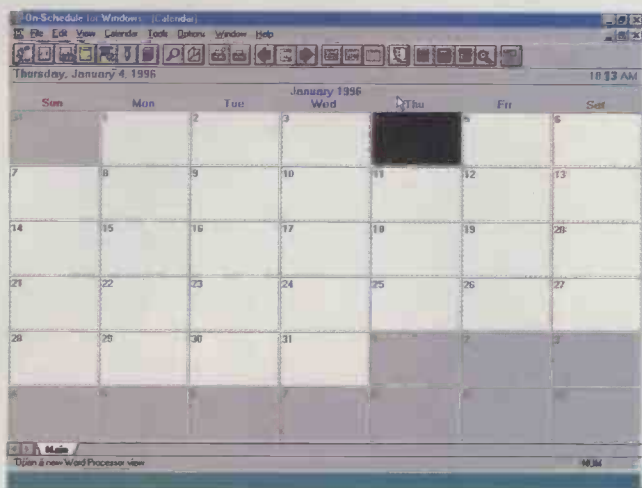
Version 3.0 has many new features, most of them small tweaks here and there such as a customisable toolbar, the introduction of a ribbonbar, and balloon help. There's OLE (Object Linking and Embedding) support, enabling users to attach an Excel spreadsheet or Word document to a contact sheet and edit that material from within Maximizer. The built-in word processor has been beefed up and now allows you to attach headers and footers, zoom, print preview and so on.

Maximizer is a brilliant contact manager, specifically designed for use by a professional sales team. It would be thoroughly deserving of our Editor's Choice but its narrow target market goes against it in this respect. Another consideration is that due to a recent parent company restructure, availability of the UK version of the product will be delayed by a couple of months. Maximizer nevertheless deserves a glowing, Highly Commended award.

On-Schedule for Windows 2.0

There are two versions of On-Schedule: On-Schedule Express is a PIM, while On-Schedule for Windows is a beefed-up version of the former. The main benefits of the Windows version reviewed here are tracking of phone calls, enhanced mail/fax merge functions, integration with other applications, and comprehensive document management. Express doesn't have a phone log, word processor, or document manager. It isn't network ready, doesn't offer fax/mail merge or link to Word, WordPerfect and Ami Pro macros, and the number of databases you can open is limited to five, whereas with On-Schedule for Windows the number is unlimited.

As is clear from the above, On-Schedule is a low-end contact manager. By low-end, we mean that it isn't specifically aimed at a certain type of user such as a sales team, nor is it aimed



On-Schedule is a contact manager for the rest of us. It's comfortable and has some nice touches

PCW Contacts

On-Schedule

Price £99

Contact Prisma Office 01753 810899

Good Points Simple CM for anyone graduating from a PIM.

Bad Points Simple CM for anyone graduating from a PIM.

Conclusion A good choice for anyone with basic CM needs, but not the ideal contact manager for those with high-end needs.

especially at workgroups. In other words, On-Schedule is a contact manager for the rest of us — and with a £99 price tag and this kind of functionality, it could appeal to the pocket of a sensible power-user too.

In October 1994 we reviewed version 1.2. It came on two floppies and occupied a mere 2Mb of hard disk space. Version 2.0 comes on three floppies and is installed into 6Mb. Additional features make the space increase worthwhile.

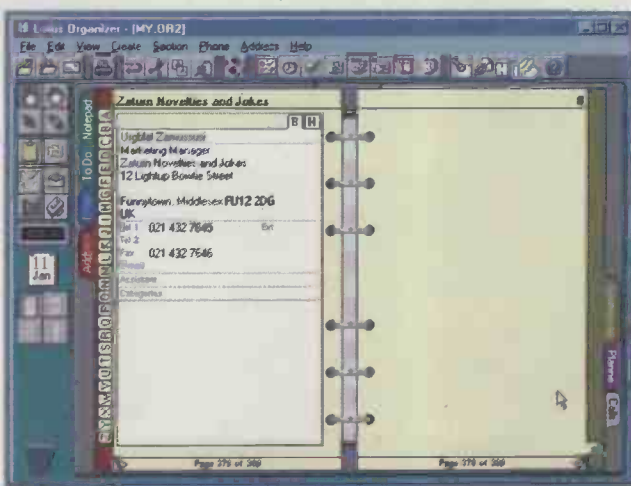
First, a brief description of how On-Schedule does what it does. It displays contact information in lists, so your contact list initially looks like a row of columns in a spreadsheet or database. Clicking on one of the rows displays the contact's details. You can add notes and various reminders of follow-ups. A view called "Agenda View" displays just your appointments. You can also make to-do lists and On-Schedule for Windows has three additional views: Phone Logs keeps track of your calls when you either initiate or receive a call; Word Processor lets you create, save and edit documents; Document Manager allows you to keep track of external documents within On-Schedule.

On-Schedule comes close to InfoCentral in its ability to link data. Apart from letting you see all appointments and phone calls, a Links button lets you view

the records of associated contacts. You have all the usual things such as automatic dialling and report generation, too.

On-Schedule 2.0 has a number of new features, mainly cosmetic. In Phone Books you can keep track of callbacks and birthdays. You can view multiple calendars at the same time, use drag and drop to move or copy activities between calendars, and particularly valuable, you can schedule activities not requiring a specific time. The internal word processor supports BMP, PCX, GIF, TIF, TGA and WMF picture formats, you can incorporate headers and footers, and there are multiple levels of Undo. Additionally, you can now simply select your contact from the menu, click on the Write Letter and have On-Schedule open your word processor and insert the addressee's details.

Anyone considering a PIM but requiring CM features, without the hassle associated with some of the high-powered packages, would do well to consider On-Schedule for Windows. It's comfortable to work with and has some nice touches.



Organizer is the best PIM around. It's a shame Lotus is trying to turn it into an inferior contact manager

Organizer

Organizer is a PIM — probably the best PIM you can get. The trouble is, Lotus is trying to turn Organizer into a Contact Manager. It will never successfully make the transition and thus we currently have Lotus trying to turn the very best sow's ear into what will inevitably be an inferior silk purse.

We say this because Organizer was designed to be a personal information manager with the emphasis on *personal*. It's based on the popular Filofax and appears on screen as a ring binder with coloured dividers separating the Notepad, To-Do list, Diary, Address Book, Anniversary List and Planner. Moreover, it will even print pages to fit your Filofax. These modules integrate seamlessly and there are some neat ways of making interconnections: for instance, you can make an entry on the notepad and link it to a contact in the address book.

The familiar look and feel make Organizer probably one of the easiest personal information managers with which to get started. Contact information is entered on a representation of a paper page. You have a box for the contact's first name, one for their last name, another for their position within the company, the company name, and the address — which is sensibly in one field. Organizer can accommodate unusually long addresses (such as those with house names) and doesn't restrict you to two address fields.

There is a separate field for postcode, fax and phone numbers, and an extension number. You can also assign a category to each contact (such as personal or business) or separate your customers from those to whom you give business.

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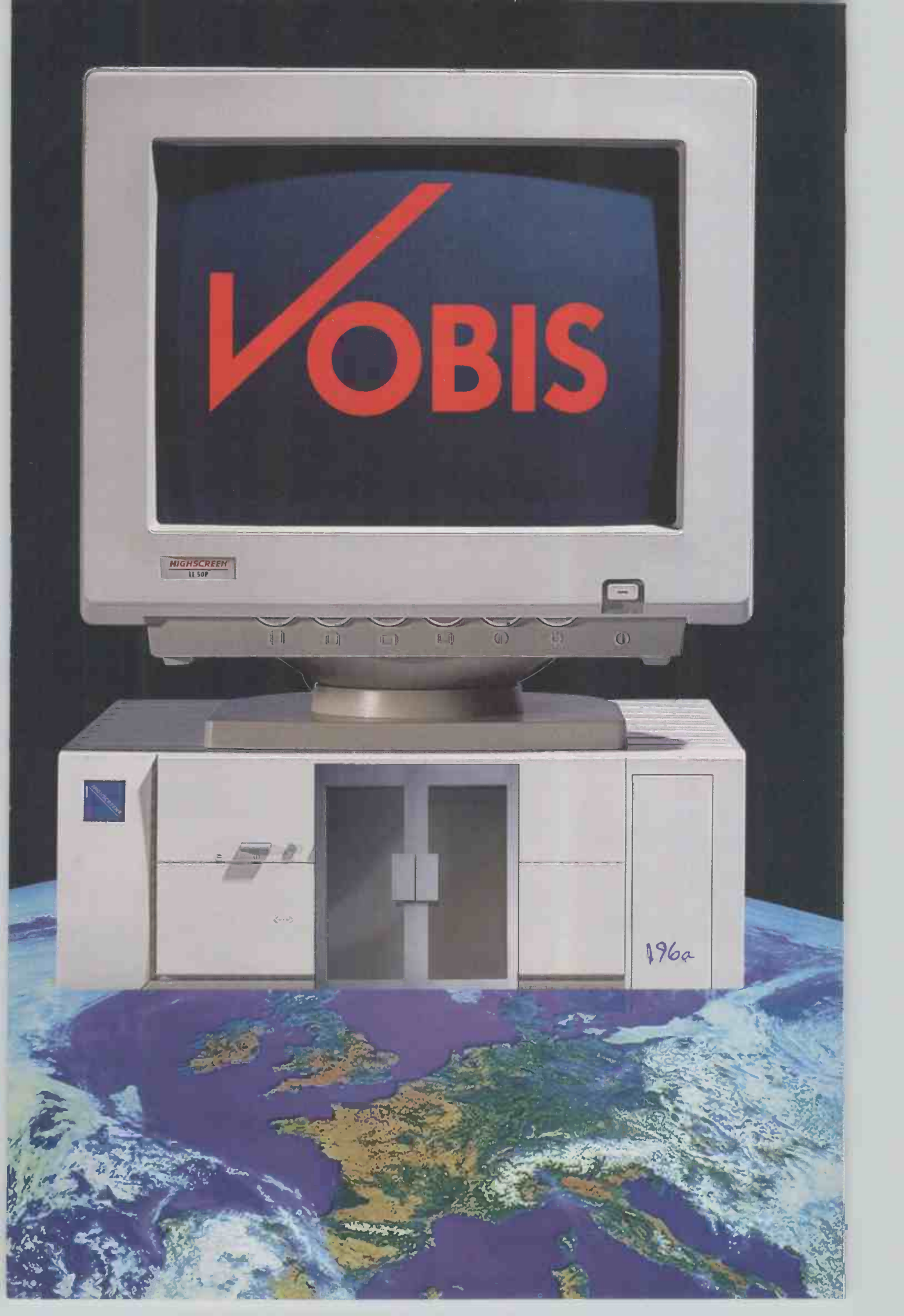


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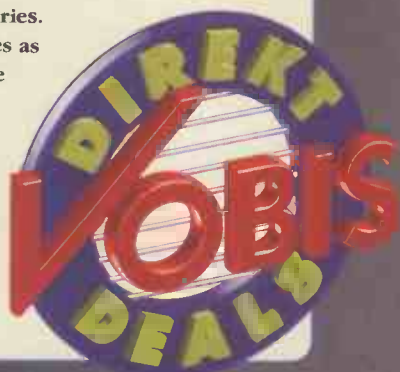
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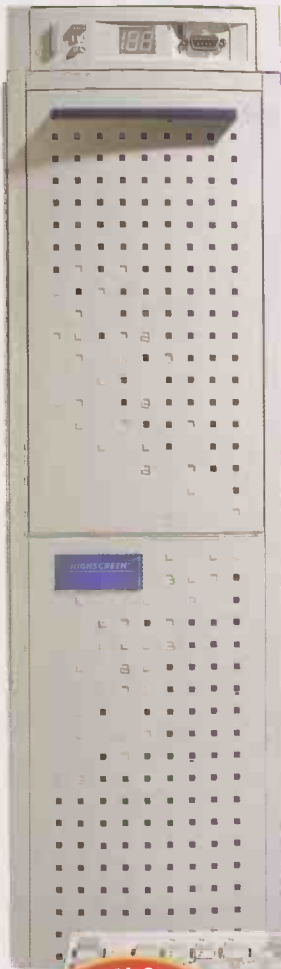
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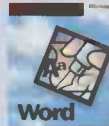
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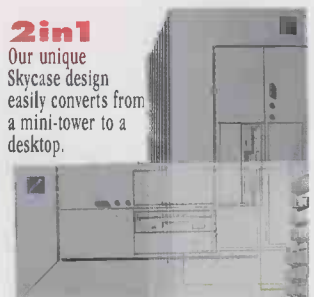
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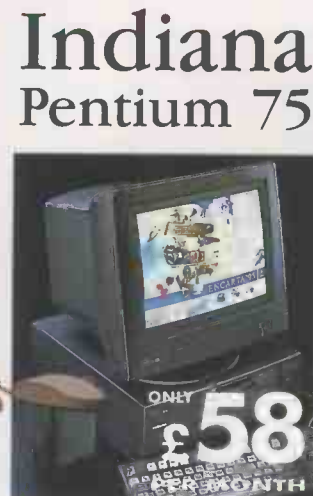
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196h



pentium PROCESSOR

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PCW Contacts

Organizer

Price £99

Contact Lotus 01784 255445

Good Points An easy to use, well-designed PIM.**Bad Points** Lotus is trying to make it a CM when it's not one.**Conclusion** The very best sow's ear being turned into an inferior silk purse. Beaten hands down by Sidekick 95, but not tough enough to rough-house it with the contact managers.

You can view your contacts as one, two, four, or six per page.

There are two, user-definable, boxes below which there is space for reasonably extensive notes. Assuming that the user-definable fields are used for, say, a cellular phone number and an email address, the notes section can soon become badly cluttered with information about spouses, children, orders placed and taken, and so on. This makes Organizer less of a contact manager than a PIM.

Version 2.01 offers new group-scheduling and shared-calendaring features for Lotus Notes and cc:Mail users, but otherwise the enhancements are small but welcome and include a completely new section called "Calls" which you can use to manage phone calls. Using Calls you can manage contacts by tracking incoming and outgoing calls, and display Call entries by various criteria such as status, date, company, category, or name. Some of the enhancements are hugely welcome. In Organizer 1.1 you couldn't schedule two appointments at the same time — you can now create conflicting, overlapping and temporary appointments. On the extremely frivolous side, you can display anniversaries by year, month, category, or zodiac sign.

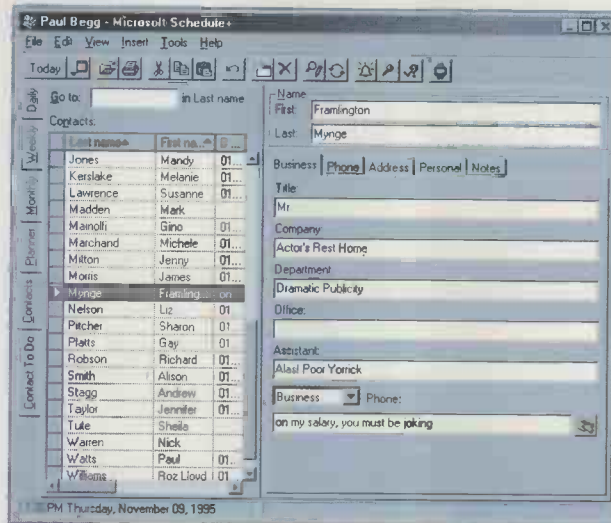
Organizer remains a great program and for ease of use and address management it simply cannot be beaten. However, as needs expand, one can feel frustrated by Organizer's limitations.

PCW Contacts

Schedule+

Price £79 (Windows 95 version)

Contact Microsoft 01734 270000

Good Points Good, basic, address database and time management.**Bad Points** None. It is a basic address book and diary and performs those tasks well. If you want more, look elsewhere.**Conclusion** It integrates perfectly with Microsoft Office and may satisfy all your needs.

Looks familiar? Yes and no. The upgrade of Schedule+ for Windows 95 has been substantial, and there are many improvements

Schedule+

If you've used Windows for Workgroups, you'll be familiar with Microsoft Schedule+ but don't think this is anything like the same product. It isn't. The upgrade for inclusion with Microsoft Office 95 has been substantial and you are looking at a whole load of improvements.

Microsoft calls Schedule+ 95 a time manager and is probably right to try and steer it clear of both the PIM and the contact management categories. In fact, it isn't a contact manager and don't let anyone try and tell you differently, but insofar as an address book can be classified as a PIM, Schedule+ is one.

It excels as an address book. The contact database is clever and well constructed, embracing the benefit of a list of names as well as a data card. Information is entered on a series of tabbed index cards. The first card is "Business", and on it you enter the contact's first and last name, address, title, company name, department, office, assistant, and phone number. The "Phone" card is among the most comprehensive, allowing the entry of two business numbers, two home numbers, fax, mobile, the assistant's phone number as well as a pager number. Next is "Address" where you can enter home address, spouses name, birthday, and anniversary. Finally there's a "Notes" card which provides you with four, user-definable, fields and a large area for making freeform notes.

There is automatic telephone dialling and you can list contacts and to-do's in a single view. The To-Do maker is the jewel in the crown (at least as far as Microsoft is concerned) featuring a daily to-do list along with task filtering, custom task fields, and a project-orientated task

outliner. As a planner and scheduler Schedule+ is impressive, especially so because it is extremely simple to set up and use. You can view appointments by the day, week, or month, and there is a good planner, too.

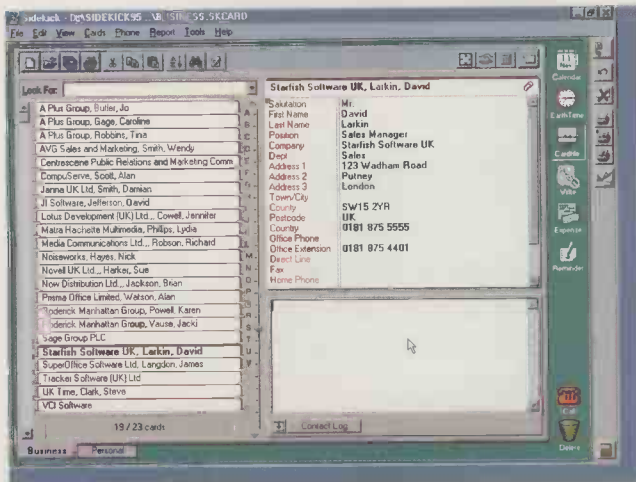
Schedule+ makes full use of drag and drop for tasks, OLE, and linking with Microsoft Word and the Timex DataLink watch. It also includes principles from a book *The Seven Habits of Highly Effective People*, by Stephen Covey.

Basically, Schedule+ looks good and is even easier to use than Organizer, which is a real feather in the cap of the individual or team who conceived this. It lacks a few refinements that distinguish a PIM from an address book/diary, but it is undeniably a PIM. If your needs are simple, it could provide everything you want.

Sidekick 95

Were dinosaurs roaming the primeval soup when Borland introduced a small TSR organiser called Sidekick? Checking up, we find that Sidekick for DOS shipped in June 1984, which maybe isn't the Jurassic period but in the world of computers it's certainly a long time ago. A lot of great software has bitten the dust and passed on to the great beyond and Sidekick almost went that way when Borland failed to launch a Windows version until June 1994. Even then, the competition stole a march on Sidekick by adding greater functionality to their products and Sidekick 2.0 did little to catch up: no ability to send faxes or email, no network compatibility, no synchronisation between desktop and laptop, almost the smallest number of contacts per file, and no contact history. Frankly, Sidekick may have been running in the race, but only just.





Despite a few rough edges here and there, Sidekick is everything a PIM should be

PCW Contacts

Sidekick

Price £39

Contact Roderick Manhattan 0181 875 4400

Good Points Superb, brilliant PIM. You won't be disappointed.

Bad Points Some slight rough edges.

Conclusion Despite its deficiencies, Sidekick is currently the best PIM.

Now, look out — Sidekick's got a second wind and it's back with a vengeance. This is not to say that the deficiencies have been covered (though you can now email and fax from within Sidekick by linking with the Microsoft Exchange) but many of the deficiencies don't apply if Sidekick is treated as a true *personal* information manager. Which is exactly what it is. Unlike, say, Lotus Organiser you'll find there's no pretence of being a lightweight contact manager.

Its PIMness is confirmed by the modules new to Sidekick 95. Expense View is a simple, yet powerful, way of recording your travel expenses. You just enter individual expense items such as travel, hotel bills, and meals, knock it all into categories and then print an expense report. Additionally, there's Earthtime View which is a full graphical map with realtime clocks for any eight of 370 world capitals and commercial centres.

Write View is a greatly improved module. Whereas version 2.0 gave you basic text, you can now select any of your installed fonts, employ bold and italic text effects, underlining and bulleting, and even change the text colour. There is a spell checker and an interface with contact cardfiles. There's a great reminder page, too, which gives you an at-a-glance overview of To-Do's and other appointments.

Other enhancements include improvements to the phone dialler, drag

and drop support, and to the contact management log of conversations, appointments and documents, among other things which lend Sidekick 95 a rock solid feel. It has everything a PIM should have, plus a few additional features, yet it isn't top-heavy. It takes up less hard disk space than Lotus Organiser, though being for 95 it is far slower loading. Deficiencies may show up during continued use but going on first looks Sidekick seems so much better than its competitors that we have no hesitation in awarding it our Editor's Choice of PIM.

SuperOffice

SuperOffice is distinguished by having been developed in Oslo and it's nice to get software that's neither home grown, nor from the US. But it is distinguished for another reason, too: when we reviewed SuperOffice 2.5 in October 1994, it cost £99.95 — version 3.0 costs £249. It seems perverse to us that while other companies are slashing prices, SuperOffice has increased its price by nearly £150. And price isn't the only thing that's been increased: version 2.5 arrived on a single floppy disk and installed into

1.3Mb of hard disk space — version 3.0 comes on five floppies and absorbs 4.5Mb. The trouble is that these increases aren't really represented by super-duper improved functionality. Indeed, apart from a few cosmetic changes and a couple of alterations to bring SuperOffice into line with the basic expectations of a PIM/CM, the new features in version 3.0 are a mite difficult to find.

You enter contact information on what is called the "Company Screen" by clicking on the "New" button. Up pops a dialogue box called "Select Country", which gives a national flag and the name of the corresponding country. Click on your country of choice and the data entry card changes accordingly — the most obvious change being from County/P Code to State/ZIP when you select USA. The address prints differently, too, so your mailings are always nation specific and this speeds things up a bit. This is a new feature and, apart from an ODBC link to database information, looks like the major new feature! It's a good idea, but is it worth the increased price? We doubt you've used up much time getting the answer to that one.

Entering data is simple. First you enter the name of the company, its address, phone and fax numbers and company contact name. Then you can add assorted data about the company such as the business type. Beneath the

PCW Contacts

SuperOffice

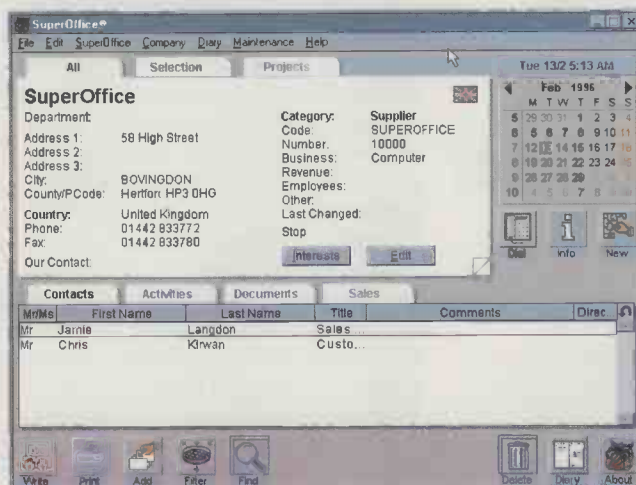
Price £249

Contact SuperOffice Software 01442 871119

Good Points Easy to use.

Bad Points Messy, poor configurability, insane price.

Conclusion Messy, poor configurability, insane price.



SuperOffice is a PIM that tries to be a contact manager and succeeds at neither. Matching the features against the price hike just doesn't add up

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PERSONAL COMPUTER MAGAZINE, JULY 1994

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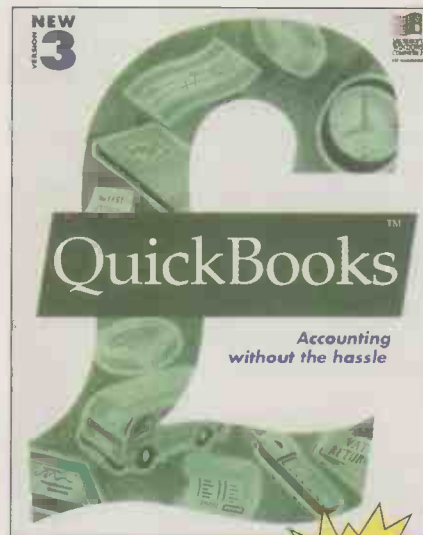
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QB PCW 3/96

Company Page there are some card tabs like page dividers, called "Contacts", "Activities", "Documents" and "Sales". Below these is a dialogue box. Click on Contacts and you can list all your contacts at a company, in the dialogue box. Activities is the place to make notes of phone calls and meetings, Documents is where the program automatically stores a record of faxes and letters you send. In Sales, you keep a record of actual and projected sales relating to the company. It's easy to create documents from within SuperOffice. The seamless merging from SuperOffice to your word processor is impressive and new to version 3.0 is access to database information in ODBC-compliant databases.

On the downside, you cannot alter the fields but you are allowed to add extra ones although these don't show on the Company Page itself. Instead, you have to press Ctrl U for the fields to appear in a dialogue box. This ability to add fields is unsatisfactory, even though it is a new feature.

The Diary Page is where you plan your time. We previously criticised version 2.5 for not having a week, month or year overview and this has now been rectified. To enter an appointment or other diary entry, you simply enter the details in a dialogue box, then drag the entry to a time on the diary page.

Overall, SuperOffice is a PIM that tries to be a contact manager and frankly doesn't succeed at being either. We liked the ease of use, but found it messy to use (Ctrl U for new fields and so on). We also didn't like the lack of configurability. The new features simply don't justify the price hike. Generally, the price does seem extraordinarily high when you compare SuperOffice to almost any of the other programs reviewed here.

TeleMagic Professional for Windows 1.0

Firstly, let's clear away some potential confusion about names. When we last reviewed TeleMagic Professional for Windows 1.0, it was known in some quarters as TeleMagic Professional not only to distinguish it from TeleMagic for DOS but also so as not to give the impression that there was a version of Windows called "Windows Professional". Here we are reviewing TeleMagic Professional for Windows 1.0, which is not the same as the other TeleMagic for Windows 1.0. Got that? Good. Then explain it to us will you?

TeleMagic is widely recognised as

being a specialist contact database for salespeople — particularly a telesales or telemarketing force. While it is very much geared to sales needs (it provides several templates designed to match the workflow of different sales environments), it is a feature rich and newly networkable package that could meet the needs of many business professionals. TeleMagic Professional aims to be an out-of-the box solution to all contact needs, combining comprehensive contact management as well as word processing, broadcast faxing and email capabilities.

TeleMagic links with common word processors for mail merging. Extensive, pre-defined reports and forms printing capabilities are complemented by a full FoxPro report writer. The inclusion of FoxPro has given TeleMagic problems with ten video cards, all listed in the ReadMe file.

TeleMagic supports Database Synchronisation, so users working from home can keep their database as up to date as the office system. It is a two-level relational database: you record the company information on one level and contact data on the other. Company

PCW Contacts

TeleMagic Professional for Windows

Price £595

Contact Sage 0191 201 3000

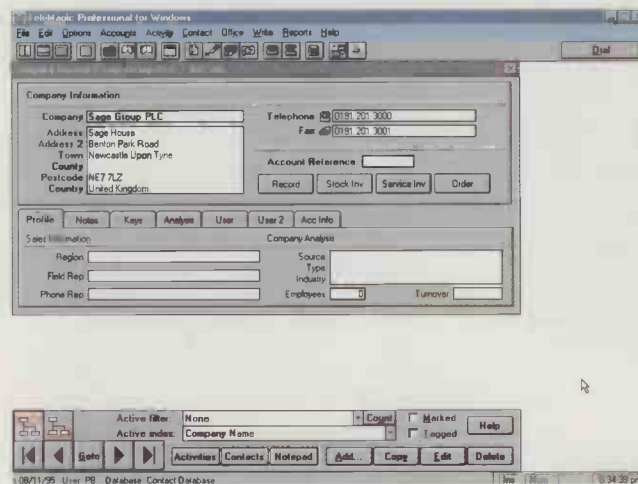
Good Points Powerful.

Bad Points Sales focused and highly priced.

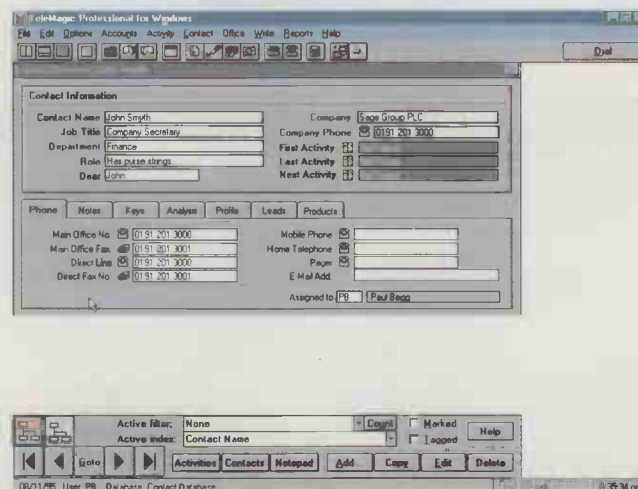
Conclusion Far and away too expensive, but blends with other Sage products.

information includes the company name, address and phone and fax numbers. You can add account details, too, and below the address card there's a row of file tabs providing access to sections called "Profile", "Notes", "Keys", "Analysis", "User", "User 2", and "Account Info" where further details can be stored.

For contacts within the company you switch to another screen where you have extensive contact information: the contact Name, Job Title, Department, Role, and how that contact should be addressed in correspondence. In addition, the screen includes company name, direct line phone number and a record of the first, last and next activity. You can add assorted other data, too, including home phone number, email address and so on.



TeleMagic Professional for Windows is geared towards telesales



Impressive, but highly priced and rather slow in use. TeleMagic Pro/Win is not a package that will attract very broad appeal

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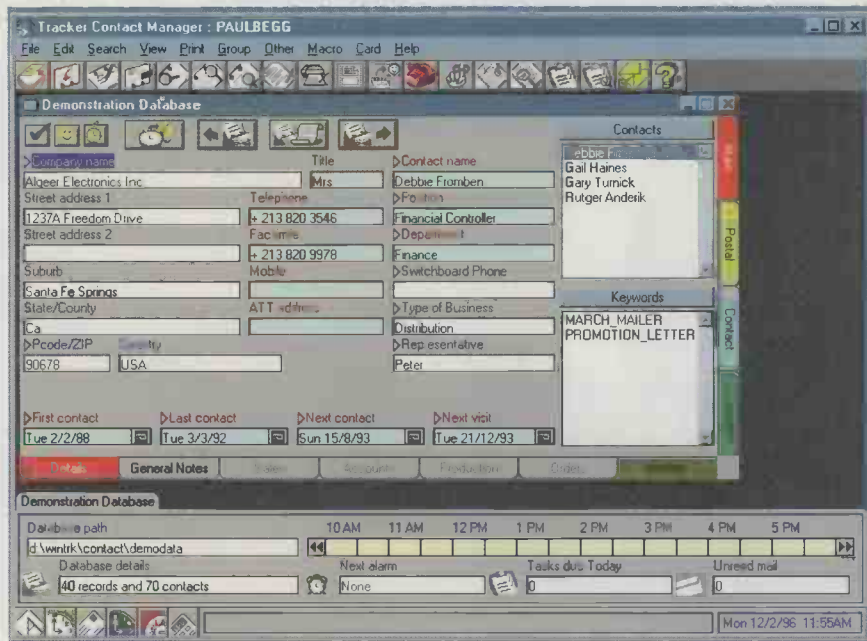
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With its ease of use and combined PIM features with high-end contact tracking, Tracker is a highly commended package

All contacts can be viewed as a list. There are quite complex searching and reporting features and an impressively simple To-Do facility and appointments scheduler that displays day, week, or month views.

There's a step-up package available, called "TeleMagic Enterprise", which is a fully customisable package designed for workgroups. Registered users will receive free support which is offered for 60 days from the date of purchase.

TeleMagic is a big package requiring 10Mb of hard disk space and a minimum of 8Mb of RAM. Frankly, we found it slow to use and the online help was disappointing. Overall, it is a very impressive package and certainly one that should be looked at very closely by anyone considering a high-end contact manager. Nevertheless, we felt it was too sales focused to have a very broad user appeal.

Tracker 2.0

Tracker was developed in Australia, launched in the UK in 1987 and has undergone continued development since then. It is currently one of the three best-selling contact management programs but is seriously priced at nearly £400 (plus VAT) for a single-user version. It makes relatively limited demands on memory, the minimum recommended being 4Mb, but absorbs 10Mb of hard disk space.

Whereas ACT! for Windows increasingly has an on-the-road user feel about it, Tracker is distinctly office-based. It's also more feature rich offering

expense tracking, and docking and synchronisation (available in ACT! with the purchase of additional software, but do bear in mind ACT!'s significantly lower price).

Tracker for Windows was launched 18 months ago and was modular — address database, word-processor, world clock, and so on. Although closely integrated, the modules were bolted together and the whole thing ended up feeling like... well, what it was; just modules bolted together. Version 2.0, which is network ready, incorporates a new look and improved functionality throughout, making it more intuitive and allowing easy navigation between program areas. It incorporates more than 100 additional features.

Among these new features is an envelope addressing template which conforms to Royal Mail Optical Character Recognition (OCR) guidelines. Tracker worked with the Royal Mail to develop this template and is the first product in the UK to include it. The guidelines were laid down by the Royal Mail to support its latest generation of sorting machines which read envelopes using OCR. Addresses printed in a format readable by the OCR machines can be sorted faster (we don't know whether they are accordingly delivered sooner) and the templates provided with Tracker do all things necessary to ensure that the OCR machines can read the addresses.

Among other new features a visual improvement is the addition, to the main screen, of a status pane (a sliding window at the bottom of all Tracker screens) where you are reminded of diary

appointments coming up, outstanding tasks and unread email items. Appointments for a group of users (such as a sales team) can now be viewed simultaneously, making it easier to arrange group meetings and schedule appointments for other people. Additionally, you can keep data on all events relating to records such as letters, faxes, email messages, appointments, meetings, even labels you have printed — and there is a timer that can be started and stopped to record the duration of a specific action or customer call. The result is logged in the record history. Finally, Tracker allows Docking which means that data can be transferred to and from a network by physically connecting and disconnecting.

Tracker is a sophisticated package which combines a Contact Manager, integrated word-processor, and a Time Manager — an appointments scheduler, providing daily, weekly, monthly and yearly views of your time, as well as a task list with up to four different priorities. It allows drag and drop rescheduling and is flexible and powerful in its ability to help you organise your commitments, and to share this information with others on a network. Tracker has power, functionality and ease of use. On the downside, though, it's hefty on disk space and even heftier on the pocket.

Frankly, Tracker and GoldMine are almost equally balanced: the latter's ease-of-use weighs heavily in its favour but GoldMine's ground upwards networking gives it the edge in this high-end side of the market and the 95 version's links to the Net seem to make database synchronisation so easy. Tracker nevertheless, deserves a Highly Commended award — if you are looking for something that's simple to use and combines PIM features with high-end contact tracking, look to Tracker.

PCW Contacts

Tracker

Price £249

Contact Tracker Software 01628 488866

Good Points Combined high-end contact management with PIM features in a simple card index.

Bad Points Nothing to speak of.

Conclusion Has taken over from ACT! as a good all-round contact database. Highly commended.

Power in your pocket — the personal digital assistant

A PIM is essentially a glorified address book and diary. But unlike an address book, which is easily mislaid, a computerised version is safe on your computer, on your desk. The only disadvantage, of course, is that while some degenerate wouldn't give a second glance to an ordinary address book, he might nick your computer, complete with all that essential data. But then, the trouble with a PIM on your desktop is that when you move away from your desk you don't have access to all those addresses and phone numbers.

A paper-based address book really isn't the answer — you'd have to keep it up to date, which you'll never do because nobody ever does. The most sensible solution, at least at first glance, would seem to be a laptop, or notebook computer: you can have one as powerful as your desktop machine, run every desktop application, including multimedia, and have access to the very same database of names and addresses as you have in the office. Moreover, with remote synchronisation you can be as up-to-date away from your desk as when you are sitting at it. But the trouble with a laptop in your briefcase is that even the most featherweight machine can feel like all the lead from the roof of St Paul's Cathedral after you've been lugging it around for half an hour. And, naturally, the batteries will run out just when you need it most. Have you ever stood in a phone booth in the pouring rain, fumbling to start up your notebook, open the application, find the phone number, dial it, shut everything down, and then find that when the phone is answered your contact has gone to the loo and can you call back in five minutes? Have you ever done it in a rough neighbourhood in front of some men whose hobby is no doubt GBH and are clearly wondering what the notebook would fetch from the local fence?

The user's little helper

What you really need is something small and light enough to carry in your pocket, quick to operate and which is discreet, so that using it attracts no more attention than yet another Status Quo comeback.

The answer is an electronic organiser. You can buy one that's no bigger than a small calculator and can be carried no



more obtrusively than a wallet, even when wearing just denims and a T-shirt. And it needn't set you back more than £20. Even the tiniest of these allows you to enter home and office phone numbers, short diary notes, schedule appointments, birthdays and anniversaries, and provide the time and date. The database won't be huge, so you'll have to be selective with the phone numbers you enter, but if you are only occasionally away from your desk and need only a few contact numbers, it's a better storage solution than a jumble of numbers jotted down on a bit of scrap paper — it won't give you a hernia either.

Psion 3a

The upmarket version of the pocket electronic organiser described above is a PDA (Personal Digital Assistant) like the Psion 3a, which is probably the most popular in Europe and the best thing since sliced Hovis. It combines an address database of several hundred contacts (maybe even in excess of a thousand would be possible), with a word processor (on which you can actually work!), a spreadsheet, appointments calendar, and some other stuff such as a game. And you can link it to your desktop computer to keep it up-to-date and save a lot of time re-entering the data. The Psion Series 3a also has software specially designed for it which adds to its functionality. For example, you can get ACT! and even a version of the brilliant AutoRoute Express. Far and away

the best PIM for anyone who's often far and away from their desk.

Timex DataLink Watch

If you don't really need more than about 50 or so contact telephone numbers and don't want to run the risk of losing your Psion or notebook, maybe you should consider the Timex DataLink Watch. Provided you have Windows 3.1 and the relevant software, all you have to do is hold your watch in front of your computer monitor. The screen will flash for a few seconds as the watch's so-called electronic eye captures the data from your screen. You can record almost anything, from phone numbers to your PIN numbers. The watch will remind you, too, of birthdays and anniversaries, meetings and appointments. In fact, you'll know your schedule like the back of your hand.

The Timex DataLink is now also fully integrated in Microsoft Office 95 (see our Schedule+ review on page 197).

PCW Contacts

Psion

Price Psion 3a 1Mb, £339.95;
Psion 3a 2Mb, £399.95
Contact Psion 0171 258 7368;
Fax 0171 258 7242

Timex DataLink

Price £119 (RRP)
Contact UK Time 0171 630 8180;
Fax 0171 931 7498



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RAM	Hard Disk	P100	P133	P150
16 MB Fast EDO	2Gb SCSI	£2,149	£2,399	£2,449
32 MB Fast EDO	4Gb SCSI	£2,799	£3,049	£3,099
64 MB Fast EDO	9Gb SCSI	£4,699	£4,949	£4,999

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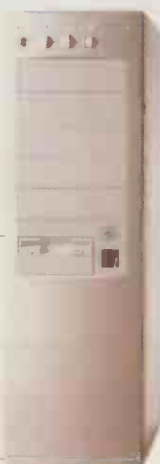
Intel Pentium® Processor 90MHz • 32MB EDO RAM • 4GB SCSI Hard Disk Drive • Quad Speed SCSI CD ROM (100, 150MHz processor options)

£3,049

PRESTIGE RAID FILESERVER

Intel Pentium® Processor
100 OR 120MHz
• 32MB EDO RAM
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in Hot Swappable,
Removable Drive Cradles with
32BIT CPU & 4MB Cache
(expandable to 64MB)
• Options: Dual Pentium Motherboard
• 133, 150MHz processor options)

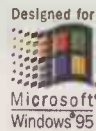
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PRESTIGE RAID PENTIUM® TECHNOLOGY FILESERVERS

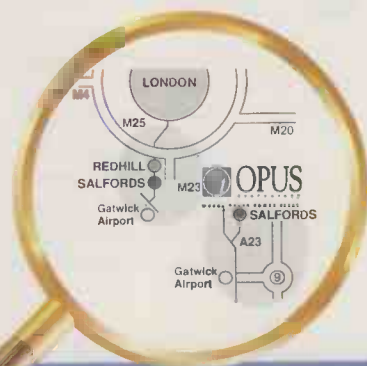
Specification as opposite plus 32MB Fast-Burst Cache • RAID Level 5 Controller with 4MB Cache (expandable to 256MB) & 32 bit CPU • King Tower case with 11 x 5.25" Drive Bays • Removable Drive Cradles

RAM	Hard Disk	P100	P133	P150
32 MB Fast EDO	5 x 1Gb SCSI	£5,099	£5,299	£5,399
64 MB Fast EDO	5 x 2Gb SCSI	£7,799	£7,999	£8,099
64 MB Fast EDO	5 x 4Gb SCSI	£8,999	£9,199	£9,299
128 MB Fast EDO	5 x 9Gb SCSI	£16,199	£16,399	£16,499

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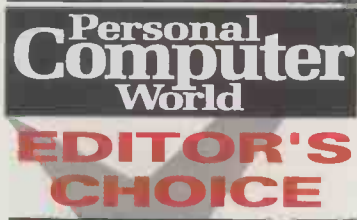
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Editor's Choice



Bestowing a best of group award in this category of software is practically impossible. A very basic contact manager such as that contained in The Complete Home Suite simply doesn't bear comparison with a high-end connect manager such as GoldMine, but this needn't mean that the former is to be found lacking. Indeed, it could very likely handle all the home user's needs and the GoldMine people themselves would be the first to say that GoldMine for a home user would be overkilling over-kill. Both set out to satisfy a different sector of the market — which is actually the big problem here.

Back in 1994, we separated PIMs from contact managers and bestowed an Editor's Choice on a product in both categories. We have done the same this year, but with a deep sense of having been somewhat unfair. The reason being that some products are increasingly aimed at a specialist market.

There are large numbers of CM users who are not directly involved in sales. A customer complaints department, for example, or an appliance servicing business. But even within the selling category there are quite distinct divisions, each being targeted by software. There is, for example, the sales rep in his car outside a customer's business premises who merely wants to get up on his customer's personal details and what he ordered during the previous visit. What he wants is all the information on a single card-file and ACT! or

Tracker would satisfy his needs. A complex product like Maximizer would be next to useless. On the other hand, a corporate user wanting to extract meaningful information from raw contact data would probably find ACT! too limited but Maximizer to be the bee's knees.

So we have looked at these products from the point of view of their appeal to users across the board. Maybe next year this software category will have to be further subdivided and the software assessed according to how it handles specialist needs. For now though, we reckon that users as a whole will find the following to be the best buys.

PIMs

The best PIM wasn't a difficult choice. We thought The Complete Home Suite was innovative, but didn't like the lack of integration between the modules. Lotus Organizer remains extremely easy to use and powerful but Lotus has spoiled it by trying, against logic and reason, to turn it into a contact manager. So, inside this year's golden envelope for Editor's Choice of PIM and with an emotional voice about to thank

mum, dad, the director, producer, the developers and Philippe Kahn is Sidekick 95 — it's the best you can get.

Having to look modest and happy for Sidekick, but really seething inside for having to walk away with the only slightly less prestigious Highly Commended award, is Ecco Professional 3.0, which, though it strays quite a distance into the contact management field, remains a "me" program more than a "them" program.

Contact Manager

Turning to the contact managers, a Kleenex for dabbing away the tears of joy must be passed to GoldMine for Windows — our Editor's Choice of CM. In the immortal words of Tina Turner, it's "simply the best, better than all the rest". It is less specialised than

Maximizer and more powerful than Commence. It's supported by a dedicated team of developers and, above all, use of the Internet is an exciting element of its Windows 95 debut.

Highly Commended awards for a contact manager go to Maximizer (unbeatable as a highly specialised, sales-orientated contact database) and to Tracker, which is a more broadly-based product and justifiably deserves to share the award.

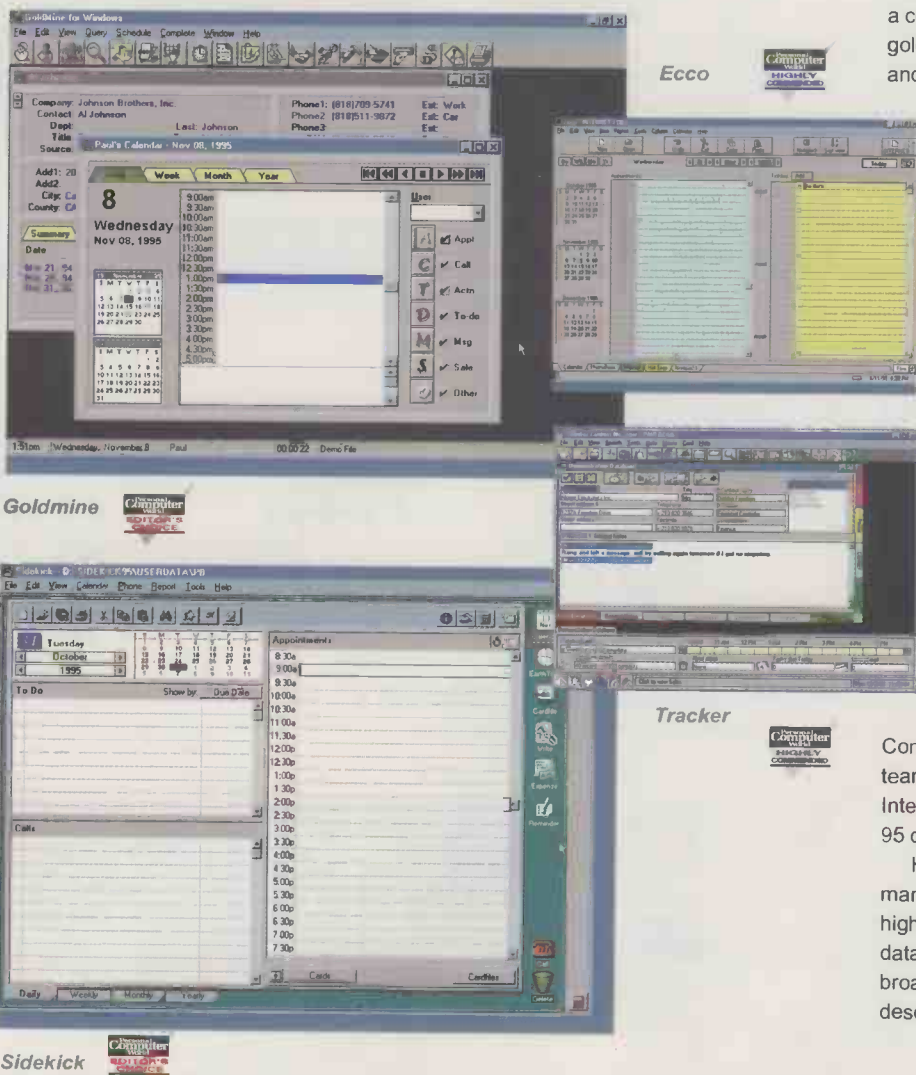


TABLE OF FEATURES

	ACT!	Commence	Complete	Ecco	Goldmine	Info Central	Janna	
Product	ACT! for Windows	Commence	Complete Home Suite	Ecco Professional	Goldmine for Windows	InfoCentral	Janna Contact	Janna Contact 95
Version reviews	2.0	3.0	1.0	3	2.5a	1.1	2.0	
95 version expected	not known	mid-96	no immediate plans	1st quarter 96	now	unknown	how	n/a
Author	Symantec	Jensen-Jones	Alpha	NetManage	Elan Software	Novell	Janna Systems	Janna Systems
Supplier	Symantec	Now Distribution	Alpha	Roderick Manhattan	AVG Sales and Marketing	Novell	Janna UK	Janna UK
Phone	01628 59222	0181 288 3512	01752 897100	0181 875 4400	0171 454 1790	01344 724000	01628 23453	01628 23453
Fax	01628 592393	0181 288 3514	01752 894833	0181 877 1388	0171 345 9126	01344 724010	01628 33220	01628 33220
Price	£189 inc	£199	£35	£129	£395 ex VAT	£70	£99.95 ex VAT	£99.95 ex VAT
Type: PIM or CM	CM	CM	PIM	CM	CM	PIM	CM	CM
Hard Disk	5Mb	7Mb	14Mb	11	6Mb	8Mb	8Mb	12Mb
Memory	4Mb	2Mb	8Mb	8	8Mb	4Mb	8Mb	12Mb
Diary	●	●	○	●	●	○	○	●
Address Book	●	●	●	●	●	●	●	●
To-Do List	●	●	○	●	●	●	●	●
Word Processor/Notepad	Word Processor	○	notes	notes	○	○	notes	notes
Auto-Dial	●	●	●	●	●	●	●	●
Call-logging	○	●	●	●	●	○	●	●
Document Management	○	○	○	○	●	●	●	●
Workgroup Scheduling	●	From £545	○	●	●	○	●	●
Data Synchronisation	● with ACT! Mobile Link	●	○	●	●	○	with Janna Remote	●

KEY ● Yes ○ No



TABLE OF FEATURES

	Maximizer	On-Schedule	Organizer	Schedule+	Sidekick 95	SuperOffice	TeleMagic	Tracker
Product	Maximizer	On-Schedule	Organizer	Schedule+	Sidekick 95	SuperOffice	TeleMagic	Tracker
Version reviews	3.0	2.0	2.1	7		3	1.0	2.0
95 version expected	now	Dec-99	1996	n/a	n/a	1st/2nd q 96	yes	1 HALF OF 96
Author	Modatech Systems	Odyssey Computing	Lotus	Microsoft	Starfish UK	SuperOffice Software	Sage	Tracker Software
Supplier	Jl Software	Prisma Office Ltd	Lotus	Microsoft	Roderick Manhattan	SuperOffice Software	Sage	Tracker Software
Phone	01234 214004	01753 810899	01784 255445	01734 270000	0181 875 4400	01442 871119	0191 201 3000	01628 488866
Fax	01234 215374	01753 810903	01784 445618	01734 270002	0181 877 1388	01442 873339	0191 201 0308	01628 488855
Price	£395	£99 ex vat	£99	£ 79	£39	£249	£595 + VAT	£249 ex VAT
Type: PIM or CM	CM	CM	PIM with pretensions	PIM	PIM	CM	CM	CM
Hard Disk	8Mb	3Mb	10Mb		5Mb	6Mb	10Mb	10Mb
Memory	4Mb	4Mb	6Mb		8Mb	6Mb	8Mb	4Mb
Diary	●	●	●	●	●	●	●	●
Address Book	●	●	●	●	●	●	●	●
To-Do List	●	●	●	●	●	●	●	●
Word Processor/Notepad	both	Word Processor	notes	○	Word Processor	○	notes	Word Processor
Auto-Dial	●	●	●	●	●	●	●	●
Call-logging	●	●	●	●	●	●	●	●
Document Management	●	●	○	○	●	●	○	●
Workgroup Scheduling	●	● yes with ccMail and notes	●	●	○	£199 per additional user	○	From £895
Data Synchronisation	●	●	●	●	○	●	●	●

KEY ● Yes ○ No



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Winputer Director

Intel Pentium processor
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Diamond Stealth 64 graphics card
(S3 868 controller, 2Mb DRAM)
15" SVGA colour monitor
(resolution: 1280x1024 @ 60Hz)
Quad-speed CD-ROM drive, Sound Blaster 32 AWE card, 2 external
loudspeakers
2 fast serial ports, 1 enhanced parallel port
3 PCI slots (2 free), 4 ISA slots (4 free)
102-key Cherry keyboard (mechanical switch type)
Serial 2/3-button mouse
Windows 95 on CD-ROM
Mini-tower case (414mm deep x 177mm wide x 391mm high)



£1,695 (plus VAT = £1,991.63)

Financing (individuals): £199.16 down, 24 months x £86.10 (includes VAT)
Lease rental (companies): £178.53 down, 33 months x £59.51 (excludes VAT)

Notino Mover

Intel Pentium processor
120Mhz clock speed, upgradable
to 133Mhz
16Mb RAM, expandable to 32Mb
256K write-back cache
800Mb removable hard disk
3.5" 1.44Mb floppy disk drive
(replaceable with MPEG module)
PCI SVGA card (2Mb VRAM),
10.4" TFT colour LCD display
Quad-speed CD-ROM drive, Stereo sound card, Speakers, Microphone
Infra-red comms port, Built-in trackpad and joystick
Enhanced IDE/EPP/ECP controller
Removable, rechargeable NiMH 23W battery
Auto-switching 50W AC/DC adaptor (charges battery while PC works)
Serial port, parallel port, Keyboard connector, ext. monitor connector
PCMCIA type 3 slot (two type 2 slots), Fax/modem (PCMCIA, V34)
Windows 95 on CD-ROM
Size: 300mm x 227mm x 54mm, Weight: 3.5kg (7.7lb)



£2,795 (plus VAT = £3,284.13)

Financing (individuals): £328.41 down, 24 months x £141.99 (includes VAT)
Lease rental (companies): £294.39 down, 33 months x £98.13 (excludes VAT)

Winputer Saver

Intel Pentium processor
75Mhz, upgradable to 133Mhz
Intel Triton PCI/ISA chipset
8Mb RAM, expandable to 128Mb
256K asynchronous cache
memory
540Mb IDE hard disk
3.5" 1.44Mb floppy disk drive
ET-4000 PCI SVGA graphics card
(1Mb DRAM, expandable to 2Mb)
14" SVGA colour monitor
Quad-speed CD-ROM drive
2 fast serial ports, 1 enhanced parallel port
3 PCI slots (2 free), 4 ISA slots (4 free)
105-key Cherry keyboard (membrane switch type)
Serial 2/3-button mouse
Windows 95 on CD-ROM
Desktop case (425mm deep x 425mm wide x 157mm high)

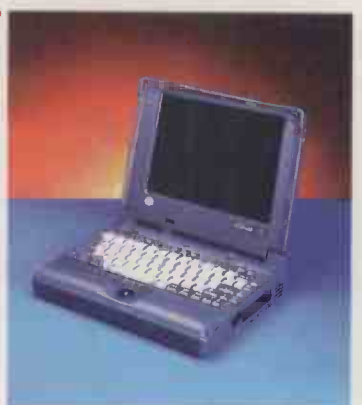


£880 (plus VAT = £1,034)

Financing (individuals): £103.40 down, 24 months x £44.70 (includes VAT)
Lease rental (companies): £92.69 down, 33 months x £30.89 (excludes VAT)

Notino Traveller

Intel 806DX4 processor
100Mhz clock speed
8Mb RAM, expandable to 36Mb
128K cache memory
500Mb hard disk
3.5" 1.44Mb floppy disk drive
10.3" dual-scan colour LCD
display
VESA-LB SVGA card (1Mb RAM)
2 NiMH batteries (2 hours),
AC/DC adaptor
Sound card, built-in speaker and microphone
1 serial port, 1 parallel port, External VGA port
PCMCIA type 4 slot
Fax/modem (PCMCIA, V34)
Trackball (centre front position)
MS-DOS 6.22, Windows 3.11 for Workgroups
Size: 280mm x 220mm x 52mm, Weight: 3kg (6.6lb)



£1,595 (plus VAT = £1,874.13)

Financing (individuals): £187.41 down, 24 months x £81.02 (includes VAT)
Lease rental (companies): £168 down, 33 months x £56 (excludes VAT)

today



Winputer Manager

Intel Pentium processor
120Mhz, clock speed, upgradable to 133Mhz
Intel Triton PCI/ISA chipset
16Mb RAM, expandable to 128Mb
256K synchronous cache memory
1Gb IDE hard disk (mode 4)
3.5" 1.44Mb floppy disk drive
ET-4000 PCI SVGA graphics card (1Mb DRAM, expandable to 2Mb)
Quad-speed CD-ROM drive
14" SVGA colour monitor (resolution: 800x600 @ 72Hz)
2 fast serial ports, 1 enhanced parallel port
3 PCI slots (2 free), 4 ISA slots (4 free)
102-key Cherry keyboard
Serial 2/3-button mouse
Windows 95 on CD-ROM
Desktop case (425mm deep x 425mm wide x 157mm high)



£1,325 (plus VAT = £1,556.88)

Financing (individuals): £155.68 down, 24 months x £67.31 (includes VAT)
Lease rental (companies): £139.56 down, 33 months x £46.52 (excludes VAT)

Winputer Homester

Intel Pentium processor
75Mhz, upgradable to 133Mhz
Intel Triton PCI/ISA chipset
8Mb RAM, expandable to 128Mb
256K async. cache memory
850Mb IDE hard disk
3.5" 1.44Mb floppy disk drive
Fax/modem (V34, 28,800bps)
14" SVGA colour monitor
ET-4000 PCI SVGA graphics card (1Mb DRAM, expandable to 2Mb)
Quad-speed CD-ROM drive, Sound Blaster 16, speakers
Multimedia software, including Encarta, MS Works etc
2 fast serial ports, 1 enhanced parallel port
3 PCI slots (2 free), 4 ISA slots (4 free)
105-key Cherry keyboard (membrane type), Serial 2/3-button mouse
Windows 95 on CD-ROM
Desktop case (425mm deep x 425mm wide x 157mm high)



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Financing (individuals): £150.40 down, 24 months x £65.02 (includes VAT)
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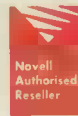
To facilitate your choice the company has put together a number of seasonal special offers*, representing outstanding value for money. Among them are four Winputers. These belong to the company's premium range of desktop PCs, originally designed to run Microsoft's Windows operating system with maximum efficiency.

The Winputer Director, illustrated here, is a high-end system which fully deserves its name despite its comparatively modest price. Less expensive is the Winputer Manager, which nevertheless packs a powerful punch and will appeal to many hard-pressed executives.

Less expensive still are the Winputer Saver and the Winputer Homester. The latter, aimed at the multimedia enthusiast, comes with software, including the Encarta encyclopedia, and an Internet-ready modem

Then there are two fax/modem-equipped portables. One, the Notino Traveller, is a version of the machine, the LBC2-100, that won an Editor's Choice award from *Personal Computer World*.

The other, the Notino Mover, is a luxury notebook that some people already regard as being more a necessity than a luxury.



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OPT-III Dos Software (included)

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- Sample DDE file for Lotus 1-2-3 for Win
- Sample DDE file for Quattro Pro For Win
- 'Carousel' feature with dynamic update
- Review facility of up to 64 last pages
- Free Windows Developers Toolkit now available on request - phone for details.

The image displays several screenshots of the OPT-III software interface. On the left, there's a 'PORTFOLIO' window showing a list of stocks with columns for position, BAA, and price. In the center, a 'Microsoft Excel' window shows a spreadsheet with columns for 'NEWTEXT.XLS' and 'CURRENT2.XLS'. On the right, a 'Prices' window displays a table of stock prices for various companies like Abbey, Barclay, and BT. Below these, there's a 'Sport Index' window with a list of sports events and a 'Prices' window showing market indices like '511 Shares A-E' and '512 Shares F-L'. At the bottom, a 'Teletext on 3' window shows a news feed with headlines like 'BUDGET BOOM SEES SHARES SURGE £12bn 303'.



OPT-III Hardware

- | | |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| OPT-III Teletext Internal PC Card £169 | OPT-III/S External Teletext Receiver £295 |
| Half-length 'ISA' PC card | Details as OPT Card, with: |
| Precision UHF tuner | Standard RS-232 interface |
| Full 'crc' error detection | Attractive compact unit |
| High Stability PLL tuning | High performance CPU |
| Precision CITAC circuitry | Non-Volatile RAM for tuning |
| SAWF filter | 'Viewdata' mode |
| Four acquisition circuits | 'Dumb Terminal' mode |
| Easy plug-in installation - Unique hardware feature - no 'com' ports or IRQ's required | Added flexibility - Suitable for work and home PCs, notebooks, Macs, Unix boxes etc. |

The image shows a screenshot of the 'Update' software interface. It features several windows: a 'SHARES - LEADERS' window with a list of top-performing stocks, a 'FINANCIAL' window with a large line chart showing market trends, and a 'TELETYPE' window with a list of teletext pages. The interface is designed for professional investors, with multiple data series and analytical tools.

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Welcome to Cutting Edge, the section in *Personal Computer World* that combines our regular reviews of games, books and CD-ROMs with features bringing you the latest news about computing, and consumer technologies and online services.

We now have the most comprehensive coverage of these topics available in a general computing magazine. Stay with us and we'll take the pain out of keeping on the cutting edge.

PCW Online

- 2 1 2 **Focus** — There's fighting talk from Microsoft with the launch of Internet Studio. Let battle commence, says Mark Prigg.
- 2 1 8 **net.answers** — Finding your way round the Internet throws up all sorts of queries. Nigel Whitfield has the solutions.
- 2 2 2 **net.news** — Internet porn doesn't worry as many people as the headlines would have us believe, a survey says; Shockwave hits home; and here comes Internet access on cable. PJ Fisher rounds up the news.
- 2 2 7 **net.newbies** — How to get online, the easy way.
- 2 2 8 **Focus** — In the final part of his HTML tutorial, Nigel Whitfield looks at forms and scripts and shows you how to make your Web page look a little different.

PCW Futures

- 2 3 7 **Innovations** — Tim Frost on automation-driven video servers.
- 2 3 8 **Horizons** — Every home could have it — the Internet, that is; but not yet. Simon Rockman tells you why.
- 2 4 1 **Bluesky** — How about ordinary, everyday, items like shoes and carpets as network devices with powerful computing power? MIT is checking it out, says PJ Fisher.
- 2 4 2 **Retro Computing** — Simon Rockman on the immense appeal of the ZX81.

PCW Media

- 2 4 4 **Books** — Electronic globetrotting and the Internet for Windows come under our reviewers' scrutiny.
- 2 5 2 **CD-ROMs** — Art is in the picture this month, as Adele Dyer takes a Stroll Through 20th Century Art, Japanese Paintings, and Renaissance to Impressionism.

PCW Fun

- 2 4 7 **Kids' Stuff** — Join down-at-heel Dan looking for opals in the Outback, follow the Adventures of Busy Billy, and check your powers of survival in ancient times. With Paul Begg.
- 2 5 7 **Screenplay** — Virtua Fighter 2, The Hive and Steel Panthers have kept the PCW joysticks jumping this month.
- 2 6 0 **Leisure Lines** — Puzzles with JJ Clessa.



Who do you want

Microsoft's lukewarm reception into the Internet arena shook the company into re-evaluating its whole Net strategy. Internet Studio is an attempt to claw back some of the ground lost to others. Mark Prigg reports.

Microsoft has declared war on the Internet community, and on NetScape in particular, with the release of Internet Studio, its Web page design tool and environment.

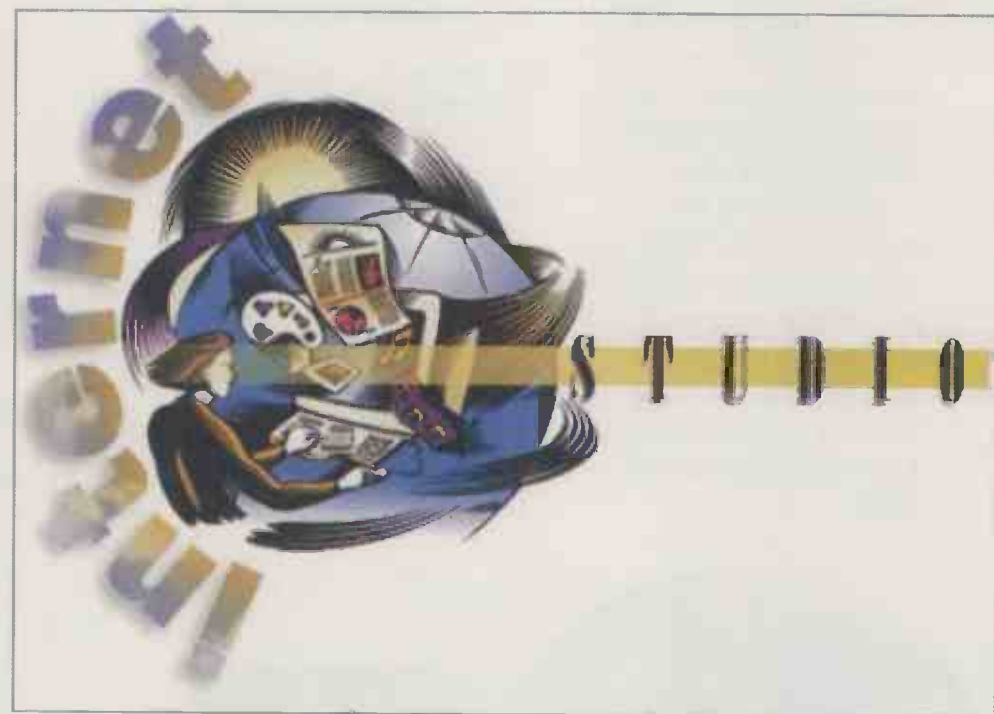
Previously known as "Blackbird", Internet Studio is a complete end-to-end publishing system. Rather than just an HTML editor, it allows Microsoft's new extensions to HTML, which offer Java-like capabilities, to be used. This means that Internet Studio will require not only new browser software but new authoring tools and servers to be installed.

The way back

Microsoft's reason for introducing Internet Studio is simple. Bill Gates recently admitted that his company misjudged the Internet, while companies such as NetScape gained huge market shares in the browser and Web server market (NetScape currently holds around 80 percent of the browser market). Internet Studio, along with a new browser and server, is Microsoft's way back into the Internet marketplace.

"We didn't miss the Internet," explained Bill Gates recently. "We knew this was the future. What we did miss was the incarnation of it."

The Microsoft Network (MSN) contributed greatly to Internet Studio's existence. It was originally planned as a content creation system for MSN and Microsoft's CD-ROM products. But as the Internet market took



off in such a huge way and MSN received a lukewarm response from users, Microsoft realised it had to do something.

Changes to Microsoft's Internet strategy have been fast, and the company now has its snappily titled "Internet Information Server", basically a Windows NT box with Web and Internet Studio extensions. Microsoft also plans to make inroads into the browser market with Internet Explorer, which in its v2 incarnation began to introduce some of the extensions to HTML that allow Internet Studio to create its rich multimedia content.

Although Gates has touted Internet Studio as "a kind of extension set to HTML", it is far more than that. Microsoft has

The Blackbird has flown. Microsoft has decided that "Internet Studio" is a more attractive name for its design software

made a big deal of Internet Studio's ability to "work with existing protocols such as HTML and HTTP," but this is not really the case. Users can view Internet Studio sites in other browsers such as NetScape's Navigator, but what they will see is a seriously cut-down version of the site without any of the bells and whistles Internet Studio allows sites to utilise. The HTML extensions Internet Studio will use will be published by Microsoft, so that any Web browser can incorporate them. Microsoft plans a free, downloadable helper application that will allow existing versions of any other Web browser

on Windows 95, Windows NT and the Macintosh (i.e. NetScape Navigator, Spyglass, etc) to view all features of an Internet Studio site. Internet Studio 1.0 outputs HTML, so in theory, standard Web browsers on any platform can display Internet Studio content. Microsoft is proposing additional open extensions to HTML through the Internet Engineering Task Force. Both Internet Studio and Microsoft Internet Explorer will support these and other approved extensions to HTML, thereby providing users with an interactive Web experience.

The move to extend HTML by simply putting the standards into



to fight today?

their software and then gaining approval has not gone down well with the market. One developer told us that "although they have you believe they are open, NetScape is now incredibly proprietary with its HTML extension. If Microsoft is going down the same road, we have trouble. The idea of the Internet is to be open, but it could be a bloodbath between NetScape and Microsoft."

Fighting talk

Well, although Gates has done his best to play down confrontation, saying: "If there is an open standard supported by enough people, we will also support it", NetScape is in for a battle. "If a fight is what Gates wants, we are ready. We think the Internet should be based on open standards, and we will fight to ensure that happens," said James Barksdale, NetScape's CEO. He added dramatically that Netscape would "offer freedom to the masses. It's a tough fight, I'll grant you that, but we're brave... We believe that God is on our side."

Sceptics such as Sun's John Gage suggest Microsoft's future is behind them: "The computer industry is preparing for the new life forms to emerge. Is Microsoft going down a pathway that refines jellyfish when it's time to leap to vertebrates?"

In the Studio

Many people see Sun's Java as a competitor to Internet Studio. However, there are some major differences. Java is a program-

ming language, while Internet Studio is an online publishing system. Therefore, Java is designed for programmers while Internet Studio is designed for online publishers. Internet Studio includes open scripting capabilities but also a frame-based layout environment, hypertext authoring, content management, one-button publishing, and third-party design components (based on OLE). While Microsoft promises to include Visual Basic and C++ scripting capabilities directly, other programming languages, like Java, can be plugged in. So Java is just a part of the solution; Internet Studio includes the whole caboodle.

Some of Microsoft's extensions, such as frames, are also included in other products,

including NetScape's browsers. However, as the "official" standard has yet to be ratified, there are likely to be differences in implementations for some time to come. Also in the market is JavaScript, a cut-down scripting version of Java developed by Sun and NetScape aimed at the non-technical market. And to confuse matters even more, Microsoft has announced that it has licensed Java from Sun and plans to fully support it.

From a developer's point of view, Internet Studio allows you to work with familiar tools and incorporate content from any OLE-enabled application such as Microsoft Office and other third party applications. It's also fully extensible via OLE controls and a published SDK, so sites will be far easier to keep up to date.

Internet Studio actually separates the design of a page from the content. Content providers can therefore create multimedia applications using an automated production process, keeping their content refreshed via continual updates. This would be ideal for something like an online newspaper.

With its advanced text layout features, transparency effects, and streaming .WAV and MIDI sound effects, Internet Studio allows content providers to easily create sophisticated multimedia pages that convey a highly branded look and feel. Although these are (just) available in Java-enabled pages, they are still difficult to create without using Java.

Existing Internet publishing tools do not provide content providers with the design

Designing sites in Internet Studio

Internet Studio is "far more of a designer's tool than anything else I have ever seen. Until now, programmers were the ones doing online services. Now this lets the designers on," believes John Wood of Prince, who was a Beta tester of the system.

Internet Studio's design environment is a forms-based development system similar to Visual Basic, although unlike Visual Basic, no programming is required. The development environment is fully graphical and easy to use. Page components are known as controls, which are basically small OLE applications. A number of pre-packaged controls such as navigation, rich-text, multimedia, and other special controls specifically designed to support the creation of Internet Studio pages, are included by Microsoft, but third parties can design their own controls (using the Microsoft OLE Control Development

Kit packaged with the Microsoft Visual C++ development system). Although content is displayed within controls that have been laid out on Internet Studio pages in the Internet Studio designer, the content itself can be authored in any number of existing third-party tools.

Most existing OLE controls will also work in the Internet Studio environment, although Microsoft stresses they may not be optimised for online applications. For example, a standard AVI video control could be put on an Internet Studio page, but this would almost certainly require a huge download time. The controls that are part of Internet Studio are optimised for modem connections. Microsoft is to supply a set of Internet Studio electronic form controls that allow content providers to create rich MAPI-based Eforms without any programming. Internet Studio will also support all standard existing HTML forms.

control necessary to establish a highly branded online presence, according to Microsoft. Advertising agencies the world over are wrestling to keep their brand in the online world, and Microsoft hopes to help them out. The graphical capabilities of Internet Studio mean that users can use more graphics and complex layouts than in any existing Web pages. According to Bruce Haldane, Microsoft's UK Internet Studio Product Manager, it will allow "Interactive Applications" rather than Web pages. "Using Internet Studio, you can take the whole screen in the same way a traditional application does. This adds a whole new dimension to online services," he claims.

Making advances

Internet Studio's ease of use is due to advances such as drag-and-drop editing and Microsoft's new wavelet-compression algorithms. These allow first text and layout to appear on a page, with pictures streaming in, gradually becoming clearer as more data is received by the browser. Internet Studio will also work with third party tools, preserving an organisation's investment in existing content authoring software. Graphic artists accustomed to Adobe Photoshop can simply use the Photoshop plug-in for Internet Studio planned by Adobe, rather than learning a new package.

Adobe has announced that it will offer an Acrobat control that allows Acrobat .PDF documents to be included in Internet Studio pages. Also, Calagari has an integrated Internet Studio TrueSpace editor that enables designers to easily create 3D virtual worlds which can then be displayed in the Internet Studio sites by a Microsoft 3D VR control. The Internet Studio 3D VR system can import and export Virtual Reality and Modelling Language (VRML), although it looks as though, like HTML, Microsoft's VRML will include some proprietary extensions.



An early prototype produced an online version of "Entertainment Today", a US talk show

Macromedia has demonstrated an Internet Studio viewer and plug-in editor for Macromedia Director (Shockwave) movies, which are also viewable in NetScape's navigator.

Customers see and interact with Internet Studio sites through a set of pages. Internet Studio sites are then organised hierarchically into nested sections. Sections are similar to Explorer/Windows 95 folders, reflecting Microsoft's plan to integrate online services seamlessly into Windows 95.

You've got the look

Internet Studio's a frame-based layout environment gives the content provider complete control over the look and feel of pages. Arbitrary object placement, object layering, and advanced transparency effects can be used to enable designers to create sites.

Home Delivery allows users to schedule delivery of a site directly to their desktop and view the site at their convenience off-line. Through integrated OLE automation support, all aspects of the publishing and design processes can be automated using tools such as the Microsoft Visual Basic programming system.

The two main components that the content providers will

work with when designing sites are the site design environment and the content authoring environment, reflecting the way Internet Studio separates design and content. The site design environment is used to create designs, whereas the site manager is used to create a page's structure and to organise its content. The site manager also allows the content provider to manage content updates. Using the site manager, a site is organised into nested sections. Each section may contain pages, style sheets, and media content objects such as graphics, documents and sound. Pages and their associated controls are created and modified by the page editor and individual control editors. Similarly, the style-sheet editor allows designers to create and modify style sheets that supply formatting information for text-based controls. The content authoring environment includes the Internet Assistant for Microsoft Word which allows the creation of HTML structured stories consisting of graphically-rich multimedia documents.

Security matters

Internet Studio will support Secure Transaction Technology

(STT) for financial transactions, and SSL and PCT for secure communications across the Internet. There will be security measures for downloading OLE components that are part of Internet Studio pages. Companies will be able to certify their OLE components and code scripts, so consumers can choose to only download components supplied by clearly identified, known companies (based on Microsoft's digital signatures technology).

Static and dynamic pages

The Internet Studio system supports both static and dynamic (created for each user) pages. A static page contains information that is not updated on a frequent basis. In both cases, Internet Studio displays content by retrieving objects from a server-based Caching Object Store (COS). This causes objects (including pages, controls, and actual content) making up an application to be sent from the Internet Studio server to the client machine. The COS is a distributed object system that allows applications to be accessed with very high performance, even over slow links (down to 9600 baud).

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What ever happened to MSN?

With all the hype surrounding Internet Studio and Microsoft's whole new Internet strategy, one could be forgiven for asking about MSN. Remember MSN? Microsoft's online service that was going to replace the Internet, change the world and make people hold hands and sing happy songs together under a poster of Bill Gates....

It didn't really happen, did it? MSN was launched to almost no users, and suffered from a lack of content and poor access. But along with the company's rethink about the Internet, Microsoft is repositioning MSN as an Internet service.

"We want to make MSN the best site on the Internet," explained Gary Hunt, MSN UK's business development manager. Microsoft has now linked up with Pipex in the UK to allow MSN subscribers access to the Internet, and it hopes MSN will become "Internet Plus".

"We are planning to make MSN a kind of super Internet Directory, with its own content," explained Hunt. "We also plan to soon make all of MSN's exclusive content available from the Internet, and we already have a dedicated UK MSN production team aiming to build the UK community of MSN users."

However, whether or not MSN takes off seems almost irrelevant to Internet Studio. Although MSN will undoubtedly become a useful directory service, it seems that it has not worked out as Microsoft intended. Internet Studio was first conceived as an MSN content creation tool, but due to overwhelming market forces it now seems Microsoft is in some way admitting it was wrong.

As one analyst told us, "The time they wasted with MSN could mean their downfall in the Internet market." Or maybe not.

As objects are transmitted from the server to the client, they are cached on the client computer. The Internet Studio client cache is permanent, so objects are maintained between sessions. Internet Studio tracks which objects have changed between sessions, and only transmits changed objects from the server to the client, thus dramatically boosting performance. Design elements such as mastheads, graphics, text, and multimedia components that have not changed between application sessions are taken from the cache without incurring a transmission delay.

Internet Studio caches at the object level, so if only one object on a single Internet Studio page has changed, only that object is transmitted. The rest of the page is displayed from the cache. Although products such as Navigator already include cacheing, this is one of the aspects of Internet Studio that requires a Microsoft branded server.

Internet Studio pages are then served on the Internet over HTTP, the standard communication protocol for the World Wide Web. Although Internet Studio uses HTTP, and is described as "extended HTML" by Microsoft personnel, it is a complete online system in its own right, but one that uses HTML and HTTP to allay fears about a totally proprietary system.

Let battle commence

Criticising Internet Studio, although it is undoubtedly a superb online environment,

is easy. For one thing, if you don't have Windows 95 and the high-spec machine that goes with it, you cannot use Internet Studio. Microsoft has promised Macintosh versions of the browser but will not commit to a firm date. Does this form part of a Microsoft world dominating strategy for Windows 95? Probably. There will undoubtedly be a Macintosh version of Internet Studio's browser add-on, but Windows 95 remains the best operating system for this kind of application.

Internet Studio will not necessarily succeed. Microsoft is entering the market at a time when the big players are already established. However, it is also entering just before the Internet becomes a reality for the mass market. If it can push the idea that Internet Studio is the best Internet access method around, then it could well clean up. The disadvantage Microsoft has is that not only does Internet Studio need to succeed, but so does the company's server and browser. Unless the company can persuade other server and browser software vendors to support its HTML extension, the whole strategy may well fail, as the level of success the server and browser would need to achieve seems unlikely.

There is also NetScape to consider. With its Java extensions and installed user base, Navigator could be the winner in the Internet battle. NetScape supplies servers, of course, and it seems unlikely that it will support Microsoft's extension. Only time will tell if Bill Gates has really missed the boat.



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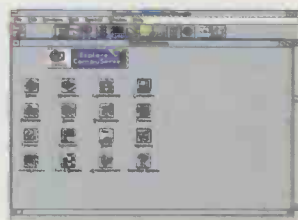
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Nigel Whitfield guides you through the Internet.



Caution! — children on the Internet

Q. My daughter is at a specialist co-ed school with some bright kids — A level maths at 12. The Head would like to set up an email system but worries about a whizkid getting into the "porn" stuff. Having read in PCW about gate-keeper systems, I'm sure any of these would be broken into in moments. It seems the only answer is to use a server dedicated to email. What are your suggestions?

A. There's a growing number of applications, such as NetNanny and SafeSurf, that are designed to prevent unauthorised access to different parts of the Internet. Most of these programs sit between your existing Internet software and filter out requests for certain sites. Some of them will also scan email and check for particular words or phrases, flagging them for attention.

However, you need to keep such software up to date, otherwise it won't prevent access to new sites as they appear. And

Turnpike may be one solution if you want to restrict access to certain parts of the Internet

it's also possible to find ways round some of the programs very easily, which means they may not be suitable for the needs of your daughter's school.

The best way to protect children from seeing things you don't want them to is to supervise their access to the Internet, but obviously that's not always practical. The next best thing is to set things up so that they don't have access to any of the programs that can be used to retrieve unsuitable material. For instance, don't provide access to the World Wide Web or to file transfer programs if you're worried about what might be seen.

One way to do that is with a mail-only connection to the Internet, which might be a little limiting for some needs. On the other hand, it could also be a cheap way of connecting. Newsgroups are also useful for many people, including children, but there aren't many pieces of

software that will let you download lots of newsgroups and keep a separate count of read messages for each person.

The Turnpike Internet software *can* do this, but it also includes NetScape so people might be able to browse the Web, unless you only allow them access to the offline part of the program which provides access only to mail and news.

An alternative is Virtual Access, which can be used with conferencing systems such as CIX and CompuServe as well as with an Internet provider such as Demon or Research Machines. VA also allows each individual to have access to a selection of newsgroups, and includes more facilities that may be of use in a school, such as the ability to review all outgoing mail messages before they're sent.

The advantage of a solution such as Turnpike or VA is they can be used to allow students

access to only mail and newsgroups, but still allow staff — or supervised children — to play with the World Wide Web or other parts of the Internet.

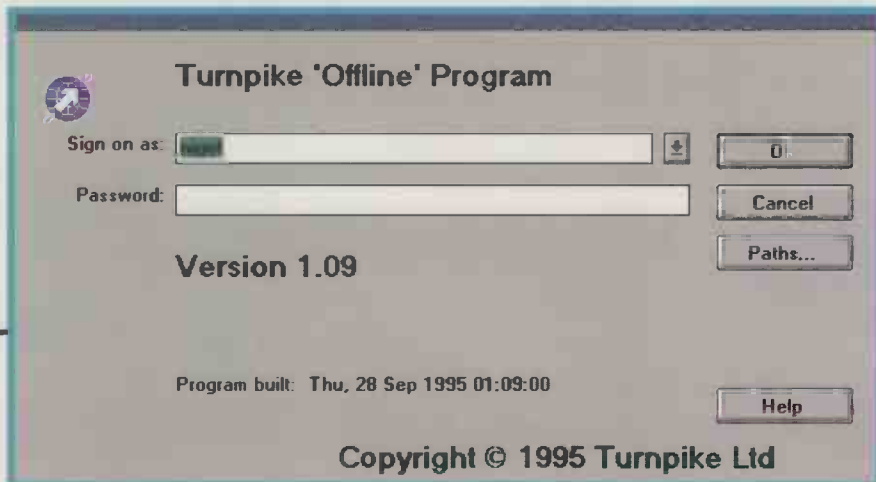
Finally, remember that the information available will also depend on the service provider you choose. The Research Machines Internet access, for example, is specifically tailored for schools and it therefore doesn't carry some of the "problem" newsgroups you might want to restrict.

For more information on the software, contact Turnpike on 01306 747747 or Ashmount Research on 0171 831 4000.

Points on ping

Q. I have heard that you can use a program called ping to test the speed of your modem and also to check if an Internet address is up and available. How does this work?

A. Strictly speaking, ping isn't a program for checking the speed of your modem, but it does give you information about the speed of a link between your computer and another one. Ping works by sending a message to another computer and timing how long it takes to receive an echo of that message back. The time is



usually given in milliseconds — thousandths of a second. You can't use it as a complete guide to the speed of your modem as there are several factors affecting the time it will take to receive a response — including, sometimes, problems with the computer you're trying to reach — but it could give you a rough guide.

For instance, if you dial into Demon Internet, the computer you're connected to has the Internet address 158.152.1.222. Using the command ping 158.152.1.222 will send messages between your computer and the Demon Internet gateway. Depending on the speed of the modem you're using and the quality of the connection, you should see a result of between 200 and 300 milliseconds.

If you now try using the same command with a computer elsewhere on the Internet you'll see a different figure. Sometimes, if you hit a slow link, this will be much larger. Sometimes ping will also report "packet loss". This is an indication of the amount of information being lost en route from your computer to the one it's trying to connect to. Most applications such as ftp and Web browsers won't actually lose data, but they'll re-send it to overcome the problems, which means everything will take longer to transfer.

You can use ping to see if another computer is available; it should give you a fairly good indication, returning a message such as "No route to host" or "Host unreachable" if the other system isn't available. Sometimes all that happens is the messages ping sends disappear, in which case you might see no message or a report of "100 percent packet loss". Either way, you probably won't have much luck connecting to the computer with any other programs.

Soft options

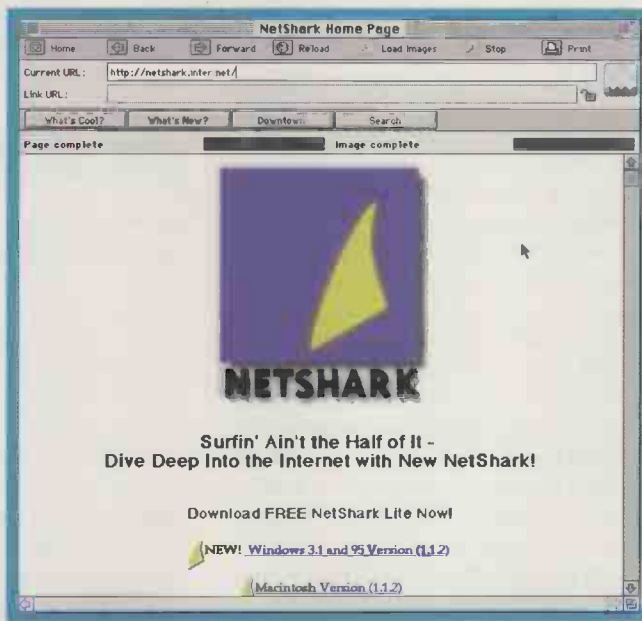
Q. Can you use Net browser software such as NetScape with all service providers or do you have to use their own software?

A. Broadly speaking, you can. Most modern Internet applications have two basic

requirements — a TCP/IP connection and a protocol stack. The TCP/IP connection is the link between you and the service provider — this is the most crucial part. If you have an Internet connection to most providers, the link will be using TCP/IP (though it may often be described as PPP or SLIP, which are simply ways of sending the TCP/IP data over a modem link). Some people claim to provide Internet connections using UUCP or terminal access, but these aren't true Internet and you won't be able to use TCP/IP.

The second important part is the protocol stack. This is the program that sits on your computer and talks TCP/IP to the rest of the world. It usually handles dialing and making the connection via modem. All your Internet applications, such as mail programs, Web browsers and ftp software, talk to the protocol stack. There are several protocol stacks: some are free, some are supplied by your service provider.

On the PC, as long as the protocol stack



As long as your stack is Winsock-compliant, you can go hunting Shark

is "Winsock compliant" — and all but some very old ones are — you'll be able to use just about any application you like, including NetScape and NetShark. The protocol stack on the Macintosh is called MacTCP, which comes with the most recent version of the system software.

Who's watching you? And who's watching what you're watching?

Q. Does the service provider, or anybody else for that matter, have any indication of my

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location on the Web at any point in time?

Q. Can anybody see what files I have downloaded?

Q. Can anybody see which newsgroups I am subscribed to, or which messages I have read?

A. The simple answer to all these questions is a qualified yes. But even so, there's probably not too much to worry about.

When you access a Web page, the server will log the pages that were requested and the name of the computer that made the request. By looking at the log for my own site, for example, I can work out which machines were using a browser that automatically loaded images. And if the machine is one in a domain like demon.co.uk or dial.pipex.com, there may only be one user so I can track them down easily. But if it's a machine in a company, there's no data to tell me who looked at the page.

Similarly with file transfers and news downloads, most systems will log the machine that requests information — though many ftp sites ask you to enter your email address — not the user. There are ways of finding out who's using a machine when it connects to a Web site or an ftp server, but they're not always all that reliable. They will become more reliable in the future, but the problem then won't be people snooping on your private activities, but targetting of your address by companies for marketing purposes.

Remember that for a popular Web site, the amount of information that would have to be logged to keep track of everyone would be astronomical. Sorting through it would take up too much time for most people to contemplate. Yes, it can be done, but you won't usually have much to be fearful of. And even if someone can look in a log file and see that you've transferred a particular news article to your machine, they still can't say whether or not you really read it.

By their nature, computers on the Internet tend to record a lot of what you ask them to do. However, there are so many people using so many services that in practice, tracking down a single person's usage would be very hard to do.

SMTP, your flexible friend

Q. As you no doubt know, Demon Internet provides SMTP connectivity as its standard for mail transmission. This is a great shame as there is much less mail client software from which to choose. Of the freeware packages currently available I particularly like *Email Connection* by ConnectSoft and the equally or better known *Pegasus Mail*, and would dearly like to use either. However, as

far as I can make out these only use POP3 for incoming mail.

Is there a work-around you know of, or can you recommend other equally good public domain email clients for SMTP?

A. Demon Internet isn't the only company using SMTP to deliver mail to its customers, but it's certainly one of the largest. You're right that it does restrict the choice of software but there are a number of advantages, including the ability to have as many users on your computer as you like for a single monthly fee.

Although the number of public domain or shareware mail programs that can use SMTP is limited, there are a few, including *Fmail*, which is available from Demon's own ftp server.

A more flexible solution, however, is to use one of the programs that can receive mail by SMTP and act as a local POP server. This way, you have the flexibility offered by the unlimited user names of a Demon account and the choice of mail software offered by POP. Instead of pointing your mail program at the Internet provider's computer for retrieving mail, you tell it to collect mail from your own

SPAM in the post

Q. People in some of the newsgroups I read keep talking about SPAM. What's that?

A. Spam is the word used on the Internet to describe news articles that are posted to lots of newsgroups, including a large number of inappropriate groups.

There are a number of different ways of posting to more than one group. The right way is by cross-posting, which means that even if a reader is subscribed to two or more of the groups you send your message to, they'll usually only have to download one copy, and most news-reading programs will only show them your post once.

Posting your article once to each group, or to several sets of groups, is a nuisance as it will have to be downloaded several times rather than once, and people will usually see it in lots of groups instead of just the first one they read. It's considered particularly bad form to post to groups that aren't relevant, and you'll usually receive a lot of mail pointing out the error of your ways.

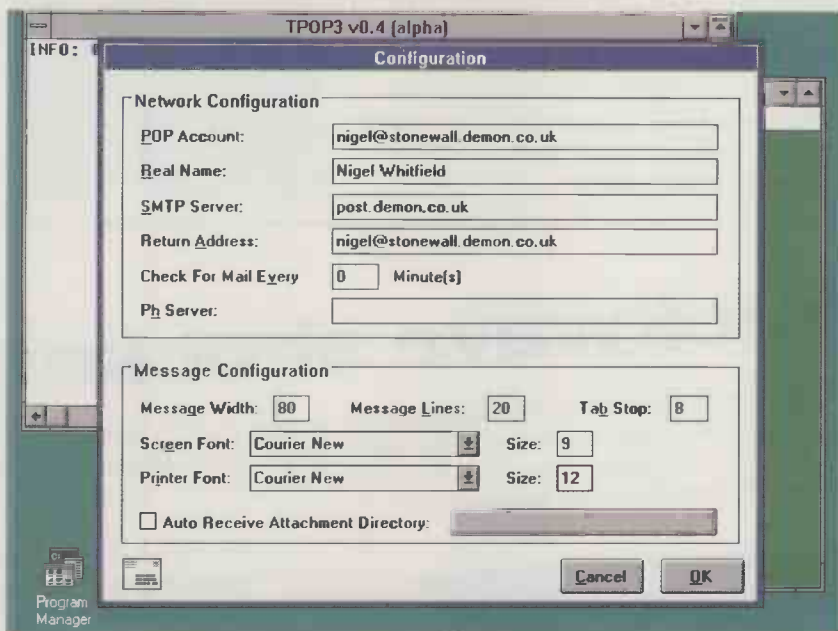
If the Web fits...

Q. We've connected our office network to the Internet, and now we want to run our own Web server. Do we need to learn Unix to set one up?

A. Until recently, the answer to your question would have been yes, but now there are several alternatives that can be used to avoid having to administer a complicated Unix system — though bear in mind that most Windows or Mac-based solutions won't be able to cope with as much traffic as a good Unix Web server, and those are much easier to set up than they used to be.

If you're running Windows there's a selection of servers, including a commercial one from Quarterdeck, and some basic shareware ones. Quarterdeck's server can run scripts based on DOS batch files or Visual Basic programs. OS/2 users should take a look at GoServe, which allows scripts written in REXX to be attached to your Web pages. In the Macintosh world Apple has its own Web server solution which can use AppleScript, making it easy to link most applications to your pages, and NT users have a choice between the free EMWACS Web server or its more sophisticated commercial sibling, Purveyor.

So, whatever system you're used to, you'll be able to find a Web server to suit — but make sure it can cope with the amount of traffic you're expecting. A Windows PC, for example, is probably much better suited to an internal company Web site than something that will be visited by hundreds of people around the world.



computer where the SMTP to POP server will have stored it when it was delivered from your service provider.

The best place to find a program that can do this job is by looking on Demon's ftp server — not surprisingly, there are quite a few there. Some offer more facilities than you're likely to need and at least one, smtp_pop, is designed specifically to work with Pegasus. An alternative, tpop3, will also work with Eudora and should work with most other POP-based mail programs.

Both these and other alternatives can be found in the /pub/ibmpc/win3/winsoc/apps directory on ftp.demon.co.uk.

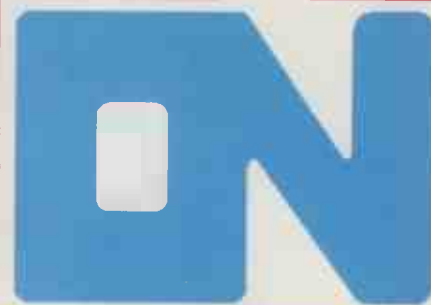
With a gateway program like tpop 3 you can use any POP-based mail program such as Eudora, with providers that deliver your mail using SMTP

PCW Contacts

Nigel Whitfield is a freelance writer and maintainer of several Internet mailing lists. He welcomes comments via the address

nigel@stonewall.demon.co.uk.

If you have questions you'd like answered, please send them to net.answers@stonewall.demon.co.uk. Please note that a personal response to every query cannot be guaranteed.



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net news

PJ Fisher has his finger firmly on the Net pulse.

Net porn: no worries

A survey sponsored by AST Computer has revealed that Internet porn does not worry people as much as headlines would suggest. Six out of ten respondents said that they were unconcerned about their children accessing porn via the Internet.

Over 100 high street shoppers were quizzed about motivating factors behind purchasing a PC, planned or recent. A spokesperson for AST expressed surprised at this seeming lack of

concern by parents, given the publicity that Internet porn has received in the last twelve months.

However, Internet access was a key purchasing factor for just 44 percent of respondents while just over a quarter conceded that they have no intention of ever accessing it. Of those parents who did want to connect to the Internet, 60 percent were unconcerned about the possibility of their children accessing the more dubious parts of the World Wide Web and newsgroups.

PCW's Best Of British

For those that who have had difficulty finding *PCW's* Best Of British web site, here is it's new URL: <http://www.vnu.co.uk/vnu/hc/pcw/bob.htm>. By the time you read this, the new-look BOB site should be fully online, so take a look and don't forget to keep your BOB nominations coming.

Internet on a chip

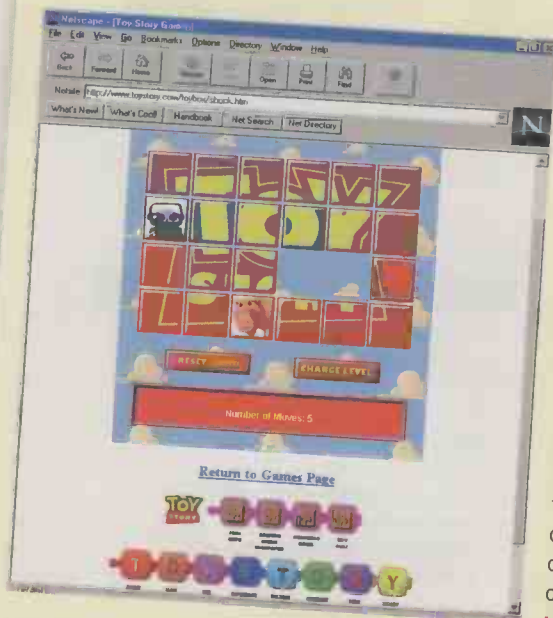
The LSI Logic Corporation has announced a single-chip architecture which it claims could appear in a new generation of Internet consumer devices. Aimed at hardware developers, the technology is designed to be customised to allow low-end devices such as TVs or PC monitors to browse the Web and handle two-way communications via the Internet.

"We have the technology to make a sub-\$500 Internet system a reality," said Brian Halla, executive vice president of LSI Logic Products Group. The Internet on a chip was developed using a proprietary design which fuses microprocessor and logic cores. In addition, chips can include cores for V.34 modems, and MPEG 1 and 2 standards. LSI believes that OEMs would be able to customise chips and get Internet products to market ahead of rivals.

LSI Logic: <http://www.lsillogic.com>

Shockwave shocker

Macromedia has made available its Shockwave plug-in for Netscape 2.0 on its home page. Shockwave will allow Web developers to tag Director movies into HTML, bringing animations and sound directly into the browser window. With due modesty, Bud Colligan, CEO of Macromedia, announced that "the Web will never be the same again".



ShockWave uses a post-processor which compresses Director files pulled down by Netscape by 60 percent, claimed to make downloading Director files faster than some static graphics. However, anyone without at least a 28.8 modem is going to find the wait torturous.

Macromedia's home page has links to some of the first sites to make use of Shockwave. Macromedia is working on Shockwave plug-ins for Microsoft Internet Explorer, Microsoft Internet Studio and CompuServe's SpyMosaic browser for release later in 1996.

Meanwhile, Silicon Graphics and Macromedia have agreed to work together to develop a new set of open multimedia formats and APIs to extend Java. Both companies believe this will extend Java's capabilities in 3D rendering and video conferencing on the Internet.

Macromedia <http://www.macromedia.com>

The Americans do Europe



What many people thought was going to be the European version of AOL (America Online) has turned out to be something completely different, and very European.

Europe Online UK will offer news, entertainment, shopping, interactive language courses and information on European events. News feeds will come from Reuters.

Great Universal Stores has been lined up to provide goods via a Shoppers Universe online shopping area. Europe Online is confident it will take 35 percent of the consumer online market within

five years. **Europe Online 0800 106610**

BT Watch

All BT rumours and dirt gratefully received. It's good to talk

According to industry sources, we shouldn't perhaps expect too generous a deal from BT when its free local calls become reality. Those expecting to dial free anywhere, anytime within the local area may be disappointed. Instead, BT is likely to arrange its local calls based specifically around times and routes. So you may be able to call, for example, from Slough to Reading but only between, say, 10a.m. and 12p.m.

Mind you, BT has been busy lately, not just digging up roads but football pitches. BT is one of four IT partners (the others being Microsoft, Digital and SEMA) providing hardware and infrastructure for June's European football championships. Eight football grounds around England, including Anfield, Old Trafford and Wembley, will benefit from dedicated fibre optic links and ISDN transfers which will be left in place after the championships are over. Never before will results and statistics have been transmitted so fast. All part of the ongoing construction of the UK's info superhighway, a BT spokesman assured us.

But unless AT&T is prepared to get its shovels out and build a rival national infrastructure to BT in the UK, BT's hold on the UK market will remain pretty much intact. The real profits for AT&T may lie in the specific business markets and regions (hello, Mercury) that bring quick profits for minimum investment. And that is probably what they will do.

pf_fisher@pcw.cmail.compuserve.com

The next generation comes by cable

As part of continuous research, CableTel is looking at ways to deliver Internet access using fibre optic cables or across conventional telephone lines. But it believes that a new generation of cable Internet servers could deliver data at 10Mbits/sec, using a principle similar to Ethernet. A single cable server could be used by a single machine, a group or even a group of businesses. However, CableTel's Jag Sanger said that the real issue behind Internet access lies not with bandwidth for the client end but at the server, where improved access speeds to servers is putting a severe strain on the backbone. This is where technologies such as cable servers could help.

He stressed that such cable servers are not a product ready for market but presently exist as a research model, among other projects that CableTel (and other cable companies) constantly monitor.

CableTel also believes that they could easily deliver access at higher speeds than 10Mbits, but can't until cable hardware manufacturers decide it is cost effective.

As more people start to use cable modems the price will inevitably go down and cable operators are looking at using modems as a possible means of delivery. But as with ISDN, the whole market is being stalled by the price of terminal equipment.

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Adobe in Java jive

Following on from the agreement with Sun Microsystems to licence Java, Adobe has announced that future versions of Adobe PageMill and Acrobat will both support Java applets. Java integration may also feature in other Adobe products. Adobe PageMill uses drag and drop editing techniques to create Web pages without the need to write HTML tags.

On a recent London visit Bill Kraus, the former head of Ceneca, and Product Designer for the newly formed Adobe Internet Products Group, said that the next version of PageMill will include support for Netscape 2.0 extensions and that a Windows 95 version is in the pipeline, possibly as early as mid 1996.



New Web magazine

Webmasters and HTML junkies might have a new magazine to put on their subscription list with the launch of *Web Developer*. A quarterly publication, it is aimed at those who like to get their fingers dirty writing CGI scripts and hard-core HTML. It will also provide hints and tips to network administrators and firewall operators. A subscription will cost £21 per year.

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Net Opinion

Where Do You Want Go Tomorrow?

The Internet is a very exciting development". — Bill Gates, CEO Microsoft Corp, December 1995. Stating the obvious perhaps, but it's something that the rest of the computer industry probably didn't want to hear. Suddenly, the sneers that greeted the admittedly not too successful launch of MSN and version 1.0 of Internet Explorer turned to apprehension.

Within hours of Bill Gates' barnstorming, satellite-linked performance to more than 600 journalists worldwide, Netscape's stock had fallen. Netscape may still produce the best Web browser in the world, but only Microsoft has the clout to put the Internet into applications and directly into an upgraded Windows 95. Netscape, which produces a browser and not much else, remains a vulnerable single-product company in a fast-moving sector of the industry.

Once again, Bill Gates has proved that there is no harm in being a Johnny Come Lately when it comes to the computer industry. "We're hardcore about the Internet," he said. This may be disturbing to some people, but the good news is that the future Internet-savvy applications that were demonstrated in December looked very cool indeed. They obviously mean to compete for dominance, but it seems Microsoft is really thinking about new ways of working with the Internet, the Web and what people want to get out of it.

Oracle has also recently woken up to the Web — but on the wrong side of the bed. Here's a company that wants to protect an installed base of solid database technology, so it launches a new Web browser and its chairman starts having visions. But the so-called PowerBrowser (see *Newsprint*, February 1995) turns out to be little more than a client device



Bill Gates

meant to utilise those Oracle servers already in existence. Despite the company's claims, it does nothing to further the Web as an open system.

We are told that PowerBrowser fully supports HTML 3.0 and (of course) Netscape's own clever work on pushing HTML. But it doesn't. PowerBrowser doesn't even support such things as coloured backgrounds. It will of course support Oracle's Basic "applets" and of course Oracle servers. So what's open about that? And what use?

And Larry Ellison's vision? Possibly the most open idea anyone has come up with in computing for some time. You know, the one where PCs become about as appealing as the abacus to business and we all tout little \$200 network devices that plug into super-networks downloading mini applications on the fly. Sounds wonderful; but is it? The amount of column inches dedicated to "Larry's vision" has got more than one journalist agitated about the end of operating systems and the death of the PC. But at time of writing there was still no concrete sign of any network device or indeed anything at all.

The fact is that desktop PCs liberated users from mainframe computers and dumb terminals. The PC brought real computing power into the hands of individuals. Apple, IBM, Microsoft

and thousands of other developers brought about a fundamental social and technological change.

Is Larry's vision so great? Instead of PCs we would have dumb black boxes that need to get applications from a network (with attendant security risks), need bandwidth to supply them fast (not here yet) and work out some kind of payment system (with attendant security risks). This would immediately hand power over to the network owners and software net distributors. Admittedly, a lot of desktop applications are big and too slow, but the net delivery won't change people's thirst for industrial strength applications.

But supposing these boxes do appear on the market. We plug them into a network and do what exactly? Where are all these distributive computing applets supposed to be coming from — certainly none are ready for any early launch of an Oracle black box. Without these, they are just cute Web browsers.

The Microsoft approach of retaining the PC while bringing the Internet into the OS and



Larry Ellison

applications such as Office seems to me the real way forward. There is still room for competition (yes, even with Microsoft) and people still have the right to put what they want on their PC, use it and never even go near a network if they don't want to. Larry's vision seems to conjure up good PR and very little else.

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Getting started on the Net: what to do, where to go



CUTTING EDGE

These pages are designed to be an easy-to-use reference guide to the Internet for the novice. Here's an easy guide to the tools which will help you make the most of the Internet.

So what is the Internet?

The Internet consists of millions of computers interconnected in a global network. The number of users is difficult to measure, but those worldwide who can at least exchange electronic mail messages is estimated to be 30 million and growing.

What about this World Wide Web then?

It is *not* the Internet. It is a service on the Internet which uses special software known as Web Browsers (usually available free) to give users access to pages of information with pictures and multimedia instead of just text. About 15 million people around the world have access to the World Wide Web.

Sounds great. What do I need to get on?

A PC of almost any age can be connected to the Internet as long as you can plug it into a modem. You don't even need to be able to view graphics on your machine to look around (although it helps).

A modem allows your computer to dial in to another computer with a modem and communicate with it. They come in different speeds, from 2400 baud to more than ten times that. When you are using the Internet, the speed at which things work is more likely to be

limited by the speed of your modem than by that of your computer. Buy the fastest you can afford. An old 2400 baud "V.22bis" model is fast enough to exchange electronic mail messages, but to send and receive files, or use the more exciting services on the Internet, a modem which runs at a speed of at least 14,400 baud "V32.bis" is vital. Fortunately, these have plummeted in price over the past few years and now cost as little as £100. If you have the money, go for a 28,800 baud V.34 modem. Over time, you'll get back the added cost by reducing your phone bills.

Okay, I've got a modem. Now what?

For a modem to bring you information, it has to have a number to dial. This is where a "service provider" comes in — you have to subscribe to one if you want to get online. Whatever kind of connection you have set up, you will have to pay your phone costs on top of any subscription, unless you are lucky enough to get free local calls through a cable company. The bigger service providers will have the numbers you dial, PoPs (points of presence), scattered across the country so you only have to dial a local number.

If there's no company near to your home which offers Internet access, you may have to pay long-distance phone rates. Once connected, though, it doesn't matter where the information you are accessing is physically located: you are always charged at the same rate. A list of

providers and telephone numbers is available in the panel below. For more details, have a look at the supplement banded with the January issue of *PCW*.

Full Internet access, which allows you to use email and Internet services for any amount of time, limited only by the size of your potential phone bill, costs more, currently between £8.50 and £15 per month. There are dozens of companies offering this kind of Internet access, none of them big enough to dominate the market. The basic service being offered is largely the same, although some higher-priced providers may claim to offer a more personal service or a better selection of access software.

Why don't I just join CompuServe?

Or you could try AOL, Europe Online, UK Online and MSN who all now offer Internet access and also have a large number of services of their own to which only their subscribers have access. These services include official technical support for hardware and software by electronic mail, online games, vast indexed software libraries and databases of business or consumer information. A monthly subscription tends to cost between £5 and £10 per month, plus a charge per hour if you are online for more than a set number of hours in that month. However, as the market becomes more competitive, prices are falling and CompuServe has just announced significant reductions.

Demon Internet is the best known and most popular of the standard Internet operators but doesn't cater too well for beginners. Perhaps better for the raw newbie is Easynet (although it only has Pops in London and Edinburgh) or UK Online. UK Online is a special case, a cross between an Internet provider and an online service. For £8.50 to £12.75 per month it offers unlimited access to the Internet, partially "censored" to make it safer for children to browse, plus access to online magazines and other services.

Any good service provider should provide you with appropriate access software when you sign up, and if you want to choose something different, most of it can be acquired online, free of charge.

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 Editorial address on page 12.



Part 3: Forms and scripts

DIY Web pages

In this, the final part of our series on creating your own Web pages, Nigel Whitfield deals with forms and scripts, two important features for your Web pages, and shows you a way of adding interest to your document.

So far in this series we've looked at some of the ways in which you can create pages with lists, image maps and other features, which should provide you with the basis of some fairly clever pages. But look around the Web and you'll see that there are a lot more tricks which can be performed, such as pages where you can fill in all your details and click on the send button to request a catalogue, or search a database.

The way all this is handled is with two important features: forms and scripts. We've already seen how a script is called when you use an imagemap, but the scripting system for Web pages is much more sophisticated than that. It's based around something called CGI — the Common Gateway Interface — which is designed to make sure that you don't have to learn a different way of writing scripts depending on which type of Web server you're using. If a script was written for the NCSA Web server, it should work with the CERN version, and vice-versa. If you're using a Web server that's running on a different type of computer, like OS/2, Windows or Macintosh, there may be some differences, but the basic principles are pretty much the same.

The ins and outs of scripting

Whatever type of Web server you're using, scripts have one important thing in common: whatever the script prints out on the screen when it's run as a program, is what will be sent back to the browser when someone clicks on a link that activates it. So, you'll often be able to test

your script before installing it on a Web site, to make sure that it produces the right messages.

However, there's one important thing any script has to do before it can send information destined for the browser: it has to say what sort of information is being sent back (which can be either text or HTML). That's all done by including lines at the start of your script that specify the Content-Type. Here's an example,

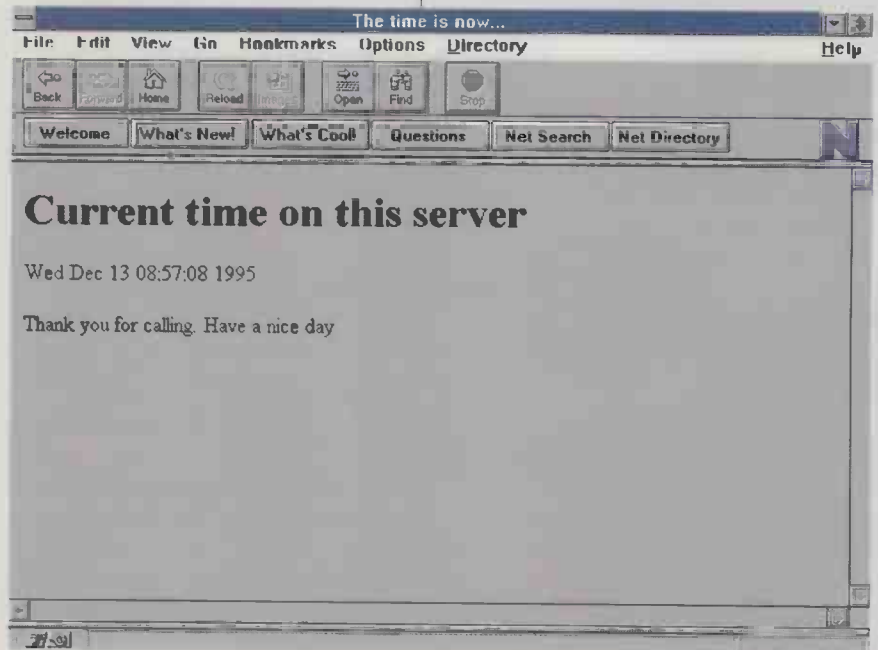
```
which would work as both a DOS batch
file or a Unix shell script, and tells
the browser that the rest of the information
should be treated as pre-formatted text:
echo Content-Type: text/plain
echo
```

The second "echo" is important — there must be a blank line between the Content-Type header and the rest of the output from your script. If you want it to display HTML, just change the content type from text/plain to text/html. For example, if you include a link that looks like this:

```
<a href="/cgi-bin/show-date">
```

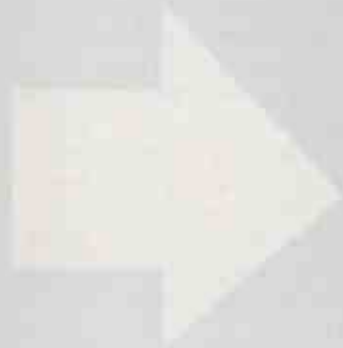
then the script on the left will produce a

Fig 1 This is the result of our date script, running on a Unix-based web server. You'll need to alter the date command for the same script to work under DOS





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display like the one shown in Fig 1.

Show-date script

```
echo Content-Type: text/html
echo
echo "<html><head><title>The time
is now ...</title></head><body>"
echo "<h1>Current time on this
server</h1>"
date
echo "<P>Thank you for calling.
Have a nice day<P>"
echo "</body></html>"
exit
```

To make the script run you'll have to put it in the `scripts` directory on your Web server; the `/cgi-bin/` at the beginning of the URL for the script is a shorthand, which the server automatically translates to the real name of the directory (and on an NCSA server, you might need to use `/htbin/` instead). Depending on the way your server has been set up, that might be a shared directory, or it could be a directory in your own private Web space. If you rent Web space on a commercial server, remember that you might not always have permission to run scripts, so if you want to use them to spice up your pages, check before signing on the dotted line.

So, now you know how to send output from the script to the browser; what about the opposite direction? It's not quite so straightforward, but once you've got the hang of it things should be pretty simple. When information is sent from a browser to a script via CGI it's built up into a query string (sometimes saved in a

variable called `QUERY_STRING`). You'll probably have seen a few query strings without having realised it, when you've clicked on some types of link and seen your browser display a URL that looks

something like:

```
http://www.stonewall.demon.co.uk/cgi-
bin/scriptname?address=nigel@
stonewall.demon.co.uk&sex=male&
town=London
```

Now you have your web site

Once you've created a web site your next problem is to make sure that people visit it, and with hundreds of thousands of sites to choose from, that's no mean feat.

There are a number of ways to spread the word, but the aim is always the same; make sure that other people have links to your page. If you know there are other pages on the same topic it's worth contacting their authors and asking for links to your site. Similarly, if there's a newsgroup covering the topic, try posting a short announcement or contacting the maintainer of the FAQ for that group to let them know about your pages.

It's also important to get your site listed in the various guides to the Web, like Yahoo and UK Index. Most of these search engines allow you to fill in a form with details of your pages, and it's worth making the effort so that anyone searching can easily track you down.

Finally, if you're renting space on a web server, check with the server administrator to make sure you're listed in their customer index.

Nigel's form test page

File Edit View Go Bookmarks Options Directory Help

Back Forward Home Reload Open Find Stop

Welcome What's New! What's Cool! Questions Net Search Net Directory

Please tell me about yourself

Are you a man or a woman?

Male: Female:

What town do you live in?

London

Click on the button when you've filled in the form:

Here's the form that's produced by the HTML code. Most modern browsers support forms, including text-based ones like Lynx

Everything after the question mark is the query string, which consists of a series of variables and their values, separated by ampersand (&) symbols. Your script can use those variables to control what it does: it could be displaying a personalised message on the browser, or simply making an entry in a file to log who's been accessing your pages.

Depending on which Web server you're running and the language in which your script is written, there are different ways of actually turning the information from the query string into something that can be easily used. But before we look at that, let's see how you get the information from the browser in the first place.

Form filling

Forms are one of the most important features in HTML and when you first look at them they can appear quite complicated. But that's not really the case: here's a Web page that would create a query string like the example above —

```
<html>
<head><title>Nigel's form test
page</title></head>
<body>
<h1>Please tell me about yourself
</h1>

<form method=post action="/cgi-bin
/scriptname"

What's your e-mail address?

<input name="address">

<h2>Are you a man or a woman?</h2>

Male: <input type="radio"
name="sex" value="male">
Female: <input type="radio" name=
"sex" value="female">

<h2>What town do you live in?</h2>

<input name="town" value="London">

<hr>
```

Click on the button when you've filled in the form:

```
<input type="submit" value="Send
info">

</form>
</body>
</html>
```

The <form> tag tells your browser (and there are very few now that don't support forms) that it's found a form, how it should be sent to the Web server, and

Walkthrough: creating a transparent GIF

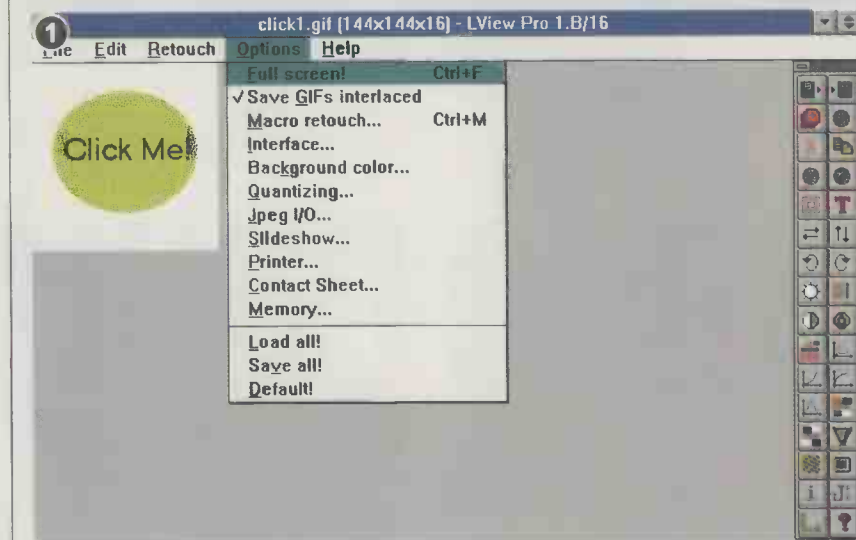


Fig 1 When you've loaded the picture into Lview, select the Options menu and then choose Background colour. If you don't have a copy of Lview, you can download it from ftp.demon.co.uk, in the simtel/win3lgraphics directory

Fig 2 Select the colour that you want to use as a background and then click on "OK" to return to the main screen



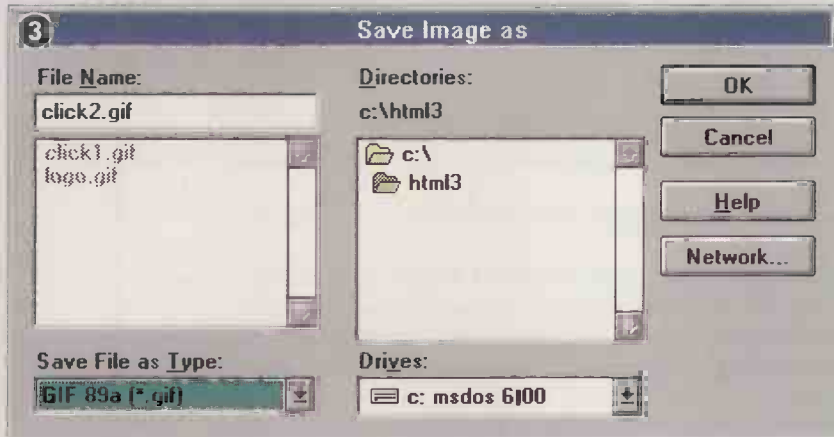


Fig 3 When you save the image, you must make sure that you save it in GIF89a format, rather than any of the other options. If you don't, the background colour won't appear to be transparent

Fig 4 This is what you'd see in NetScape if you used the original image — it's certainly not the most elegant way to put buttons on your pages

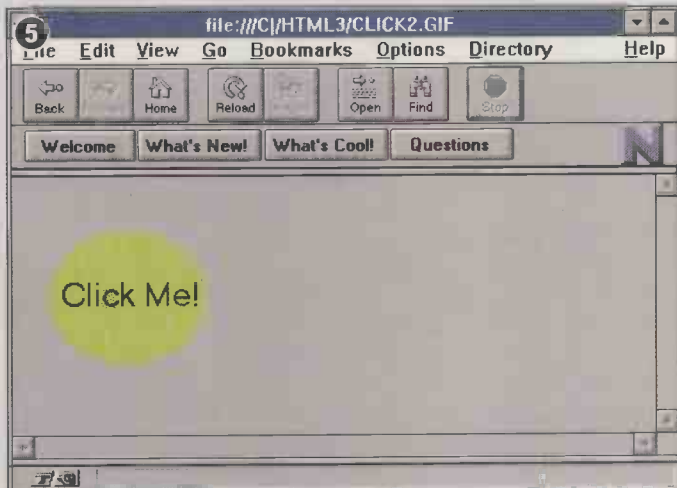
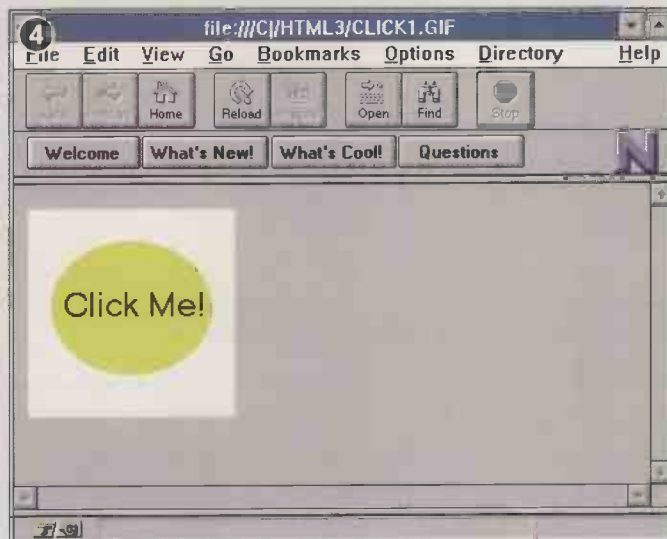


Fig 5 And this is the transparent version, but remember that if you make it into a link, you'll still see the outline of the image

what should happen when it's submitted. In this case, the script `/cgi-bin/scriptname` will be run.

The "method=post" means that the query string will be fed into your script and is the preferred way of sending information. What it means is that your script will see lines that look like: `name=nigel@stonewall.demon.co.uk`
`sex=mail`
`town=London`
which is often easier to understand than the long QUERY_STRING variable, which is all you'll see if you use the "method=get" alternative. The latter also limits the length of the query string to the maximum size of your environment, which means that you may not, for example, be able to let people type in long comments.

The other parts of the form are all `<input>` tags, and they all work in the same way. The "type=" tells the browser what sort of field you want, and the name is the name of the variable that will be set.

We've used a few different types of field in our example. For the email address there's no type, so it's treated as a simple text field. The next entry can only be one of two choices, so to prevent people sending witty replies like "Both", we've used the "radio" type. This works like the buttons on an old-fashioned car radio, so choosing one un-sets all the others with the same name. Since all you can do with the buttons is click on one of them, the "value=" part of the tag says what result is sent back for each button.

The next field is another text field but this time it includes a value as well, which will appear on the form already filled in. Although it can be changed, it does save people typing common values all the time.

Finally, there's a special type of field, called "submit", which puts a button on the screen. When it's pressed, the completed form is sent to the Web server. Normally the button is labelled Submit, but in this case we've used the value option to change it to something more friendly.

There are plenty of other types of field that can be used, like drop-down menus, and text areas; the complete list is in the table "HTML for forms and extended tags" (page 232). They all work in the same way, though, so once you've mastered one you should be able to manage plenty of others.

HTML for forms and extended tags

Here's a summary of the tags you'll need to use for creating forms on your Web pages, plus some of the common extensions to HTML that will be supported by a range of browsers:

Form tags

- `<form method=post action="URL">` Define a form, the data from which will be passed to URL, which should be a script when the form is completed. "Method" can also be set to "get", but post is recommended (see main text for details).
- `</form>` End of form definition. Multiple forms can be present on a single page.
- `<input name="var_1">`
or `<input name="var_1" type="text">` Define a text entry field, the result of which will be stored in a variable called var_1.
- `<input name="var_2" value="default">` A text field, stored in var_2, with a default value of "default".
- `<input name="var_3" type="radio" value="val_1">` Define a radio button, with results stored in var_3. This button will return the value "val_1". You can have as many tags as you like with the same name, but with different values, and only one can be selected.
- `<input name="var_4" type="password">` A text entry field, but the value typed in will not be displayed on the screen.
- `<input name="var_5" type="checkbox">` A simple checkbox which will set var_5 to either "on" or "off" depending on whether or not it's been checked.

Fields of the type "password" and "text" can have an additional option, "size=", which limits the number of characters that can be displayed in the field to that specified. The "maxlength=" option specified the maximum number of characters than can be entered.

- `<select name="var_6"> ... </select>` Define a drop down list of options. Each option appears within the select tags.
- `<option>Option 1` An option for a drop down selection list. The text "Option 1" will appear on the list.
- `<option selected>Option 2` A pre-selected option on a drop down list.
- `<textarea name="var_6" rows=10 cols=30>...</textarea>` Define a space for entering a large amount of text, to be stored in var_6. The area will be ten rows (line) by 30 columns, although the text can be longer. Default text can appear between the start and end tags.
- `<input type="submit">` A button to submit the completed form to the Web server. If a "value=" section is included, it will be used to label the button, which would otherwise say "Submit".
- `<input type="reset">` A button to reset the form, as if you had just loaded the page. The button will normally be labelled "Reset" unless the "value=" section is included.

Extensions to existing tags

- `<body background="bg.gif">` Use the file bg.gif as a background to the current document.
- `` Specify the width and height of an image in a document.

Processing forms

If you've used the alternative "get" method of processing forms, there are a few programs that might be available on your Web server to help you process the information in QUERY_STRING. The most useful is called cgiparse and is part of the CERN Web server software. This is how you'd call it from a Unix shell script (one of the most popular languages for writing server scripts):

```
form-name=`cgiparse -value name`
```

The variable on the left, "form-name", will be set to the value following "name=" in the query string returned by your browser. You can call cgiparse as many times as you like to extract all the information you need from the results of the form. There are some other functions too: the administrator of your server should be able to tell you more about it, and what other programs are provided to help manage your scripts.

Scripts that are called using the post

method have to read all the information from the form at the beginning; the CONTENT_LENGTH variable is set by the Web server to say how much information there is to read. Unfortunately, the details of how you read the information will be different depending on whether you write your scripts in C, Unix shell scripts, Visual Basic or Perl. If you're programming in Perl, a good example of how to do it is the form-mail.pl script.


Back to basics

One of the first principles of HTML is that it's not a descriptive language: you can't say that things should appear in a particular font, or a particular size. Nevertheless, new generations of browsers can help to make it far easier to ensure that things look much as you intended, and to make pages look much more interesting than merely text on a standard grey or white background.

The most common way of adding a

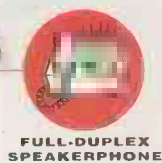
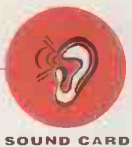
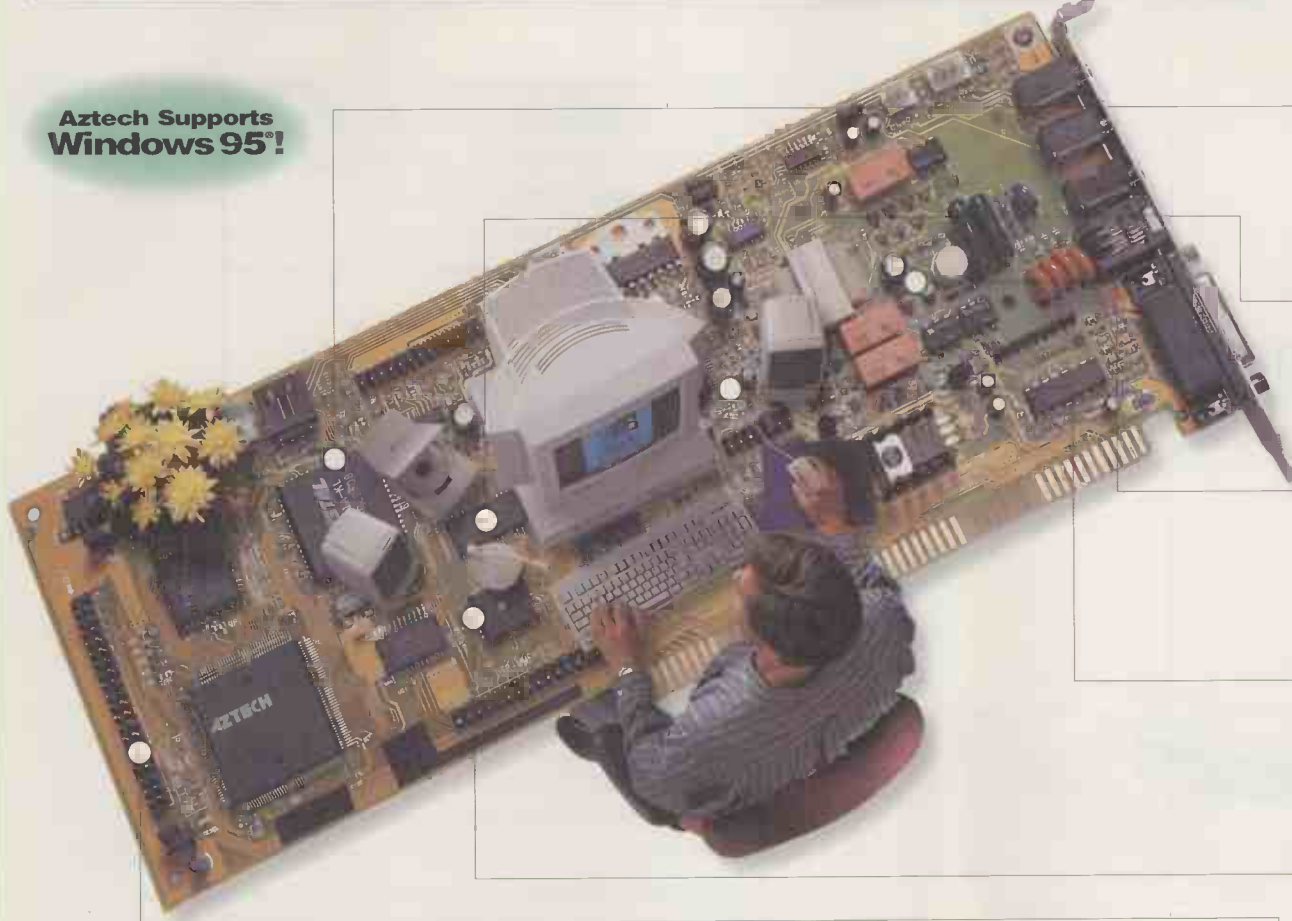
little interest to your document is by using transparent images; programs like Lview for Windows and GraphicConverter on the Macintosh allow you to select one of the colours in your picture and set it to be transparent. Usually the background colour is made clear, so that an image appears to be floating. For instance, if you were to create a picture of a globe to use as a button it would usually be sitting in a square or rectangle of white. By making the white transparent, all that people will see when they look at your page is the globe, sitting on the background of the page.

Another way of spicing things up is by using background images for your pages — but remember that if you use a bright or complicated picture, it might be hard to read the words in front of them. Not all browsers support background images, but they do work with NetScape, NetShark, Emissary and WebExplorer.

Background images can be GIF or 

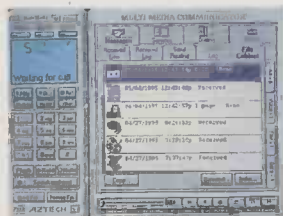
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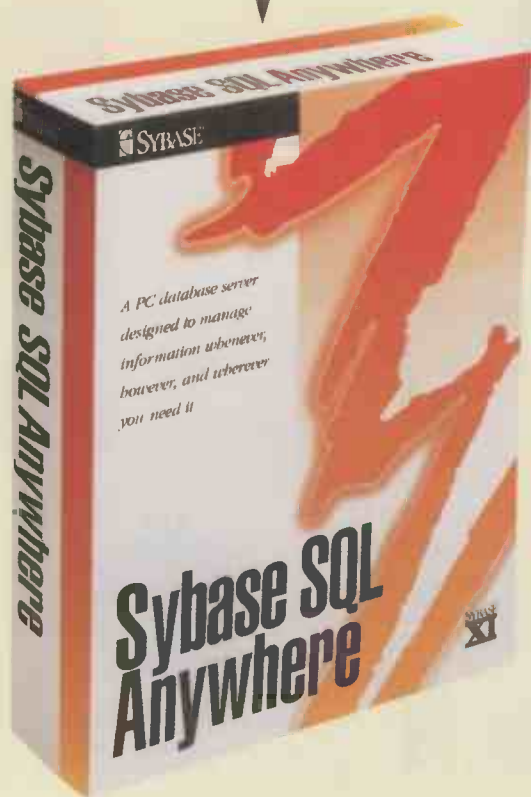
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Handy Hints

Turning your words into HTML is the easy part of creating Web pages. Follow these hints to help save time designing your pages and make sure that they're easy for people to read.

- Work out what you want to do first. If you're going to have more than one page with links between them, draw a diagram so you can see which ones should be linked, otherwise you'll end up with a confusing maze of pages.
- Make your first page short and simple. People don't want to have to wait ages to download a large home page. Have a quick summary and some links to other information on more pages.
- Don't overdo the graphics. Pictures are very nice, but they take time and money to download. If you must have lots of them, make them small and make sure you use "alt" text for people who don't download the pictures.
- Don't use too many headings. If you have lots, it'll be hard for people to read the text.
- Try to avoid using special features that rely on people using a particular Web browser. They may not work at all if people use a different program to read your pages.
- If you have a long document, break it up into sections and make a miniature index so that people can jump to anchors at useful points.
- When you give the names of files in links or "img" tags, don't give the full path; just say where they are relative to the file that you're reading, so they'll still work if everything is moved to another drive or directory.
- Always remember to use Unix-style forward slashes "/" in file paths, rather than DOS-style backslashes.
- If you're using Netscape to view pages, you can drag your HTML file into the Netscape window to view it.
- Save HTML files with the ".htm" extension on a Windows system, or with a name that ends in ".html" on a Macintosh — some Web browsers and servers prefer files to have names that end that way.

JPEG format files (most browsers that support backgrounds also support JPEGs) and you add them to your document with an extension to the BODY command, like this:

```
<body background="bg-pic.gif">
```

If the image is too small to fill the window, it will be tiled to fill the whole area, so you can make it quicker to view the page by having a small background image that can be downloaded quickly and then tiled by the browser. Background images can work with transparent images too, so you'll be able to see the background through the clear sections of other images.

Of course, not everyone browses the Web with images turned on, so you might find that the layout you carefully designed, with pictures in mind, looks strange when they're not loaded and all that's displayed is the "missing picture" icon. Some browsers, including NetScape, allow you to specify the size of a picture in the tag, so even if you don't load the picture you'll see a blank space of the appropriate size. This is what the extended tag looks like:

```

```

Many of the new extensions to HTML have come from NetScape and you can find more details about them by selecting "Help on creating Web services" from the Help menu. But remember, if you rely on too many of them, you might find that other people are unable to make much sense of your pages.

There's lots more you can do with your Web pages than we have space for here (some involve complicated scripts and programs to produce special effects), but you should now possess enough knowledge to be able to create pages that include backgrounds, forms and other special effects. In a future issue, we hope to be able to look at the more advanced features, including the new version (3.0) of HTML which will be supported by lots of browsers. Until then, good luck!

PCW Contacts

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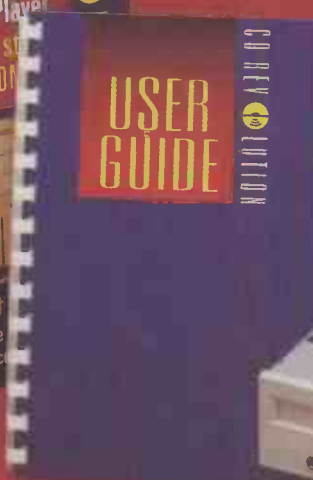
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Innovations

Talking about transmission

Automation-driven video servers seem to be the last piece in the jigsaw to make multi-channel satellite TV commercially viable. Tim Frost reports.

With the development of digital TV transmission which squeezes in ten television channels where there used to be one, the capacity will exist for 3,000 or more satellite channels by the beginning of the next century. While the TV industry sees this as a great opportunity, there are some reservations.

Not about the quality of programming — that will continue on a downward trend with lower and lower budgets. The real worry is about overall cost.

More stations means more specialised channels. While these will have viewers who are less fickle, there will also be fewer per channel, which means the income from either subscriptions or advertisement revenue will be marginal.

To make a living out of the system, TV channel operators must reduce costs at every stage. The availability of high-quality low-cost cameras and production equipment has already helped reduce programming costs: where a major TV drama might cost up to £0.5million an hour to produce, satellite program costings can be as low £10,000 an hour.

At the other end of the chain there is the transmission

system itself. Seven years ago, when Sky was launched, renting a satellite transponder would set you back several million pounds a year. Now, a digital channel on a transponder will cost as little as £100,000 a year, so the hardware cost is being squeezed out of that part of the system, too.

Tapes flying around

That leaves only the bit in the middle; the systems which store and play out the programmes and commercials. This has proved rather more complex to solve. Traditionally, TV stations use a jukebox of video carts with computer-controlled robot arms that pull the right tape from its storage slot and slip it into a VTR at just the right time for playing the ad break, or programme, out to air. This is fine when you have only one channel to consider, but it doesn't really translate into a workable system for a ten or 20-TV channel operation.

For a start, there's not much in the way of cost savings: if you have more channels you need more VTRs, which are each around the price of a small house; and then you need more people to operate them. And having all those tapes flying

about doesn't exactly increase confidence in the system's reliability or its foolproof-ness in making sure the right programme, or advertisement, transmits at the right time and on the right channel.

The solution everyone is now considering is the video server, like the Tektronix Profiles/Drake automation system that BSKyB is putting in to replace the play-out systems for its existing satellite channels. Not, it should be noted, in preparation for a move to digital, about which BSKyB is remaining tight-lipped. And no doubt will remain so until consumer decoders come onto the market.

Robot jukebox

The video server bears a passing resemblance to a PC server since it is, in fact, a 486/66 PC with four 4.2Gb drives and fitted with professional video encoder/decoder cards which can deliver four separate TV channels simultaneously. The server is used as a large buffer between the robot jukebox system and the satellite up-link. All the ads and programmes are stored on the jukebox, fed into the video server an hour or so before they need to be transmit-

ted, and stored using motion JPEG giving around 4:1 data compression. The server stores and compiles the programs and commercials ready for play-out to the four channels.

There are further advantages, since commercials and program previews common to all four channels being supplied by the server have only to be stored once — the system plays them out to any of the channels, at any time. Tektronix notes that one of the advantages of having only four channels per server rather than 20 (which is possible on larger servers) is that there is no chance of accidentally programming the wrong ad or programme into the wrong channel. This could be extremely embarrassing if the two channels concerned were a cartoon and an adult channel.

The system doesn't necessarily need to be feeding four traditional channels. Using the same total disk storage, the server can hold a complete movie and start playing it out every half hour for four channels of near-Video on Demand.

Although the video server is less expensive than the VTR, the main advantage is that the amount of space and the number of engineers needed to run a multi-channel transmission system can be considerably reduced. The right automation system will not only load the programmes and ads but also monitor the output of the system to check that everything is going out okay, so reducing the workload on the engineers. With quotes of a 10:1 reduction in cost of transmission systems per TV channel, automation-driven video servers seem to be the last piece in the jigsaw to make multi-channel satellite TV really commercially viable. Isn't that comforting? ■

Horizons

One in every home

Current phone line technology and charging structures are holding back the day when every home with a phone line could have permanent access to the Internet. Simon Rockman makes the connection.

One of the most popular pastimes for the dedicated Internet addict is iPhone, which allows you to connect a microphone and speaker to a computer, digitise the speech and send it across the Internet using conventional phone lines. This is crazy: the sound quality is appalling and the lines you are using were originally designed for speech, not computer data.

The existing systems owe a great deal to Alexander Graham Bell who had no idea that the telephone would be such a hit, let alone that it would encompass half the world. It's this technology we are using today and which is outmoded.

No need to share

If you have a phone line in your house, you could have a direct line to the Internet. The UK, and most of the civilised world, is so rich in telecommunications there is no need for you to share the lines in your street with your neighbours. It's all down to charging. The telephone companies like a system whereby they get more money every time you pick up the phone. When you are not using it, the lines are idle. If the phone companies were to charge you for *having* a line rather than *using* it, they would make less money — but the demands on the network would

be no greater. As competition within the telecommunications industries grows, the concept of charging against cost and not what the market will bear will gain importance. We may well all end up with a line which gives us permanent access to the Internet. Every home could be on the Internet and this would have two great advantages: higher speeds and a permanent connection.

The first step is ISDN. This gives two 64Kb/sec lines over a single pair of wires although the phone companies charge as separate lines with separate numbers. In the short term, ISDN is the future for communications: it's fast and has a very quick set-up time, but it isn't permanent and is still charged on a usage basis.

The proposed CONTEXT system only charges by the month, so you could dial into an Internet service provider and stay connected.

The quick set-up time of ISDN means this would have only a slight advantage over merely making the call, for each packet sent. Effectively, ISDN could become a leased line into the home. An intermediate system would use one 64Kb line for a permanent connection and then switch in the second 64Kb when necessary. The technology

to do this exists today; it's just a matter of charging, and BT's ability to cope with the demand, which holds it back.

When BT cut the price of ISDN lines from £400 to £200 as an experiment, it was unable to cope with demand and ran out of the plastic connection boxes. The experiment was such a success, the price was raised again, back to £400. But now, it's down to £300. Since most of the network runs as ISDN, extra equipment is needed to cope with normal analogue lines. It would be cheaper at the exchange to put ISDN into every home.

Although ISDN remains a dial-up service, there are other options for permanent lines. Again, given the capacity of the systems this need not be expensive, yet in fact it is.

The best kept secret is baseband, a permanent connection between two sites on the same exchange — in theory, just two wires running from one place to another using BT's conduits. If the first place is your home and the second is your Internet service provider, you can have a leased line at the fraction of the standard cost.

There are some problems, however. The first is that it's physically limited by the length of the wires; eight kilometres is a reasonable maximum. The

second limitation is that both locations need to be on the same phone exchange: once switching becomes involved, it's no longer a baseband system. Beyond that, you have a pair of wires to do what you like with. BT will try to persuade you that the line needs conditioning and that will cut the speed to 9,600bps, but this is just an incentive to use a more expensive system.

Ethernet at 100Mbps/sec runs over two wires, so 2Mbps/sec is possible over short lines in the ground. All you need is the right equipment at each end, the right equipment being a bridge or router. This will cost you £2,000 at each end.

You might be prepared to spend that kind of money for your permanent connection, but it's unlikely that you will find an Internet service provider prepared to spend similar money on your behalf. It's a shame, since with nearly 300 local numbers, companies like Demon Internet could provide discount access.

Making it permanent

Instead, you will have to do it properly. A single 64Kb leased line, called Kilostream by BT, provides a permanent line. This gives you a simple box on the wall, but if you want more lines BT will want to install fibre.

This goes all the way up to 32 lines, each of 64Kb, known as an E1 line which can deliver 2Mbps/sec. The E numbers are the European standard. In the US, lines are sold in multiples of 56Kbps/sec, with the much talked about T1 offering 1.5Mbps/sec. This is the kind of line which will be used by a large corporation and shared among a number of users: just the cabinet costs £2,000 and is 6ft high. But with the advent of cable communications and improvements in technology, 2Mbps/sec into the home will become possible and we'll all wonder how we coped with anything as unreliable as dialling in to get our email and as slow as 28,800bps.

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Bluesky

Shoes that think?

PJ Fisher looks at MIT's plans for the home computer with a difference.

What with Larry Ellison's vision and IBM's supposedly imminent network devices it seems that the humble desktop PC has had its day. Whatever the outcome (see *Net Opinion*, page 224), the people at the Massachusetts Institute of Technology (MIT) think that this is just the start. They are seriously looking at turning clothing, shoes, carpets and other everyday items into network devices with powerful computing power.

Sounds far-fetched, but a group within the MIT Media Lab is deadly serious about the idea.

Electric underwear

This group believes that the clothes we wear, the chairs we sit on and carpets we walk on are being wasted as inanimate devices. Traditional hardware and software should merge into "underware" with, for example, your shoes retrieving personalised news from the carpet. This could then be displayed through a pair of intelligent spectacles. In short the group believes in "Things That Think" — an appropriate name for this newly-formed research group.

The research programme is set to take three different layers of research. The lowest layer will look at the physical design of smart things, to create a range of technologies which will embed intelligent sensing and

computing into everyday household objects. The middle layer will deal with the software that will enable these objects to link together. The top level will solve the need for these devices to learn about the world, anticipating the wearer's needs.

And if you still think this is the stuff of silicon dreams, the MIT initiative has already received backing from sponsors including furniture makers, telecom equipment manufacturers — even theme park owners. Those interested in the research include Motorola, Timex, Sony and General Magic.

An example of the life-enhancing technology under discussion is a coffee maker that can sense where your mug is, determine whether it is getting cold or becoming empty and, if you often drink two cups, start brewing another. To do this, MIT is talking about "active electromagnetic interrogation of passive structures": making coffee cups active carriers of information that can be read by other devices, such as the filter coffee machine of the future.

Nice for coffee lovers, but more interesting is the group's plan to turn people into Personal Area Networks (PANs?) which would allow a computer in a shoe to use a wristwatch as a display transferring data to another shoe computer via a handshake. This links with research also being undertaken

at MIT into a so-called BodyNet, which would link people through external devices. For example, room temperatures could be set not by a dumb thermostat, but by reading the body temperature of the people, or person, in that room (although the researchers make no allowance for people's individual preferences).

The BodyNet system would use a language called BodyTalk, which would interface in a similar way to PostScript, across different output devices. The key to PostScript is platform independence. The key to BodyTalk would be its object independence. BodyTalk devices would be controlled by, as well as interpreting, the BodyNet protocols. BodyTalk is being designed to reflect the way in which we communicate with each other; through speech, gestures and images.

Watts as you walk

MIT also wants to usher in an age where technological boxes don't end up cluttering our living spaces. We all know the feeling. Every time we buy a new device; CD player, TV, VCR, we get another remote control to play with. MIT, through its school of architecture and lab for computer science, is working on a living room of the future — uncluttered by gadgets but still able to provide superb sound and vision. Preferably without wires. Once again the

concept of a BodyNet comes in, powered by the watts created as you walk, to integrate with our entertainment systems.

MIT recognises that the emergence of PDAs and (possibly) network devices represent the first shift away from the desktop, but it believes that this is just the beginning.

But MIT is realistic enough to realise that this electronic nirvana is unlikely to move beyond the theoretical stage unless a common protocol for communication is established. MIT is working on this with its Universal Transponder Code for devices, and Universal Body Code for people. MIT believes that it is absurd for us to have a wealth of potentially powerful devices around us (cellphones, PCs, laptops, PDAs) none of which can talk to each other, except in a rudimentary way.

The idea of intelligent devices everywhere in our homes may seem a scary prospect to some, but device protocols would have to become highly advanced indeed to prevent your coffee cup turning on the hi-fi, or the oven, for instance. This could be a future that may well benefit us all. It would certainly be far removed from pedantic arguments about operating systems and applications and for once would actually look at a way of harnessing computer power to make our lives easier — and more intriguing. ■

Retro

Cheap and Cheerful

Perhaps more than any home computer before or since, the ZX81 captured the popular imagination. Simon Rockman asks why such a basic machine had such immense appeal.

One of the most famous *PCW* covers shows a chimpanzee with a Sinclair ZX81. The review was written by David Tebbutt, the editor, but he was on holiday when the cover went to press.

The machine was very special, better and cheaper than the ZX80, and it became the first computer for a huge number of people. The basic machine with 1Kb of RAM cost £69.95 built (although the reviewer was told £79.95) or £49.95 as a kit with an extra 16Kb of RAM for £49.95. It was fiercely competitive, partly because it was only available by mail order. The review ran in the June 1981 issue of *PCW* but, as usual, there were huge delays before they arrived to warm the desks of users' bedrooms.

The computer had to be plugged in to a TV for the display and a cassette recorder to save (and sometimes load) programs. In a smart, black, plastic case the ZX81 looked a little less toy-like than the ZX80 despite being lighter at 13oz.

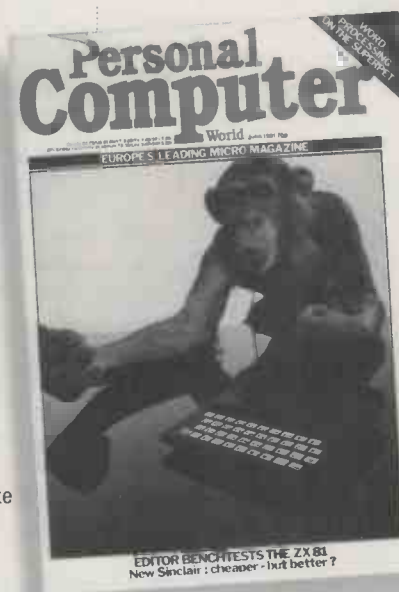
Clive Sinclair's baby had an 8Kb Basic ROM and keywords were entered using a single key-press — although finding that key with up to five functions on each key could take as long as typing the word would have

done. The machine was monochrome with a display of 32 characters by 24 lines with the bottom two reserved for system messages and editing programs. Low-resolution graphics were provided to give 64 x 44 plotting points. The 16Kb RAM pack was fitted to the edge connector: several members of the current *PCW* team find the memory of the wobbling RAM pack quite distressing.

Five screws held the ZX81 together, three of them hidden under footpads. Unlike the ZX80 the keyboard was separate from the PCB (the original used contacts on the PCB to make the keys work). Tebbutt thought the matt finish of the keys superior to the gloss of the ZX80.

One of the reasons the ZX81 was so cheap was its simplicity. There were only four chips: ROM, a 3.5MHz Z80A CPU and a 1Kb memory chip. This must have appealed to home builders keen to save the extra £20.

The addition of floating-point mathematics made the ZX81 something special: an upgrade ROM was available for ZX80



owners, but there were some disadvantages. The *PCW* benchmarks revealed the new machine to be substantially slower.

The initial review quite liked the manual, although a subsequent reader's letter revealed a number of errors.

Also new, and unavailable, was the ZX Printer. This produced aluminium foil listings which were just about suitable for debugging programs, but their dark-grey-on-silver output made them unsuitable for sending to anyone — at least not anyone you wanted to impress. The smell of the electrostatic

printer was interesting, to say the least.

It wasn't really practical to use a ZX81 for any real work, although quite a few were gainfully employed. It was an enthusiast's computer, so most of the hundreds of thousands of people who bought it wanted to program with the built-in Basic, which by later standards seems crude.

This was the machine which shone in the golden age of home computing. It may not have been useful like today's computers or elegant like a BBC Micro; even the games were barely playable and a far cry from the greats on the VIC 20. But it was a machine which, more than others, got micros into the home. A generation grew up learning how to program. David Tebbutt was spot on when he wrote: "If you know nothing about computers and you want to enjoy finding out about them, this machine offers a value-for-money way of doing just that. Children will love the ZX81, there can be no question about that, and I suspect that more than a few people who are already familiar with computers will buy one, just to have some fun." A knighthood was eventually bestowed on Clive Sinclair. ■

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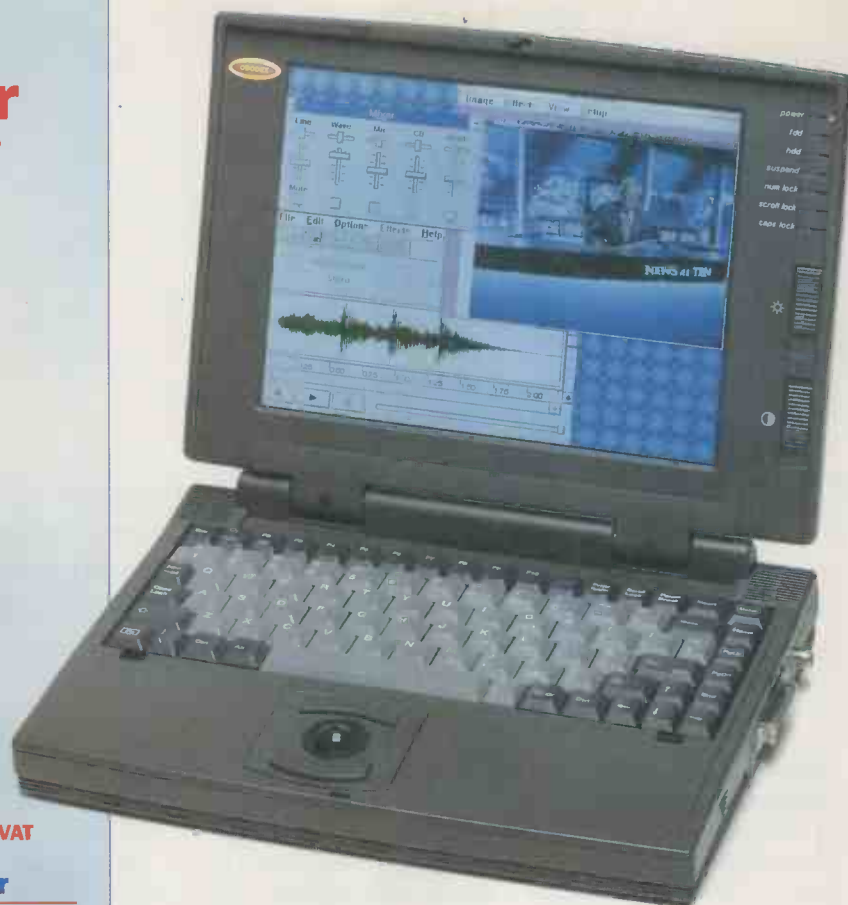
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BOOKS

Have laptop, will travel. If you fancy yourself as a hybrid between Bill Gates and Alan Whicker, then here's where the electronic globetrotting begins. Ben Tisdall, PJ Fisher and Simon Rockman bring you the mother of all markup languages, too, plus a guide to the Internet for Windows.

The Internet with Windows

It's a brave author who's prepared to toss yet another Internet book into the ocean that already exists. But Internet with Windows has a couple of USPs (Unique Selling Points) going for it. One, the fact that it's written by a Brit, the other that it's almost bang up-to-date and includes coverage of the fearsome Windows 95 TC/PIP settings. Windows 95 is easier to use and more intuitive than

Windows 3x except when you try to connect to the Internet.

I wrote "almost up to date" advisedly. I looked up what I reckon to be four of the hottest Internet topics of the last couple of months: Hot Java, Macromedia's ShockWave, the relaunch of Microsoft Network and America Online's recent launch in the UK. America Online and Java get a couple of paragraphs. Shockwave missed the deadline as did the latest Microsoft Network

developments. Still that needn't be a problem because this book will help you get onto the Net, and once online it's easy to surf your way to the latest stuff on the aforementioned topics.

The book is meant to be read from beginning to end but I don't suppose many people will wade through all 642 pages, as it's sufficiently well-organised and indexed for readers to dip into. There are 26 chapters in all. All the obvious topics are covered: ftp, Telnet and Archie each get a chapter, but there are also sections on the history and structure of the Internet, business on the Internet and Internet culture. Extensive appendices on service providers, modems and comms and step-by-step ftp and a glossary complete a comprehensive package. If you're determined to buy just one Internet book, make it this one.

The Internet with Windows

Author Glyn Moody

Publisher Butterworth Heinemann

Price £19.99

ISBN 0-7506-2099-4

Rating →→→→→

BCD...SGML A User's Guide To Structured Information

The World Wide Web has made a basic understanding of HTML essential for anyone who wishes to put information onto the Internet. As many now

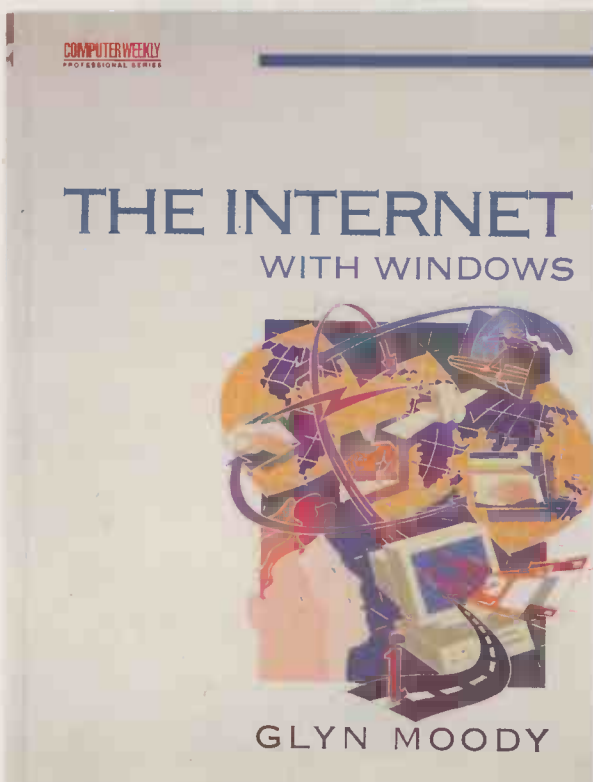
know, HTML is the system of DTDs (Document Type Definitions) that Web browsers must parse in order to display text and graphics on any computer platform.

What's less well known is that HTML is a subset of a far richer DTD set known as SGML (Standard Generalised Markup Language) which has been around for at least 25 years and came from a desire by publishers to overcome the ASCII limitations of computer-based typesetting systems.

HTML is basically a hypertext resource that allows documents on the Web to link with others. Despite having been pushed to the limits by extensions from Netscape and other vendors, its graphical and textual capabilities are limited. Some of these will be enshrined in the HTML 3.0 ISO standard.

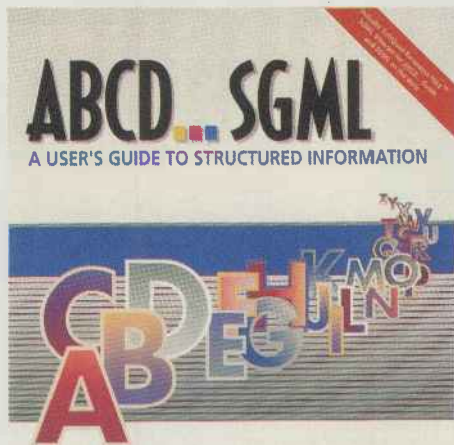
The popularity of HTML has now brought its parent out of the shadows and people are discovering its power as a tool for distributing technical documentation online, with links not just to the Web but to other SGML documents, and complex links to appendices and indexes. SGML has database publishing capabilities that are way beyond the scope of HTML on its own.

But SGML remains daunting to many people. Liora Alschuler's fine book should serve well those who wish to begin investigating SGML as a



means to publishing on the Web and online. It provides a comprehensive history of SGML and explains in clear terms exactly what it is, how it works and why your organisation may need it.

But this is no intense manual on learning SGML or how to "create great looking documents". Instead, it makes you understand SGML's potential. True to the academic roots of SGML, it is an elegant and, at times, cerebral read which makes you think about the concepts of information dissemination and publishing. For those that want to go further, there are



LIORA ALSCHULER



enough resources and pointers to learn SGML for yourself.

An enclosed disk includes a copy of SoftQuad's Panorama Free SGML browser, which works in conjunction with Netscape to view SGML documents held on the Web or the floppy itself. So after digesting SGML you can see it in action for yourself. Recommended.

BCD... SGML A User's Guide To Structured Information

Author Liora Alschuler

Publisher Thomson Computer Press

Price £29.50

ISBN 0-395-71133-9

Pages 414

Rating ♦♦♦♦♦

Travels with a Laptop

Regular readers of Michael Hewitt's column in *PCW* will know that he's been all over the world with his laptop. He's Internetted from Iceland and called Cix from Cuba.

Travels with a Laptop is an easy-to-read guide to using your modem in foreign climes. Hewitt warns you of countries where you'll need to format your hard disk before passing through customs, and that modems are illegal in Syria where all international calls are monitored.

In preparation for your visit there is a handy guide to the phone plugs of the world, in which the author advises you to photocopy and fax through to the hotel you will be visiting. However, it might be a little unwise to alert some hotels to your intentions, since if they can't help, you might find yourself resorting to some of the more aggressive techniques described in the book. These rely

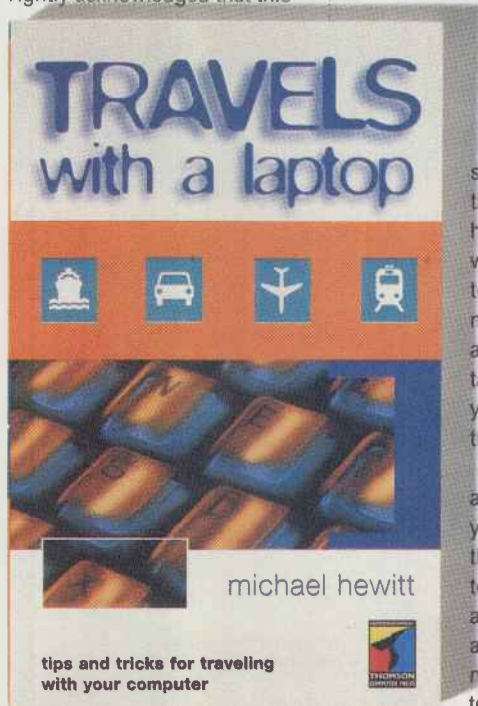
on moving furniture to find hidden sockets, taking phones apart and attacking the wires with a screwdriver.

This is a book which should carry a red triangle: a lot of the practices described are either illegal or contravene FCC or BT rules, the rest are generally frowned upon. Hewitt's cavalier attitude to the jobsworth in a boiler suit is mitigated by the fact that no-one really cares anyway.

However much you think you know about logging in from strange places, you are bound to learn something here. In an attempt to make the book less technical, there is a little glossing over. And there are some concessions to an America

readership in an attempt to widen the books appeal beyond the UK.

In some ways, it casts its net too wide: looking at the advantages of different computers, for instance and it's rightly acknowledged that this



information will date quickly.

The information on the software and service provision aspects of using a notebook while travelling isn't as good as that on getting your modem working, but then there are plenty of sources of information when it comes to using comms

software. A few of these will tell you how to work out which wires to use to connect up your modem. The book advises that you take a copy with you when you travel abroad.

Heed that advice. At least you'll have something entertaining to read after the authorities have arrested you for meddling with the telephone in your

hotel bedroom.

Travels with a Laptop

Author Michael Hewitt

Publisher International Thomson

ISBN 1-85032-164-7

Price £9.95

Pages 196

Rating ♦♦♦♦♦

Top Ten Books: March 1996

1	Web Page Design Cookbook (Book/CD-ROM)	Wiley	£22.50
2	Delphi How-To (Book/CD-ROM)	Waite Group	£36.50
3	Teach Yourself Web Publishing with HTML in 14 Days (Book/CD-ROM)	Sams.net	£37.50
4	Java! (Book/CD-ROM)	New Riders	£32.99
5	New Internet Navigator	Wiley	£15.95
6	World Wide Web Marketing	Wiley	£15.95
7	Microsoft Windows 95 Resource Kit (Book/CD-ROM)	Microsoft Press	£46.99
8	Windows NT Server Professional Reference	New Riders	£50.99
9	Teach Yourself Database Programming with Delphi (Book/CD-ROM)	Sams	£37.50
10	OLE Controls Inside Out (Book/CD-ROM)	Microsoft Press	£37.49

List supplied by The PC Bookshop, 11 & 12 Sicilian Avenue, London WC1A 2QH
Tel: 0171 831 0022. Fax: 0171 831 0443

Kids'

STUFF

CUTTING EDGE

Although stricken with the worst cold in the history of civilisation, Paul Begg has joined daughter Siobán in search of opals in the Australian outback, stood beside Nelson at Trafalgar and Columbus in the New World, taken a bus into the depths of the ocean and made some paper planes. We can merely stand in awe.

Lying in bed, coughing, spluttering, starting on a new box of tissues and sadly resolved to the fact that nobody ever gets colds as bad as mine, I flicked idly through some press releases. I reflected on the fact that children's software — and children in general — have come to dominate the computer world. Kids' stuff is big business, as the Christmas TV ad campaigns will have reassured you. Intel, Hewlett-Packard (for its DeskJet 600 and 600C — very good printers, by the way) and some Disney software are just a few examples, and I particularly recall Microsoft's ads for The Magic School Bus Explores The Ocean, which is reviewed below.

The press releases, telling of product launches and company mergers, reinforced this view. Key among them is the scrapped merger between The Learning Company and Broderbund Software. The Learning Company will now merge with Kidsco Inc, a wholly-owned subsidiary of SoftKey. The transaction, which will have a total value of approximately \$606 million, will make SoftKey the largest educational software company in the world. The deal brings with it an agreement between SoftKey and its largest shareholder, the Tribune Company, to merge Tribune's Compton's New Media with SoftKey.

Yet more evidence comes

from Plymouth-based software distributor Guildsoft. Guildsoft has tended to select and distribute innovative software that could either go like a rocket or die a death. The company has now launched a new range of branded software titles — that's software carrying the Guildsoft logo — with six titles aimed at the kids market. There are four edutainment titles and two games. The games are The Adventures of Down Under Dan and Kingdom at War.

The Adventures of Down Under Dan

Dan is a down-at-heel bush pilot; the only bit of his plane he hasn't put in hock is the air in the tyres. With the bank closing in, Dan is willing to try just about anything, even setting off into the deadly Outback in search of opals. There's nothing to it — all you have to do is pick them up. Well, it isn't that simple. Dan — or rather you, because you are responsible for making all Dan's decisions — has to use all his wits just to survive: Crocodile Dundee he ain't. As you'll have gathered, this is a fairly complex puzzle game and there are some excellent photographic backgrounds to add realism to the settings.

Kingdom at War

Years ago on a Friday night, a friend and I used to play the war strategy board game Risk! Okay, it wasn't the most exciting



Make me a World encourages children to make their own toys, away from the computer

The Adventures of Busy Billy/Things for Kids/Treasure Hunt

The education titles are The Adventures of Busy Billy and Things for Kids, which fall in the age group 3-10/12 (although expecting them to appeal to 12-year-olds seems optimistic). Treasure Hunt and Make Me A World are for 5-10 year olds. Busy Billy contains two interactive animated stories in which

way to spend Friday nights, but I'm talking about the days of rented flats, when spaghetti was always the evening meal, and money was something other people had. Come to think of it, what's changed? Anyway, Kingdom at War is a Risk!-like strategy game set in medieval times of sword and sorcery. Up to six people can play against each other or against the computer. So if you fancy suiting up in armour, capturing towns and cities and maybe uniting the land under your benevolent rule, this is the game for you.

Clicking on an on-screen icon makes Billy act in a related way. For example, if you want Billy to open a door, click on the key icon. In this way, children help Billy solve problems and overcome challenges. There are some additional puzzle games, such as a jigsaw, and your child can even make some new, simple adventures. Things For Kids is a value pack of eight programs for composing music, drawing pictures and colouring.

Make Me a World

Treasure Hunt is also rather optimistically pitched at the higher age range, but will appeal to young children. You discover a treasure map and set off to find the treasure. Perhaps the best of all these titles is Make Me a World. I like software that encourages children to do things away from the computer and Make Me a World is a prime example. It's really a computer version of those cut-out books you used to be able to buy — you'd cut around the dotted lines and then fold and tuck bits together, glueing here and there to create a 3D model. This works on the same principles: you simply select the picture you want, print it out (either pre-coloured or in black-and-white for your child to colour), and away from the computer your child can learn to use scissors, fold and tuck, glue, crayon and paint to create a variety of paper objects. It's a great package to have to hand when you've got several young children or a small play-group to keep occupied.

Paperopolis

If you find the concept of Make Me a World appealing, try to take a look at Paperopolis from Virgin Sound and Vision. It provides complete instructions for making over 600 paper toys including boats, planes, flowers and animals. All you have to do is choose what you want to make, print it out, and just follow the instructions. Kids will love Ted



Paperopolis takes the concept of Make Me a World further — kids can create a paper world, under the expert guidance of Ted the Toad

the Toad, the guide, whose wisecracking lasts over 50 minutes. Make Me A World and Paperopolis may prove the fallacy of the paperless office, but together with a ream of fairly thick paper, they could be the answer to bored kids.

How Would You Survive?

Grolier's latest offering How Would You Survive? is a little more serious. This is a teaching package with a twist: it includes a knowledge-testing game in which you can find out how well you'd survive in the past and all over the world. How Would You Survive? takes in Egyptian, Viking and Aztec societies. Find out about the buildings people lived in, what their craftsmen made, how they travelled and traded and what life was like for children. How Would You Survive? has

over 140 movies, animations, maps and sound effects.

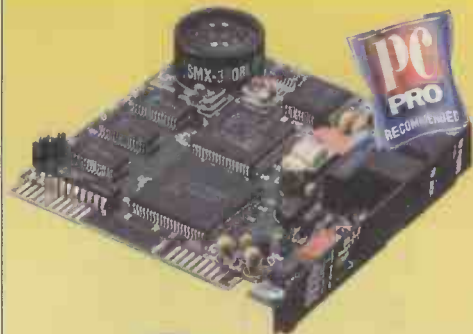
Explorers of the New World lets you follow in the wake of Columbus, Magellan and Cortes as they explored the Americas. Detailed maps, photo-realistic backgrounds and historically accurate video recreations combine to bring these explorers and adventurers alive. There's also a database of over 60 more explorers of the New World from 1450-1600. Sadly it doesn't include the Vikings, but this is still a solidly good CD-ROM.

Anglia Multimedia — new titles

Nelson and His Navy comes from Anglia Multimedia and is linked to Key Stage Three in the National Curriculum. The disc provides you with the opportunity to tour the Victory (even

venturing within the cabins not normally open to the public), review Nelson's battles of Trafalgar, the Nile, Copenhagen, and Cape St Vincent, and discover what life was like aboard ship. You can look at navies throughout history, from Alfred the Great to the present day. The disc contains a host of illustrations, including paintings, drawings and artefacts from the collection of the National Maritime Museum.

CD-ROMs from Anglia Multimedia have been coming thick and fast. Last month we looked at Exploring Castles and Vikings! and literally as I was writing the above paragraph, someone delivered a copy of the latest Anglia title: Understanding the Body. There have been a lot of "under the skin" titles floating around, the best known of which



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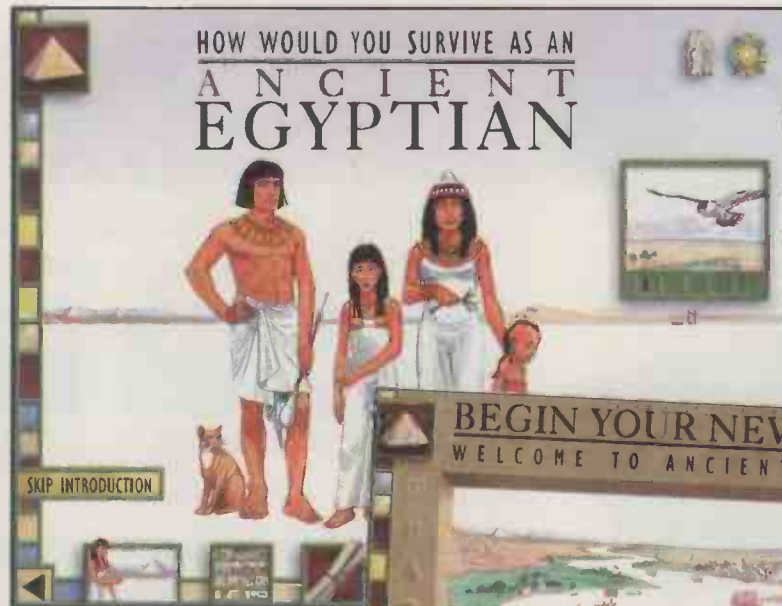
Modems are complete packages designed for UK use i.e. full 4 wire working (handset rings, PABX recall and power failure ringing).
 Speed Com Plus and Pro are BZI not BABT approved.

It's the product
 everyone's been waiting for.



are probably the various incarnations of Bodyworks and Dorling Kindersley's *The Ultimate Human Body*. In comparison to those extremely slick titles *Understanding the Body* only just holds a candle, but there's over 50 videos, hundreds of graphics, loads of photographs, and 50 activity sheets giving ideas for away-from-the-computer projects. The disc also scores because it's linked to Key Stage Three of the National Curriculum and, like most of the Anglia titles, your children are likely to already be familiar with it. The reason for this — and the reason why the titles are appearing at a rate of knots — is that they are being ported to the Windows and Macintosh platforms from the Acorn, widely used in schools. My only real complaint is that the discs are overpriced. With most companies slashing kids' software prices to a £30 peak, the Anglia titles seem at least £10 more than they should be and probably £20 — at £19.99 they'd be a real winner.

My last word goes to *The Magic School Bus Explores the Ocean*. This is based on *The Magic School Bus* cartoon series on TV. If you have satellite, you may already have seen it. If not, you can or will soon be able to see it on Channel 4. Microsoft has already produced two titles, *The Magic School Bus Explores*



Staying alive Egyptian style — *How Would You Survive?* pits your wits against the knowledge of ancient societies. It's also stuffed full of multimedia

the Human Body and *The Magic School Bus Explores the Solar System*. Basically, each disc is the same: the somewhat eccentric teacher Ms Frizzle drives the magic school bus and, as the titles show, takes her class of students into space, around the body or, in the latest title, into the depths of the ocean. The concept is overwhelmingly fun, with jokes, wisecracks and games, but at the core is solid scientific information. Being based on a TV cartoon series overcomes some of the problems with the Americanisms, most notably the fact that we don't have school buses in the same way as they do in America, and makes the characters familiar. So, if you have a child who likes the cartoon series, the discs will make a fun introduction to science. Overall, worth taking a look at.



The Adventures of Down Under Dan, Kingdom at War, The Adventures of Busy Billy, Make Me a World, Things For Kids, Treasure Hunt
 Price £29.95 inc £5 shipping & VAT
 Contact Guildsoft
 Tel 01752 895100
 Fax 01752 894833
 Rating ★★☆☆☆

Paperopolis
 Price £29.99
 Contact Virgin Sound and Vision
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 Rating ★★☆☆☆

How Would You Survive?
 Price £39.99
 Contact Matra Hachette Multimedia
 Tel 0181 600 6023
 Rating ★★★★★

Explorers of the New World
 Price £24.99 inc VAT
 Contact SoftKey International
 Tel 0181 789 2000
 Fax 0181 789 5626
 Rating ★★★★★

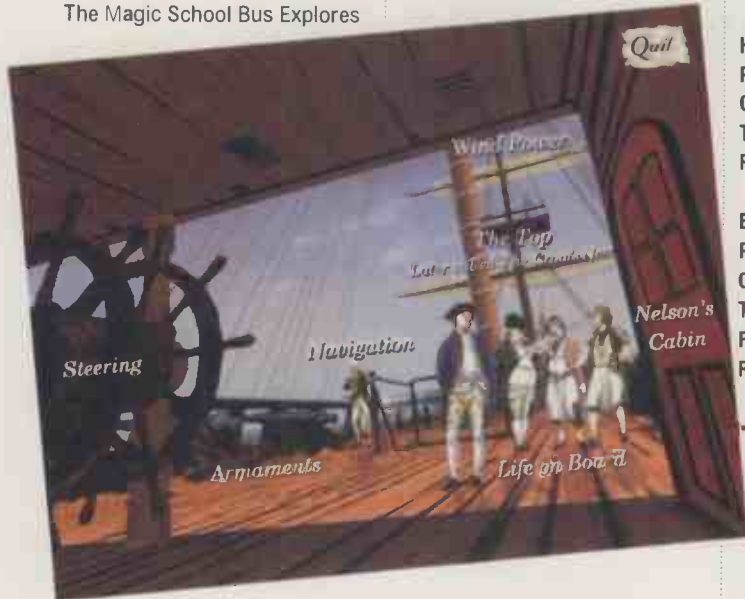
Nelson and his Navy is just one of Anglia Multimedia's new educational CD-ROMs. This is linked to National Curriculum Key Stage Three

Nelson and His Navy
 Price £39.99
 Contact Anglia Multimedia
 Tel 01603 615151
 Fax 01603 631031
 Rating ★★★★★

Understanding the Body
 Price £39.99
 Contact Anglia Multimedia
 Tel 01603 615151
 Fax 01603 631031
 Rating ★★★★★

Exploring Castles and Vikings!
 (also from Anglia Multimedia at £39.99)

Magic School Bus Explores the Ocean
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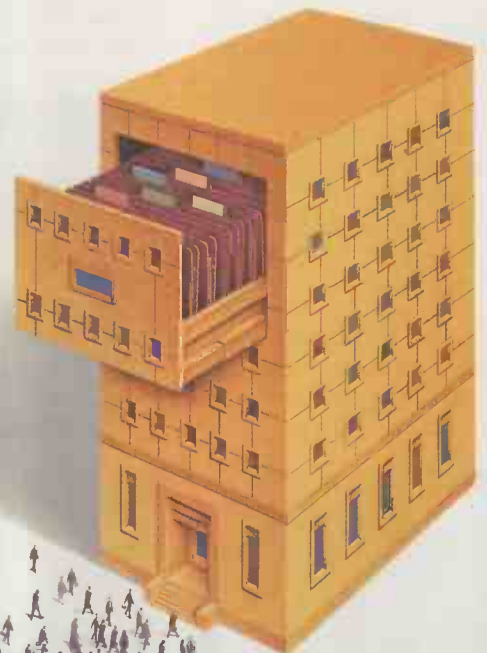
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CD-ROMs

Take a break from the demands of your drawing package and enjoy some of the world's most famous paintings, from Ancient Egypt to Impressionism. Then lose yourself in celebrity heaven with new film and music titles, and get serious about martial arts. With Adele Dyer.



A Stroll Through 20th Century Art; New Media Solutions

In the past few months, another sheaf of art CD-ROMs has appeared. Three of the offerings this month are from New Media Solutions and make use of their own image database, ImageAXS, as an interface to the images, while A Stroll Through 20th Century Art takes an altogether more esoteric approach.

The basic premise of the ImageAXS-based CDs is that the easiest way to learn about art is to see the images themselves, choose something that catches your attention and then look for more information. Pictures can be enlarged, although the larger the view, the more detail you

lose as the scans are not at high enough resolution to be viewed at very close quarters. Close-up, the pictures can look too digital and lose the feel of the paint. However, some of the images have smaller sections reproduced, so you can get a closer look at some of the details.

The art itself on all three disks, Ancient Egyptian Art - the Brooklyn Museum, Great Paintings - Renaissance to Impressionism, and Masterworks of Japanese Paintings, is exceptional, as you would expect from some of the best collections in the world.

The background information on the pictures is stored separately on a linked screen, but

does suffer from being part of a database. As a result, what you see is a mass of densely typed, 10-point text on a grey background, not the easiest way to read the material and unfortunately you cannot change the typeface or background.

This is a shame, as it detracts from what is otherwise a very sensible way of reviewing a collection. You can look through the collection very much as you would a gallery. Because you have the pictures at a glance, you

do not have to spend time searching for an image if you do not know the title.

A Stroll Through 20th Century Art is a completely different affair. This is a trip through a real gallery — the Maeght Foundation in the south of France, a collection of mainly expressionist works owned by Monsieur and Madame Maeght. Most of the pictures in the collection were painted for them by friends.

The CD takes a tour around the building and grounds, shot

in hand-held video mode and shown in a round window. This way of making the video, much favoured of late by Woody Allen *et al*, gives it that slightly shaky, but very arty look which suits the pictures it includes.

Otherwise there are numerous ways of finding out more about the various artists and their works, all of them beautifully presented.

Unlike other CD galleries, this one is flexible in its approach.

Once you know where to find things, it is easy to navigate around the CD. While you are still learning, your progress does tend to take you on an unhurried but thoroughly rewarding wander through the pages. The result is one of the best art CDs I have seen.

The artists featured are all, as you might expect, 20th century and principally post-war. The likes of Miro,



Examples from (above) Great Paintings, (left) Masterworks of Japanese Paintings, and (below) Ancient Egyptian Art. Below left 20th Century Art





Braques, Bonnard and Calder all feature prominently, and to accompany their works in the museum there are biographies and explanations of the ethos behind their work.

The approach you choose will depend on how you like your art presented. If you want to be entertained by the tour, then go for the Maeght. If not, the ImageAXS is the best way to get straight to the art itself.

A Stroll Through 20th Century Art

Contact Matra Hachette
Multimedia 0181 600 6000
Price £44.99
●●●●○

Masterworks of Japanese Paintings

Contact New Media Solutions
0171 229 1708
Price £39.95
●●●●○

Great Paintings — Renaissance to Impressionism

Contact New Media Solutions
0171 229 1708
Price £39.95
●●●●○

Ancient Egyptian Art — the Brooklyn Museum

Contact New Media Solutions
0171 229 1708
Price £39.95
●●●●○



Cinemanía 96; Music Central 96

Updating and expanding its range of home entertainment titles, Microsoft has released Cinemanía 96 and Music Central 96. The former is an old favourite; the latter has the same idea as Cinemanía, but applied to music, not movies.

Both titles are highly slick.

Cinemanía 96

Brad Pitt

(1964 -)

Occupation: Actor
Birth Name: William Bradley Pitt
Born: December 18, 1964, Shawnee, OK
Education: University of Missouri (journalism)

Handsome young actor who, after appearing in recurring roles on the soap operas "Another World" and "Dallas" and starring on the TV series "Glory Days," first gained notice

Music Central 96

The Rolling Stones

Originally billed as the Rollin' Stones, the first line-up of this immemorial English '60s group was a nucleus of Mick Jagger (b. Michael Philip Jagger, 26 July 1943, Dartford, Kent, England; vocals), Keith Richards (b. Keith Richards, 18 December 1943, Dartford, Kent, England; guitar), Brian Jones (b. Lewis Brian Hopkin-Jones, 26 February 1942, Cheltenham, Gloucestershire, England, d. 3 July 1969; rhythm guitar) and Ian Stewart (b. 1938,

Above

Brad Pitt, one of the stars of Cinemanía 96

Right Lock up your daughters! The good old Rolling Stones make an appearance in Music Central 96

They have plenty of stills and videos, as well as containing reviews by three good critics. This year's version of Cinemanía, and indeed Music Central, are also less prone to date as quickly as other year's editions, since you can download monthly updates from the Microsoft Network or Web site. Providing, of course, that you are online.

Both the material and the interface of Cinemanía have been updated since last year. The result is a very smart disk which does not grate either due to a clunky interface or — a regrettably common problem — because it's an American product, and the material contained on the disk is comprehensive. One particularly nice touch is the facility to search for an idea of a video to rent. You choose a category and then spin a kind of

roulette wheel to reveal the choices Cinemanía has made on your behalf.

The only downer about this CD is the categories it presents. For example, if you want to search for a Bond film, you have to look up either the particular titles or the leading actors and find the film from their filmographies.

Music Central is similarly comprehensive. We sat in the office, scratching our heads to think of the most obscure acts ever to walk into a recording studio, and were duly impressed when we found them all. Blues violinists, one-hit wonders and tuneless troubadours — they were all there.

For all the artists there is

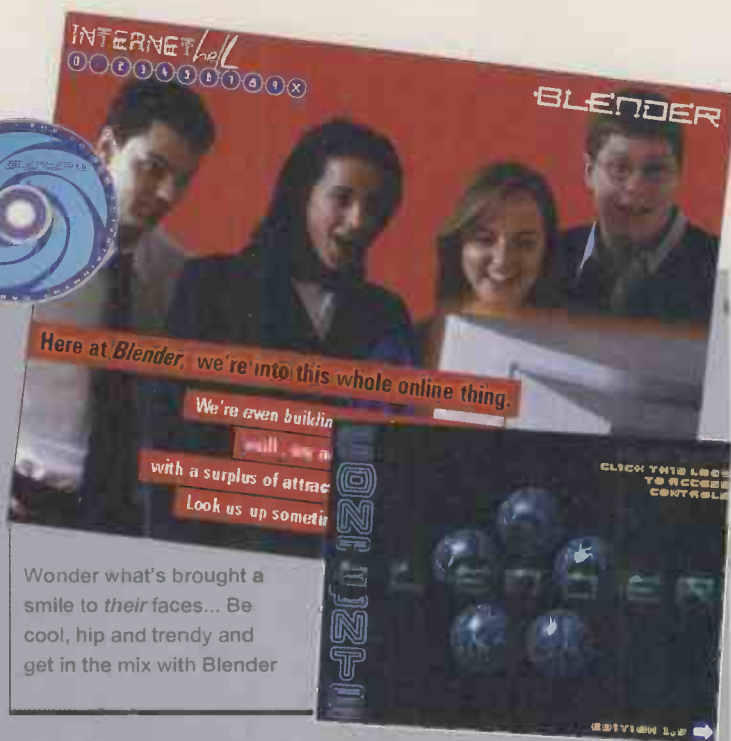
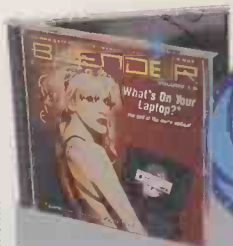
either a biography or discography, generally both. The biographies cover such things as musical direction and the artist's musical career. The discographies, however, are probably of most use, as they give reviews of the albums, track titles, record company and catalogue number. Together with the videos and sound tracks, this is a highly entertaining package.

Cinemanía 96

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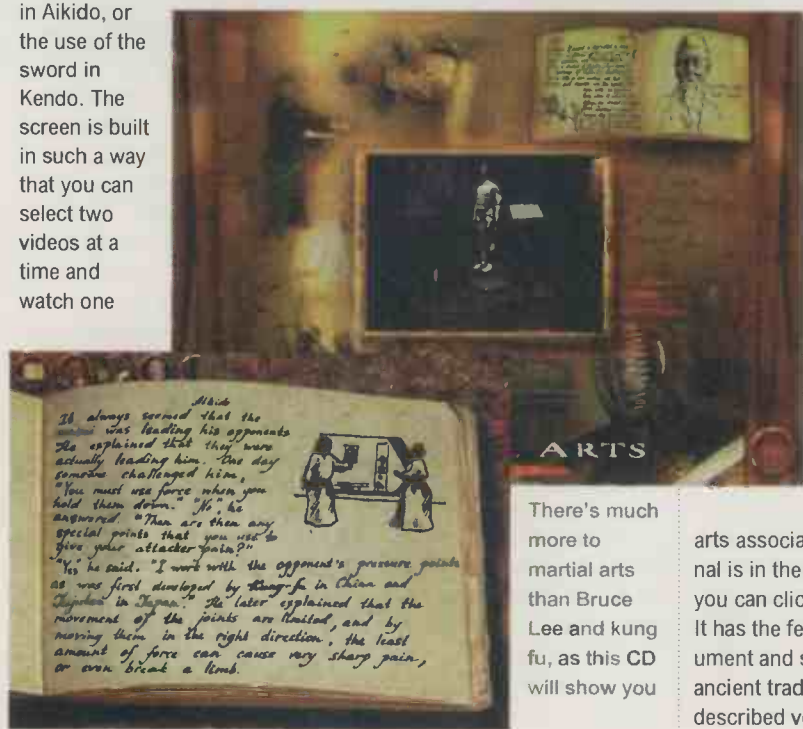
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The Martial Arts Explorer

If, after a steady diet of Bruce Lee films, you are tempted to classify all martial arts as “kung fu”, then you are in urgent need of an education from this CD. It’s intended to give Western eyes an understanding of the myriad of martial arts and the culture surrounding them. So the two main parts of the CD deal with different ways of discovering different forms from diverse perspectives.

The first of these is the “comparaview”, a series of video clips demonstrating various aspects of the different arts. For example, you can choose to look at leg actions in Aikido, or the use of the sword in Kendo. The screen is built in such a way that you can select two videos at a time and watch one



Blender

Magazines on CD are by no means a new idea. Back in May 1995 we reviewed *UnZip*, a collection of features on such subjects as music, film and the Internet. *Blender*, the latest offering from Dennis Publishing is a US product and is trying very, very hard to be hip.

The features include the sort of general interest topics thought to be of most interest to the generation X — cinema, cartoons, music and fashion. The general feeling is that someone has condensed *The Face* into multimedia format.

The relative value of what is on the disk is questionable. The ethos seems to be that you have to cram as much in the way of multimedia as you can into each frame. So in the feature on Courtney Love, for example, you get a background picture of the woman in question or, for some bizarre reason, the *Blender* editorial team, and a few lines of text.

The actual text is even more dubious. It is designer journalism — too clever for its own good without imparting any real information. It sounds, perhaps to my undiscerning ear, like the kind of drivel you hear from overexcited and slightly inebriated teenagers on their big night out.

It does

have a few redeeming features in the form of some quite entertaining cartoons and the odd snatch of music, but most of the items are skimpy and unintelligible, like the section on the rubbish Courtney Love puts onto the Net while chatting to her friends. You, the user, are asked to help put a stop to it with a barrage of equally inane outpourings.

The fundamental idea behind *Blender* is good, but it suffers from bad execution. It tries to do everything, and ends up not doing anything quite well enough to persuade to me give up magazines in favour of CDs.

Contact Dennis International fax 001 212 302 2635
 Price \$29.95 for 6 issues
 ●●○○○

after the other, comparing techniques.

The second exploration is through the journal of the martial arts explorer himself, Tensakusha. He travelled around Japan, meeting great martial arts masters, learning about martial culture, its philosophies and the fine arts associated with it. The journal is in the form of a book, so you can click to turn the pages. It has the feel of an ancient document and so recreates the ancient traditions of the arts described very effectively.

This section holds the rest of the disk together and makes all the other parts fall into place. The gallery of fine art and the library of explanatory texts go into greater detail about the ideas raised in the journal. The library actually goes far beyond this, offering a wealth of information on all manner of oriental cultural matters.

A book accompanies the CD, so you will not have to read quite so much information off the screen. It not only contains basic information on each of the martial arts covered on the screen, but also a glossary — a useful inclusion.

The Martial Arts Explorer
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CUTTING EDGE

Screenplay

NEWS

It's fore you

PC golfers who are teed off with inferior software simulations should take a look at the latest release from Microsoft: Golf 2.0 is now available on CD-ROM and is designed to take advantage of Windows 95. The new version provides 36 holes at both Torrey Pines and Firestone Country Club, and includes "Skins", the US game-scoring feature that raises the stakes with each

carry-over. Perhaps the most interesting improvement of all is a new feature called PlayerNet, the first version of Microsoft's multi-player gaming environment. Golfers can connect to each other over a LAN, play in competition and enjoy the occasional network chat.

Golf 2.0 is compatible with Windows 3.1 and Windows 95 and costs £29.99. *Microsoft 01734 270001*



All in the head

→For those who want to talk as well as listen to their PC, Logic 3 has come up with the ScreenBeat Headphone with Boom Microphone.

This lightweight multimedia affair has been designed to ensure high levels of comfort during PC bonding sessions, and you get the whole package for a mere £9.99.

Also from Logic 3 comes the PC Tracer joystick. But this is not just any old £12.99 budget shaft — it claims to have a "Sensitive Hand" grip, designed for improved control and two high-precision X-Y trim controls to adjust tension.

With two fire buttons and an option for high speed auto-fire, the PC Tracer offers a fair amount of flexibility and its small, contoured base won't deprive you of desk space.

Both products are distributed by Spectravideo on 0181 902 2211.

3 Prong attack

Grolier Electronic Publishing has entered the games arena with a new name and some intriguing titles. Its new company, 3 Prong Plug, will concentrate solely on games production.

Among the first of its forthcoming titles is "Terror T.R.A.X". Destined to appeal to fans of the hit sci-fi series The X-Files, Terror T.R.A.X (Trace, Research, Analyse and Exterminate) casts you as an undercover operative investigating paranormal activity. You travel through a city searching for vampires and the undead guided by Ether, a digital ghost computer image. 3 Prong Plug claims Terror T.R.A.X. offers a full-screen video filled with exceptional special effects, graphics, sets and acting.

If you're more of a Lt. Columbo than an Agent Mulder, then "SFPD Homicide Case File: The Body in the Bay" may be more up your street. It's a murder mystery based on a real case that took place in San Francisco. Playing the role of rookie detective, you must identify the body, interview suspects and witnesses, collect evidence and make an arrest. You must build a strong enough case for the DA to get the conviction and you've only got two weeks in which to do it.

SFPD includes full motion video, sound, music, photos and dramatic witness dialogue from actual case transcripts. And there's an on-screen advisor who just happens to be Frank Falzon, the real investigator who solved the case.

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CUTTING EDGE



Virtua Fighter 2

So just how tough do you think you are? The new Saturn version of this beat 'em up will really put you to the test. Its similarity to the arcade version really knocked the wind out of Chris Cain.

While Sega is still the undisputed heavyweight champion of the arcades, its image in the console world has taken a bit of a battering: the Saturn is currently playing second fiddle to Sony's Playstation, and there are doubts among consumers about its power to compete. What Sega needs is a state-of-the-art title to put it back on top, and Virtua Fighter 2 could do just that.

Virtua Fighter 2 is the sequel to Sega's original ground breaking 3D beat 'em up, one of the most popular arcade games of 1995. As with most of this genre, the game centres on an annual martial arts tournament. The idea is simply to enter the competition and win. Each of the characters you play has a story background and enters the tournament for a different reason. Virtua Fighter 2 adds two characters to the original eight.

The tournament is split into 11 fights: one against each of the other characters, one against yourself, and a bonus battle. Fights are organised on a best of three basis, and rounds are won

either by knocking out your opponent or by getting them to step outside the ring. When you've notched up two points you get to perform a victory stance, taunt the loser in one of three ways and move on to the next level.

The wince factor

The ideas behind VF2 may be simplistic, but beating your opponents isn't easy as each is armed with between 50-70 fighting techniques. These include assorted spinning kicks,

really what the game is all about.

Graphically, the Saturn version of Virtua Fighter 2 is not just quite close to the arcade version, it's ridiculously close: when you consider that the arcade system costs ten times as much as the console, what Sega has achieved with its sub-£300 box is nothing short of spectacular. The characters and



as impressive as the arcade version. But where VF2 scores most is in its depth of playability. It outclasses every other game of its type thanks to what has to be the perfect control system and learning curve: you really get a feel for each of the characters and their fighting styles, and you can play in different ways depending on you alter ego at the time.

Sega has included several new options in the home version, including a Team Battle option, a Ranking mode to grade your skill, and a Watch mode. These additions work well to extend the game's lifespan although most players will stick to one or two-player modes.

If Virtua Fighter 2 doesn't put Sega and the Saturn firmly back on the map and shake up Sony at the same time, I'll eat my gamepad; the only better beat 'em up available is the arcade version.

System requirements

Sega Saturn, one or two gamepads

Price £44.99

Contact Sega 0171 373 3000



powerful punches, back-breaking throws and a variety of other moves guaranteed to make you wince. What's more you'll need to learn to perform all of your characters' moves to stand a chance of getting though to the end. Perfecting the moves and then learning to string effective combinations together is

backgrounds are updated at a smooth 60fps (frames per second) — 50fps on the UK PAL version — and the animation and detail are simply first class. Advanced motion tracking techniques have been used to provide an unparalleled level of realism and texture mapping gives everything a solid look. As nice as they are, the static screenshots shown here simply don't do the game justice.

In the sound department, the Saturn version is, again, almost





The Hive

Bee-ware! There's no honey in this hive, as Dylan Armbrust discovered when he tried to smoke out the protectors of the evil, toxin-producing Hivasects — and found his legs turning to Royal jelly.



If you're looking for a good buzz (game buzz, that is) then you won't want to miss this one, released by Trimark Interactive and created by the Rainbow America Team. The Hive is exclusively for Windows 95. It boasts of interactive action in "never before seen" Panoractive sequences that offer a 360-degree range of freedom for realtime game play in a 3D environment.

You are Max, a Federation agent sent to do battle with the Black Nexus Mob, those nasty people who have resurrected the Hivasects, producers of a deadly bio-toxin from the now extinct Ancients civilisation. Your job is to infiltrate the Mob, who are masquerading as the Noir Dyne Corporation, discover the hive and destroy it. The only help you have along the way are data bursts of information from your Federation liaison, Ginger Malloy.

The game is split into 20 scenes, the first starting with Max attempting to infiltrate the Noir Dyne Corporation to capture a sample of the deadly toxin, for study. Unfortunately, just as Max loads the sample, Ginger notifies him that it is a set-up and his cargo is a bomb. After quickly ejecting the load and just barely avoiding the blast, the battle commences. With his cover blown, havoc erupts around him.

Max must then progress through various stages blasting Quad Fighters, avoiding sheer rock faces and navigating mazes until he reaches the final stage of confrontation in the Queen's Chambers.

The game starts off fine and seems exciting enough, but its limitations show through fairly soon. Whenever I think "interactive", I have visions of being able to navigate wherever I need to go. But with *The Hive* I found myself becoming frustrated with

being unable to do this. All the scenes begin with a non-interactive video sequence and action scenes are only at the game's pre-programmed discretion.

Yes, the Panoractive scenes do provide a 360-degree range of view and/or fighting capability but that's it — otherwise you are stationary. I found this limiting as I ended up a sitting duck in many scenes and the only determinant of moving forward in the scene is how many people or things you blow away. And if I'm going to blow things away, can't I please at least sneak up on them and toast 'em that way? Nope, not in this game I can't.

The graphics aren't that bad:

resolution is from 300 x 200 x 256 colours to 640 x 480 x 65,536 colours, but is dependent on what CPU you have and how much RAM is present on your graphics card. More is better.

Overall, I'd say it's an OK game: there's lots of action and plenty of blood splats but it comes up a bit short on freedom of movement.

System requirements

486/66 with 8Mb, Windows 95, double speed CD-ROM, MPC Level 2 compatible 16-bit sound card. Supports joysticks and mouse, but not gamepads.

Price £39.99

Contact Funsoft 0181 748 7565

Steel Panthers

Peace in our time? Certainly not. David Brake dons his full metal jacket to review a war combat game that takes the genre to new heights of realism.

The past few months have been great for those who like strategy games and recently Westwood Studio's *Command and Conquer* has topped the charts. But now, SSI's *Steel*

Panthers has arrived: a simulation of World War II tactical combat that is as near perfect a game of its kind as I have seen.

This game feels totally true to life. Earlier simulations tended to



Get right into the muck and bullets — demoralise the opposition and destroy those tanks, in *Steel Panthers... sorry, Panthers*

be frustrating, as combat troops were often like automatons. In this game, however, morale plays a key role: it may not be possible to destroy a Panther tank for instance, but if you bounce enough shells off the front of its armour or immobilise it, the crew will panic and bail out. If you are lucky, you can rally them to board the tank again and fight on.

Your chance of hitting the enemy is realistic, too: it depends on whether your own

and/or your enemy's vehicles are moving; the morale of your crew; whether they are distracted by being fired upon; whether you've previously fired a few ranging shots, plus a host of other factors. You are not only informed when you hit your opponent but also where — you need to know that a hit on the side or rear of a tank is more likely to destroy it than one on the front, say.

With most simulations of this sophistication, the designers

tend to concentrate on getting the mechanics right and forget the need to make the game visually appealing. *Steel Panthers* is not only one of the most rigorously accurate WWII simulations I've seen, it's also one of the most attractive. It works in SVGA. Each armoured vehicle, artillery piece or infantryman has its own distinctive and realistic outline and is placed on attractively drawn terrain. You can zoom in and out of the map and view a unit's line of sight with just a few clicks of the mouse.

As shells land, or flame-throwers are used, or vehicles destroyed, the landscape reflects a visible beating: buildings burst into flame, wrecks are scattered around and shell-holes gradually cover the map.

Steel Panthers allows you to pitch any two of the major combatant nations of WWII into battle, during any period from 1939 to 1945. It includes a

number of set battles and several campaigns which allow you to gain experience by following your unit's progress from battle to battle. You can even design your own scenarios

Of course, no game of this ambition is entirely perfect; a few minor bugs remain here and there. Some of the ways in which features like "opportunity fire" have been presented might have been designed differently and SSI is working on improved multi-player options which will be offered to all owners at a later date.

The unparalleled realism and attractive interface of *Steel Panthers* has set a new standard which will be hard for others to match. It's a classic.

System requirements

486/33 with 512Kb or better VRAM, 12Mb minimum disk space, 8Mb of RAM, double-speed CD-ROM.

Price £44.99

Contact Mindscape
01444 246333

Leisure Lines

Brainteasers courtesy of JJ Clessa.

Quickie

How can 25 be doubled by reversing its digits? (i.e. so that 52 = twice 25.)

This Month's Prize Puzzle

Many years ago, when computers were a rarity and the terms mega and giga hadn't even been imagined — even Kb meant a lot! — there was a great deal of effort spent on techniques for reducing program sizes and increasing program speeds. One such strategy was used for generating 2-digit random numbers (in a statistical sense). It consisted of:

1. Starting with a 4-digit "seed" and squaring this.
2. Choosing the central 4 digits from the 8-digit square (using leading zeroes if necessary).
3. Generating four "random" 2-digit numbers from these central 4 digits (ABCD) — i.e. AB, BC, CD, and DA
4. Repeating steps 1 to 3 using ABCD as the next seed, and so on.

The technique was statistically dubious, although it served its purpose since it was relatively fast and economical on memory. But all too frequently, the cycle was cut short by a recurrence of a previous seed. When this happened, the sequence was stopped, a new seed chosen and the whole process repeated. To illustrate, with an initial seed of 1018:

1018² = 01036324 gives a new seed of **0363** and the random numbers of **03, 36, 63, 30**

0363² = 00131769 gives a new seed of **1317** and random numbers **13, 21, 17, 71**

1317² = 01734489 then **7344² = 53934336**, **9343² = 87291649**, **2916² = 08503056**, **5030² = 25300900**, **3009² = 09054081**, **0540² = 00291600**

2916 — is a repeat of an earlier seed and therefore the cycle ends after eight iterations. At this point 27 different 2-digit numbers will have been generated. Get the idea?

For this month's prize problem, two answers are needed:

Firstly, I want you to find the longest possible cycle — i.e. with the most number of iterations before a seed repeats. Tell me the starting seed and the number of iterations.

Generation of all 100 2-digit numbers is not possible in a single cycle, however, there exists more than one cycle which will produce a maximum possible number of different 2-digit random numbers. For your second answer, I want to know the shortest such cycle.

I need the starting seed, the number of iterations, and the number of different 2-digit numbers it produces.

Answers on a postcard or the back of a sealed envelope — no letters and no floppy disks — to: PCW Prize Puzzle - March 1996, P.O. Box 99, Harrogate, N. Yorks HG2 0XJ, to arrive not later than 20th March 1996. Good Luck!



CUTTING EDGE

Win a colour printer Lexmark



Adding to its already superb range of colour printers, Lexmark has produced a new inkjet, the Colour Jetprinter 1020. It produces 300 x 600dpi in colour or black with print quality enhancement technology to smooth out the jagged edges on the spots of ink. To complete the deal it comes with CorelDraw 3 on CD.

We have five of these little beauties, reviewed in this month's *First Impressions*. To win one, just answer this question: What resolution does the Colour Jetprinter produce?
a) 300 x 600
b) 600 x 600
c) 600 x 400

Internet To Go

If you've ever fancied getting connected and blanching at the thought, your prayers have now been answered. Cybertronics Technology is giving us three Internet To Go kits, reviewed in *First Impressions* and including a 28.8 modem, a video, a book, a CD-ROM and the chance to access six service providers, all before taking out a regular subscription.

If you fancy one of these kits, just tell us what that well-

known Internet protocol, TCP/IP, stands for:
a) Transfer Computer Protocol /Internet Protocol
b) Transmission Control Protocol /Internet Protocol
c) Transmission Center Protocol /Interstate Protocol

TextBridge

Xerox Imaging Systems has given us five copies of its TextBridge Pro 3.0 OCR package. As it comes with quite a few of the document scanners we have reviewed in this issue (page 172), it is a package we can heartily recommend.



It is TWAIN compliant: you can scan direct into the package and verify the document as it goes along to train the package. It includes such nifty features as a fax enhancement mode to minimise mistakes with tricky faxes, supports 12 European languages and, most importantly, keeps the format-

ting of the original document.
To win a copy, answer the following question: How many European languages does TextBridge support?
a) 10 b) 11 c) 12

Rules of entry

This competition is open to all readers of *Personal Computer World* except for employees, and their families, of VNU Business Publications, Lexmark, Cybertronics Technology and Xerox Imaging Systems. Entries to arrive by 22nd March 1996. The Editor of *PCW* is the sole Judge of the competition and his decision is final. No cash alternative is available in lieu of prizes.

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To enter the competition, just complete and post this coupon.

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- Answers (circle a, b or c)
- Q1) Jetprinter resolution: a b c
- Q2) TCP/IP: a b c
- Q3) Textbridge: a b c

Send your completed coupon to: March Competition, Personal Computer World Editorial, VNU Business Publications, VNU House, 32-34 Broadwick Street, London W1A 2HG.



CLASSIFIED

How long is a



THEN

Brian looks at the goods just delivered, he knows the routine, log on to the computer Goods-In screen and check the delivered goods against the purchase order. OK, the suppliers name is on the packaging, the advice note shows order number and quantity shipped, just check the goods as received, simple.

Then HE runs in, "Brian rush job! Get these put on the computer and through to the warehouse so that sales can produce the documentation and complete the order. We're already two weeks overdue and penalties are threatened", and HE's gone.

HE's always doing it, just when Brian's getting on top of the backlog, HE demands short cuts. Priorities. Urgent orders. Always trying to shorten the time it takes to get stock in. Why can't HE realise how long....

NOW

Brian looks at the goods just delivered, he knows the routine, pick up the Systel F730 hand-held computer and read the bar code on the pre-delivery slip supplied by purchasing. The single handed operation of the F730 makes it easy to enter the quantity while unpacking the goods. Place the hand-held back in the cradle, it starts beeping and confirms the data is transferred to the computer, simple.

Then HE runs in, "Brian rush job! Get these put on the computer and through to the warehouse so that sales can produce the documentation and complete the order. We're already two weeks overdue and penalties are threatened", and HE's gone.

"Done", Brian turns, a satisfied grin spreads across his face as he remembers the days before the



For parallel reality

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Telephone 01734 770808 Fax 01734 892187

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Gordon Laing's masterplan for making a good impression and looking good in print: logos and letterheads, designing basic stationery with standard elements, setting up style sheets.



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When it comes to the crunch, there's nothing quite like a Crunch-It card. It's a must-have; but where from? Panicos Georghiades and Gabriel Jacobs do some sleuthing.



Sound 300

The lost chord? Not here. Steven Helstrip presents a seamless introduction to how chords are put together and how you can use them to best effect.

Hands On is the place where readers can contribute to *PCW*, and as always we'll pay for anything we use. Macros, sections of code and hints and tips will be rewarded with a £20 book or record token (please say which you'd prefer) and we'll pay hard cash for longer, more involved pieces. Please include relevant screenshots in .GIF format.

All submissions should be emailed to the author of the appropriate section, 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're 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:

editor@pcw.ccmil.compuserve.com

PROGRAMMING



Visual Programming 304

Move over, Mystic Meg! Tim Anderson is the one peering into the strange world of Crystal — Crystal Reports, that is. Without the funny clothes, though. (We hope.)



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Frank Leonhardt pulverises problems and quashes queries. Then it's straight in to his Bargain Basement for a rummage around.



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Printers is one area where you are spoilt, and probably totally confused, by choice. Eleanor Turton-Hill illustrates lasers and illuminates inkjets, so that the quality of your output need never let you down again.



Regarding Reggie

“Get to know the enemy” says Tim Nott, so taking a pace back he provides you with an overview of the Registry, looks at local machinery, and tells a cautionary tale which could help you to clean up in the redundancy stakes.

During the past few months, we've looked at various ways in which you can tweak Windows by editing the Registry. Last month, we looked at various ways of backing up the Registry files, so perhaps it's time we took a step back for an overview of this magnificent thing and what it does.

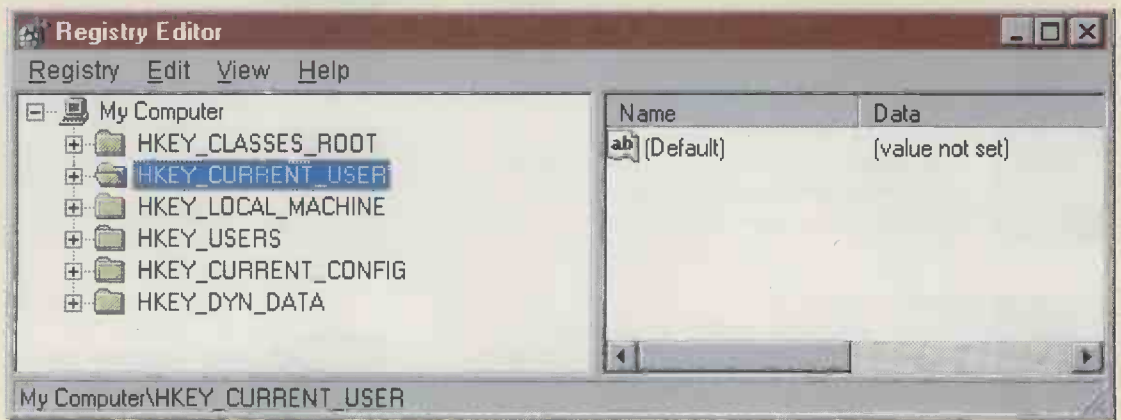
The Registry isn't a completely new development. Windows 3.1 has a Registry which is used to store details of "associations" of file types with programs, as well as information to support Object Linking and Embedding (OLE) and drag and drop operations. With Windows 95, though, its role has been much expanded. All the information that was previously contained in your PC's configuration files (CONFIG.SYS, AUTOEXEC.BAT and both Windows and third-party .INI files) can now be stored in a single database; the Registry. In theory, this means you don't need any of the former files, but in practice it's not quite that idyllic, because "old" 16-bit Windows applications, DOS applications, and some hardware will still need them.

For example, older CD-ROM drives unsupported by Windows 95 will need drivers loaded in CONFIG.SYS and AUTOEXEC.BAT, as will DOS games.

Windows 3.1 applications will still be wanting to list fonts via WIN.INI, or store settings in a private .INI file. Some of these things will be corrected by Windows: if an application installs TrueType fonts the old way, with .TTF and .FOT files in Windows\System and a listing in WIN.INI, then the actual font (.TTF) files will be moved to the Fonts folder; the information held in WIN.INI and the font description

greeted by your familiar desktop.

Unlike the .INI files, the data isn't in text format, and there's more of it as well — on my dual-boot system the .DAT files are over seven times as large as the combined mass of the Windows 3.1/DOS 6 configuration files and private .INIs. To view and edit the Registry, you need to use its own editor; Regedit.exe. This isn't added to any start menus in a normal



The six sections of the Registry

(.FOT) files will be moved to the Registry.

The Registry itself consists of two files: USER.DAT and SYSTEM.DAT. As you might expect, the former stores information (such as desktop settings), chosen by (or for) the user, while the latter holds the hardware-specific settings. The point of this physical separation is that user settings can be portable; you can log in from any PC on a network and be

installation, but it can be found in the main Windows folder, so you can either dig it out of there or, more simply, use the "Run..." command.

Branching out

Start Regedit and you'll find that unlike .INI files, which can only have two levels (sections and entries), the Registry branches into multiple levels. The arrangement is rather like Explorer; on the left is an expandable tree of keys and subkeys.

These are analogous to the INI file

Ten top tips

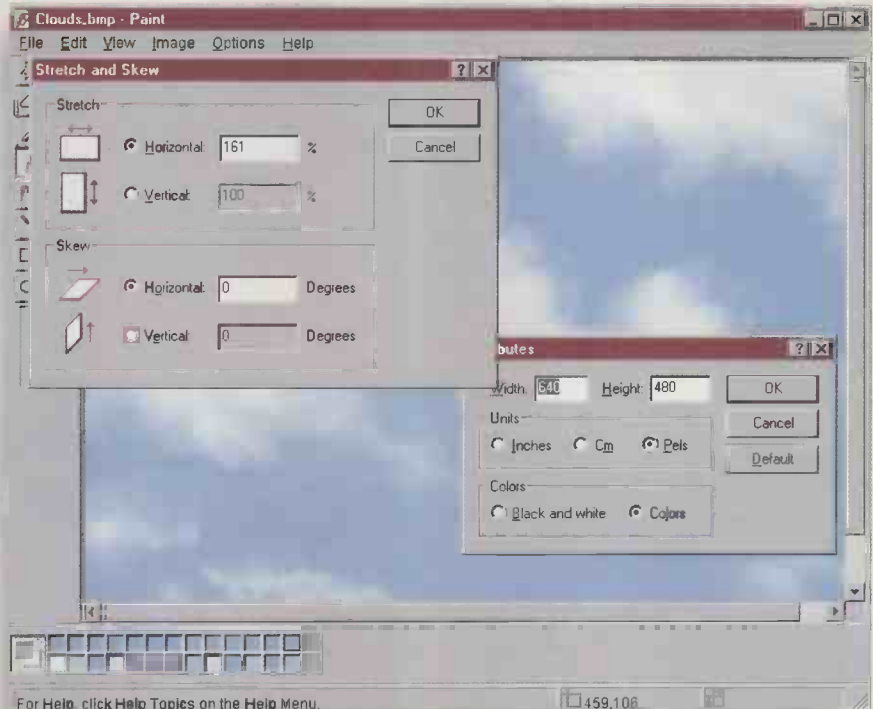
1 Disk space If you're tight on disk space, take a look in the Windows\Help folder where you'll find a number of .AVI (video clip) files.

Have a look, for instance, at SCROLL.AVI and decide whether you really need a 1.5Mb demonstration on using scroll bars. If not, you can delete all these files — you'll get an "unable to display graphic" in the Help file, but you'll regain possession of 7.5Mb of disk space.

2 A little more disk space While you're at it, you might also like to cast a jaundiced ear over the contents of the "Media" folder — there's another megabyte here and you may well decide you can do without a MIDI version of the Dance of the Sugar Plum Fairy.

3. Wallpaper The Plus! pack has a neat trick to stretch your wallpaper to fit the screen, but you can DIY with Paint.

Load the image, and then go to "Image/Attributes..." to find out the height and width — make sure the "Pels" option is checked. Divide the figures into your actual screen resolution and express the result as a percentage. Go to "Image/Stretch/Skew" and stretch by the appropriate amount — you'll need to make two journeys, as Paint apparently lets you stretch in only one direction at a



time. Save the file, and you'll notice that on the File menu there's an option to "Set as wallpaper" so you don't have to bother with Control Panel or Display Properties.

4. Restarting From the "Shut down

Windows" dialogue, select "Restart the computer" and hold down the shift key when you click "Yes".

This saves time by merely restarting Windows, rather than rebooting the PC from scratch.

5. No mouse? You can operate the cursor from the numeric keypad by going to "Control Panel/Accessibility Options".

Select the Mouse

Mouseless Windows (see tip number five)

You don't need the Plus Pack to stretch your wallpaper (see tip number three)

tab and activate the "MouseKeys" box.

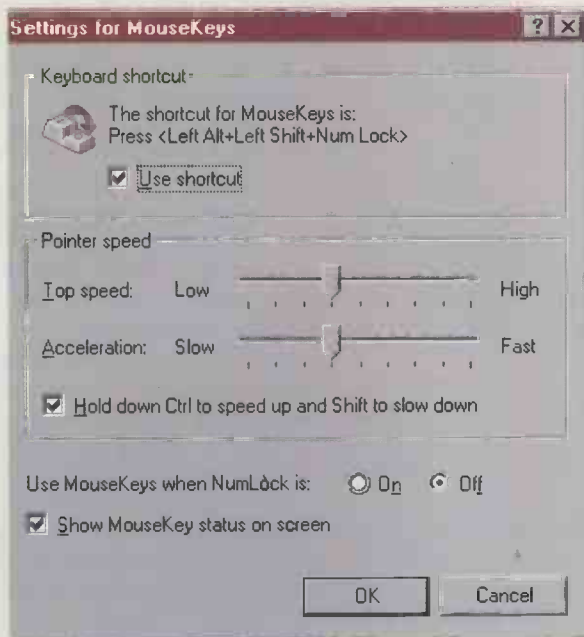
6. Run... The "Run..." command on the start menu maintains a list of recently-run commands. Click on the button to the right of the entry box to see a list of the last ten — scroll down for more.

7. Send to... You can send a file to an often-used folder by placing a shortcut in the "Windows\SendTo" folder.

8. More send to... Note that the usual keyboard modifiers work with the above tip. No modifier; copies to another drive or moves within the same drive. Control Copies rather than moves on the same drive — Shift SHIFTS (i.e. moves, rather than copies) between drives.

9. Formatting floppies If Windows refuses to format a floppy disk, it's probably because you have a folder open on that disk. Make sure there are no A:\... folders open, right click on the drive icon from "My Computer" and select "Format".

10. Taskbar Hold the pointer over a button and wait a little to see a pop-up giving the full text of a truncated description.

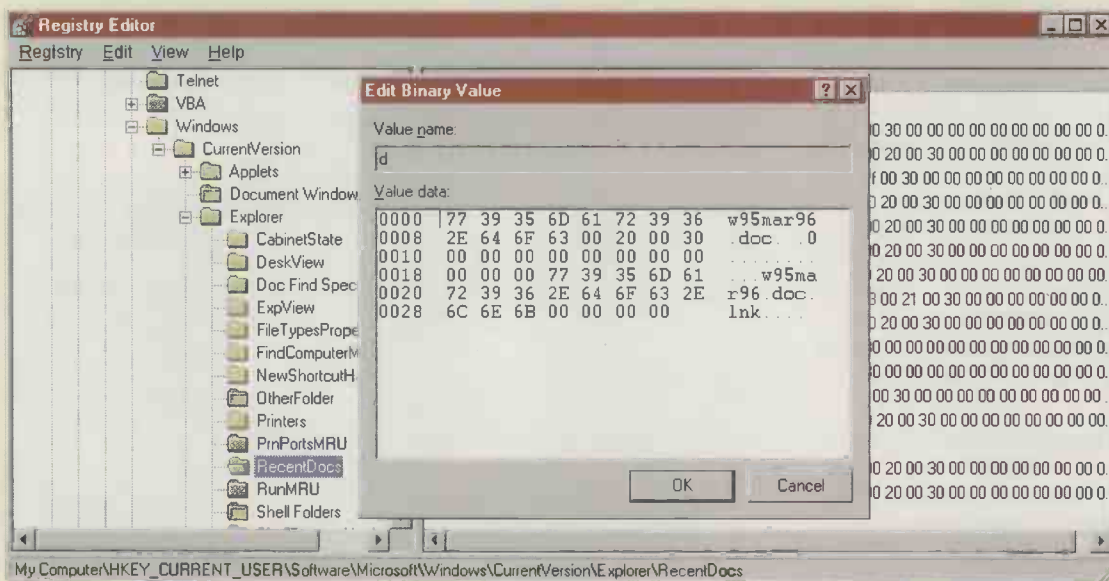


square-bracketed section headings. The right-hand pane contains the entries for the selected key; as with .INI files, each one consists of a name and a value.

Values can either be in plain text, as with .INI files, or in binary format expressed in hexadecimal notation. The two physical files are combined into a single database

which is then split into six logical sections, all with rather user-hostile names such as HKEY_CLASSES_ROOT.

This, the first section listed in Regedit



From the Registry — your recently used files

contains similar information to the Windows 3.1 Registry on file types and OLE information.

Browse through it, and you'll see a long list of extensions and file types. Click on the ".WAV" extension and you'll see, in the right-hand pane, that the default type is "SoundRec". Scroll down to "SoundRec" and expand its tree; you'll see an entry marked "Shell".

Expand this, and you'll find "Open", expand that and you'll find "Command". Click on the latter and you'll see, in the right-hand pane, the command for opening a .WAV file

```
'C:\WINDOWS\sndrec32.exe %1'
```

The next section, HKEY_CURRENT_USER, is a little more self-evident, and contains the current configuration of items such as sounds, colour schemes, keyboard settings, wallpaper and so on. But there is actually much more: dig down through "Software\Microsoft\Windows\CurrentVersion\Explorer\RecentDocs" for instance, and you'll find the list of recently-used documents that appear on the Start button "Documents" menu. Unless you're a fluent hex reader, this won't make a lot of sense, but double click on one and an editing box will appear showing the hex code of the shortcut, and a translation into text, so you can read the filename.

You'll find entries for third-party applications too; these are the equivalent of the private .INI files of Windows 3.1. The drawback of this is that while the old .INI files were fairly conspicuous by their presence in the Windows directory, these aren't. Unless they uninstall themselves in the prescribed manner, you may find that items you installed from a cover disk, for

example, and deleted after a day or so, leave lasting memorials that cumulatively bloat the Registry.

Some keys may be obvious: if you've removed all "Wizzo" products from your system you can safely delete the key of that name, just as you could the .INI file. What you can't do, though, is the old .INI file trick of moving it to a temporary directory before deleting it, to see if anything complains.

Although it's not laid out as such, HKEY_CURRENT_USER is actually a sub-section of HKEY_USERS. If you're on a single-user machine, then the former is a copy of the "Default" branch of the latter. With multiple user profiles enabled, each will have their own section (e.g. Bill, Ann, Mike) in the latter, with the logged-on user's settings appearing in the former.

The "Default" section will still be there for use by anyone who logs on but doesn't have their own "User Profile". For instance, any changes that Bill makes to his settings, such as personal Wallpaper, will be saved to his profile.

Local machinery

HKEY_LOCAL_MACHINE (the HKEY bit, by the way, denotes a "handle" that software developers can use to access a resource) contains, as you might expect, all the computer-specific rather than user-specific information. This includes things such as hard disks, printers, multimedia and display drivers, modem and port settings.

The sub-tree titles are somewhat

misleading: "Hardware", for example, contains only minimal information about communication ports; whereas disks, printers and display settings are spread between "Config" and "Enum". "System" includes multimedia, network, time zone and yet more printer settings. Just as you can have more than one user (each with their own settings), you can also have multiple hardware configurations.

For example, you may have a notebook PC with a VGA display that you can plug in to a docking station which has an SVGA display and printer attached. Each time you start Windows, you'll be prompted to choose the appropriate profile. The relevant settings will then appear under the HKEY_CURRENT_CONFIG section.

The implementation of Plug and Play means that Windows can detect "aware" devices without having to manually specify a configuration. Hence HKEY_DYN_DATA contains settings that don't relate to the Registry files themselves, but to current settings held in memory.

There's a very large "Software" section, too, which contains system-wide information; for example a list of installed fonts, or a record of the last time the hard disk was optimised. Third-party software can also have settings stored here; if there's a conflict between these, and those listed under HKEY_CURRENT_USER, the latter take precedence. You'll also find a subkey under "Software" entitled "Classes". Click on this and you should get a strong feeling of *déjà-vu*, as the information here is exactly the same as in HKEY_CLASSES_ROOT. According to the Microsoft Windows 95 Resource Kit "The Hkey_Local_Machine\Software\

A cautionary tale...

"Idiot of the Month" award goes to myself. As we all know, to get the coveted "Designed for Microsoft Windows 95" on the box, software must adhere to certain standards, one of which is to come with an uninstallation routine. So you should be able to remove an application easily — no stray .DLLs or other files left behind, no redundant information in the registry, and so on. This doesn't happen with Windows 3.1 applications, nor apparently, with several beta versions of Win95 software. Anyway, possessed by a sudden fit of tidiness I decided to clean out a few redundant file types.

I really, really, tried on this one. First I removed the file types from the "View/Options/File Type" dialogue. Great. They went. The next day some of them were back again. "Funny," I thought, "I could have sworn I'd removed those." So I did it again, and this time wrote down the filetypes I'd removed, restarted Windows and there they were.

This was obviously a Registry problem, so I started Regedit and removed all the relevant entries there. It's amazing just how well a determined application can entwine itself here: there are all those straightforward entries that are considerate enough to list the file type or application as a main key, but then there are all sorts of others, too, lurking in the shrubbery of the entries consisting of two squiggly brackets surrounding some

fearsome looking hex code. With judicious use of the "Search" tool, it took only an hour or so to purge it of every reference to the accursedly persistent software.

With a smug sense of a job well done, I closed down the PC and restarted. Opened a folder, View/Options/File Types/... AAAAAAARGH! Yes, my old friends were back. Either my PC was haunted, or there was a more rational explanation.

Suspicion number one was that I'd damaged the Registry files and Windows had restored them from the back-ups (see last month's column). A spot more detective work showed that this wasn't the case. The answer was so obvious — especially if you read about Dejan Stojnic's problem in this month's *Hands On Windows 3.1* (page 269) — that I couldn't spot it. By a happy coincidence, reader Tom Smith was having a similar problem and it was he, not I, who fingered the culprit.

Remember WIN.INI? Yes, as I mentioned at the beginning of this column, it's still lurking around for the benefit of older applications that can't install their associations into the Registry. And each time Windows starts, it politely trawls the WIN.INI to see if there's anything in the [Extensions] or [Embedding] sections that needs adding to the Registry. And this was what had been happening.

Moral: if you really want to get rid of something, check WIN.INI as well.

You must be joking

It's an old joke, but at times particularly appropriate to the Windows 95 online help which seems to list everything except what you want to know: a pilot is lost in low cloud, somewhere around Seattle, looking for the airport. A building looms before him, and he sees someone sitting at a desk by an open window.

"Where am I?" he yells.

"You're in a plane!" comes the reply.

He instantly sets course for a perfect landing. "How did you do that?" asks one of his amazed passengers.

"Easy," says the pilot. "The answer was completely accurate but completely irrelevant to my predicament. So I knew the building was Microsoft Technical Support."

Classes subkey defines types of documents and provides information about OLE and filename-extension associations that can be used by applications. Hkey_Classes_Root is an alias for this subkey. Hkey_Local_Machine\Software\Classes.

The sole purpose for Hkey_Classes_Root is to provide compatibility

with the Windows 3.x registration database." And that's pretty much where we came in.

PCW Contacts

Tim Nott can be contacted by post via PCW or by email at timn@cix.compulink.co.uk

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Stick with your Mates

If you want to get ahead, you'd better get a ClipMate. Tim Nott extols the virtues of a piece of Windows Shareware which turns the good old clipboard into the ultimate writer's (or artist's) tool.

Welcome back to the column in which we're still allowed to say "directory". Last month we took an in-depth look at the Windows clipboard, and the month before at Xboard, a neat five-barrelled enhancement on the standard product. This month, reader David Agbamu has pointed me in the direction of something even better. ClipMate 3.1 works alongside the Windows native clipboard. Every time you copy something to the Windows Clipboard, Clipmate takes a copy of the item for itself. ClipItems are then available either from a dropdown list, or from a grid of thumbnail views — click on one and it's loaded back into the Windows clipboard ready for pasting.

You have two lists of ClipItems with buttons to switch between them — the "recyclable" list maintains a fixed number of items (default 100) on a first-in first-out basis. The "safe" list keeps items until you delete them, so you could use it for "boilerplate" text, names and addresses, logos or anything you want to use regularly. A "load on demand" feature offloads anything over a kilobyte to disk, so large images or .OLE objects won't eat up all your memory.

Clipmate comes equipped with all sorts of options and extras such as the Glue button, which lets you append text to the previous clip, rather than keep it as a new item. You can magnify the thumbnails — and if the clip is text, edit it. Further touches of luxury include a Flow Text button. Have you ever pasted text from an ASCII file, an online source or an Off-Line Reader into a word processor and had to remove all the surplus line breaks? Even with a macro to automate the process, it's a pain in the neck, is it not? This button does it before you paste, and also removes

surplus spaces. The only fault I could find with it — apart from being slow on my system — was that it didn't recognise grabbed screenshots. It's on this month's cover disk and you can also find it online from

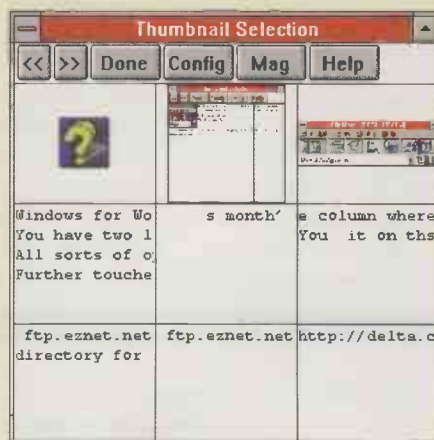
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Trick shots

On the subject of screenshots, George Mucho wrote from St Clement's Dane School, asking how the shots for this column were produced. Well, there's no big secret — pressing the Print Screen key captures the entire display to the Clipboard, and if you hold down the Alt key while doing this, just the active window or dialogue box is grabbed. You can then paste this into your favourite bitmap editor. I use PaintShop Pro, because I can have several images loaded at once, and I can save them in the .GIF format which compresses the data. This way it takes up less space on my disk — and those of the PCW production team — and also takes less time to transmit by modem. You can, however, use Windows Paintbrush if you're happy with the .BMP or .PCX for-

mat — the latter is also compressed, but not quite as efficiently as .GIF.

There is, however, a way to cheat. Sometimes I want to capture the application's main window with a dialogue box open; Alt + Print Screen will only capture one or the other, not both. The trick is to capture the main window first, and paste it into Paintbrush or PaintShop Pro as a "new image". Then activate the dialogue box and capture that. In PaintShop Pro, I then paste the second image as a "new selection" — ie, on top of the existing image — then drag the selection to position it artistically over the main shot. Clicking outside the selection anchors it. Paintbrush will paste the second image over the first by default, but you need to use the right mouse button to drag it into position, otherwise parts of the overlaid image will become transparent.



Above
ClipMate in
minimal view
or (below) as
thumbnails

Tips & Tricks: cracking walnuts

Shane Devenshire sent a whole sheaf of tips from Walnut Creek, California. Many of these were for Windows applications rather than Windows itself, but I think we can stretch a point in favour of the Microsoft Office toolbar. Double click on the title bar (or anywhere that isn't a button) and it will toggle between floating and docked at the edge of the screen. Another of Shane's tips — and another trick I'd never noticed — is that you don't have to target checkboxes or those tiny round "radio buttons" seen in dialogue boxes exactly. The "hot" zone — that is, the area that will respond to a mouse click — usually extends to include the text alongside. To complete the hat trick, Shane points out that if you're in a hurry, or have a slow PC, you often don't have to wait for a dialogue box or application to load completely before you start typing. Try double-clicking on Word or Excel then immediately start typing, and you'll see what he means.

A case of corruption

Dejan Stojnic came up with an interesting problem. Since Doublespacing his disk, none of his associations would work any more. Doubleclicking on a .TXT file in File Manager failed to produce Notepad, instead he'd get some limp excuse saying: "File Manager cannot open or print the specified file. Start the application used to create this file, and open or print it from there." He checked the entries under File/Associate... and all seemed to be as it should. He tried recreating the associations, but still no joy.

If this happens to you, the most likely culprit is a corrupt Registry — find REG.DAT in the main Windows directory, back it up somewhere safe, then delete the original. If you restart Windows, it will build a new REG.DAT from the entries in WIN.INI, and you should find that the associations will work again. You may have to redefine some associations, or even reinstall some applications, but often just running them again will restore the necessary information.

Regular readers of this column will be aware of the Windows Paintbrush bug in which Paintbrush is unable to accept anything bigger than its own window pasted in. Alan Salmon came up with a much neater solution than the one I'd suggested. Paste the bitmap as normal, without worrying about the image attributes or window size. Go immediately to the Edit menu, choose Copy to... and enter a file name at the prompt. The image will be saved — you can check by clicking on the Info... button. You can then discard the contents of Paintbrush and open the file you've just created — you should find you have the entire image intact.

Short and sweet

Jim Josefsson from Sweden remarks that I've never mentioned the Short Cut Key feature in Program Manager. In fact I have, but it was a long time ago — August 1993 to be precise — so maybe it's time

for a refresher.

You can assign a keystroke combination to a Program Item by selecting the item with a single click, then pressing Alt + Enter to summon the Program Item Properties box. You'll see a box labelled Shortcut Key, with the default contents as None. Click anywhere in this box, don't try to delete the contents, but just type a suitable key — W for Write, perhaps. Windows will preface your choice with "Ctrl + Alt +". Whenever you type Ctrl + Alt + W, Write will leap into action.

There is a snag — as Jim writes: "The shortcuts don't work all the time (perhaps you can explain why). It seems that Program Manager must be active in some way for the shortcuts to function. When I press a combination of keys and nothing happens, I just give the ProgMan Icon a light click to wake it up and everything works fine." Well, Jim answers his own question there — Program Manager must be the active Window, or have its minimised icon selected, for the shortcuts to work. If the application is already running, however, the same shortcut will bring it to the fore without having to "wake up" Program Manager first. So, deploying a little cunning, you could add an icon for Program Manager to Program Manager itself. This is perfectly legal, and has the interesting side-effect that whatever you type as the Description will replace Program Manager in its title bar. Give it a shortcut — say Ctrl + Alt + P — then wherever you are, Ctrl + Alt + P followed by Ctrl + Alt + W (you don't need to release the Ctrl and Alt keys between these) will launch Write. This won't work, of course, if the current application uses Ctrl + Alt + P for its own purposes.

PCW Contacts

Tim Nott can be contacted either by post c/o PCW or by email on timn@cix.compulink.co.uk

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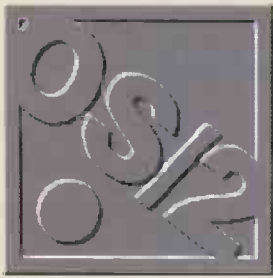
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JAOW dropping

If only IBM would stop beating up Windows for a minute, we might be able to appreciate the good things about Warp, says Terence Green.

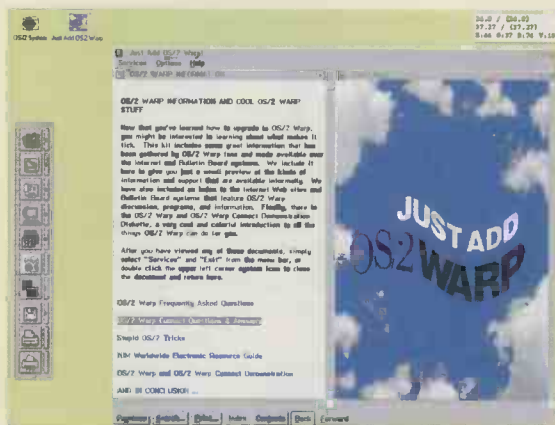
November 1995 was a strange month for Warp. IBM announced a product called Just Add Warp and started talking openly about a forthcoming product codenamed Merlin. Just Add Warp (for which the acronym is JAOW, not JAW), was obviously designed as a useful data set for comparing Warp and Windows. It contains some very useful information about Warp which is worth having to hand. Whether it's worth a 3Mb download is another question.

Unfortunately, IBM's Personal Software Products vice president, Dan Lautenbach, introduced JAOW by saying it could "rescue unhappy Windows customers", millions of whom "may have been duped into trying to use [Windows 95]". This is drivel, and insulting to users to boot. With faultless foot-in-mouth talents, Dan went a step further and complained that the plug-and-play features in Windows 95 don't work. This is true but kind of dumb of him to mention when there isn't any plug-and-play in IBM Warp to speak of either.

Well, I suppose the PCMCIA support in Warp sort of qualifies as plug-and-play, but the real reason no-one in the computer industry except Apple does real plug-and-play is because there haven't been any decent open standards for PC peripheral hardware since the introduction of the humungously lashed-up, er, IBM PC hardware standard in 1983. Over to you, Dan...

The magic of Merlin

What makes the Lautenbach line so depressing is that while he's trashing the opposition, other voices at IBM are starting to talk positively about the next version of Warp, which will ship next summer. Warp II (or whatever they call it) is a fourth generation product. Today's Warp is the result of several years of testing by highly critical users, many of whom have upgraded from Windows. IBM should stick



Just Add Warp to have (nearly) all your questions answered about OS/2 Warp, its compatibility with your hardware [see text] and how to upgrade to Warp

to telling us what Warp does (as JAOW does), and leave us to figure out whether it's better than Windows 95 or no. It doesn't take a genius to figure out whether Windows 95 meets one's needs or not. Many people will be satisfied with it. If not, all we need to know is that there's an alternative.

The next Warp version, codenamed Merlin, will add a bunch of stuff that really consolidates Warp's position as an alternative to any Windows platform, including Windows NT. Merlin, or Warp II as it may be called, includes symmetric multiprocessor support (SMP), a better fix for the single message queue problem mentioned in last month's column, built-in security, OpenDoc, and improvements to the user interface, among other developments.

As all Warp products have a common base, Merlin will be equally competent as a home user Internet access tool and a server base running any of IBM's upcoming applications servers. It's as though there was only one version of

Windows which ran on notebooks, desktops, home office PCs and departmental or enterprise servers with all the benefits that a single code base has for those who have to support and maintain these systems.

Just Add (OS/2) Warp

The most useful parts of JAOW are the Warp and Warp Connect FAQ (frequently asked questions) lists and the tips and tricks guides, especially the "Stupid OS/2 Tricks" section, which is anything but stupid. It's full of hard facts and useful tips. There's also a copy of the latest Hardware Compatibility list.

The above amounts to about half of JAOW's 3Mb. The Upgrade Advisor is a bit of a disappointment, as its detection features are no more than average and the demo is best skipped over.

JAOW runs on Windows or OS/2, but I initially had problems installing it under OS/2 Warp, as it bombed out with an unhelpful message which Dan Lautenbach forgot to warn me of. JAOW installed fine under Windows however.

At this point I called the IBM Helpline in Greenock. This has recently been set up to co-ordinate all European support and it runs a 24-hour support line. The 60 days free support for Warp can be continued for £45 per annum. I called at 1a.m. and was annoyed to have to wait for over two minutes. What kind of propellerhead, I wonder, calls technical support after midnight?

I didn't get the exact answer I wanted from the Helpline, but I did get enough of an answer to suggest my next course of action. In this case, I decided to upgrade using the Warp FixPack #10 referred to in last month's column. What a palaver. First I picked up some spurious messages when I ran the "Kicker" disks and then I checked on CompuServe, where I discovered a fresh set of Kicker disks had been posted. Is this a first? — a fix for install disks for a fixpack?

Anyway, the new set worked and the JAOW problem was solved, despite the fact that the Kicker disk README.1ST file contains some hopelessly outdated explanations of the difference between Corrective Service Disks and FixPacks. This really is the essential difference between Warp and Windows. At least with Windows, you feel that the people who package the product are on your side and you won't have to fight your way through

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Developer's delights

A developer writes, wanting to know whether one could access DB2 databases from Windows. You can — DB2 includes client enablers and there's an ODBC driver for Windows. He said he had searched the documentation and CompuServe for some time without success, so I set off on the Web and headed for the Solution Developer Home Page. There I found reference to the free DB2 Developer Assistance programme which can be applied to throughGO IBMDB2 on CompuServe.

To be fair, the new Solution Developer organisation, which was announced in January, is much improved with a single port of entry instead of the 25-plus separate developer programs it replaces. Those who work in Windows-centric worlds could also check out the new DB2 platform, Windows NT.

Another new development on the Web of interest to OS/2 and Windows developers is the OpenDoc Club page. This is a home page designed to encourage the take-up of OpenDoc, and open-standards alternative object-orientated development platform to Microsoft's proprietary OLE. Co-developed by Apple, Novell, and IBM, OpenDoc includes an OLE wrapper which allows OpenDoc and OLE objects to interoperate, but OpenDoc is available to run on the MacOS, Unix, Windows and OS/2 and is being developed for OS/400 and MVS too.

Apple has shipped the first OpenDoc shrink-wrap and OS/2 and Windows code is now in Beta. Developers can start working with OpenDoc by picking up one of the developer release Betas, details of which can be found at Club OpenDoc. Rather than list loads of URLs here, I would suggest you hit WWW.IBM.COM and take it from there to find Club OpenDoc, the Solution Developer Home Page, FixPacks, Just Add Warp, and the OS/2 Warp home page.

seven hells in order to see what all the fuss is about.

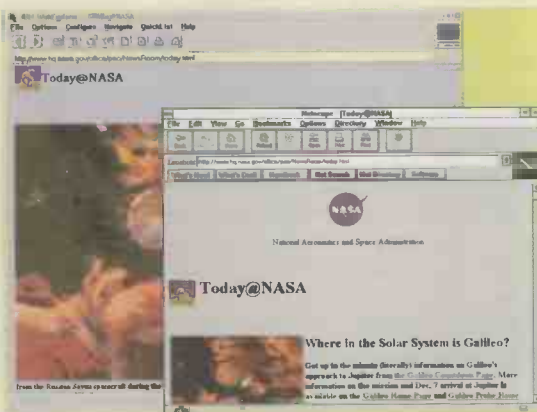
First aid with TCP/IP

Sometimes people have trouble getting Netscape (version 1.0 or 2.0 Beta) running under OS/2, and the problem is usually caused by a Winsock clash. Warp's TCP/IP includes all you need to run Winsock-compliant TCP/IP applications such as World Wide Web browsers and TCP/IP utilities in OS/2, DOS and Windows sessions, but Netscape finds a third-party Windows WINSOCK.DLL in the path and tries to use this instead of the correct Warp-provided WINSOCK.DLL, which resides in the \TCP\IP\DOS\BIN sub-directory by default.

This usually happens either because Warp was installed over an existing Windows installation, or when you install an Internet package which includes its own WINSOCK.DLL, which it invariably places in the \OS2\MDOS\WINOS2\SYSTEM subdirectory. Make sure you only have one WINSOCK.DLL, the Warp one, in the path and Netscape will run.

Essential ingredients

In order for the above to work you do need IBM TCP/IP loaded, either TCP/IP 2.0 which ships as the Internet Access Kit in the Warp Bonus Pak, or the TCP/IP 3.0



You don't have to use Web Explorer to trawl around the Web — Warp supports any Windows Web navigator right out of the box. Difference is you have to pay for Netscape but IBM Web Explorer is free with Warp and Warp Connect

provided with Warp Connect. You'll need to download a few fixes for TCP/IP 2.0 if you want to run the latest Web Explorer 1.03 as well.

PCW Contacts

Terence Green can be contacted either by post c/o PCW, or by email to tgreen@cix.compulink.co.uk Updates and fixes other than FixPacks are to be found on CompuServe (OS2SUPPO) <ftp://ftp.software.ibm.com> and <http://www.ibm.com>

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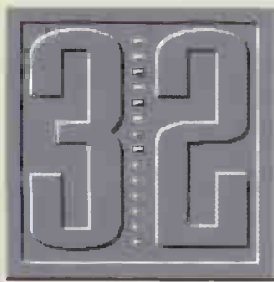
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The best things in life are free

In a capitalist society, is there a place for free software? asks **Chris Bidmead**. Plus, how Emacs can improve your vocabulary, and Linux joins X/Open

Some months ago, I told a story in this column about the day I confronted Bill Gates with the ideas of Richard Stallman, founder of the Free Software Foundation, author of Emacs, and one of my personal heroes. "Shouldn't all software really be free?" I challenged Gates. He thought for a moment and then came back with what struck me as a brilliant response: "You're right," he said. "And all hardware too."

People call Stallman RMS, in part because those are his initials, but also, I suspect, because "Root Mean Square" fits him to a tee. I know he'll object to my saying this (he seems to object to most things) but he's "Root" because he's the father of GNU (which, come to think of it, is most of what you're using when you're using Linux); he's "Mean" because he sits truly in the dead centre of all this, but also

because of the surliness of his pronouncements (see below); and he's "Square" because he's perfectly happy to sound off about "moral values" in a way that falls quaintly on the modern ear. Both despite and because of all this, he remains my hero. Here's what he said when I told him about my exchange with Bill Gates:

"Sorry to disappoint you, but this is a common response. It comes from a common misunderstanding. Free software is a matter of freedom, not price. It refers to the freedom to copy and change software. The actual price of the computer is pretty much a moot point. You are, in fact, free to modify your computer, but few people want to risk any sort of modification beyond swapping components. If you change the wiring, you might break it, and

it would be hard to fix. As for copying the computer, until someone invents a copying machine for computers, this is simply not feasible for people like you and me.

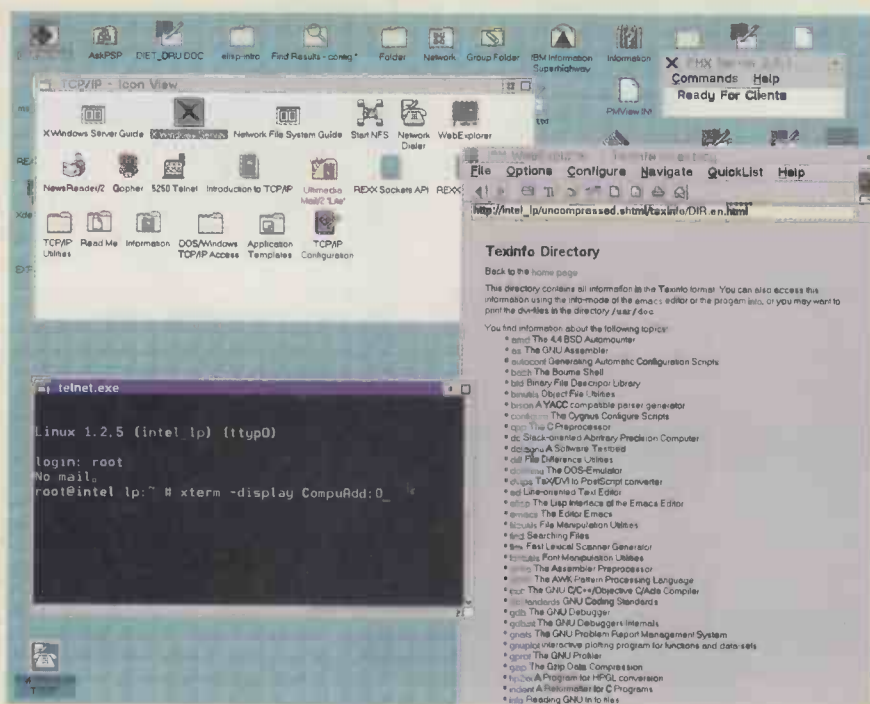
"When people think that free software is a matter of price, the idea seems silly to them; "Why not free hardware too?" is an obvious way to express their derision. But they just show they have not understood."

I'm chastened. The importance of "free software" is not that you don't have to pay for it, but that it's "freely adaptable" by the user (because it comes with source) and "freely distributable" (because the licence terms encourage it). Nevertheless, as a side effect, GNU has made software cheap to get hold of, and look what's happening to hardware. Maybe Gates' wish is coming true. When I mentioned in this column early last year that I knew where to get obsolete but workable full height 1Gb drives for £150, there was a tremendous flurry of interest from readers. A year on, this has become the street price of some of the latest low-profile gig drives.

Emacs just gets better

I've already explained some of the reasons why I feel Emacs is the ideal text processor. The reasons are multiplying every time I sit

On the road to that integration of operating systems I hanker after, my Warp Connect system has become a window into my Linux box. We've already talked about using OS/2's Web Explorer to view HTML files on the remote machine (bottom right). Telnet comes with Warp Connect: it's giving me a text terminal into Linux (bottom left). IBM's X Server for OS/2 (top right) adds another dimension. I'm using the telnet session to evoke xterm on the Linux box, but asking it to use my OS/2 CompuAdd machine to display it via the X Server



It's nice to be appreciated

David Sexton (D.R.SEXTON@tees.ac.uk) writes:

I have been a reader of your column in PCW for a couple of years (about as long as I've had Linux to play with). Now that I (eventually) have Internet access, can I express my appreciation for the only column which covers the "less popular" OSs.

I have a few suggestions/questions:

1. Now that OS/2 has its own column and NT hardly ever gets a mention, why not be honest and rename this the Linux column?
2. Could you persuade the CD editor to place a new distribution of Linux on the cover CD reasonably soon? A load of Linux users without (or with an unstable) Internet connection will be eternally grateful.
3. Caldera. Where do you get it from? Is it GNU or commercial, and if it's commercial, do they do (seriously huge) student discounts?

Thanks very much for the kind words about the column, David. It's nice to know people are reading this stuff and getting something out of it. I've thought about the predominance of Linux here, but I really do want to keep looking at 32-bit operating systems in general (and general 32-bit-ness). Linux happens to be an excellent and easily accessible example, and I know from the mail I get that a lot of readers are interested in it. But there are things about Windows NT (and about OS/2) that exemplify 32-bit goodness rather better, and I want to keep with them in a general way.

I've been getting a lot of mail asking for cover-mount Linux. Alas, I'm only a humble columnist — these production issues are decided by editorial luminaries. To whom, however, I will pass on the suggestion.

Caldera is proprietary — well, the Caldera proprietary stuff (which includes the NW client) sits on top of a free distribution of "RedHat Commercial Linux". By the way, the Linux usage of the word "commercial" in this sense simply means "industrial strength". At the time of writing, the Caldera Preview is still going cheap because it's still in Beta, but it's due to be released at around \$100. You can mail them on info@caldera.com for details on how to get a copy.

down to use it. Did I mention, for example, the Alt-/ command? I should perhaps call it the "dabbrev-expand" function, as Alt-/ is only the standard binding (the key that evokes the function) — none of these functions really care which key you attach them to.

Type Alt-/ in the middle of writing a longish and/or technical word like "dabbrev-expand" and the function will search backwards through the text (and forwards too if you happen to be editing in the middle) and offer an intelligent expansion of the word. If the expansion is wrong, you just hit Ctl-/ to undo it — a least that's what I've been doing until today. Experimenting with dabbrev-expand this morning, I discovered that repeatedly hitting Alt-/ cycles through the various possible expansions of the root you've used elsewhere in your text. It will even start looking into text in other buffers. So if I've written "par", and Alt-/ offers "party", which is not what I want, a second Alt-/ gives me "parading" and a third try suggests "particularly", which is what I was after. That's a 12-character word typed in six keystrokes, and believe me, it's handy once you get going.

I've also just discovered more depth to Alt-/ (sorry to bore Emacs aficionados, who will know all this already, but this is exciting news to me). Type a complete

word, follow it with a space and then hit Alt-/ once or several times, and what you get is a cycle of suggestions for the next word, based again on the sequences you've used elsewhere in the text. Say, for example, that wherever the word "crystallographic" occurs, it tends to be part of the phrase "crystallographic orientation". Once "cry Alt-/ has found "crystallographic", if you type space and hit Alt-/ again, dabbrev-expand will complete the phrase.

Emacs has some neat features you won't find in your costly word processor. It's also free software in the GNU sense of the word. But finally, look at the way these features are implemented, and look at their depth. There's a design philosophy at work here — for example, the recognition that expanding a string that ends in a space should be handled in the same way as a part-word string that doesn't.

Into the Open

As regular readers of this column will know, Lasermoon, together with its German partner, Thinking Objects, has created the excellent Linux-FT distribution. What you may not know is that the partnership has gone into the X/Open Consortium as an Independent Software Vendor (ISV) member. X/Open is a standards body that issues branding for Unix operating

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PARLEZ-VOUS FRANÇAIS? SPRECHEN SIE DEUTSCH?

systems when they meet certain closely specified design goals. Ian Nandrha, boss of Lasermoon, tells me he is seeking compliance. This is not just because it's nice and orthogonal to adhere to standards, but because it's the only way to guarantee to support a product (how do you fix something if there's no way to test if it's broken?).

It's a big decision for a small outfit. Just joining X/Open costs a minimum of \$22,500 per annum. This is optional: you don't need to be a member to carry out the branding exercises, but Ian wants a voice inside the Consortium. The cost of using the various X/Open brand names varies depending on the size of the ISV. Graham Bird, branding manager at X/Open, tells me that for a small company this could come to "as little as \$25,000". And if they want to call the resulting conforming operating system "UNIX"? (note the all-caps spelling — that's the official X/Open brand name, although magazine sub-editors can always be guaranteed to turn this into "Unix". I'm inclined to stick with "Unix" too, when I'm talking about the family of operating systems in general, although I know X/Open hates this). Well, calling your product UNIX once it actually conforms will cost you another annual fee again, which depends on how many units you ship. For Ian, this will probably work out at about another \$25,000.

Ian is potentially into the X/Open Consortium for the best part of \$75,000. But Graham says this pales into insignificance alongside engineering costs such as rebuilding Linux so that it actually meets the specifications and passes the various tests. "There are a lot of us in X/Open who regard it as a big step forward to get Lasermoon into the community," he says. "But I suspect it's going to give him a few problems among his own people, who will regard him as having gone over to the 'forces of darkness'".

Graham Bird is delightfully frank about the forces driving X/Open. "There are largely three groups," he says, "those who have got religion, those who are there to observe and see what impact if anything it has on their business, and those who are there to slow it all down." One might guess that his last classification refers to certain hyphenated and three-letter acronym companies whose main goal is to push their own brand of Unix, not to improve interoperability.

Ian Nandrha is going to have to pay for all this out of sales, and I'm guessing that he'll end up selling his own version of Linux for something like £200 a shot. A bit steep, you might think. Bear in mind that Linux is distributed with source, able to be

copied across a number of customers' workstations without licensing formalities, and with the same X/Open accreditation as operating systems such as AIX that command a four-figure price. For commercial customers it'll be a snip.

From inside X/Open, Graham sees this as "a really interesting debate. It will focus attention on what you're actually buying when you pay company XYZ a large amount of money for an operating system. Are you buying a warm comfortable feeling that they're there if it breaks, so it's OK to run your mission-critical systems on it? All those issues will start to come up. Do you want to supply the support internally, so it's valuable having access to the source? It's about the business model that people want to adopt."

Graham and Ian have been talking for about nine months. Initially Graham was

"What this industry needs is a bit of a shake-up. Unix needs to compete aggressively with other proprietary systems, it needs widely available applications, and at prices competitive to other systems"

sceptical: "I said, Linux? Nobody runs their business on Linux. But when I went and looked at the newsgroups, I saw that there really are companies — some of them quite surprising, like the BBC — who are prepared to do just that. Clearly what Lasermoon wants out of X/Open is the seal of approval, the goodness, that will put them on a level pegging with a \$65 billion company like IBM."

Once Ian gets this remarkable effort underway, I believe that businesses are going to start exploring the very real advantage of having the source code. Linux is already becoming a favourite operating system for Internet service providers. With the source code handy, they can do fixes and modifications in days that would take thousands of dollars and possibly months if they were running Unices from IBM or Hewlett-Packard. These companies are obviously not going to go away, but they are going to have to think hard about what exactly they are giving their customers for their money.

"What this industry needs is a bit of a shake-up," says Graham. "Unix needs to compete aggressively with other proprietary systems, it needs widely available applications, and at prices competitive to

other systems." The dread word Microsoft doesn't pass his lips, but clearly he is talking about Windows and Windows NT. "None of which is happening right now. To have Linux people demonstrating that they are serious about putting out a compliant product — and being prepared to stick with the discipline that inevitably needs — turns this into a serious platform."

Yes, but hang on a minute. Solaris, AIX, Digital Unix and HP/UX are serious platforms already. What's so special about Linux? What has impressed X/Open is the sheer volume. "Linux claims — and I've no reason to doubt it — to be shipping 40,000 units a month in North America alone," says Graham. "That makes everybody else's Unix shipments pale into insignificance."

I've avoided saying "Watch out, Linux is coming" in so many words, because the "serious Unix" people tend to laugh. But this view comes from inside X/Open, owner of the UNIX brand name. The volume is amazing, when you compare it with Sun, which probably ships something like 350,000 units a year worldwide. IBM and HP move around 100 to 200 thousand units apiece. The big volume Unix business has traditionally been associated with SCO, because of all the Intel boxes out there. But Linux is even outshipping SCO. "So these guys are coming in with half a million units a year," says Graham. "They could have a profound impact if they can be perceived in the market place as a serious, viable, dependable supplier."

That may not be quite how you'd characterise Lasermoon today. When Graham Bird met them he found "A typical development shop. They've got machines with no covers on, and yesterday's lunch is still sitting on the bench. A small organisation — two men, and the dog's part time." That was about six months ago. The company has grown since. "Ian says they're now 13 people, and the dog's full time," says Graham.

But even on that first visit, Graham was impressed by the company's "air of seriousness". He believes that Ian Nandrha carries credibility. "And he's got a lot of personal fans inside X/Open. There are a number of us here who are really rooting to get him on board and make it as easy as possible for him. To be frank, this could really wake things up."

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Like wot I wrote...

WP packages are becoming bloated with relatively useless gizmos of one kind or another. But features like AutoText and AutoCorrect can really improve your finished work, says Tim Phillips. Here is his guide to getting the best from the rest, and there are some top tips, too.

At the moment, I'm preoccupied with wondering whether anyone is going to enjoy the idea of abandoning a word processor for something a little more manageable. It's the scenario envisaged by Oracle and others as a response to Microsoft's runaway domination of the applications market.

This isn't an either/or decision for most users. If you work at home, then yes, you will probably need the belt and braces solution of Microsoft Office for personal productivity. If, however, you work in the office then the word processor will, I believe, become a presentation tool, with all its formatting and functionality used for that. For communicating using text, the modern word processor is vastly over-

specified, and the stream of queries I receive from users with quite basic problems must be a symptom that something is wrong.

Diagnosis: Featuritis

One problem is that this industry rarely solves anything without adding another feature, when the real problem is to do with using the existing features. Extremely useful additions like AutoCorrect and AutoText get buried half way down a middle menu: I use a word processor all the time and can't find them.

What a relief it would be for me to find an application that would enable me to use features only as I needed them — basic text, a word count, spellchecker, cut and

Just a little one

Just one problem to solve this month: John Li of Maidstone and Erica Carlton of the Wirral have both had trouble word-wrapping using WordPad.

The secret lies in the WordPad settings dialogue which I mentioned briefly when I reviewed the software, not too long ago. You set the options for each type of file using View, Options. The wrap can be to the ruler, to the windows or none at all, but it has to be set for each type of file individually. Don't ask me why; it just does.

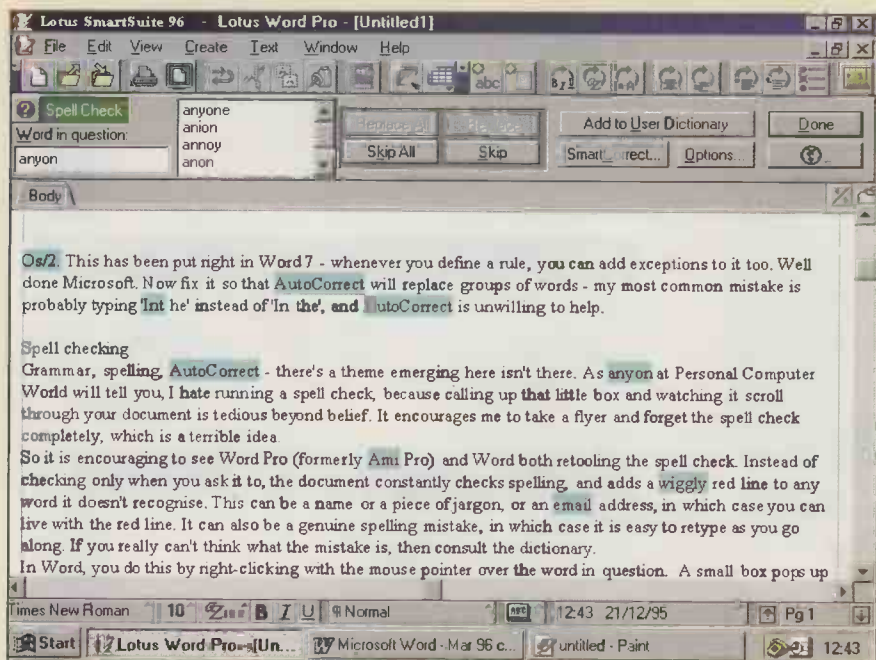
paste — and know that I can get more *when I need it*, instead of having to install 47Mb of Word Pro.

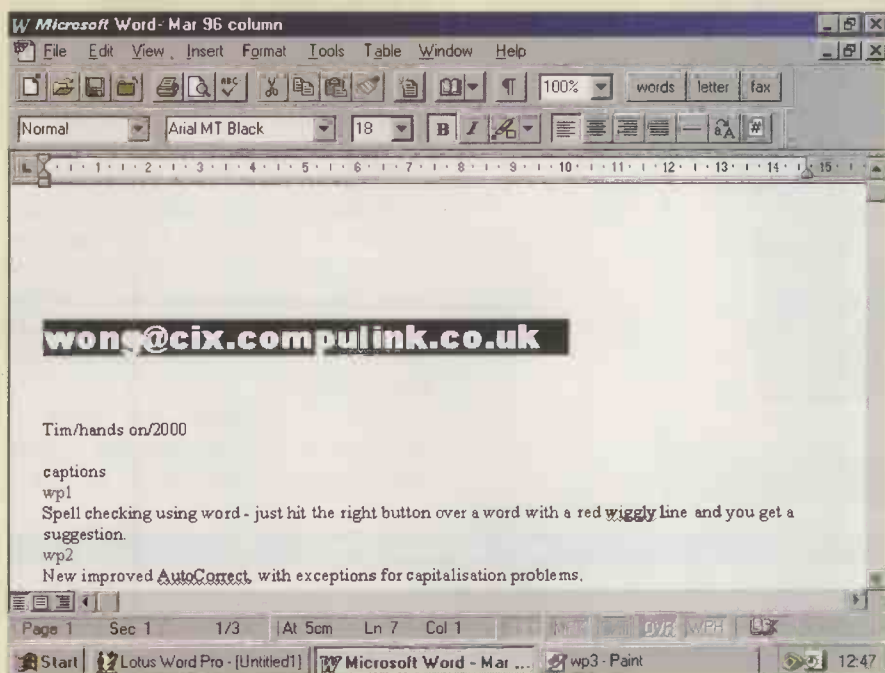
This is the model for both the "network computer" model, and the grand plan of bite-sized modular software conceived by the OpenDoc consortium. Unfortunately, OpenDoc is looking rather lame now that Novell has backed out of applications, and IBM and Apple have other problems to fix first. I hope the rest of my career writing about word processors isn't going to be a constant reminder of new features in increasingly bloated software, and for this reason as much as any other, I'm all for slim applications which aren't stored on a massive local hard disk.

Grammar, schlammer...

Grammar checkers are a classic symptom

Spellchecking in Word Pro avoids the nasty dialogue-box idea in favour of a more elegant solution





Above
AutoText is
easy, when
you know
how. First
highlight the
text...

Right
...then bring
up the
AutoText
dialogue box
and name it

AutoText

Name:

email

easy life
fax
letterhead

Make AutoText Entry Available To:

All Documents (Normal.dot)

Selection:

wong@cix.compulink

In the document, type the AutoText name and press F3.

Patching things up

This is not as bad as forgetting that Ctrl-Tab exists, as I did recently (you can stop mailing me to complain about that now), but a bug with my DEBUG routine to make a patch for EDIT was spotted by Walter Blanchard: "Somebody has probably already told you but the patch for EDIT you gave in the October issue doesn't quite work the way you gave it; at least, not on my machines. Simple-minded folk like me who don't use DEBUG that often might like to know a small correction.

"I found the correct sequence to be...

```
-r ds
DS 0A57 (in my case)
: (the problem is that if you type in the 2a57...etc at this colon it
  simply comes up with ERROR, so you have to press enter again)
-e 2a57:dd70"*.*",0
-w
WRITING 2F705 BYTES
-q
...and it works."
```

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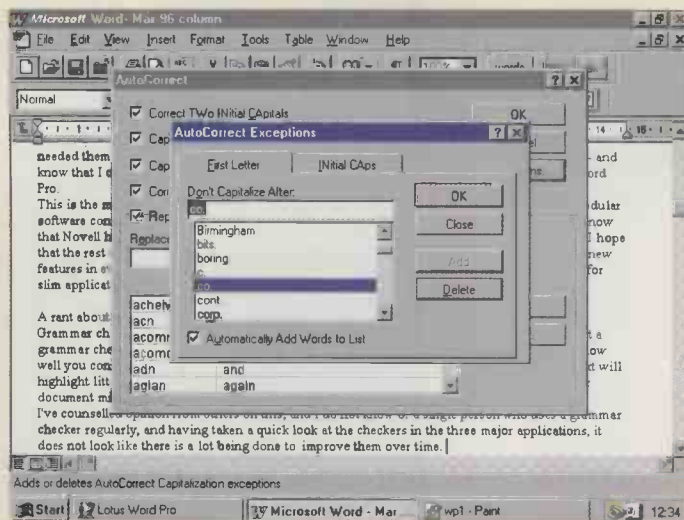
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New improved AutoCorrect, with exceptions for capitalisation problems

A note about AutoCorrect

It's roughly a year since I first raved about AutoCorrect and I can't tell you how many keystrokes it has saved me since. For those of you who are new to the concept, it's like the aforementioned AutoText but serves to correct common mistakes.

If, like me, you regularly type "yuo" instead of "you", you can have this automatically corrected by Word as you go along. WordPerfect users have a similar luxury. This makes you into a terrible typist but shortens the dreaded spellchecker enormously.

When I reviewed the Word 6 AutoCorrect, I complained that it was sometimes difficult not to have

of featuritis; who actually needs one of these 5Mb wastes of disk space, anyway?

No matter how well you configure a grammar checker, its limited pattern-recognition way of looking at your text will highlight little more of use than a few clichés and long sentences. A careful read through your document would be more effective.

I don't know of a single person who uses a grammar checker regularly. Having taken a quick look at the checkers in the three major applications, it doesn't look like there is a lot being done to improve them over time. If the trend were not towards selling monolithic applications, then we could sell grammar checkers as add-ons, tailored to fit closely to word processors. My advice: skip them, and save some precious disk space.

Word for Windows and AutoText

Everyone has lines, pages or even layouts that need constant re-doing, and the well-hidden AutoText feature in Word for Windows falls into the "extremely useful but under-used" category which solves this particular problem.

Getting started on AutoText couldn't be simpler. Just type some dull and repetitive text (if you're thinking "he means this column", I'll be round to knock you about a bit), highlight it and select AutoText from the bottom of the Edit menu. Up pops a dialogue box to show what you have selected and picks the beginning of the selection as a suggested name. You either accept this (it doesn't have to be one word, it can be a phrase) or pick your own name, then select Add for it to become an AutoText entry.

When you next need this text, simply type its AutoText name, hit F3, and up pops the text. It's very quick, too, which can't be said for all the features in Word for Windows, and has a variety of uses.

Tim's Macro Club

A thin entry this month, so I'm expecting better from you in the future — *don't forget, there are prizes on offer*. Thanks for the positive feedback, though; it seems a lot of you are using the macros we print.

As a treat, I'm publishing a three-part macro for automatic scrolling in Word. It's a simple solution, and I quite enjoyed it. I also like it because it comes from Belgium where I recently spent a pleasant weekend. If ever word processors get too frustrating, I recommend a stroll round Bruges to take the pressure off.

"The purpose of the following macros is to scroll the current document in the WinWord window automatically," says V Debroey, of Landen. "This allows you to read it 'hands-off', without having to hit the down arrow or click in the scrollbar."

The first macro turns on this "auto-scrolling":

```
---begin macro "Scroll"
Sub MAIN
  Print "AutoScroll On"
  if IsMacro() = 0 then LineDown 2
  OnTime Now() + 0.00002, "Scroll"
End Sub
---end macro "Scroll"
```

It moves the cursor down two lines, then uses the "OnTime" command to call itself after about two seconds, thus eventually moving down to the end of the file.

To adjust this macro to your reading speed, you can experiment with the numbers after LineDown and OnTime (the fraction in OnTime is a fraction of a day's length).

You need another macro to stop auto-scrolling:

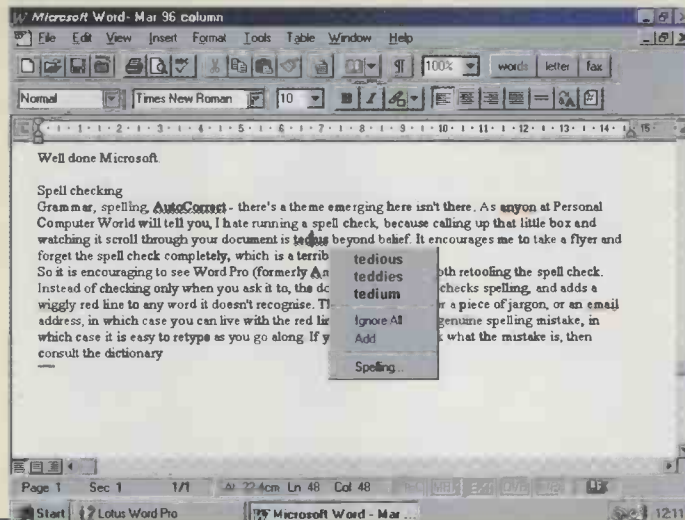
```
---begin macro "ScrollStop"
Sub MAIN
  Print "AutoScroll Off"
  OnTime Now(), "StopScrolling"
End Sub
---end macro "ScrollStop"
```

This macro calls a third macro, "StopScrolling", in its OnTime command. The StopScrolling macro doesn't do anything; it's just there as a target for OnTime:

```
---begin macro "StopScrolling"
Sub MAIN
  'nothing here, really
End Sub
---end macro "StopScrolling"
```

Assign the first two macros to a hot key; Load a (lengthy) document, and hit the hot key for "Scroll"; sit back and read. All normal Word commands are still available, but I don't recommend editing the file while the cursor is moving all the time: hit the hot key for "ScrollStop" to halt the process. Unfortunately this doesn't work in Word 2 — other versions, anyone?

Spellchecking using Word — just hit the right button over a word with a red wiggly line and you get a suggestion



contradictory rules. While I often make the mistake of typing two capital letters at the beginning of a sentence and would like to AutoCorrect this, I don't want to have it constantly correcting "OS/2" to "Os/2". This has been put right in Word 7; so whenever you define a rule, you can add exceptions to it as well. Well done, Microsoft. Now fix it so that AutoCorrect will replace groups of words — my most common mistake is typing "Int he" instead of "In the", and AutoCorrect is unwilling to help.

Spellchecking

As the sub-editors at PCW will tell you, I hate running a spellcheck, because calling up that little box and watching it scroll through your document is tedious beyond belief. It encourages me to take a flyer and forget the spellchecker completely, which is a terrible idea.

So it is encouraging to see Word Pro (formerly Ami Pro) and Word both retooling the spellchecker. Instead of checking only when you ask it to, the document constantly checks spelling, adding a wiggly red line to any word it doesn't recognise. This can be a name, a piece of jargon or an email address, in which case you can live with the red line. It can also be a genuine spelling mistake, in which case it is easy to retype as you go along.

If you really can't think what the mistake is, then consult the dictionary. In Word, you do this by right clicking with the mouse pointer over the word in question. A small box pops up with the best alternatives and

Six tips for AutoText

- Pick a name that's easy to remember and don't bother with unusual capitalisation. For example, "address" is easier to get right than "TimHomeAddress for letter". When you type "address" in a document, it won't select the AutoText replacement unless you hit F3 immediately afterwards.
- Use it for formatted text too; I have a letterhead which I have as an AutoText entry.
- Attach useful AutoText entries to the toolbar. You do this by selecting Customise, Toolbars and scrolling down to the bottom of the list. There you find AutoText, and the dialogue pops up with your list of entries, any one of which you can drag to the toolbar.
- Fields can be nested in AutoText. So for generating letters, include today's date below your home address as one AutoText entry — it will not fill in the address, but add the date as well.
- I'm not a great fan of developing hundreds of templates for personal use, so I have a fax cover AutoText too.
- AutoText can be added retrospectively. If you develop an outline, use AutoText names for standard text items. When the outline is finished, highlight the item, hit F3 and develop it quickly.

an option to go to the full spellchecker window if they don't work — very quick and simple.

Similarly, Lotus blocks all the words it doesn't recognise in blue text, but waits for you to call up the spellchecker. Many people find this less intrusive but I prefer the Microsoft way. Lotus doesn't use the right mouse button but it is still a quick and neat spellchecker and a big improvement on the orthodox method. I'd recommend either package on this basis.

PCW Contacts

And that's that for this month. Surface or airmail to PCW, otherwise I'm on email at wong@cix.compulink.co.uk and CompuServe 100436,3616

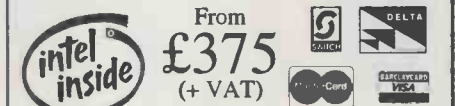
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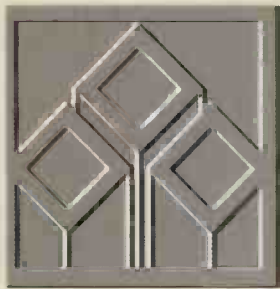
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Playing it off-key

Stephen Wells waxes lyrical about entering and stacking data without an arpeggio of keystrokes, by composing your own macros.

We start this month with a query from Dr H Baillie-Johnson of the Norfolk & Norwich Hospital, who emailed me to request "...an easy way to enter data into calculation cells in the top few rows of a spreadsheet, and then, without playing an arpeggio of keystrokes, have the row stored in the bottom of the sheet, stacking upwards."

He continues: "I'd like to enter a row of cells, see the results, and then dump the contents onto the top of the stack, leaving the top of the sheet clear for the next row of data entry. I use either Excel 5 or Lotus 1-2-3 Version 3.1."

Having at an early age passed the Grade II, Pianoforte exams of the Royal College of Music myself, the arpeggio metaphor tickled me. In the same way that you can record a tune as you play it, with Excel or 1-2-3 you can record your actions and from then on just play them back as often as you wish. Similarly, you can write down your composition. The song sheet in this case is a macro. Or you can get the spreadsheet to write it — which is what I did in this instance.

As Dr Johnson sent no more than the above, I've constructed an example on the lines of his description — *but please take note that medically-speaking it is, of course, nonsense* (see Fig 1).

The entry line is Row 1. The only calculation is that the dates in Column F are 90 days after those in Column A. This is simply to check that a transferred formula works. The "stack" is currently in rows seven to 13. As requested, the new row will shift down to the top of the stack (row seven) and the other archived data lines will move down.

I happened to use Excel 7, but Excel 5

works in a similar way. You choose Tools, Record New Macro, and give the new macro a name and shortcut key. I chose "Move_Row" and Ctrl+m.

You can assign your new macro name to appear on the Tools menu. Another option lets you store the macro under "This Workbook." That means a tab with the "Move_Row" name appears automatically at the foot of your screen whenever you load your workbook. Then you press the keystrokes you want the macro to emulate. I pressed the keys in Fig 2.

It's easy to see what's happening: the cursor zips back to square one, goes from there down to row seven and slips in an extra row; then it jumps back to cell A1.

The macro then highlights the contents of that row, cuts it and pastes it down on row seven. Then the cursor goes back to the start, so you're ready to enter a new row.

If you click the Move_Row tab, you'll see a listing in Visual Basic as shown in Fig 3. Obviously, rather than make the keystrokes initially as I did, you can compose your macro in that language if you want to.

This solution is for the problem as posed. But if you don't need the entry line, you could have the macro open automatically with a dialogue box, then add the entered data to the stack.

Preaching to the unconverted

An email from Denzyl Pereira tells me he has to convert a lot of *.wks files to *.xls files and he's been loading them and re-saving them, one at a time.

He says: "This is tedious to say the least — is there a macro that can do the lot in one go? I know Word has one that converts a whole heap of .SAM files to .DOC files but Microsoft has been unable to help me on this."

I have Word 7 which includes the equivalent macro CONVERT7.DOT. It does indeed offer a wide choice of word processor file extensions for conversion.

Interjecting a little complaint; I find that in Office 95, Word 7 has all kinds of well-designed, upmarket extras which Excel 7 doesn't have. Ease of changing the dictionaries and formats from US English and styles to UK English and protocols is just one of many details lacking in Excel.

You get the impression from the Windows 95 literature that you only have to set the preferred date format in Control Panel, Regional Settings (say, d/M/yy instead of MM/dd/yy) once, and then everything will conform. Hell, I can't even get the various modules of Office to conform to that. One day I also hope to make Microsoft's own Exchange, and Schedule Plus, both offer the same address book. I have to keep one for each although the flagship module,

Fig 1 Medical matters

Example of a spreadsheet for a hospital which uses a macro to move a newly-entered row

	A	B	C	D	E	F
1	5/2/96	3	Macragell	injection	25mg	5/5/96
2						
3						
4						
5						
6						
7	3/2/96	2	Pisabenelean	tablet	75mg	3/5/96
8	1/2/96	1	Atinloly	capsule	50mg	19/4/96
9	30/1/96	3	Chleartheledone	tablet	12.5mg	29/4/96
10	28/1/96	2	Tonaritec	cream	50mg	27/4/96
11	26/1/96	5	Macragell	injection	12.5mg	25/4/96
12	24/1/96	6	Bogopholine	tablet	100mg	23/4/96
13	22/1/96	3	Apelcordial	capsule	12.5mg	21/4/96
14						

Fig 2

The keystrokes recorded to make a macro which moves a row

```
Ctrl+Home
Down Arrow x 6
Alt+I,R
Ctrl+Home
Shift+Ctrl+Right Arrow
Alt+E,C
Down Arrow x 6
Alt+E,P
Ctrl+Home
```

Fig 3

The macro automatically recorded from Fig 2

```
' Move_Row Macro
'
' Keyboard Shortcut: Ctrl+m
'
Sub Move_Row()
    Range("A7").Select
    Selection.EntireRow.Insert
    Range("A1:F1").Select
    Selection.Cut
    Range("A7").Select
    ActiveSheet.Paste
    Range("A1").Select
End Sub
```

Word 7, naturally offers addresses from both books! But I digress...

If you want to study that macro, Denzyl, and you have Word 7 go to File, Open, c:\msoffice\winword\macros\convert7.dot.

Then choose Tools, Macro, BatchConversion, Edit. With a good knowledge of Visual Basic and the patience of Job you could probably convert it to do what you want.

Colour me blue

In the December issue, I wrote about translating SuperCalc files to be read in Excel and maintained that you couldn't easily carry forward formulas. This prompted several emails, including one from Tony Beckett with a jolly good tip in it.

He says: "You can save the SuperCalc file and instead of using the default .CAL suffix, impose your own suffix of .WKS." He adds: "This has never caused me any problems apart from the cosmetic one that when such a file appears in Excel, the text is coloured blue."

I tried this with SuperCalc 5.1 and Excel 4 and he's right on both counts. The Export command offers only the optional extensions XDIF, DIF, CSV and dBase. But if you Save in the regular way but edit the filename.cal to filename.wks, SuperCalc immediately switches to Export by

itself and saves a Lotus file. Excel will import that file with most formulas intact and the figures are indeed, initially, blue.

The main formulas which don't translate easily are in the date group. But I've solved this in the past by opening a dummy column (or row) with the date entries plus 60. Then I copy that column (or row) back over the original.

It's SuperCalc... but not as we know it, Tim

Another email on the subject, from Tim Wood, who adds the phrase "Accountancy, but not as we know it", says he prefers the DIF method (which I'd described) because "SuperCalc's WKS files load into Excel with zero column width" — not something I had encountered myself. He continues: "We use both programs in our busy accountancy office.

"We have found printing the biggest problem. SuperCalc 'remembers' the last print area used whereas Excel uses the current, highlighted area. And Excel named ranges cannot, apparently, be used for printing via Print Manager which requires a view to be named for this purpose and then entered as well on page setup. This is so long winded!

"We have resolved printing problems by naming each (or multiple) ranges to be printed. For example:

"Print_Profit"

Running this little macro to directly display the named ranges in print preview:

```
Print_Selection
=PRINT(1,,,1,,TRUE,,,,,1)
=RETURN()
```

The macro is saved in a hidden personal workbook and run via a custom toolbar button."

Tim's company must be slow to invest in current hardware, because he continues: "For serious number-crunching, SuperCalc is vastly superior in terms of both speed and simplicity, and is still used most of the time (by choice) until a high-quality report is required."

The other kind word he has for Microsoft's spreadsheet is: "Excel's strong point is the multiple pages of a workbook which, ultimately, one cannot do without."

But then we part company when he closes with: "Lastly, with the amazingly low cost of quality, double-entry accounting software I would say that only a professional masochist would keep primary accounting records in a spreadsheet nowadays!"

This might be true if you are an accountant setting up the books for a client, but I can think of numerous situations where locked-in software just doesn't give the

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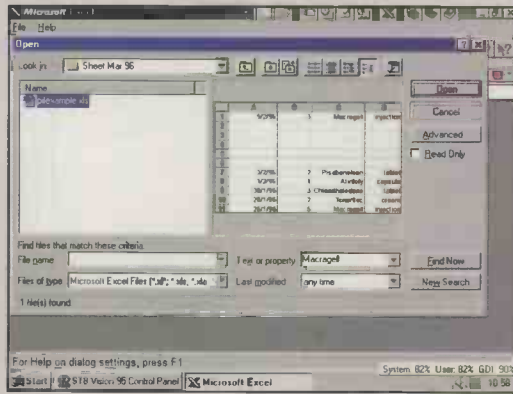
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Finding your document

The most frequently-used dialogue box in any Office application is File Open. So every module of Microsoft Office Version 7.0 uses the same new, improved, version of it called FastFind. There are not only options to search by file name, type or date but additionally you can enter just one word or other property and find the file which contains it. Here, I've used the fictional drug Macragell in Excel 7 and FastFind has zeroed in on the correct worksheet to open.



The File Open box looks exactly the same in Word 7 and you can find Excel files in Word and Word files in Excel.

If the search finds a number of applicable files, you can differentiate between them using a choice of buttons: List (by name and icon), Details (size, type and date), Properties, and Command and Settings.

You can even preview a segment of the file, as shown here, assuming that you've checked Save Preview Picture in the actual file under File, Properties.

results you want, in the time you've got to spare. I have reviewed dozens of accounting packages over the years and I've never yet found anything as quick and easy to use as my own current Excel 7 multi-paged workbook.

I can immediately show results by account, day, month, quarter or year, and my financial statements and tax records are always current. Accounts packages, which are basically crippled databases designed to be used by anybody, are like frozen dinners — superficially attractive but unsatisfying, although they can be a boon to large companies and those small business people with little knowledge of accounting and spreadsheets.

Driving him scatty

I have been entering into some correspondence with Chris John, of Richmond, on the subject of charting. He originally emailed me his problems in trying to get Access to make a graph from his Paradox data: he wanted his x axis to be a time series, although his time intervals were irregular. I suggested he didn't really want a time series but could send me a disk with his data, in a form I could import to Excel.

He later sent a printout of his table and the dates were, on average, 95 days apart. But they ran from 0 days (i.e. two entries on the same day) to one gap of 184 days. He also enclosed a hardcopy of a successful result in Excel using a scatter chart joined by a line. I've recreated a simplified form of this in Fig 4. You'll see that Excel gives you an x axis with dates

spaced 200 days apart in this example, plots the correct numbers on the correct original dates and then joins up the points.

Eric is semi-happy; he's pleased to have found a solution, but teed-off that he can't get Access to give him the same result. Ah well; it's "horses for courses".

Science lesson

Bijan Mohandes emailed me to ask how to customise Excel's scientific format.

The scientific format is used for particularly large and small numbers. All it does is to show the number multiplied, or divided, by powers of ten. For example, the number 0.000678 which could also be written as 6.78 / 10⁴ (6.78 divided by 10,000) is shown in scientific format as 6.78E-04.

The first part, to the left of the E, is called the "mantissa". The part to the right of the E is called the "exponent". If the exponent is negative, as in this case, it means that the value is divided by ten to the given power. If the exponent is positive, as in 6.78E+04, that translates to 6.78

* 10⁴ or 67,800.00.

If the actual value is negative, as in -6.78*(10⁴), then the minus sign appears to the left of the mantissa so: -6.78E+04.

These examples are all shown in Excel's standard Scientific format to two decimals, which is the same as the Custom format set up like this: 0.00E+00.

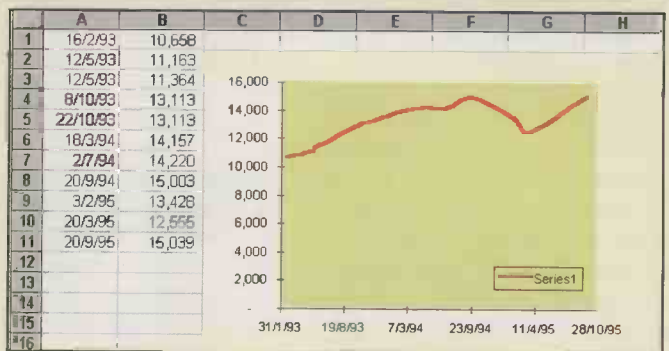
The Scientific format can also be selected with different decimal numbers. The number 0.0678, in Scientific format to three decimals, is displayed as 6.780E-02. This is the same as the Custom format set up like this: 0.000E+00. If you set up the Custom format with an extra zero in the exponent like this, 0.000E+000, then 6.780E-002 is displayed.

If you choose to prepare your own Custom format, the digits can be represented as 0 or # or ?. An 0 (zero) means the digit will always be displayed, even when it's a zero. The # sign suppresses zeros at the beginning or the end of the number. The ? sign after the decimal point displays a space if it is zero, and at the end of the number to make the decimal points line up in a column. It is also good for fractions that have varying numbers of digits.

Bijan specifically wants his exponents in multiples of three as he uses the numbering system kilo=E3, milli=E-3, mega=E6, micro=E-6. Don't we all? At the moment, when he enters -00000009, Excel is responding with -9.00E-07 and he wants this value to display as 900E-9. Choose Format, Cells, and you'll see that the default is Scientific, two decimal places. Just change it to Custom 000.E+0

Incidentally, before I get buried in beefs from bearded boffins, let me clarify that Excel only promises a number precision of 15 digits.

Fig 4 Scattering wisdom



A line scatter chart with an x-axis of regular time intervals produced from the irregular dates in column A

PCW Contacts

Stephen Wells welcomes comments on spreadsheets and solutions to be shared. Send them to PCW Editorial at the usual address or Stephen_Wells@msn.com

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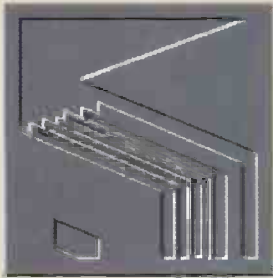


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meter matching machines

Mark Whitehorn examines a problem thrown up by a meter reading database, and sings the praises of indexing — this month looking at how it can speed up data retrieval.

Last month I started to write about ways of speeding up your database. This month I will digress slightly to cover a problem which has arisen since then. A colleague of mine, Stephen Elwell-Sutton, was building a database in Access to store meter readings from various electricity meters. These can be stored in a table like that in Fig 1:

Fig 1 Meter readings

Meter No	Date	Reading
1	18/5/91	20
1	11/11/91	91
1	12/4/92	175
1	21/5/92	214
1	1/7/92	230
1	21/11/92	270
1	12/12/92	290
1	1/4/93	324
2	18/5/91	619
2	17/9/91	712
2	15/3/92	814
2	21/5/92	913
2	17/9/92	1023
3	19/5/91	20612
3	11/11/91	21112
3	15/3/92	21143
3	21/5/92	21223
3	17/9/92	21456
3	21/3/93	22343

using [Meter No] and [Date] as the primary key. The people using the database wanted, quite reasonably, to see the data in the sort of format shown in Fig 2, from which other information, such as the days between readings, and the usage per day, can be calculated.

Each record in this table is made up of data taken from two records in the original table, and the relationship between the

Fig 2 Another format

Meter No	Date	Current Reading	Previous Reading	Units used	Date of Previous Reading
1	11/11/91	91	20	71	18/5/91
1	12/4/92	175	91	84	11/11/91
1	21/5/92	214	175	39	12/4/92
1	1/7/92	230	214	16	21/5/92
1	21/11/92	270	230	40	1/7/92
1	12/12/92	290	270	20	21/11/92
1	1/4/93	324	290	34	12/12/92
2	17/9/91	712	619	93	18/5/91
2	15/3/92	814	712	102	17/9/91
2	21/5/92	913	814	99	15/3/92
2	17/9/92	1023	913	110	21/5/92
3	11/11/91	21112	20612	500	19/5/91
3	15/3/92	21143	21112	31	11/11/91
3	21/5/92	21223	21143	80	15/3/92
3	17/9/92	21456	21223	233	21/5/92
3	21/3/93	22343	21456	887	17/9/92

two records concerned in each case is as follows. Consider the last record in the original table to be the "current" record. In order to generate a record in the second table we scan backwards, looking for the first record which has the same meter number and a date which is lower in value than the current record.

Given that the data is sorted as shown in the first table, this will be the record above the current one. This matching process fails if we consider the record for meter three taken on the 11/11/91, since the record above it is for meter two.

So, on the face of it, the algorithm for solving the problem was trivial:

- Start at the bottom of the table.
- Repeat
- For each record look at the one above. If it contains an identical meter number, use the two records to generate a record in the answer table.
- Move up one record, until at the top of the table.

In fact, you can work from the top to the bottom in a similar manner if you prefer. Fine. Except that the solution is inelegant, if not to say offensive.

Why? Well, one of the major principles of the relational model is that the position of a record in a table is of no significance whatsoever. We are supposed to be able (and indeed willing) to locate the value in a field solely by reference to its table name, field name and primary key value. Just because a value in a field happens to be in "the record above the current one" doesn't mean we automatically know it's the one to use. SQL, for example, doesn't allow you to reference the records above or below the current one; indeed SQL has no concept of the "current" record. Instead it performs operations on sets of records rather than on individual ones.

Typically, the programming language supplied with most RDBMSs will allow sequential record processing, and either Stephen or I could have solved the

Fig 3 Solving the problem with SQL

```

1.
DELETE *
FROM Readings2

2.
INSERT INTO READINGS2 ( [Meter No], [Date], Reading )
SELECT [Meter No], [Date], [Reading]
FROM READINGS
ORDER BY READINGS.[Meter No], READINGS.[Date]

3.
SELECT DISTINCTROW [Meter No], Date, Reading, [Count]+1 AS [Incremented
Count]
FROM READINGS2

4.
SELECT DISTINCTROW READINGS2.[Meter No], READINGS2.Date,
READINGS2.Reading AS [Current Reading], [3 Renumber records in a
dynaset].Reading AS [Previous Reading], [Current Reading]-[Previous
Reading] AS [Units used], [3 Renumber records in a dynaset].Date AS [Date
of Previous Reading], [READINGS2].[Date]-[3 Renumber records in a
dynaset].[Date] AS [Days since last reading], [Units Used]/[Days since
last reading] AS [Daily Usage]
FROM [3 Renumber records in a dynaset] INNER JOIN READINGS2 ON ([3
Renumber records in a dynaset].[Incremented Count] = READINGS2.Count) AND
([3 Renumber records in a dynaset].[Meter No] = READINGS2.[Meter No])

```

problem with Access Basic, but instead we looked for an entirely SQL-based solution. And in case you think this problem has wandered into the realms of academic theory, remember that set operations have the potential to be *much* faster than sequential processing, so we were looking not only for a more elegant solution, but a faster one.

The solution we came up with is as follows:

The data was stored in a table called READINGS. We created a table with an identical structure to READINGS, except that it had an additional field called [Count] which was of type Counter. This table was called READINGS2.

(As an aside, it is a characteristic of Access that if you add data to a table

which has a counter field, Access will automatically increment the counter field, sequentially numbering the records. If the table has been used before, the numbers won't start at 1, but they will still be sequential.)

Then we wrote a series of SQL statements which did the following:

1. Cleaned out any existing data from READINGS2 .
2. Copied the data from READINGS to READINGS2, keeping the order identical to that dictated by the primary key.
3. Created a Dynaset in which the values in the counter field were incremented by one.
4. Joined READINGS and the Dynaset by Meter No and the Counter to produce an answer table which then contained the desired results.

The important parts, and hopefully the rationale, should become clear if you study the sample data.

The SQL was as shown in Fig 3.

Date	Current Reading	Previous Reading	Units used	Date of Previous Reading	Daily Usage
11/11/91	91	20	71	18/05/91	0.40
12/04/92	175	91	84	11/11/91	0.55
21/05/92	214	175	39	12/04/92	1.00
01/07/92	230	214	16	21/05/92	0.35
21/11/92	270	230	40	01/07/92	0.28
12/12/92	290	270	20	21/11/92	0.35
01/04/93	324	290	34	12/12/92	0.31

A master/sub form which presents the "meter" data in a more acceptable manner

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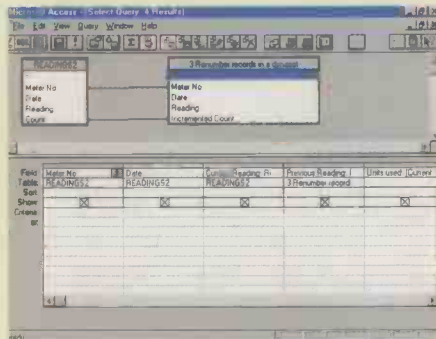
The table names are overlong, I agree, but this means they make more sense in the data which is on the cover disk as METER2.MDB.

So, we completed the task we set ourselves, and solved the problem with SQL. Hopefully this is faster than sequential processing would be. Nevertheless we are unhappy with the result, because we cheated. Somewhere in there is a nasty, cheap little trick which offends the relational database model.

Three questions arise.

1. Can you find the cheat?
2. Can you do better?
3. Are we missing something vital?

It seems to us that this problem is representative of a broader class of



The GUI version of the final SQL statement

problem: "What is the best way of handling records in a relational database that have to reference each other?"

Clearly there are other solutions, such as storing both the current and previous reading in each record, but they all seem to conflict with the relational model as well. Surely someone, somewhere has worked out a solution to this in the past? Anyone out there know what we are missing?

PCW Contacts

Mark Whitehorn welcomes readers' correspondence and ideas for the Databases column. He's on m.whitehorn@dundee.ac.uk

Tips & Tricks

From Shane Devenshire: Selecting an entire form or report without using the menus in Access

When you are in the Form or Report design mode of Access, you often want to select the entire form or report. To do this you can click the white box in the top left corner of the form or report. Alternatively, if you can see any space to the right hand edge of the form or report all you need do is click it. Whatever you click to the right of — the Detail section, Page Header — they all work. If you can't see that area you can click in the area below the Report Footer; this will also select the entire form.

In Access II you can also click or double click anywhere on the ruler that has no objects directly below. Double clicking on the horizontal ruler will bring up the form's Property dialogue box.

From Damian Luby

I am looking after a database which belongs to the estate I live in. I would like to have the primary index (and sorting) put the address in proper sequence.

I have the address in the following format:

- 1 Glenbourne Road
- 2 Glenbourne Road
- 11 Glenbourne Road
- 12 Glenbourne Road

After sorting, the no 11 house is put before the no 2, naturally enough. Can you think of an easy work-around for this problem? I am using Microsoft Access 2.0.

Try splitting the address into two fields:

- AddressWords
- AddressNo

and declare the field called AddressWords to be of data-type Text and AddressNo to be of type Number.

Access allows you to combine the two fields to form a single primary key, so that you can make AddressWords AND AddressNo the joint Primary key. The fields will then sort properly.

The query which lists addresses in a tidy, sensible fashion

To which Damian replied:

Thanks, but how can I combine the house no. & address field to be sorted when using queries in Access 2.0, so the addresses come out in order?

Build a new query and in the first column write:

Address: Str\$([AddressNo]) + " " + [AddressWords]

The function Str\$ turns the numeric value in AddressNo into text and the rest of the expression simply adds that text value to a space character and then to the text in AddressWords. This causes values like:

7 Acacia Gdns.

to appear in the first column of the answer table. However, sorting

Addresses

- 1 Acacia Gdns.
- 7 Acacia Gdns.
- 12 Acacia Gdns.
- 13 Acacia Gdns.
- 17 Acacia Gdns.
- 24 Acacia Gdns.
- 241 Acacia Gdns.
- 2 Belmont Road
- 6 Belmont Road
- 7 Belmont Road
- 12 Belmont Road
- 56 Belmont Road
- 214 Belmont Road

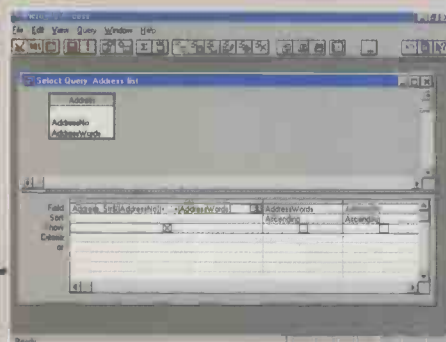
on this column will be unsatisfactory because Access will treat the numeric values as text, which means we are back to the original problem. Clearly what we want is the addresses sorted first by street name, then by number, as in the addresses table. In order to achieve this, add the two fields AddressWords and AddressNo to the answer table (in that order) and set each in turn to be sorted in ascending order.

Since AddressWords is the first sorted field in the answer table, reading from left to right, the data will be sorted first by the values in that field. The data in the AddressNo field will be used to sort data with identical values in the AddressWords

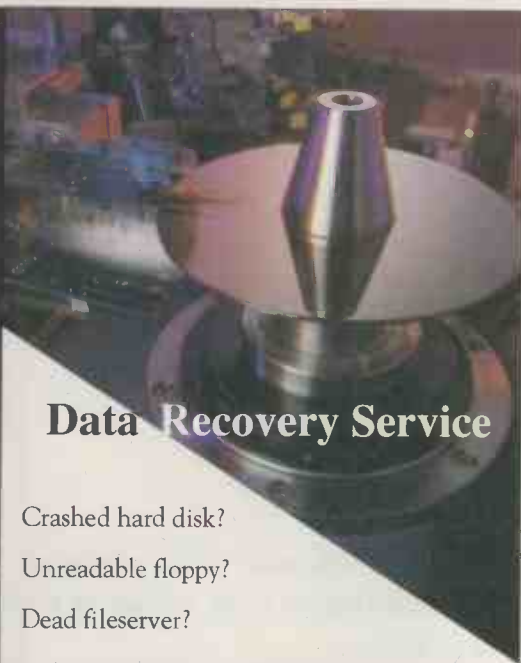
field. However, since AddressNo contains numeric values, the sort will proceed correctly.

Finally you can render AddressWords and AddressNo invisible in the answer table by deselecting the "Show" option. Even deselected in this way, they will still be used to sort the data. For non-Access users, the SQL for this query is:

```
SELECT DISTINCTROW Str$( [AddressNo] ) +
    " " + [AddressWords] AS Address
FROM Address
ORDER BY AddressWords, AddressNo;
```



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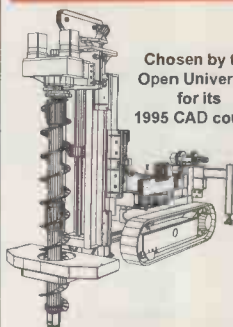
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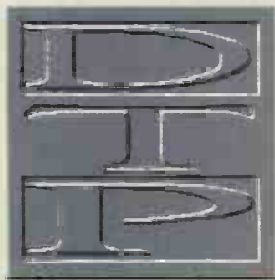
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...It's how you say it

If your business involves publishing anything, you'll know that style is everything. Gordon Laing looks at ways DTP packages can make it easier and more efficient to project the image you want.

It's time for some long overdue DTP tips. I'm going to look at style and consistency in documents this month, using the facilities DTP has to offer.

Look at any regular publication, whether it's a newspaper, magazine, catalogue or even fax cover sheet, and, if it does what it's supposed to do, the person/product/company's image will be as clear as day. Their design and style is like a calling card, identifying them immediately and marking them out from the crowd.

It's not just a front page logo or a corporate typeface, but the smaller details which are consistently reproduced on every publication. Things like the style and positions of page numbers (also known as folios), headlines or sub-headings, smaller logos, even the traditional usage of illustrations and photography, are often strictly defined in the publication's official design. Not only do these guidelines make the product consistent and easily identifiable, but with the right set-up can significantly ease the lay-

out process. So how can doing it on your computer help?

The first thing to do before launching into any project of this kind is to work out how and where you're going to output it. Once you know that, you can work out what resolution to work in, whether full or specific colours are relevant, and most importantly, what physical size the document will be. Remember to make sure your document will fit any other physical requirements: a card will have to fit in an envelope, a record sleeve accommodate a 7in or 12in disc, an inlay snuggle into a cassette or CD case. Paranoia can creep in when you wonder whether your post-distributed publication will actually fit through the desired letterboxes.

Putting on the style

Once you've worked out the size, resolution, type of printing and media to use, you're ready to set a style. The simplest use of style is the letterhead, a logo which

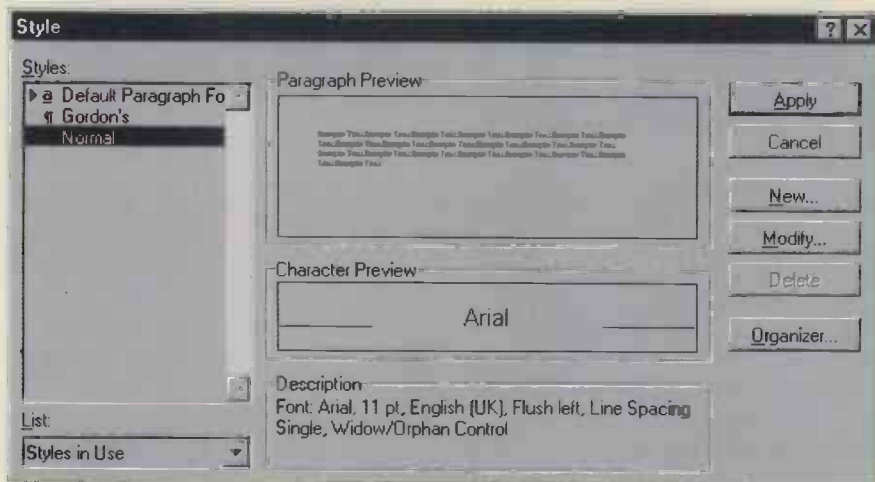
identifies you when consistently reproduced on your letters, fax cover sheets, business cards and compliment slips. Most sit the logo at the top and pop the contact details at the bottom.

Once designed, you could save it as a document and insert your desired text or graphics each time you use it, and therefore print to order. The advantage here is that you can see on-screen what the entire page looks like, and ensure nothing obscures anything else. The disadvantage is that the same printer will be used for everything, which may not suit your desire for, say, a vibrant red logo.

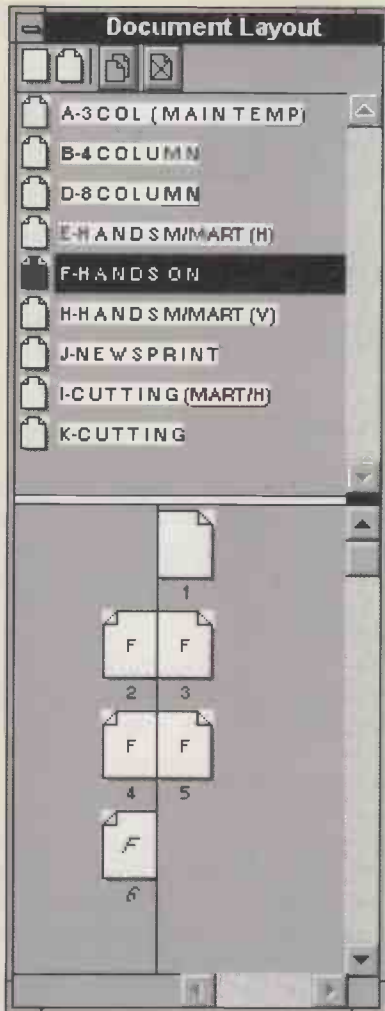
The common touch

The more common implementation is to have your basic stationery with the standard elements, logo and contacts printed in large quantities. This can be re-fed into your printer each time you want to add a message. The advantage of this route is that you can use two different printers — for instance a good colour one for the letterhead, then a mono laser for the text. There's also the opportunity to have a professional printer knock out a large quantity of good-looking coloured stationery ready for your high-quality lasered text, relieving you of the need for a colour printer.

The big disadvantage is that it's extremely easy to print over your precious logo, thus ruining the whole effect. To prevent this, you need to set up your applications to print *only* on the free area. Defining margins in a word processor is one step



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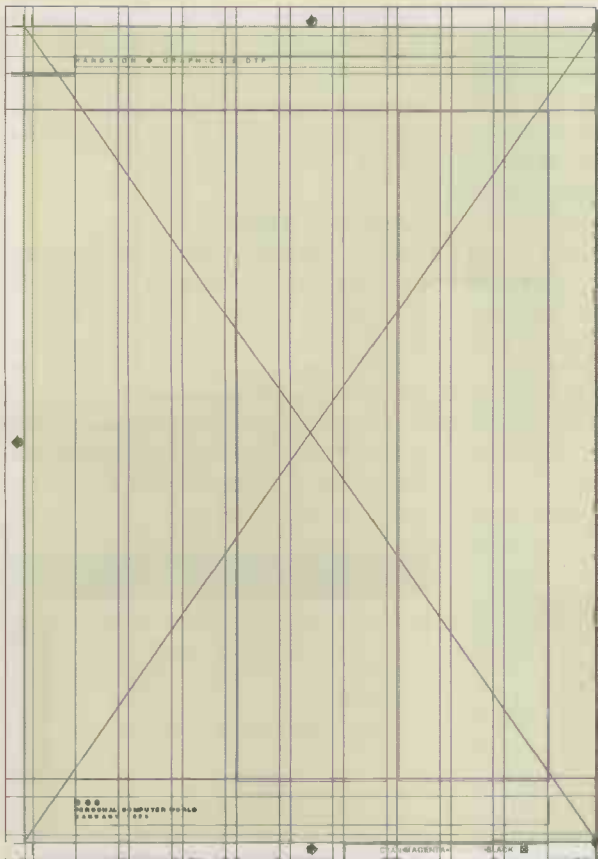
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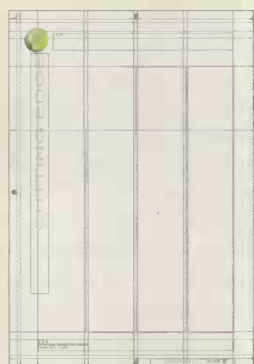
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 Above middle PCW's very own Quark XPress library, full of handy logos and the like
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 Left our master page for the Hands On section, and (below) our master page for the Cutting Edge section



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Font of the Month

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away from designing master pages in desktop publishing, which I'll do next. A final piece of advice on making stationery: make sure you can feed it through your printer. Check out any surface finish and weight, in case you end up invalidating your guarantee with the printer.

A master page is simply a template which contains regularly used elements. The letterhead on the top of company stationery is the most basic form of master page. Master pages really come into their own in a situation where each page always contains several consistent elements, such as chapter and author details in a book. Page numbers are also classic master page elements, always printed in the same place and type style. Some applications can number the pages automatically, although in magazine production, where pages tend to get swapped around at the eleventh hour, page numbering is normally entered by hand.

Regular features

Unless you are designing a very rigid page, it is not really practical to place spaces for photographs or illustrations on a master page, since they would always appear in the same place. Normally the master page would include "guides", which mark out the designer's grid, indicating where such elements should be sized and located in order to stay in style. *PCW's* Hands On master pages, for example, always include certain elements each month, such as the Hands On "strap" (the sub-heading in the top corners) and the pale yellow background.

When creating or adding new pages, you should be able to choose a master template as your starting point to speed up the process and add consistency. Many higher-end DTP applications allow you to define several master pages to choose from for each project. Publications which are physically bound together would normally have at least two, catering for left and right pages.

A quick word of warning: most templates look exactly like a normal page with some elements already placed. Make sure you work on pages created by the masters, rather than making the mistake of adding elements to the master itself. Remember, anything you place on the master pages will be reproduced on every new page that master creates.

Referring to the text

The next thing you need to decide is the text style or font you want to use. If you always set your letters in 12-point Times, it may not seem justifiable to define style sheets. *PCW's* main body copy throughout the magazine is Arial, set in 8.25 point on 11-point leading. In Hands On it's justified, whereas in the rest of the magazine it is ranged left.

We lay out *PCW* in Quark XPress, which allows you to fill text boxes directly from Word, which could include any kind of formatting — and that's just the main body copy. Captions, headlines, standfirsts and the rest all have different formatting styles, which to key in by hand would be both tedious and potentially inaccurate.

Our Art Editor defined our house styles in Quark XPress, saved them and made them available to all from XPress's Style Sheets palette. Simply select the block of text you wish to put in style and click on the desired style sheet. In a single step, any number of different formatting options are set without chance of error.

Style sheets exist in many applications. Almost every word processor allows styles to be set, along with templates. Microsoft Word's normal.dot template contains information about the paper size and margins, along with the default style used to format text. At work I have redefined my normal style in Word to 11-point Arial on A4 paper, which optimises the display and ensures our workgroup printer doesn't start demanding letter-sized food.

So now you've got your style sheets,

templates and master pages doing most of your work for you, what else can be done to free up valuable artistic time? The answer for now is to use libraries of frequently used elements. These can be certain logos or pictures which, although used often, do not turn up regularly enough to justify putting them on the master pages.

Look in the library

Enter the libraries, which in most guises consist of some kind of pasteboard area into which popular elements can be dragged after creation, then dragged back out again to order. In Quark XPress the library is opened from the file menu but appears on-screen as a palette. Simply drag any subsequently required elements in, and drag out as many copies as you'd like.

A library is a great place to store all those logos — ours contains, among other things, all the *PCW* award logos — but it can be used almost as a graphical style sheet. We have a house style for screen-shots — a certain size, with a specific runaround and background. Rather than type this in every time, a Quark XPress picture box with typical attributes has been dragged into our library, and even if resizing is required, is a handy starting point.

Computers are great at tedious, repetitive processes like those mentioned above. So next time you're working with DTP, drawing, or even just word processing applications, leave the monotonous tasks to your PC and get on with the far more interesting and human job of design. By setting up libraries, styles and templates you'll save time and improve your overall look with consistency.

Font of the Month

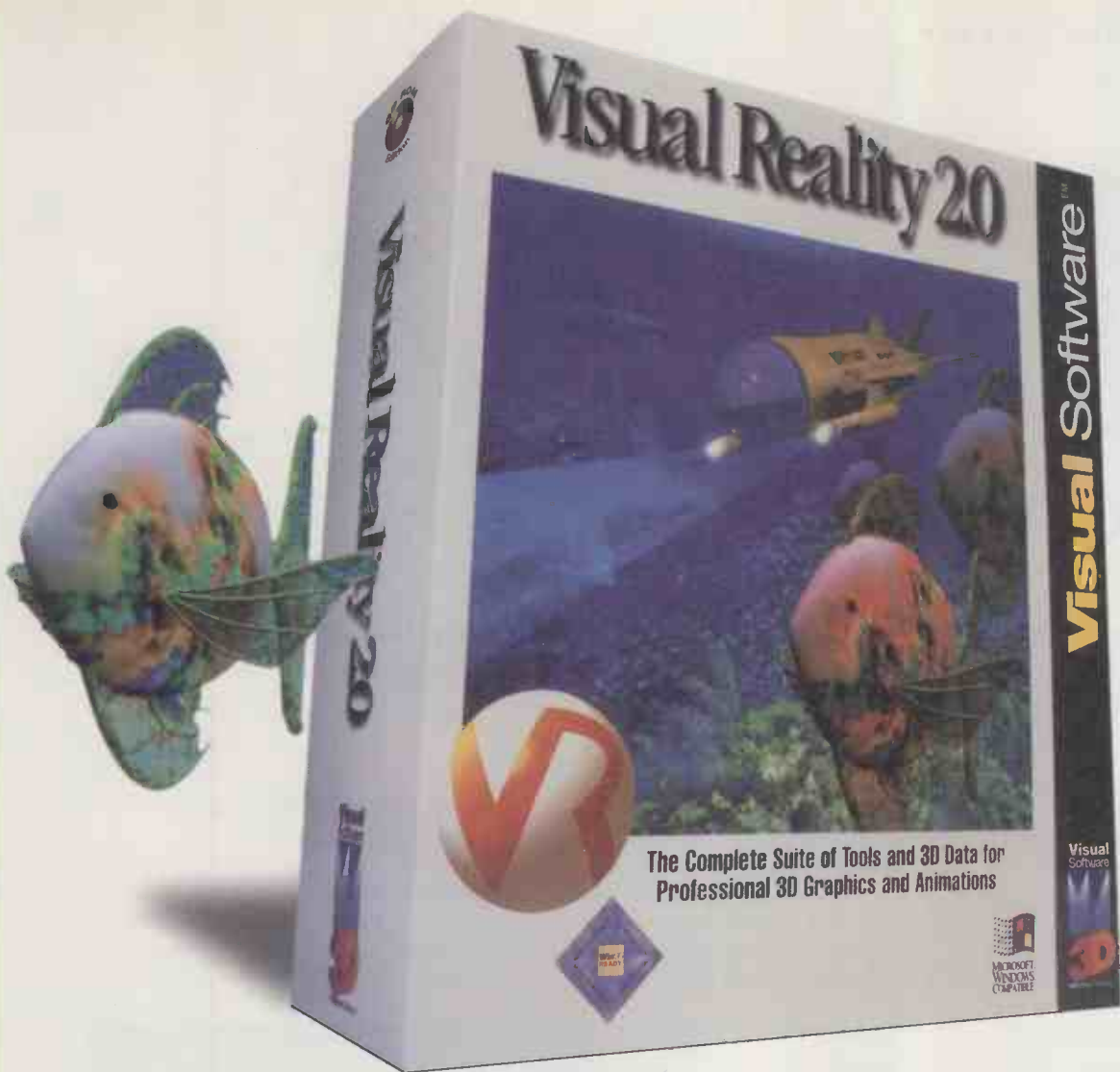
Font of the Month for March is an old favourite of mine, Perpetua. Designed by Eric Gill between 1928 and 1935, this is a classic typeface. Not as stuffy or overused as Times and Garamond, Perpetua is nevertheless ideal for body text.

Eric Gill also designed Gill Sans, another classic and veteran Font of the Month. Contact the suppliers below if you're interested in buying a copy.

PCW Contacts

Anyone got any other great time-saving tricks or shortcuts? Write to me at the *PCW* address on Broadwick Street or email me as
gordon_laing@pcw.ccmil.compuserve.com

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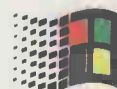
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It's out on video

Video hogs the limelight this month, with Panicos Georghiades and Gabriel Jacobs attending to such matters as playing video disks, grabbing video sequences, and the elusive Crunch-It card.

Most of the letters we receive these days are about video, whether capture or playback. So if you're considering buying a video board, stick around with us.

But we begin with some announcements that will interest multimedia developers. A new version of Aimtech's IconAuthor (version 7.0 for Windows 95) is now available. This concentrates on providing enhanced multimedia authoring for the Internet, with interactive features that go beyond what current standard HTML can provide. IconAuthor includes features such as easily attainable drag-and-drop capabilities, timers and combo boxes.

In addition, a new facility called Universal Media Access allows IconAuthor applications to access data located on a hard disk, CD-ROM, remote database, or any server on the Internet. We'll have more on this in the near future.

Two other new versions of authoring tools are also now available: Illuminatus 3.0 and Visual Basic 4.0. Illuminatus does not require programming and is one of the easiest and cheapest multimedia authoring programs around. The new version comes on CD-ROM and includes more templates and clip media.

Visual Basic isn't officially classified as a multimedia authoring tool but it's still the preferred choice of many multimedia programmers due to its universal use and, frankly, much better language syntax. Although nothing has been advertised about version 4.0's multimedia enhancements, they're there, especially in the 32-bit Professional version. Also, enhancements related to database access now make VB4 an even more

attractive tool for multimedia applications that involve database-stored data.

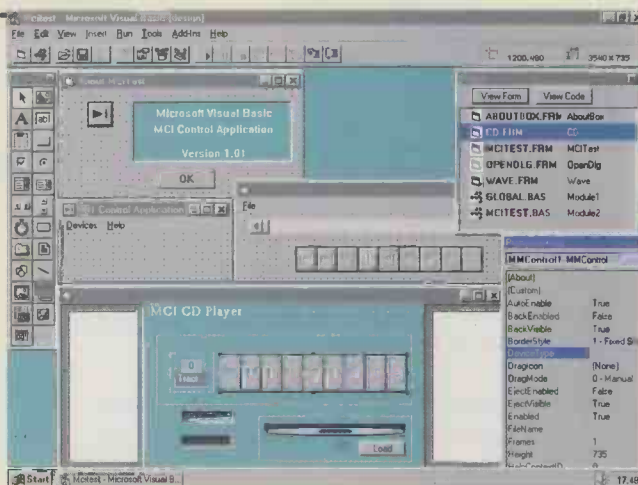
Finally, if you're into writing one-off CDs, you'll be interested to know that Corel CD Creator (version 2) is now out. Apart from benefits related to Windows 95 GUI features and speed, the new

version can write Video CD and Enhanced CD formats.

All present and correct?

"I own a 486 33MHz system. I recently purchased a sound card and a Sony CDU31A 2X CD-ROM drive. I am also

Right Visual Basic is established as a multimedia authoring tool. Version 4.0 has several enhancements designed for multimedia, not least improved database access



Left The Reveal VE500 is probably the cheapest board on the market offering M-JPEG compression. It comes with Ulead's Media Studio 2 and costs as little as £322

about to purchase a video card. I was wondering if it was possible to play video disks using my present hardware (excluding the video card) and software in Windows For Workgroups (i.e. Media Player). If not, could you recommend a low-cost method of playing video disks with my present CD-ROM drive?"

Timothy Thairu

(Henry_Thairu@AfricaOnline.co.ke)

By "video disks" we assume you mean Video CDs, not the old analogue laserdiscs which were also known as "videodiscs".

There are two ways to play MPEG-1 video, the format contained in video CDs. The cheapest way is to use a public domain or shareware software-only playback program, such as MPEGPLAY, which is often incorporated into Internet browsers. These will provide you with a small window playback on your 486/33, but you'll really only be able to get an idea of what the movie is about. With a Pentium 90 or above, you can get a decent-size playback window and frame rate. Programs are provided free with some graphics cards, but note that some of these software-only MPEG players are for vision only: sound does not come included in the package.

To get proper MPEG-1 playback at full screen and frame rate (and especially on your 486/33MHz), you'll need to buy a dedicated MPEG playback board. There are several on the market, such as the Creative Labs RT400, ReelMagic, Visionetics and Ace MovieMaster; these work in conjunction with graphics cards. There are add-on boards for cards such as the VideoLogic 928 movie (which accelerates .AVI files). There are also single cards that combine MPEG playback and S-VGA graphics on the same board (for example, the Spea Showtime Plus), saving you both money and space.

Your twin-speed CD-ROM isn't a problem, since Video CD has a single-speed transfer rate. Problems do arise with some systems where the CD-ROM drive can't keep a constant sustained transfer rate required by MPEG-1, even if this is single speed. Fortunately, Sony CD-ROM drives have a good reputation when it comes to playing Video CDs. Sometimes the cause of bad MPEG-1 playback is the CD-ROM driver.

How does that grab you!

"I wish to grab short video sequences (10 to 15 seconds) and import them into

Multimedia ToolBook to create interactive teaching material for medical students. One idea would be to make our own CD-ROMs with a runtime program, so that the students can run them on their own machines or ones around the college. I have a Dell P90 running Win 3.11 for Workgroups, with a 500Mb hard drive, 8Mb RAM, a Number Nine GXE64 graphics card, and a quad-speed CD-ROM drive.

Could you suggest a frame-grabbing board and/or direct me where to find information?"

Peter Rowles (rehkpmr@ucl.ac.uk)

We don't want to recommend a single board as there are several that will do the job. You don't specify what sort of quality you have in mind, or what budget you have available, both of which are, of course, important considerations. But we can give you a general answer which will cover the same kind of questions asked by a number of readers this month.

Judging from the information you give about students being able to play them on their own machines and on machines around your college, you're looking at producing video clips that are playable using software-only decompression on machines ranging from, say, a 486/33MHz to a Pentium 90MHz, with average graphic cards with no special video acceleration facilities.

In that case you're looking at video window sizes ranging between 192 x 144 to 320 x 240 pixels, and (realistically) at frame rates of between five and 25 fps. You have to decide the actual figures depending on the amount of movement and the detail in each video segment. Less movement requires fewer frames per second, allowing larger window sizes thus giving more detail.

Your 500Mb hard disk will be sufficient to handle capturing and editing 10 to 15 second clips, but not (of course) to store them. What's important with grabbing video is the minimum sustained transfer rate of the hard disk, *not* its actual size, but larger disk sizes usually have better transfer rates. We recommend a minimum of 1.5Mb per second, and the higher the better.

There are companies that manufacture hard disks specifically for audiovisual applications. They're often called AV drives. These drives (which usually have larger buffers) ensure constant and high transfer rates so that you can record and playback a continuous stream of data. Micropolis,

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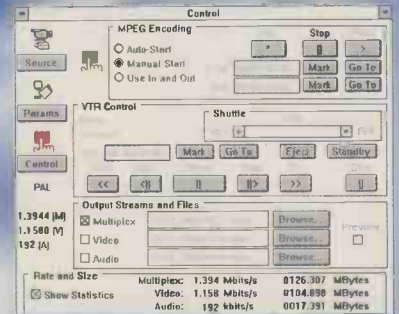
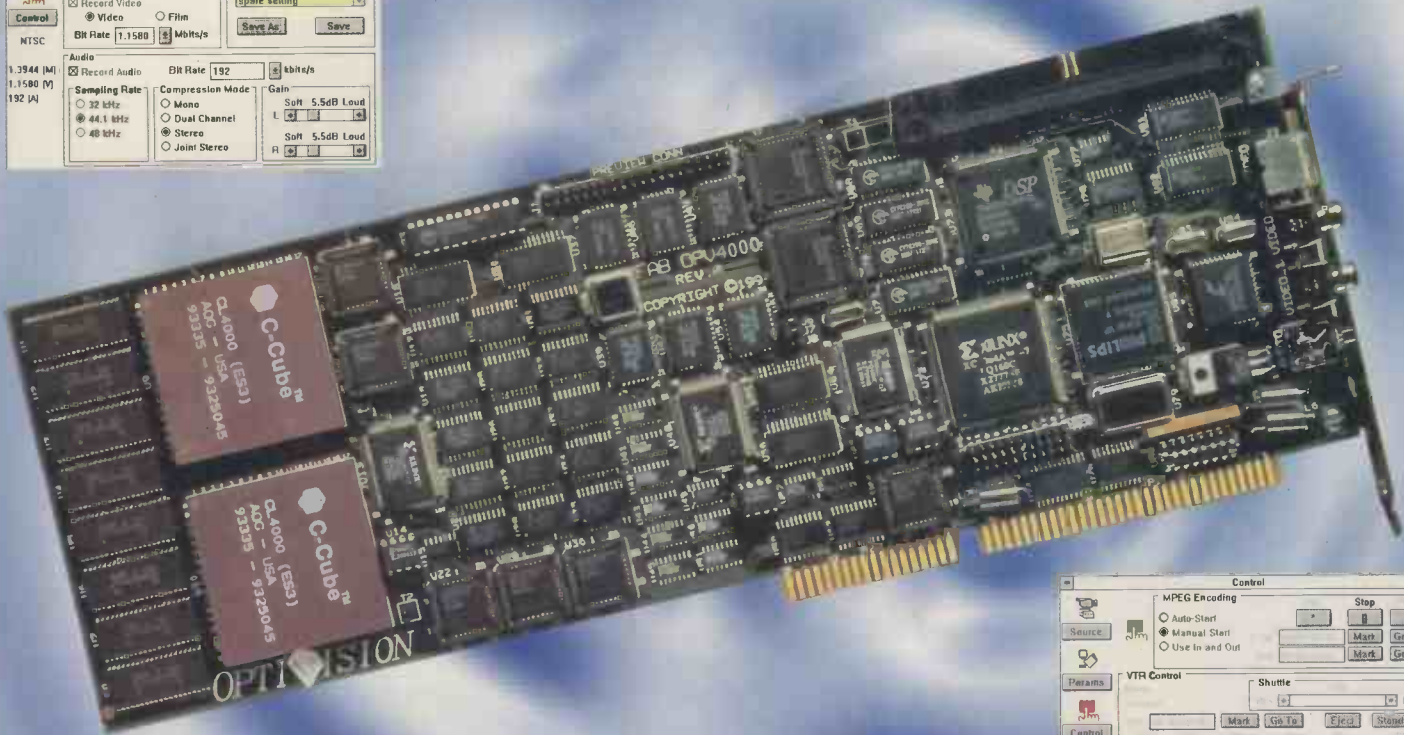
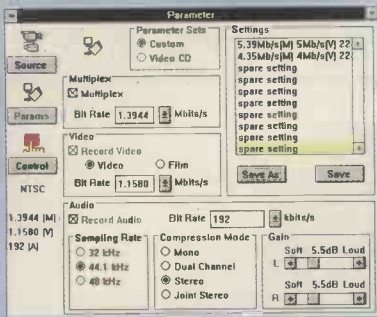
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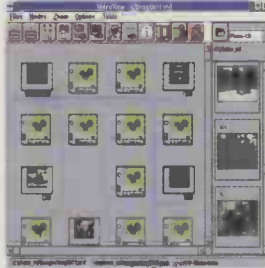
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When it comes to the Crunch

"I read your review in PCW about the Crunch-It card, and contacted the manufacturer for details. Nothing came, and I've since lost the contact details.

I'm interested in buying a new video capture board to replace our Screen Machine II. I thought MPEG was out of the question, till I read your review. I think we're looking at under £1,000 for a general purpose board, mostly Video for Windows, but possibly MPEG.

We are an institutional computer-aided learning unit. Can you send me the name of Crunch-It's manufacturers, and any advice on other boards we might consider?"

Steve Brydges (CCZSWB@ccn2.ccc.nottingham.ac.uk)

Spea has now been acquired by Diamond Multimedia. The telephone number is still 01844 261886. For other boards, see our answer to Peter Rowles's query [page 295]. Any of the boards capturing M-JPEG can be used to produce .AVI files. Using software compression, you can then recompress the M-JPEG files to MPEG files. However, there are now some relatively inexpensive boards that can capture MPEG files directly in realtime, such as Vitec's Video NT (£350).

Incidentally, since you're a university-based CAL unit, you may already be a member of ALT (the Association for Learning Technology). If not, consider joining (01865 273281 or alt@ox.vax.ac.uk for full details). ALT has hundreds of members involved in producing multimedia software specifically for higher education. It's a way of being in constant contact with people encountering the same problems and finding common solutions.

"Could you tell me the minimum system requirements for the Spea Crunch-It?"

Mathew Southall (lpyimjs@psyc.nott.ac.uk)

The basic requirements for the Spea Crunch-It card are more or less the same as those for most other video capture cards, since they all aim to perform to roughly the same level. These requirements are: 486 PC or higher, 16-bit ISA expansion slot, MSDOS 5.0 or higher, 8Mb or more of RAM, hard disk transfer rate of 500Kb/sec minimum (the higher the better), 100Mb E-IDE or SCSI hard disk (recommended more than 1Gb audio-visual drive). You also require a video source that outputs composite or S-video signals.

As for the Crunch-It card specifically, it requires an external TV monitor with composite or S-video input for monitoring playback. And if you wish to view the signal on your computer monitor, you require the Spea Showtime Plus card (at £325). As with most other video capture cards, you normally also require a sound card for recording sound.

Quantum, Seagate, Conner and others produce such drives, and prices have recently dropped dramatically — how does £400 for a 4Gb drive sound to you?

As for video capture cards, these range from £200 upwards. If you go for cards that capture and compress using Indeo 3.2 (such as the Inter Smart Video Recorder, the Creative Labs RT300, or the FAST Aviator) you'll be able to capture in realtime and use the movies straight away on other machines in their original captured format (Indeo 3.2 is available as a software-only decompression driver).

Better quality than Indeo 3.2 is M-JPEG compression. Cards that compress using this format include the Miro DC1 and the new DC20, the Spea Crunch-It, the Fast FP/S 60, the Reveal VE500 and the Orchid Vidiola Premium among others.

However, if you capture using this format you'll need to recompress the video clips using drivers supplied free with Video for Windows for playback

using software-only decompression on other machines.

Suitable drivers giving reasonable quality are Cinepack, MS Video 1, and Indeo drivers, including the latest Indeo Video Interactive that gives superior quality (near MPEG) video.

Which video capture card?

"Which is the most suitable video capture card for a PC? I have a Pentium 75MHz with 24Mb RAM running Windows 95/Windows NT. I wish to capture from VHS video and laserdisc (video has Scart and phono connection, laserdisc has Scart and S-Video connections) at the fastest rate/size. Replay of the captured video would probably only be on my machine, but possibly on other machines too. I'd prefer to keep my existing video card (a Diamond Stealth). I have a SoundBlaster for capturing audio.

I've been looking at the Miro DC1 and the VideoBlaster 300. Are there any problems having one over the other?"

The few suppliers I've spoken to seem useless with advice, so I hope you can give me some help."

David Doyle (dd215@gre.ac.uk)

The other letters in this column, and our answers, will interest you. The two products you mention are not in the same category for either price or quality. The VideoBlaster RT300 is half the price of the Miro DC1. It uses an Indeo 3.2 codec, while the DC1 uses an M-JPEG codec. Files captured with the RT300 can be played without the card (using software-only decompression), while files recorded on the DC1 need the DC1 for playback, unless you recompress them using a software-only driver (including Indeo 3.2; this is not difficult to do, it just takes time).

Both cards accept S-Video or composite signals. The RT300 has no video output, so you can't record .AVI files back onto a VCR, if you need to. The DC1 has a Video Out facility — both S-Video and composite (phono) — but doesn't have a built-in overlay facility. This means you can't view the captured files on your computer screen, unless you buy Miro's overlay option or recompress the files using another (software-only playback) driver. It is, however, possible to view the captured video on a TV via the video output.

In our view, go for the RT300 if you wish to grab video at a high compression ratio into a file that will be the final product. The DC1 is a better choice if you wish to grab video at low compression ratios for editing first, and then either recompress them to a smaller file, for software only playback on other machines, or output them back to a VCR. If you decide to go for a Miro board and you have a PCI bus, consider the new DC20 instead of the DC1.

PCW Contacts

If you have any multimedia-related problems or queries, email us at g.c.jacobs@swansea.ac.uk. We're sorry, but we can't answer queries by personal reply — we'd be at it all day! But we're glad to publish queries, with our answers, which we think will interest PCW readers generally.

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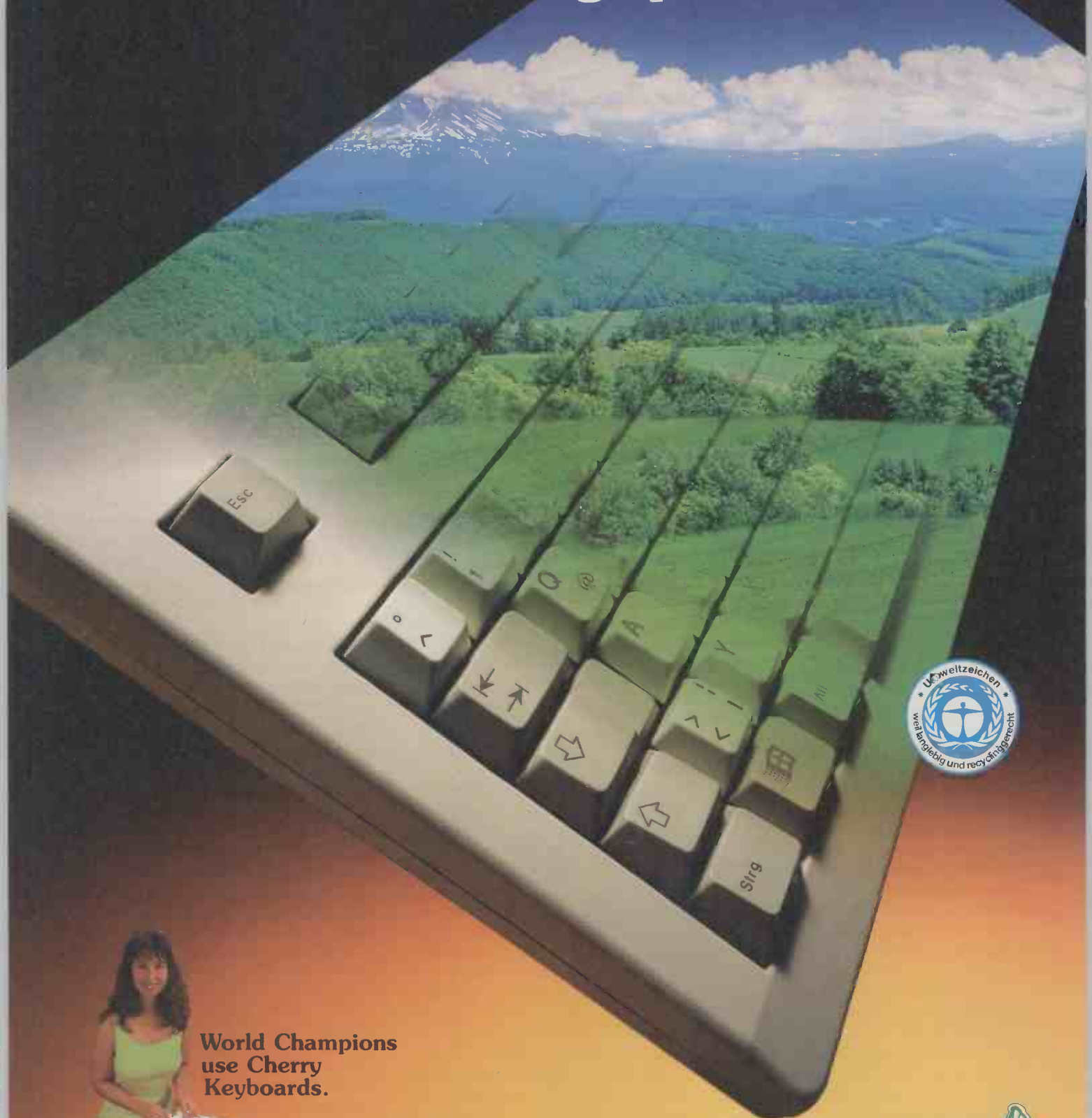
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Chord accord

Confused about chords? Not any more, as Steven Helstrip explains all you need to know about how they're put together, how they interact and how to use them to best effect.

Judging by the letters I receive, the most frequently asked questions are about the use of chords and how to treat them. So this month we'll be looking at chord progressions, how chords relate to one another and how chord inversions can be used to create different textures.

In theory, it is possible to play any song using just three chords: the root chord, the IV and the V. In the key of C Major these translate to C Major, F Major and G Major.

Some of the best songs ever written are based on these three chords and the reason they work is because each note in a major scale is covered within these chords. But many variations can be used: chords can be substituted, or replaced, with related triads; even changing the bass note can give a chord a different texture.

What's in a chord?

A chord, or triad, is simply a collection of three or more notes that sound together. The two most common chord types are Major and Minor triads consisting of just three notes.

Fig 1 Seven chords in the key of C major

I	II	III	IV	V	VI	VII
C Maj	D Min	E Min	F Maj	G Maj	A Min	B dim
C E G	D F A	E G B	F A C	G B D	A C E	B D F

There are several ways you can find the notes to a chord: you can refer to our Chord Reference table [below] — probably the easiest way; or you can calculate them for yourself by first playing the root note (C, for example), followed by the third and the fifth notes in that scale (E and G); this chord is C Major. If you want a minor chord, then the third (E) needs to be flattened, in this case, E flat.

In every scale there are seven notes and therefore seven basic chords. For this example we will stick with the key of C Major, although the same principle applies to every scale. Fig 1 shows the seven chords that belong to the key of C Major.

In every major scale there are three major chords: the root, the fourth and the fifth chords. Three of the remaining four chords are minor (second, third and sixth)

and the seventh, a rarely used chord, is diminished.

The key of C Major has no accidentals (sharps, flats, black keys; whatever you want to call them) and thus each chord has the same shape when played on a keyboard.

You will notice, too, that many of the chords share notes. For example, A Minor has two notes which can also be found in C Major; those notes being C and E. A Minor is therefore the relative minor of C Major. The relative minor of G Major is E Minor and so on.

Because many chords share the same notes, it is possible to substitute a major chord for a minor chord to add more interest (Fig 2). Let's say, for example, the chords for a particular song are C Major for two bars, followed by F Major for two bars.

This can be improved by moving to A Minor on the second bar and instead of going to F Major, move down to D Minor for a bar and then to F. The chord sequence now has four chords and in some cases will sound more interesting and, dare I say it, more accomplished.

Seventh heaven

So what else can you do to "spice up" the chords? We've mentioned major and minor chords, let's move on to sevenths.

You will have noticed that numbers always come into the equation when talking about chords. And although they can sound intimidating, they really aren't all

Chord Reference Table

	Major	Min	Seventh	Maj Seventh
C	C E G	C Eflat G	C E G Bflat	C E G B
C Sharp	Csharp E Gsharp	Csharp Eflat Gsharp	Csharp E Gsharp B	Csharp E Gsharp c
D	D Fsharp A	D F A	D Fsharp A C	D Fsharp A Csharp
D Sharp	Dsharp G Asharp	Dsharp Fsharp Asharp	Dsharp G Asharp Csharp	Dsharp G Asharp D
E	E Gsharp B	E G B	E Gsharp B D	E Gsharp B Dsharp
F	F A C	F Aflat C	F A C Eflat	F A C E
F Sharp	Fsharp Asharp Csharp	Fsharp A Csharp	Fsharp Asharp Csharp E	Fsharp Asharp Csharp F
G	G B D	G Bflat D	G B D F	G B D Fsharp
G Sharp	Gsharp C Dsharp	Gsharp B Dsharp	Gsharp C Dsharp Fsharp	Gsharp C Dsharp G
A	A Csharp E	A C E	A Csharp E G	A Csharp E Gsharp
A Sharp	Asharp D F	Asharp Csharp F	Asharp D F Gsharp	Asharp D F A
B	B Dsharp Fsharp	B D Fsharp	B Dsharp Fsharp A	B Dsharp Fsharp Asharp

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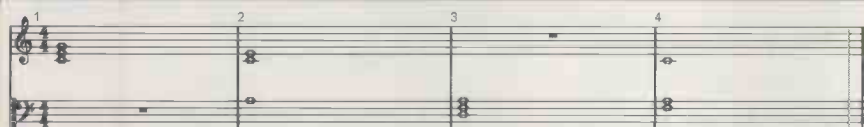


Fig 2 Spice up your tune by substituting a major chord for a minor one

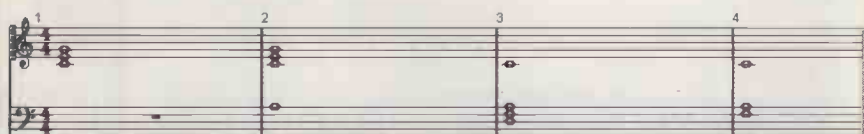


Fig 3 Make more of your melody by adding sevenths to the A and D minor chords



Fig 4 You can add sevenths to chords C and F too, but this is where things get tricky

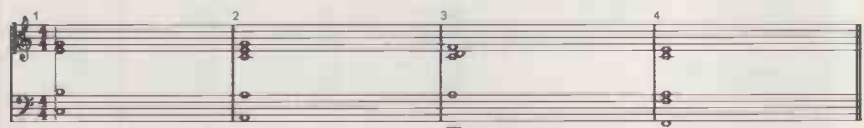


Fig 5 Inverting the chords so that each chord is not playing in parallel



Fig 6 For a creative crescendo, try adding a ninth to D minor

that bad: a seventh chord simply has one extra note — the seventh. Seven notes up from A is G. Therefore, by adding G to an A Minor chord you have A Minor Seven.

To further add to the confusion, you'll notice that A Minor seven is effectively a C Major chord but with an A in the bass.

Likewise, D Minor seven is effectively an F Major chord, only with a D in the bass.

Continuing with the new chord progression, try adding sevenths to the A and D Minor chords (Fig 3). Again this adds further interest, thickens up the chords and provides more options for the melody and

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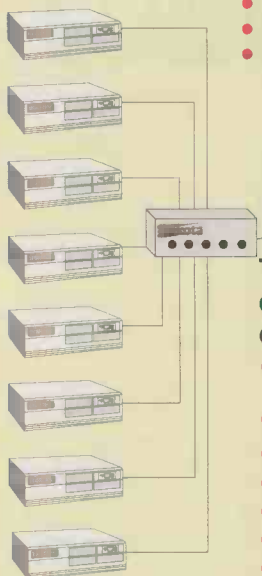
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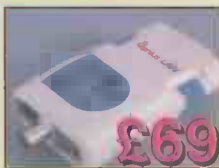
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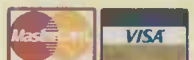
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other musical parts that may come into the song.

Sevenths can also be added to chords C and F, but this is where it starts to get really confusing (Fig 4). If you were to play C seven, the notes in that chord are C, E, G and B flat. Likewise with F seven, the notes are F, A, C and E flat. The confusing part is that there are two types of seventh chords: sevenths and major sevenths. A Major seventh is where the seventh note is raised by one semitone. So, the chords in which we're interested are C Major with a Major seventh, if you see what I mean, and F Major with a major seventh.

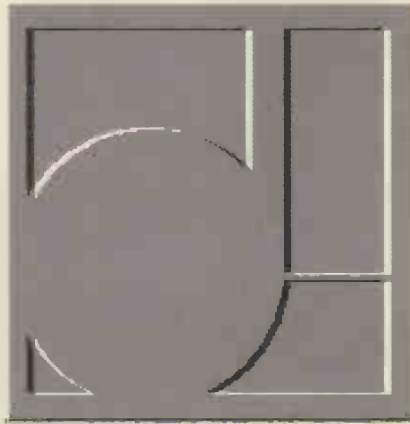
Inversions

Each chord now has four notes and each has an identical shape when played on a keyboard. When each chord is played in root position (with the root note at the bottom) the chord progression can sound disjointed. By inverting the chords, or changing the shapes, the progression becomes more complete.

An inversion involves moving notes up an octave. For example, C Major played in first inversion would have an E followed by G, then C. The same chord played in second inversion would have G followed by C, then E. With seventh chords you can have up to three inversions, where the seventh note is played at the bottom of the chord.

Going back to the chord progression, try inverting the chords so that each chord is not playing in parallel. Fig 5 shows just one example, although you can try different inversions.

Depending on which instrument is



Some of the best songs ever written are based on these three chords [C Major, F Major, G Major]. They work because each note in a major scale is covered within these chords

playing the part, you can also add a bass note. I put these examples together using an electric piano. When doubled up with a

string pad it may sound better without the strings playing the bass note since the texture will become too thick.

Cloud nine

Going completely overboard, you might like to add a ninth to D minor (Fig 6). This involves adding an E to the chord. When reading printed music, if you see that a chord has a ninth, it is usually taken for granted that the seventh is included, even though it might not specify it.

When playing straight chords on a piano, try different inversions but try to keep away from playing in parallel. If there is a bass playing, it may sound better not to play a bass note, particularly when playing jazz.

When it comes to arranging strings it's sometimes necessary to "thin out" the chords as the texture can become too thick. Try removing the root note and perhaps the fifth. The third is best left in the chord since it's the third which determines a major from a minor chord.

You can find more examples of chords on this month's free cover-mounted CD-ROM, recorded as MIDI files. The file is chord.mid and can be found in hands\sound.

PCW Contacts

Readers' contributions to the Sound column are music to our ears. If you have any hints or tips, any MIDI-related items or general comments, send them to the usual PCW address, or to steven_helstrip@pcw.cmail.com.

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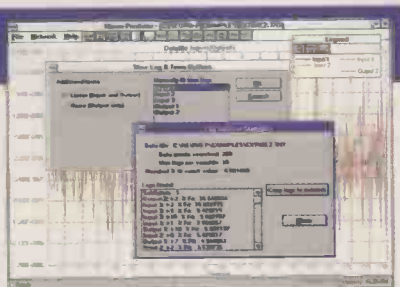
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Crystal clear?

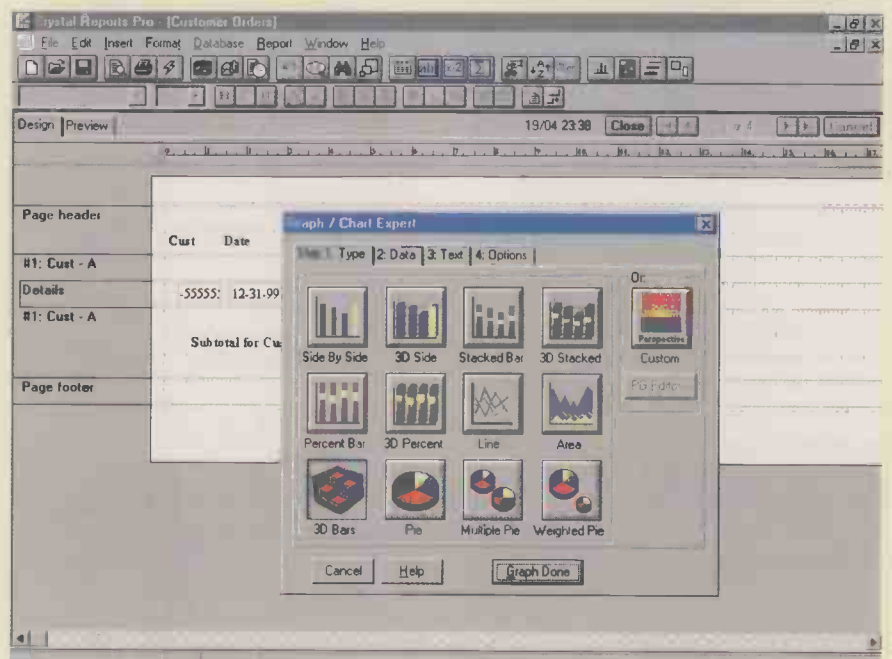
Tim Anderson explores the strange world of Crystal Reports and compares the relative merits of Visual Basic 4.0 and Delphi.

Shrouded in corporate mystery is the question of why Microsoft has report writers in both Access and FoxPro but supplies third-party Crystal Reports with Visual Basic. And, why Borland paid good money for ReportSmith, but supplies Crystal with Visual dBase. Somehow Seagate's Crystal Reports has become the most widely used report writer, although not necessarily the most liked. A problem in both Delphi and VB is that the report module is not completely integrated with the main programming environment. For example, Crystal Reports has a formula language which lets you include calculations or text which vary according to values in the current record:

```
if {CUSTOMER.BALANCE} >
{CUSTOMER.CRED_LIMIT} then
"NOTE — credit limit exceeded!!!"
```

Fair enough; formulas are very useful but if you use Visual Basic, you will find that Crystal's formula language is different from VB's. Where VB has VAL, Crystal has ToNumber; Crystal has UpperCase where VB has UCase. There are numerous other examples. All this means more work and, inevitably, more errors. It would be a great improvement if you could call VB functions, including user-defined functions, from Crystal.

Another gripe is that Crystal Reports gives you very little control over its print window, which is important since this is what the user will generally see. The print window contains buttons by default for paging through or printing the report. There are no tooltips on these buttons although it is far from obvious that a suitcase icon means Export. You might want to remove some of these buttons, or design your own toolbar, but you can't. Given the sophistication of VB 4.0's database features in other areas, it is



disappointing. The Visual dBase version of Crystal is better, since it uses the dBase expression builder.

One option is to upgrade to the full Crystal Reports product and I have been looking at version 4.5, the first version for 32-bit Windows. It comes on a CD with two, smart, printed manuals, although they are incomplete and frequently refer you to online help. I tested the release version, although many of the 32-bit database drivers from third parties were not yet available. All the options are covered with VBX, 16-bit and 32-bit OCX, MFC and Delphi VCL wrappers. Those upgrading from the Visual Basic version will find a much improved user interface, with tabbed dialogues and a number of "Experts" to simplify report design.

The Professional edition supplies additional database drivers for SQL

If you have the full version of Crystal Reports, you can use a variety of graph types in your report

servers, while the Standard version is intended only for desktop databases like Access, FoxPro and dBase. You can also compile reports to an executable format for distribution. This brings no speed advantage, since it uses the same runtime engine but is useful for giving to those who do not have the full version. There is no gain for developers who will prefer to write their own applications which call Crystal Reports. Another advantage of the Professional version is that reports can be bound to data controls to provide an instant, automatic, reporting facility.

At the heart of Crystal Reports is the CRPE.DLL (or CRPE32.DLL) print

engine. It is noticeable that the OCX and VBX controls are small, because their only function is as wrappers for the print engine itself. This makes it much easier for Crystal to support different programming environments. Unfortunately, Crystal does not expose all the functions of the print engine in the custom controls, so you may find you want to call the DLL functions directly. If you do, you may not use the custom control at all, thus forcing an unpleasant decision on the developer.

Crystal has packed a lot into this product. Things like the visual linking expert, drill-down behind summary reports, the ability to base reports on stored procedures, "top n" reports, integrated graphing and the extensive

formula expression language make this a comprehensive reporting package. It is large, too; the 32-bit print engine DLL is 1,788K and just a little awkward and untidy for developers.

Finally, the full product is not an essential upgrade for VB or Visual dBase programmers, and you should make sure you need the extra features before taking the plunge.

Delphi or Visual Basic 4.0?

I have received the following email from Bob Osola: "I'm in a quandary about which way to go; I use Paradox for Windows (OPAL) for my data apps, and VB 3.0 Pro for general stuff. The big question is; Do I dump these two and go

Making sense of groups in Crystal Reports

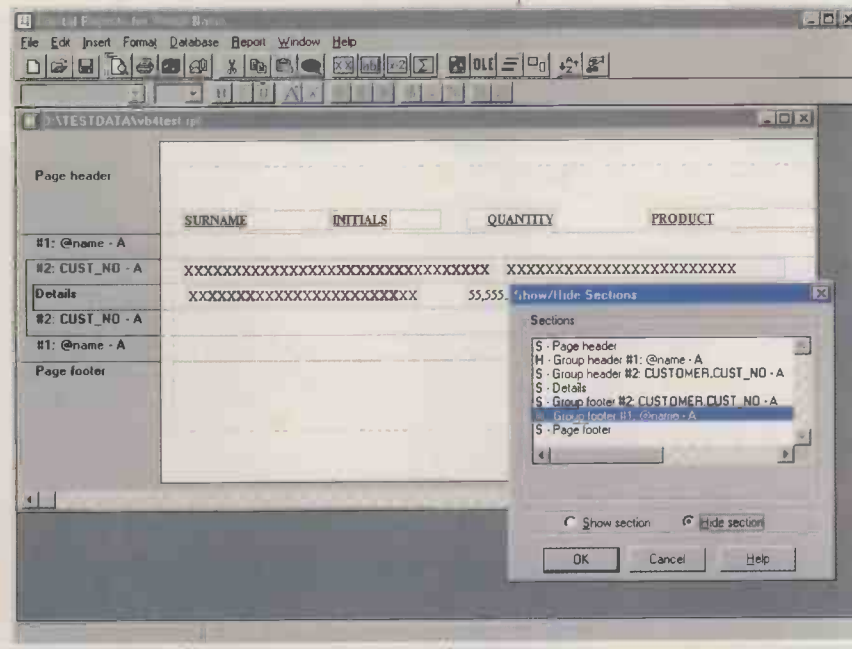
To use groups in Crystal Reports, choose Group Section from the Insert menu and select a field from the active database. Crystal inserts a header and footer area for the group and when the report is run, a new group section will begin whenever that field changes.

Unfortunately, this procedure does not always achieve the desired result. Imagine, for instance, a database in which there is a customer table and an orders table joined by an ID field called CUST_NO. You want the orders to be grouped by customer and to appear in alphabetical order of surname. If you group on the SURNAME field, all customers with the same surname will be lumped together in one section. But if you group on CUST_NO, the report will appear in CUST_NO order, which is not what you wanted.

The solution is to create a dummy sub-group. First, insert a group section based on SURNAME. Then insert a further section based on CUST_NO. Finally, choose Show/Hide sections from the Edit menu and hide the group header and footer for the SURNAME group. Now the report will appear correctly, ordered by surname but grouped by CUST_NO.

A powerful feature of Crystal is the Group Selection Formula. This lets you filter a report according to the summary values in a group. For example, you might want to see all the invoices above a certain value, where the value of an invoice is only known once all the orders for that invoice have been totalled. You can do this by grouping by invoice, and using the Sum function in the Group Selection Formula.

Crystal's Hide Sections feature lets you sort a report by one field, while grouping data on another



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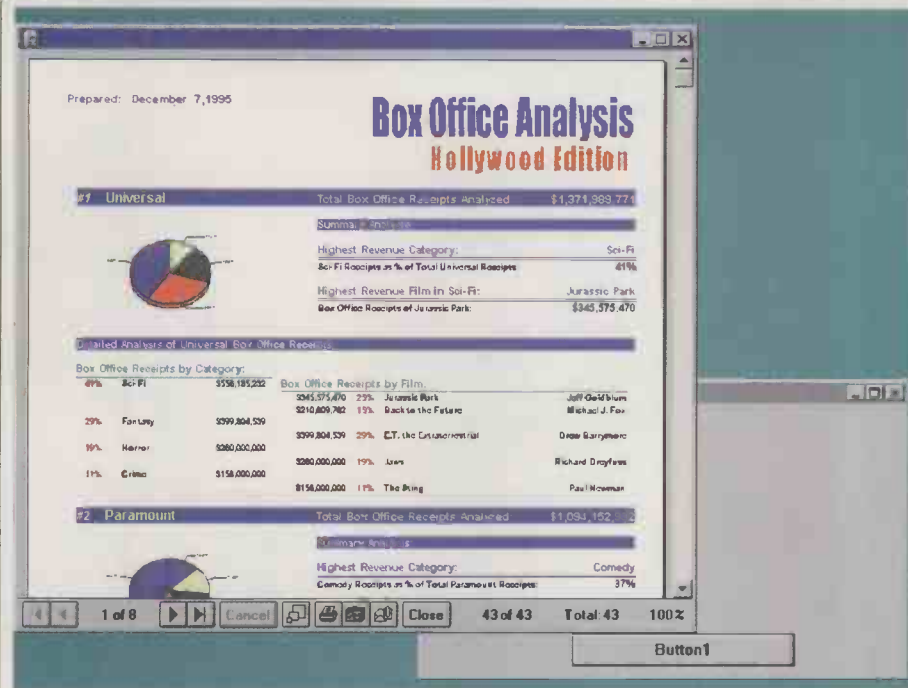
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Using the Crystal VCL component, it is easy to create a Delphi application that displays a report



more trouble.

Installing the component is done in Delphi from the Options — Install Components menu. The location of the component must be added to the library search path and then UCRPE.DCU can be added to the component library. Once Delphi has rebuilt the library, the component appears on the Data Access palette.

A simple report application can be created by simply adding the component to a form, setting the ReportName property to an .rpt file and writing code to set the Action property to 1 at runtime.

The finished Delphi application displayed the report noticeably faster

The supplied VCL component has not been produced by Crystal, but by a programmer called John Murphy who "needed it for a project I am working on." Documentation is rough and ready, and the author remarks that: "This is an initial build... I will update it as it matures." Better than nothing, but with Delphi's gathering momentum it's a shame that Crystal could not have taken a bit

than its VB equivalent, presumably because the VCL component carries less overhead than the VBX or OCX versions.

Although Delphi comes with its own report component, the Crystal alternative could prove valuable to developers with an existing stock of .rpt files, or anyone wanting to report on .mdb databases, which are handled well by Crystal.

for Delphi, or upgrade to VB 4.0?

"I'm worried that the VB 4.0 OCX route will both bloat my programs and require massive horsepower (and RAM) to run acceptably — this is presently the main disadvantage with OPAL, which otherwise runs rings around VB and Access for database apps.

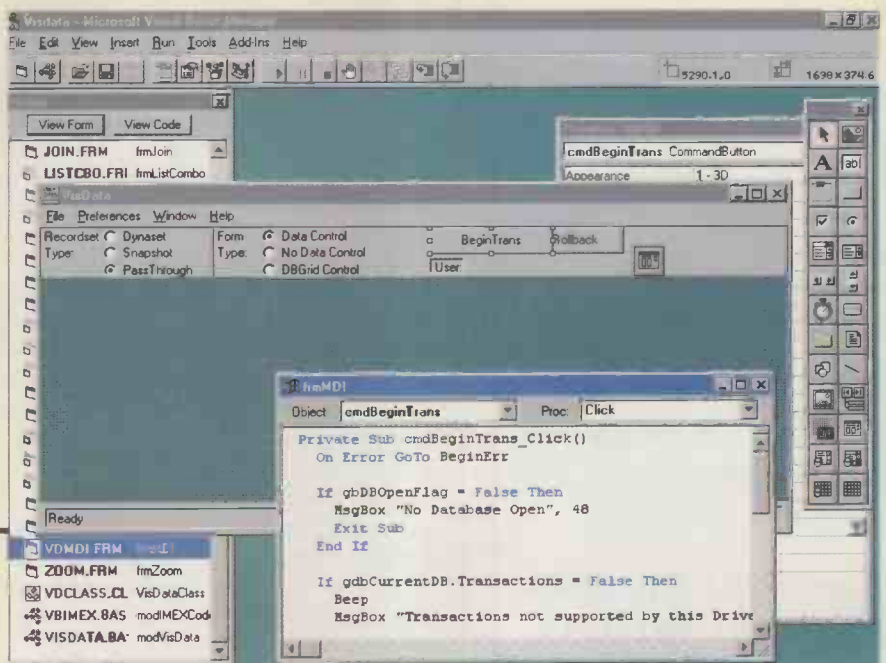
"Is there any chance of your running a comparison article on Delphi and VB 4.0? I'm sure many others are harbouring doubts about the VB 4.0 OLE-based future (in my experience; generally flaky and slow) but would sooner stick with the massive user base of VB rather than make a leap of faith to Delphi.

"Having invested a lot of time in learning OPAL, which now appears to be rapidly going out of fashion, I am biding my time to see how Borland runs with Delphi before jumping in. At least VB will still be around in a couple of years time. Any comment or feedback would be much appreciated."

Too big and bloated? Visual Basic 4.0 with its supplied Visual Data application

Bob's question is right on target. Despite its massive user base, Visual Basic is far from secure. Its core runtime DLLs, plus JET, plus one or two OCX controls, result in applications that are quick to develop but demanding to run.

Monolithic database applications like Paradox, Access and FoxPro suffer from the same disease. Historically, the solution has been to upgrade the hardware, treating Pentium machines with 16Mb RAM as the new entry-level standard and



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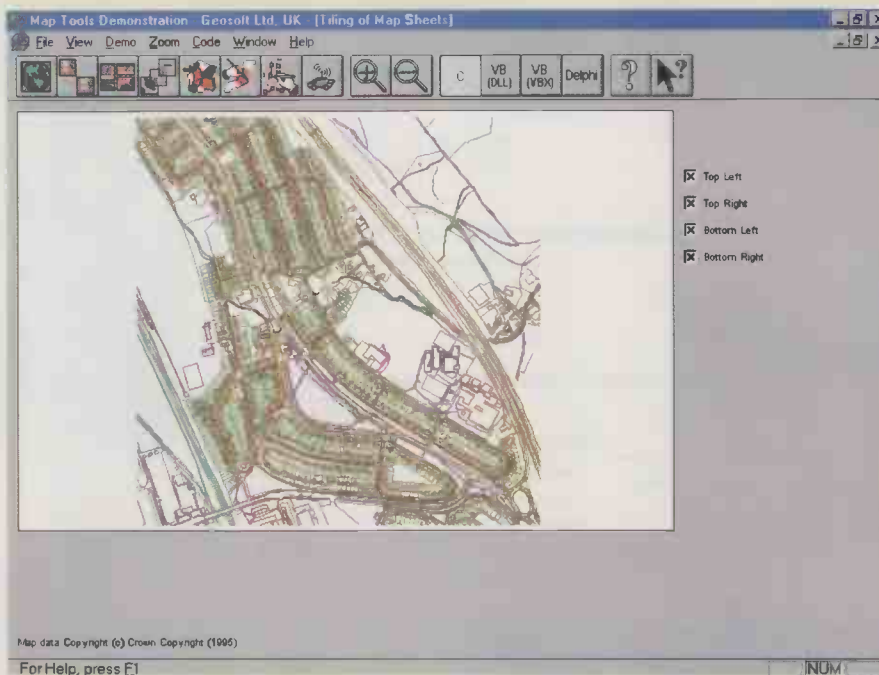
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leaving older PCs to run old software.

No doubt Microsoft is counting on this process to make software like VB 4.0 and Office 95 acceptable. But Delphi has changed the rules. By combining VB's ease of use with a native-code compiler, it provides acceptable performance on modest hardware, like an 8Mb 486, and blazing speed on fast new machines.

Visual Basic is becoming hard to recommend unless you need some particular feature like the JET database engine, or remote data objects. The same applies to Paradox, despite the elegance of its ObjectPal language. Delphi uses the same database engine and gives better performance and flexibility.

Although Delphi is technically excellent, some people hesitate because it's a relatively new product whose language (Pascal) is less well established than Basic, C or C++, and because its future development depends on Borland (the company that delayed dBase for Windows, dropped Sprint, and sold Quattro Pro).

Nobody can predict the future, but Delphi has become Borland's star product and it is hard to imagine the company letting it go. Delphi 2.0 is 32-bit and brings in support for OCX, OLE automation as client and server, and multithreading, to mention just three key features. The compiler is now shared with Borland C++ and the database engine is used across the range, thus reducing the development effort needed. Delphi is as safe a choice as any development language and the pressure is on Microsoft and others to catch up with its technology.

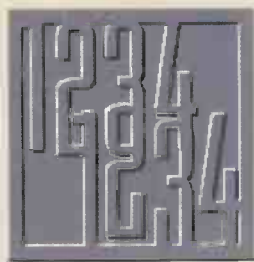
GeoSoft's Map Tools lets you add mapping features to VB, Delphi or C++ applications

So what's new?

- Sheridan's VB Assist 4.0 has been released, but its first release is almost as unstable as the same company's first cut of Designer Widgets 2.0. Look out for a review of the patched version soon.
- Microhelp's OLE Tools 5, with 55 OLE controls, and VB Tools 5 is expected shortly, as is Sheridan's ClassAssist which promises to improve Visual Basic's object orientation.
- Graphics specialist Bits Per Second has taken on a new product called Map Tools (illustrated above), developed by Geosoft, which provides mapping functionality via a DLL and VBX control.
- Out too is TopSpeed's Clarion for Windows 32-bit edition. Like Delphi, Clarion features a native code compiler along with integrated database features that make it attractive for some applications.

PCW Contacts

Tim Anderson welcomes your Visual Programming comments and tips. He can be contacted via PCW at the usual address, or on
freer@cix.compulink.co.uk
Contemporary Software 01727 811999 is distributor for Crystal, Sheridan and Microhelp
GeoSoft's Map Tools is available from Bits Per Second 01273 727119
Clarion is from TopSpeed 01582 763200



Pounding the beat

**The pound in your pocket has been redefined!
Currency conundrums, with Mike Mudge.**

This investigation has been prompted by George Sassoon of Argyll, who recalled (at 14/10/95) an idea which he had years ago concerning the optimum design of currencies.

Most currencies have notes/coins valued at 1,2,5,10,20,50,... but in Romania, or somewhere, George found a scale 1,3,10,30,100,... Now clearly, if the values are widely spaced, very few denominations of coins/notes are needed, but a lot of them are required for any given transaction... imagine a United Kingdom currency with only 1p, 10p, £1, £10, etc. in coins or notes. Conversely, if the values are closely spaced, a large number of denominations are needed, but in general, fewer coins/notes are required for a given transaction.

We ask, can an optimum currency be defined; and if so, is it practical?

A research student, Dave Foulser of Columbus, Ohio, observed that practical currencies approximate to geometrical progressions.**

****Definition.** A geometrical progression is a sequence of numbers starting with an initial (arbitrary) value and continuing by repeatedly multiplying this value by a constant number known as the common ratio. David suggests (private communication) that the true optimum currency, according to some as yet undefined criteria, might use a common ratio of

$e = 1/0! + 1/1! + 1/2! + 1/3! + \dots$
approximately 2.7182818 ($n!$, factorial n , being defined by $0! = 1$ and $n! = n \times (n-1)!$ where n is a positive integer). However, Dave airily dismisses any practical difficulties arising from buying something costing, say, £9 - 99p using coins/notes valued at 1, 2.7183, 7.3891, 20.0855, 54.5982 pence and £1 - 48.4132, £4 - 03.429 etc. (Of course, the suggested figure of £9 - 99p relies only on the use of the 1p coin for its formation.)

Problem DF. Devise and implement an algorithm for expressing any number, N , in decimal in a number base b (general

non-integer) to any prescribed degree of accuracy. Negative powers will in general be needed to the right of (i.e. on the least significant side of) the "point" to obtain the desired accuracy.

Problem GS. Devise and implement a program simulating societies with different currency systems paying each other randomly generated sums of money. Introduce some measure of the efficiency of a system of currency, which should involve not only the numbers of coins/notes needed for the transactions, but also take heed of the number of different denominations which the mint needs to produce, i.e. the complexity factor of the coinage. Using this measure, comment upon the efficiency of your current system of coinage and suggest ways in which this efficiency may be improved.

How many "Full Houses"? Readers may recall that in *PCW* August 1993, Mr. Ram Nair looked at the occurrence of two prime pairs within a single decade, which he referred to as "Full Houses". Now, John Humphries of Lechlade has returned to this problem and, after an analysis of the general permissible form of an I.P.Q. (Intra-decadal Prime Quartet), has investigated their occurrence using Excel 5/Visual Basic on a V-Tech 486 SX25 machine. The difficulty John has encountered is that he discovers 37 such structures below 100000 whereas Mr. Nair claims only 35. Paul Rayner (*PCW* February 1995) has listed far more "Full Houses" than John, but the counting ambiguity remains.

Any investigations of problems DF & GS above, together with the resolution of the "Full Houses" query, may be sent to Mike Mudge, 22 Gors Fach, Pwll-Trap, St. Clears, Carmarthen, Dyfed SA33 4AQ, tel 01994 231121, to arrive by 1st June 1996. All material received will be judged using suitable subjective criteria and a prize in the form of a £25 book token or equivalent overseas voucher will be awarded to the "best" solution arriving

by the closing date. Such contributions should contain a brief description of the hardware used, details of coding, run times and a summary of results obtained.

Feedback from readers

A highly recommended publication: *An Introduction to the Smarandache Function* by Charles Ashbacher, Decisionmark, 200 2nd Avenue SE, Cedar Rapids, IA 52401, USA. ISBN 879585-49-9. 60 pages paperback, \$7.95.

Some Smarandache Numerical Puzzles by M.R. Popov, Chandler College, Box 2834, Tempe, AZ 85280, USA. Stamped addressed envelope to Mike Mudge.

The Cake-Slicing Problem, *PCW* November 1995. Martin Sewell of Mill Hill, London, has carried out a details investigation resulting in a program in C upto $n = 477$, excluding multiples of 6. Readers are urged to attempt to fill this gap in a fascinating problem first seen by the writer in *The Observer Weekend Review*, 1st December 1963, page 39, as Braintwister no. 156 by D. St. Barnard.

Paul Young of Beeston, Nottingham, has studied the solution of $x^3 + y^3 = z^2$ and published his results in *Mathematical Spectrum*, vol. 24, no. 3; he is generalising this work to expressing numbers as sums of fourth powers and, apart from the reference *The Queen of Mathematics* by A.H. Beiler, is short of ideas. Can any reader help?

Review of Numbers Count -148- Pseudo Skills in the sense of Florentin Smarandache

This article produced a very mixed response, ranging from the sharply critical "what a load of rubbish" to the mathematically detailed and enthusiastic. Much further material related to these topics can be found in *The Smarandache Journal*. Prizewinner, for "services to the cause of The Smarandache Function" both in the context of this Numbers Count and in more general areas — Charles Ashbacher, address above. More readers' responses to Smarandache ideas would be welcome and, if agreeable, submitted to *The Smarandache Journal*.

PCW Contributions welcome

Mike Mudge welcomes readers' correspondence on any subject within the areas of number theory and computational mathematics, together with suggested subject areas and/or specific problems for future Numbers Count articles.



Network Nightmares

Stephen Rodda's been up to his neck in it — from servers that arrive with a password pre-installed but not disclosed, to machines that won't work on a network. It's a hard life.

This month, I've been setting up a network for a client. A simple network for a publishing company, with five Macintosh machines and about 20 Windows for Workgroups 3.11 machines.

Plain sailing, you might think. Except it wasn't. The first problem I encountered was that the NT server had been configured (pre-loaded by the manufacturer/assembler) with a password for the Administrator account. Not that whoever had pre-loaded the networking software had thought to include a slip with the machine, stating what the password actually was. That would have been too helpful.

I telephoned the firm and asked what it was: "You installed NT on a machine and my client hasn't got a note of the password," said I. "I didn't do it," said the techie on the other end of the telephone. "Not you personally, dimbo, *you* in the plural. Listen," said I, telling him exactly who I am (it's good to be able to strike terror into the hearts of these people from time to time), "I'm installing this wretched network" (I may not have been as polite as this) "and you, plural, haven't been as good at installing Windows NT as my client thought you might have been. I'll expect a call back with the password, within ten minutes."

Now, it's not often I invoke the power of

the press but I felt that whoever had installed the blasted system and not left a password for the purchaser should have had his neural synapses reconfigured — with a sledgehammer.

Eight minutes later, the company called me back with the password. Full marks for pulling the stops out. By this time, I'd tried "VALE", "vale" and "Vale" with no success. I'll leave you to draw your own conclusions about the name of the manufacturer. They told me that the Administrator password had been preset as "supervisor". Once there with the password, the system worked very well, and I'd have no compunction in recommending a system

put together by the same manufacturer. The machine was a PCI Pentium 90 with an Adaptec 2940, a 2Gb SCSI drive and a Toshiba SCSI CD drive, and it performed well and in a stable manner. If you're looking for an NT server, then Vale do good ones. Just make sure they tell you the password first.

The network cabling had been put together by the client's electrician. It was 10baseT, they had tested the network cabling and it all worked. The backbone was 10base2, coaxial (or cheapernet) Ethernet between four Asanté hubs, and this didn't work. A swift examination showed that each hub had a single

ID	Type	Vendor	Product	Version
0	DISK	IBM OEM	0663E12	jj
1				
2	DISK	SyQuest	SQ3270S	1_14
3	TAPE	HP	C1533A	9406
4				
5				
6				
7	CPU	APPLE	MACINTOSH IIci	\$067C

Update Mount Options...

SCSI Probe (an invaluable application) showing an HP Backup unit on the SCSI bus. (This screenshot was taken on our own machine, not the client's)

Ethernet cable going to it. The thing about Ethernet is that it's a bus system, and since it runs using wireless frequencies, you've got to be careful. The electrician had left the T-pieces in the (large) cable trunking in the wall and had added a small (about 30cm long) single extension from the T-piece to the 10base2 port on each hub. Normally, one can get away with this, but in this case it wouldn't work. I opened the trunking and removed the extensions, and managed to get three hubs to talk to one another, and to the server.

Making a trunk call

The final hub refused to acknowledge the server's presence. Not one to pussyfoot around, I dropped a 10baseT cable from the final hub down the trunking and popped it into the backbone socket of the last hub to see the server. Now everything could see the server. Since the backbone was all working, I can only suspect the 10base2 connection to the hub, or the hub's own 10base2 circuitry.

Now, all could communicate except the HP LaserJets — I did mention the LaserJets, didn't I? These were connected into the Ethernet network using 10baseT via JetDirect cards, which enabled the Macs to see them without any problems at all. I thought I'd just read the AppleTalk printers on the NT server and then share them over the network. All seemed to work.

The MD of the firm thought he'd try to print over the network to the HP printers (one was a LaserJet 4M Plus, the other a LaserJet 4MV). Well, the printer threw a page with something like the text he'd sent. The output looked as though someone had wiggled the paper from side to side while the printer was laying down the toner — I've never seen anything like it. The whole printout was blurred.

Although not really panicking, I was somewhat nonplussed. I thought I'd try using one of the other protocols installed on the JetDirect card. I thought that for starters, I'd have a go at the DLC protocol. I loaded it into the NT server, restarted the machine in order to initialise it, and used Print Manager to create a printer. It recognised both printers quite happily and I managed to share them over the network. Once again, the MD tried to print. This time, the printer produced the page without a trace of delirium tremens.

I have no idea what had happened to give this effect, but you can rest assured I'll let you know when I find out. I hasten to add that whenever the Macs printed to the printer direct (or even to the queue I had created using the AppleTalk sharing) this

problem didn't occur. There's only one thing I can say about this, and that's "weird".

Mutinous machines

The Windows for Workgroups machines — which had hitherto worked only outside a network — joined the network with few problems. There were, however, one or two recalcitrant machines. These were divided into three types of problems.

I encountered the first when two machines complained that they didn't have enough memory when Windows for Workgroups was first loaded. These machines had only 4Mb of RAM. I realised that I had set them to load both IPX/SPX and Netbeui protocols. I removed the IPX/SPX protocol and they worked perfectly.

The second group of problematic machines did not even ask for a login name or a password. I tried removing networking and adding it — again to no avail. I wondered whether these, too, had a memory shortage and removed the codepage drivers from CONFIG.SYS and AUTOEXEC.BAT. This produced no improvement at all. I re-examined the CONFIG.SYS and found nothing. I looked through the AUTOEXEC.BAT — this time thoroughly — and discovered the statement "WIN/N".

The blasted machines were loading Windows for Workgroups explicitly with no network support. Removing this switch enabled the machines to join the network just like the others, and to function normally. These machines had apparently been supplied like this, as their network cards had been installed by the manufacturer, but since there was no network available the switch had been added to make them boot Windows without asking for usernames or passwords.

The third problem was with a single machine which wouldn't browse the network. It would log in to anything you mentioned, as long as the network path was already specified — but you don't want to do that. It's far easier to browse the network and attach whatever you want (or have access to).

I finally worked out that Windows' resources had been taken up by a whole raft of odds and ends which had insinuated themselves into the "load=" line of the WIN.INI, and the machine had only 60 percent or so of available resources. Once these had been commented out, the machine was able to browse the network just like any other.

Unfortunately, these weren't the only

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Eight on a plate

Dear Stephen,

I was very interested in your article on Microsoft Office and the new Windows NT shell in *PCW* December '95. I am thinking of upgrading my WfWG to something else, but the newness of Win95 worries me and I find myself looking towards NT. This also worries me!

Can you answer a few questions, taking into consideration the fact that I will only be using MS Works, Cakewalk Home Studio, Musicware Piano, MS Visual Basic and a fair amount of comms (i.e. not much multitasking)?

1. Will NT 3.51 with the new shell run on a P75 with a Triton chipset, 16Mb EDO DRAM, 256Kb pipeline burst cache, Stealth 64 2Mb VRAM and 850Mb HD?
2. How well does it run 16-bit and MSDOS programs?
3. Does NT have a 640Kb memory limit and all those things like XMS and EMS like in WfWG?
4. Should I wait for NT 4.0 or Cairo or whatever comes next? Will it run better on my machine? When will it be out? What is it like and so on?
5. If Beta copies of Cairo are, or will be, available, how do I get one?
6. Is there a demo/Beta version of NT I can use to evaluate whether or not to upgrade?
7. Is there an upgrade option from Windows for Workgroups to NT, which will therefore be cheaper?
8. Is NT an Operating System in its own right?

Phew! I would really appreciate it if you could answer these questions, or otherwise point me in the direction of more information.

Garan Jenkin

Garan, you do ask a lot of questions! The answer to your first question is a definite "Yes". As far as the second goes, I'd respond that although NT will run DOS and Windows 16-bit programs, you should be looking towards the future rather than the past.

Most applications still in use will be upgraded to 32-bit-clean versions within the next couple of years so they can take advantage of their full speed under Windows 95. This should also make them Windows NT-compatible. There are some programs which will run under Windows 95 and 3.11 which most definitely won't run under NT. Most of these, however, involve accessing either the hardware

(like Norton's Disk Doctor) or the operating system (like the Adobe Type Manager) directly. Remember, too, that NT's security certification makes both of these actions undesirable.

The reply to number three, is: "Most definitely not!". NT is a real 32-bit operating system, and therefore the concepts of the 640K DOS area, EMS and XMS have been totally removed. It will, however, emulate EMS and XMS and the 640K limit for 16-bit programs which require them to be run in a separate virtual machine.

Your fourth is a question to which Bill Gates may know the answer. I certainly don't. As far as whether you should wait or not, remember the old computer adage that the moment you've got something home, it's out of date.

I'm afraid I'll have to pass on the next question as well. But in reply to question six: demo versions of NT abound on many magazine cover disks. Go along to your newsagent and have a look on the covers of the various computer magazines on the shelves. These are time-limited. As far as an upgrade from Windows for Workgroups is concerned, I think you won't be lucky. However, check with the Microsoft Upgrade Centre.

As far as the eighth question is concerned: you really drop a good bombshell, don't you? The answer is a resounding "most definitely, positively and absolutely". As opposed to Windows and, to a certain extent, Windows 95, NT doesn't run on top of another operating system. If it were that simple, the security aspect of the operating system would be compromised.

Finally, dealing with the applications you have mentioned (MS Works, Cakewalk Home Studio, Musicware Piano, MS Visual Basic and comms), I can guarantee that MS Works and MS Visual Basic will run. Some comms programs don't like NT because they try to gain direct access to the hardware of the port (which NT will not allow), so it may be better to turn off any hardware accessing you can and try to get the comms program to access NT's emulation of the port.

Not being a musician, I'm afraid I know nothing of the other programs and I would suggest you contact the manufacturers in order to find the answer.

problems. My clients (who also read this column) had bought a DAT drive to back up the network. I suggested they use it occasionally (whenever they had cause to change the NT system) from the server, but that they use it routinely from one of the Macs machines with a copy of Arcserve Macintosh to back up the five Macs and the NT server. So far, so good. Unfortunately, the DAT wasn't working on either the NT server or on any Mac. I thought this was a little odd, and used a copy of SCSI Probe on the Mac to see if I could contact it on the bus. It showed up. I then plugged it into the Adaptec 2940 and rebooted the server. It showed itself there, too. "Curiouser and curiouser," I thought. I opened the drive and noticed that the ribbon cable wasn't properly attached, and that there were two loose wires hanging around in the casing. Please note that this

drive hadn't been supplied by Vale — having reviewed one of their machines (in an article for our sister magazine, *PCM*) a while ago, I can't disparage their build quality. I decided that this drive had to go back to the manufacturer. It just wasn't properly put together.

While I was configuring network support for the cards I installed in the machines without cards, I noticed that Windows recognised them as NE2000s. These cards stated that they were NE2000 compatible, but for some reason they weren't. Once the correct driver for the cards had been installed from the driver disk which came with them, they worked perfectly.

The moral of this little tale is always to use the drivers which are supplied, even if the cards pretend to be NE2000 compatible.

It's a true story

Just by way of a little levity, I have subscribed to *This Is True*, a sideways look at some of the news stories published throughout the world. It is the work of Randy Cassingham and is distributed through the Internet by email. It's just the thing to brighten up these dull winter days, containing things like new ways people have found to commit crimes stupidly. Well, it makes me laugh, anyway. To receive *This Is True* every week, free by email, contact listserv@netcom.com with the message "subscribe this-is-true".

PCW Contacts

Stephen Rodda is an independent computer consultant specialising in DTP and networking. He can be contacted as the_bear@cix.compulink.co.uk

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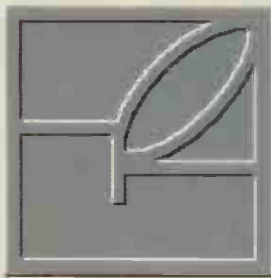
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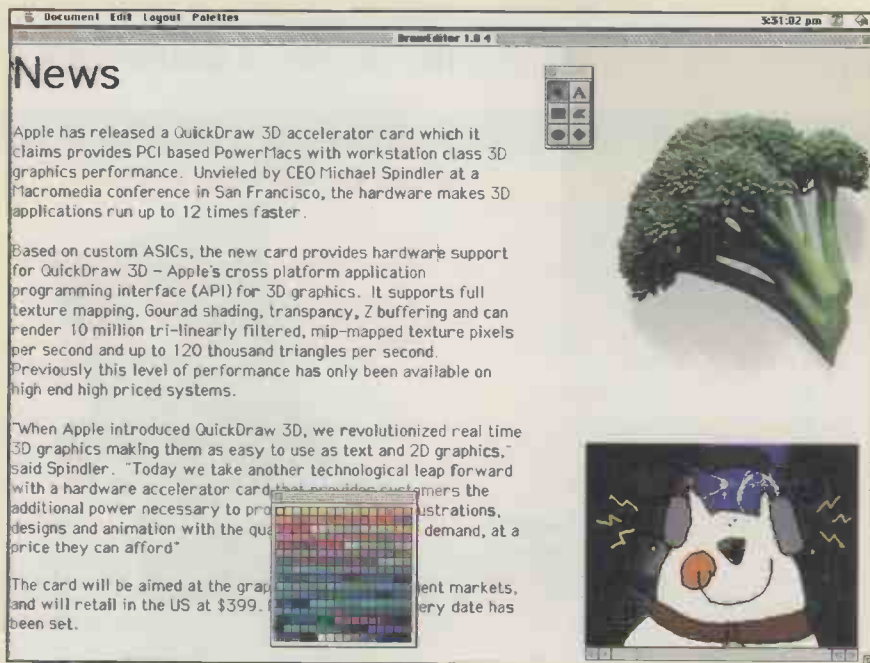
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What's up, OpenDoc?

Apple's new component software architecture could be set to reshape the way we work with Macs, PCs and other platforms. Chris Cain brings you an overview of the new system. And, use our handy quick-reference table to sort out current Apple extensions.



This example of an OpenDoc document combines graphics, text and video, each of which can be edited with its own part editor

Apple recently released the first version of its component software architecture, OpenDoc, which plays a major part in the company's future plans. OpenDoc could completely reshape the way in which we work with Macs, PCs and other platforms. In fact, it's my Utility of the Month.

OpenDoc is officially described as a multi-platform, component software architecture that enables developers to evolve applications into component software, or create new component software applications. In more simple terms, it's about breaking down today's monolithic software apps into smaller, more manageable components that can

then be mixed and matched to suit every user's needs.

At the moment, if you wanted to create, say, a newsletter containing text, graphics and spreadsheet data, you would probably edit each piece of data in a separate application and either export it as a file and import it into your main application, or cut and paste info using the clipboard. Either way, you end up loading three or four different packages and using only a subset of the tools on offer. It takes a long time and you can experience problems such as unsupported file formats and lack of memory.

With OpenDoc you have "Part Editors" instead of applications and your work is

based around documents called "Stationery". Part Editors are small sets of tools for doing jobs like editing text, manipulating pictures and so on, and Stationery files are templates for doing certain types of work. Each different type of Stationery contains links to the Part Editors used for that type of job.

To prepare the same newsletter with OpenDoc you would use a piece of stationery that has been set up with links to text editing, drawing and numeric data Editors. You'd then create your data using these and if you wanted to import a file created with something else, you'd just drag it from the desktop onto your document. If you've set up a stationery file without a certain set of tools, you just drag the appropriate Editor onto your document and they appear.

The beauty of working like this is that you use only as much RAM as you need for the job, and all tools are available whenever you want them without loading lots of individual applications. Part Editors should also be much easier to develop and maintain than larger applications, and will give small developers more of a chance to compete with large companies like Microsoft.

There will still be room for big applications in an OpenDoc world, but they will need to support embedded OpenDoc parts.

Apple's OpenDoc 1.0 contains a

Mac software extensions: Part 1

With all these software updates appearing left, right and centre, one of the most common questions I'm asked is: "What's the latest version of this Extension or that Control Panel?" To answer these questions, here's an up-to-date list of shipping Mac system software courtesy of Apple. Due to the sheer size of it, I've had to split it into two sections. Part two will appear next month.

Name	Version	Name	Version	Name	Version	Name	Version
32-Bit System Enabler	1.0.3	AppleTalk ImageWriter	7.0.1	DocViewer	1.1.1	LaserWriter GX	1.1.2
8*24 GC (Extension)	7.0.1	Apple Telecom	2.3	DOS Compatibility SW	1.0.0	LaserWriter IISC GX	1.1.1
950 Color Addition	1.0	Apple Video Player	1.3.1	Drive Flrmware Update	1.2	LaserWriter Utility	7.7
A/UX	3.0.1	AppleVision Display SW	1.0.1	Drive Setup	1.0.2	LaserWriter Select 300	1.2
A/UX	3.1	Assistant Toolbox	1.2	Duo Battery Patch	1.0	LaserWriter 300	1.2
A/ROSE	1.2.1	At Ease	3.0	Easy Access Ctrl Panel	7.2	LaserWriter 300 GX	1.1.1
ADSP	1.5.1	At Ease for Workgroups	3.0	Energy Saver	1.1	LaserWriter Select 360	1.1
Apple IIe Card SW	2.2.1d1	AudioVision (extension)	1.0.2	EtherTalk	2.5.7	LaserWrtr Select 360 Fax	1.1
Apple Backup	1.4	Auto Power On/Off	1.0	Express Modem	1.5.5	Likewise	1.0.1
Apple Color Printer	1.0	AutoRemounter	1.2	Express Modem Tool	1.5.5	LW Select 310	7.0.1
Apple DocViewer	1.1.1	AV Serial Extension	1.0	Express Modem 14400	1.0	MacApp	3.0.1
Apple Event Manager	1.0.3	AW Server 95	1.1	Express Modem CCL	1.0	MacCheck	1.0.5
Apple File Exchange	7.0	AWS 95 Tune-Up	1.0	Extension Manager	3.0	MacinTalk Pro	1.4
Apple Font Pack	1.0	Basic Color Monitor	1.0	eWorld	1.1	MacIntosh Basics	5.0
Apple HD SC Setup	7.3.5	Basic Connectivity Set	1.1.1	eWorld Web Browser	1.0.2	Macintosh Common Lisp	2.0.1
Apple Guide	2.0	Battery DA	7.1.1	Fax Extension	1.5.5	Macintosh Easy Open	1.1.1
Apple Internet Router	3.0.1	Battery Recondition	1.2	Fax Sender	1.5.5	Macintosh Quadra Extra	1.0
Apple LAN Utility	1.0b3	CD-ROM Setup	5.1.2	Fax Terminal	1.5.5	Macintosh Visca Driver	1.2
AppleLink	6.1	Chinese Language Kit	1.1.1	Fax Viewer	1.5.2	MacODA	1.0
Apple Media Tool	1.2	Chooser	7.5	Fax Cover	1.5.2	MacOSI	1.1
Apple Menu Options	1.0.2	CloseView	7.2	Font/DA Mover	4.1	MacsBug	6.5.2
Apple MIDI Manager	2.0.2	Color Picker	2.0.1	GeoPort Extension	2.1	MacSNMP Admin	1.0.2
Apple MIDI Driver	2.0.2	Color SW 2400	2.1.1	GeoPort for Power Mac	2.1	MacSNMP Client	1.0.2
Apple Modem Tool	1.5.3	Color SW 2400 GX	1.0.1	Hardware System Update	2.0.1	MacTCP	2.0.4
Apple Personal Diagnostics	1.1.3	Color SW Pro	1.5	HyperCard	2.3	MacTCP Admin	2.0.4
Apple Phone	1.0.1	ColorSync	1.0.5	HyperCard Player	2.3	MacTCP Developer's Kit	N/A
Apple Photo Access	2.0	CPU Energy Saver	1.0.6	HyperScan	2.0	MacTCP Token Ring Ext.	2.0.4
Apple Printer Utility	2.0	Curare	1.0	ImageWriter	7.0.1	MacTerminal	3.0
Apple Remote Access	2.0.1	DAL Software	N/A	ImageWriter GX	1.1.1	MacX	1.5
AppleScript	1.1	DART	1.5.3	ImageWriter LQ GX	1.1.1	MacX.400	1.0
AppleSearch Client	1.5	Desktop Printer Ext.	1.0.3	Installer	4.0.3	MacX25	1.2
AppleSearch Server	1.5	Desktop PrintMonitor	1.0.3	Inter*Poll	1.0.1	MIDI Manager Extension	2.0.2
AppleShare File Server	4.1	Desktop Printer Spooler	1.0.3	Internal HD Format	1.3	MountImage	1.2
AppleShare Print Server	4.0.2	Disk Copy	4.2	Japanese Language Kit	1.2	Mouse Basics	4.5
Apple Shared Lib. Mgr.	1.1.2	Disk First Aid	7.2.1	LaserWriter	7.2	MoviePlayer	2.1
AppleTalk	v.58.1.5	Display Enabler1	2	LaserWriter 8	8.3.2		

Control Panel for setting up associations between Editors and different types of data, a few sample Stationery files and some very simple Editors to accompany them. I've been putting these through their paces over the past few weeks and have successfully managed to build a document using this method. Although it's difficult at the start, once you get into it everything begins to make sense.

If you want to see for yourself what OpenDoc is all about, you can download it from Apple's World Wide Web support sites.

Tree surgery

There's good and bad news regarding software updates for anyone using Speed

Surprise Surprise

Apple engineers are renowned for hiding messages and other goodies in their hardware and software, and waiting to see who discovers them. I have found a particularly nice one hidden inside the new PCI Macs. To access it you first need to load Apple's Notepad program, then type in the words Secret About Box. Once you've done this, select the words with the cursor and drag them onto the desktop. The result is an impressive, and marginally interactive, graphical flag combined with a scrolling list of the System 7.5.2 programmers. Dragging with the "p" key held down produces a different result — see for yourself.



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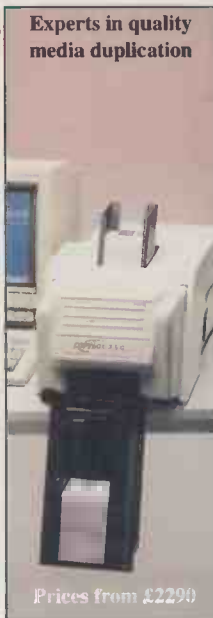
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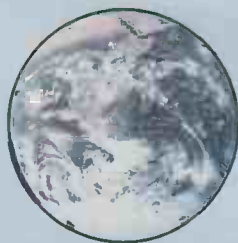
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Havoc uses QuickDraw 3D to create realistic landscapes. The action is smooth on a PowerMac and the graphics can be further improved with Apple's 3D acceleration board

Doubler from Connectix. Currently at version 1.0.2, this popular program is due for another tweak soon, following reports that the Speed Access extension, which improves hard disk performance, can cause problems.

It appears that under certain conditions Speed Access can cause errors, known as b-tree errors, to appear in the hard disk directory structure. Apparently this only happens after a rare set of system calls have been used, but enough people have complained about it to warrant an update.

Version 1.1, which fixes these errors, should be available by the time you read this and an updater for old master disks can be obtained from the Connectix software support site on the Internet.

Connectix strongly recommends that all users upgrade, even if they haven't experienced any problems, and new floppies will be sent out to all registered users. The company additionally suggests running a disk utility, such as Apple's Disk First Aid or Norton Disk Doctor, to clear any b-tree problems before installing the new version.

Other items included in Speed Doubler 1.1 are improved compatibility with Microsoft Excel 4.0, Apple PowerPC upgrade cards and future versions of System software. It will also now work with Premise 2.1 (from West Publishing) too, and provides high speed serial transfers using Speed Emulator.

Dogfights cat

I have been spoiled for choice this month when it comes to new entertainment software, with the arrival of several good titles including a demo of the first to use QuickDraw 3D.

First into my CD-ROM drive was the Mac conversion of the best-selling PC title,

Wing Commander III — Heart of the Tiger. This space age adventure continues the story of man's battle for survival against the Kilrathi, a cat-like warrior race. It features 3D graphic dogfights and uses real actors to play the parts of the characters in the game. As hero, your alter ego is played by Mark Hamill (perhaps best known in his role as Luke Skywalker). Other actors helping to save the galaxy include Ginger Lynn Allen and Malcolm McDowell. Wing Commander III has a good mix of non-interactive video footage and realtime blasting, and the musical score is pretty good, too.

For those who want even more hands-on gaming, Havoc and Shockwave look like the answer. Both are hardcore 3D shoot-'em-ups and Havoc uses QuickDraw 3D to generate fully texture-mapped, smooth-scrolling landscapes. Demos of these titles are downloadable from various Web sites, but be warned: they come in at around 7Mb each.

PCW Contacts

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Apple Computers 0181 569 1199
Apple's OpenDoc Website is at <http://www.opendoc.apple.com>
Speed Doubler information and updates can be downloaded from the Connectix support site at <http://www.pcworld.com/connectix/techsupp.html>
Games demos are downloadable from <http://rampages.onramp.net/~stevent/games.html>



Any questions?

Q I own a Compaq Prolinea Net 1/25S which has two ISA expansion slots and no spare drive bays. Expansion slots contain modem and sound cards. I need to be able to add a CD-ROM; speed is not too important. Can I use the parallel port to connect an external CD-ROM and still use my printer on this port? I have been given conflicting views on this subject.

Rob Baker

It is possible to connect an external CD-ROM drive to a parallel printer port and it sounds like a good solution to your problem.

Almost every gadget you plug into a parallel port claims to work with your printer at the same time, but success isn't guaranteed. In particular, parallel port devices and especially software protection "dongles" make use of some of the optional lines on the Centronics interface standard. This is fine as long as your printer doesn't need them.

Parallel port drives often work with your printer by having an output port on the back which appears to the printer to be the same as the port on the computer. The computer can talk to the drive through the printer port using a code on the interface to tell the drive that the data is for its attention.

If the drive doesn't recognise the code it will assume that it is data for the printer and pass it on via its output port. This process is called daisy chaining as it allows (in theory) any number of devices to be connected nose to tail, as long as they each have different recognition codes.

If you find you can't get away with daisy chaining in this way, you can always buy a selector switch. This is a simple box with an input port, two or more output ports and a knob. You plug the computer into the input port and all your parallel devices into the outputs. The knob is used to select which output is currently active and takes the form of a mechanical switch — no chance of incompatibility here! You could, of course, simply swap leads but this tends to result in

annoyance and connector damage after a while.

Unfortunately, using these arrangements, you will have to re-boot the machine to get the CD-ROM drive working if it wasn't selected to begin with.

Another solution would be to connect the printer to a serial port. If your printer doesn't have a serial interface you can buy an adaptor. Serial printer connections are, however, generally slower than parallel ones — whether this has any impact depends on the speed of the printer mechanism and the type of printing you do.

You could consider changing your sound board for one with a CD-ROM, or preferably SCSI, interface. A card like the Creative Labs SoundBlaster-16 SCSI could be just what you need if you're cramped for expansion. It can control up to seven external devices of varying types including CD-ROMs, CD-writers, scanners and fast hard disks. SCSI peripherals tend to cost a little more but they are very flexible.

CD-ROM drive swap

My hard disk is drive C: and my CD-ROM drive is D:. I want to fit a second hard disk as drive D:. How can I change the CD-ROM drive to E: ? I have DOS 6.0 and Windows 3.1.

J Dawson, Prestwick

This isn't actually a problem. The CD-ROM system (MSCDEX) assigns the CD-ROM letters to the drives it finds, starting with the next one available. By the time MSCDEX is loaded in your AUTOEXEC.BAT file, the system BIOS will already have allocated the letters to the hard drive partitions it has found — in your case C: and D:. The next drive will

always be E:.

However, if you wanted to keep your CD-ROM at D: and make your second hard drive E: you would be asking a much tougher question. You can use the /L parameter in MSCDEX, and to force it you use a particular drive letter rather than the default, but you can't force it to displace a letter which is already in use.

Changing the subject slightly, it's a good idea to tell MSCDEX to start allocating drive letters, leaving a gap after your last hard disk. This means that if you ever add or remove hard disks your CD-ROM drive will keep the same letter, which should prevent the software which uses it from becoming confused.

System update

As we move into a new era with Windows 95 I read the inevitable in PCW: new software really needs a bigger machine than ever before. The packages that make up suites like Microsoft Office now take up vast amounts of space but if you need compatibility with business systems you need to keep up.

Back in 1991 I bought a Tandon 386SX 20MHz PC with 4Mb of RAM and a 40Mb hard disk. I've since added another 110Mb drive with disk compression and 6Mb of RAM. The result is okay but not exactly fast.

I'm considering swapping the two disks for a single 500Mb drive without compression as a way of improving performance. Is this the most cost-effective improvement I could make?

I could also take the RAM up to 16Mb but is this all going to be a waste of time? It certainly saves a lot of money compared to changing the entire machine at a cost of £2,000.

Philip Sarell, London

Frank's Bargain Basement

I'm frequently asked for my opinion, by various trusting souls, on some item or other seen in a catalogue or advertisement. Sometimes these items are bargains, often they are a nice idea with a disappointing implementation, and occasionally they are complete rubbish.

Each month, I hope to feature one of these items: something to avoid, something fun, something to solve a common problem, or something offering exceptional value such as the Panasonic 562B CD-ROM drive.

This unit, also known as the Creative 563, has been around since 1993. Okay, you guessed it; this means it's only double-speed rather than quad. True, but it's still got a lot going for it.

For a start it has a Panasonic interface of the type commonly found on SoundBlaster boards, including the original SoundBlaster Pro, 16, 16-Pro, AWE and loads of compatibles. This makes the interfaces cheap and plentiful.

"Ah," you may say, "most CD-ROM drives are IDE interfaced now and I've got an IDE on my machine." This may well be the case but unless it's a new machine with E-IDE, getting an IDE CD-ROM connected tends to involve incompatibilities, aggravation and cash. The SoundBlaster/562 combination was designed to work with machines built in the early 1990s, so it does work. It has also been around for a long time in large numbers — everything from OS/2 to Windows 95 knows about it. Will everything recognise this month's state-of-the-art combination?

So what about double-speed against quad-speed? Actually, most of the time spent accessing a CD-ROM is in finding the right place on the disk. The double vs quad-speed refers only to the transfer rate once the information has been found. With many applications you will hardly notice the difference and double-speed is the MPC2 standard for video.

The last few 562/3 drives are being sold off at around £50 now. You could pay £100 for a cheap IDE, but I think a tried and trusted, compatible double-speed at this price is a bargain.

● I intend to make Frank's Bargain Basement a regular feature of this column. This will deal with items (average price of around £75) of the type which readers often ask me about. For example: expansion cards (all types), driver software, end-of-line bargains and useful tools and gadgets. Next month I hope to cover the fun and games in the low-cost modem market and/or supply problems with 15in monitors.



The old Panasonic 562 drive is well matched to older PCs

I hesitate to jump on the bandwagon of old computer systems being updated for the sake of it. After all, if something worked when it installed, why risk changing it for something which might not. This applies to big systems as well as PCs. However, as you say, a need to be compatible with other people's software means you don't always have a choice in the matter.

It's a common misconception that the latest processor with the highest number of MHz as a suffix will be the best performer — a 386 machine with plenty of RAM can easily outperform a Pentium with 4Mb when running RAM-hungry software like OS/2 or Windows 95.

With 10Mb of RAM your system is probably not deficient in this area but a faster hard disk wouldn't hurt at all. You could use the new hard disk in a future replacement machine so the money wouldn't be wasted.

To keep up with the march of progress, if it can be called progress, you'll need to consider a Pentium-75 motherboard with 16Mb of RAM when you change to Windows 95. A P75 may

not be strictly necessary from a speed point of view but the enhanced input-output facilities of a modern motherboard are. Enhanced-IDE (with accompanying BIOS), PCI expansion slots, buffered serial ports and efficient memory cache systems count for a lot.

Personally I'm sticking with my 486SX-25 VESA bus machine with 8Mb of RAM for as long as I can get away with it. In effect this means: as long as I can get away without Windows 95.

Graphics speed-up

While playing a demo from a free cover disk CD I realised that I had to make my PC faster in the graphics department.

I have an Oak 77 1Mb card on my 486DX2/66. Anything runs fine in VGA but if I try SVGA the card is either incompatible or terribly slow. I would like to know whether a new 2Mb card would significantly improve the performance of my PC. If so, could you suggest a good VESA one for less than £140?

The trouble is that if I buy a new VESA video card it will not be compatible with a Pentium PCI motherboard when I

upgrade. I have seen the triple bus motherboards but I am not sure whether they will continue to be popular.

Phil Garner, Harpenden

You can easily end up spending silly money on fancy graphics boards with greased-whippet acceleration modes. In my experience it just isn't worth it for most applications. Nevertheless, a graphics board with something extra in the speed department can make a cost-effective difference to overall performance.

The big problem with high-end graphics boards is the software drivers: it may well come with a driver disk for your current needs, but what about Windows 96? Even if the drivers are there, a disproportionate number of mysterious Windows crashes can be eliminated by using the standard Microsoft VGA driver instead of the accelerated item supplied.

Personally, I'd prefer anything with a good price/performance ratio and industry-wide acceptance over those costing twice as much with a 20 percent speed-up.

My favourite VESA card has a Cirrus Logic 5428/9 chipset and costs around £60. It outperforms rivals costing three times as much and has been around for two years now. This means that most operating systems and games ship with drivers for it, as standard — and they work! The Tseng ET4000 and the S3 chipsets are well supported too, and are good performers.

Apart from the implications of switching from VESA to PCI in the future, there is another good reason for not spending vast sums of cash on a graphics card at present: a new standard is coming — VMC (VESA Media Channel). This is a bus system which allows sound cards, M-PEG decoders, video boards and suchlike to talk to each other without having to route through the processor. Technically it looks good, although it might put Intel's nose out of joint as a better alternative to motherboard-bound PCI.

PCW Contacts

Frank Leonhardt is an independent computer boffin who can sometimes be contacted on 0181 429 3047 or via email as frank@dircon.co.uk or leo2@cix.clink.co.uk. Letters may be sent to PCW at VNU House, 32-34 Broadwick Street, London W1A 2HG, but individual replies are not normally possible. Please do not ask about cover disks or CD-ROMs.



Pica printer

Should you choose a laser or an inkjet printer? Eleanor Turton-Hill explains the technology, the pros and cons of each, as well as other things you should consider before making your decision.

Buying a printer is not a simple business these days. Even on a small budget of around £300, there's a whole range of products from which to choose. Here, I've provided an overview of what's available on the market, as well as explaining the pros and cons of different printer technologies.

Laser or inkjet?

The first thing you need to decide is whether you want a laser or an inkjet printer.

Laser printers produce much better quality black and white documents than inkjets, and they churn them out much faster. And laser printers are designed more for the long haul — that is, they turn out more pages per month, at a lower cost per page, than inkjets. So if you need an office workhorse, the laser printer may be your best option. Another consideration, which is important to offices, is the handling of envelopes, card and other non-regular media, and laser printers tend to score far higher on this front than do inkjets.

Nevertheless, inkjets have one massive attraction over lasers: they produce colour more economically than laser printers — and that's what makes them so popular among home users. Inkjet printers are much smaller and cheaper than lasers, and they produce better quality output than the dot matrix. Research in inkjet technology is making continual

advances, with each new product on the market showing improvements in performance, usability, and output quality.

The down side is that while inkjets are generally cheaper to buy than lasers, they are more expensive to maintain. Cartridges need to be changed more frequently, and special coated paper, which produces a better quality output, is expensive. Nevertheless, unless you're printing in large amounts, you may well find that a colour inkjet printer is the best solution for you. Colour inkjets are in many ways more versatile than mono-lasers and so become a much more attractive package.

If your budget stretches to the £500

mark it may be worth considering buying one of each. You can get hold of a decent colour inkjet now for about £200, and the cheapest lasers start at about £280.

CMYK

Colour is rapidly becoming a standard function for inkjets. There are still a few monochrome inkjet printers on the market, but most of the new models which have appeared during the past year offer colour functionality. Most inkjets these days are able to print in both colour and black and white, but the way they switch between the two modes varies.

The basic design is determined by the



A printer like this LaserJet 5P from Hewlett-Packard will give good-quality output at workhorse rate

number of inks in the machine. Printers containing four colours — cyan, yellow, magenta, and black (CMYK) — can switch between black and white text and colour images on the same page with no problem. Printers equipped with only three colours can't.

Many of the cheaper inkjet models have room for only one cartridge. You can set them up with a black ink cartridge for monochrome printing, or with a three-colour cartridge (CMY) for colour printing; but you can't set them up for both at the same time.

This makes a big difference to the operation of the printer because each time you want to change from black and white to colour, you must physically swap the cartridge. When you use black on a colour page it will be made up of the three colours, which tends to result in an unsatisfactory dark green or grey colour, usually referred to as composite black. If you can afford it, it's well worth spending a little extra money on a four-colour model.

Quality of output

The quality of output from colour inkjet printers ranges from poor (with dull colours and visible banding) to excellent, approaching photographic quality. The quality of results from an inkjet is heavily affected by the paper quality being used. The way inkjets fire ink directly at the paper means that poor quality, absorbent paper leads to visible feathering of characters. High-resolution paper, or glossy paper, produces much brighter colours and crisper edges on graphic and photographic images.

Where chemistry comes in

One of the major goals of inkjet manufacturers is to develop the ability to print on almost any medium. The secret to this is ink chemistry, a subject closely guarded by most inkjet manufacturers. Hewlett-Packard, Canon, and Epson, to name but three, invest large amounts of money in research and are making continual improvements in ink pigments, lightfastness and waterfastness, and suitability for printing on a wide variety of media. These advances in ink technology are bound to find their way to the desktop over the next few years.

Laser printers are not affected by paper quality to the same extent as inkjets. In the case of the former, the major influence on quality is the resolution capability of your printer. Until recently, 300dpi (dots per inch) was about the best you could expect from an office printer, but now the market is littered with 600dpi printers. These will

How do colour laser printers work?

Laser technology gives much better quality colour results than inkjet, but laser printers are more expensive to make; consequently, colour lasers have not hit the mass-market in anything like the same way. Most colour lasers are massive pieces of equipment (about the size of a deep-freeze) and cost several thousands of pounds, which restricts their market to large, corporate organisations and medium-sized businesses.

The printing process in a laser is far more complex than that of an inkjet, which accounts for its high production cost. A colour laser is essentially four monochrome printers in one box. The problem with colour printing is how to get four different colours of toner onto the same piece of paper. Dye sublimation, thermal wax and some inkjet printers run the paper through four times but this is not practical in a laser printer: the heat would cause problems with many types of paper and transparency; and everyone is used to laser printers using ordinary copier paper.

In some colour lasers, the drum goes around four times; first the yellow is put onto the drum, then the cyan, then the magenta and finally the black. By using toner with different properties it is possible to put one on top of the other. The end result is the entire image, on the drum, which can then be transferred to the paper and fused with heat.

The problem with doing things this way is that the black toner, the last one to be applied, has to be attracted through three layers of existing toner. The electrostatic charge on the drum is not strong enough to do this through solid toner so the colours are dithered and a gap is left in areas of colour to leave room for the next layer of toner.

To get round this problem, some colour lasers use an offset process. The toner is rendered onto an electrostatic belt made of mylar plastic which has the same properties as the drum. The colour is then transferred to a second drum which goes around again for the next colour. Because the belt is cleaned each time, and because there is only ever one layer of toner to be attracted to the belt, the colours are better with this system, but it needs more moving parts, is thus more complicated, and so will wear faster.

A few years ago a colour laser would cost you well over £10,000. Technological advances have brought the colour laser down to about £5,000 which has no doubt widened its market, but unfortunately it is still way beyond the pocket of most small businesses and individuals. Continual research into the printing process may bring about an affordable colour laser in the future, but it is often argued that the restrictions inherent in the laser printer process will make it impossible to reduce the cost or size of the machine.

produce significantly better results, particularly when printing scanned images or graphics. At 600dpi, four times the number of dots are produced per inch of paper, resulting in a smoother tone gradation and a final image which looks pretty much like a black and white photograph.

Laser printers are not fully media-independent, and the quality of paper you use will affect the output to some extent. The jagged edges of unenhanced 300dpi print are visible when using ordinary copier-grade bond paper. At 600dpi or enhanced 300dpi the quality improves, but a resolution any higher than this will not be noticed unless you invest in a better quality paper.

Using poor quality paper in laser printers has other side effects. The drum inside the printer can become scratched, rapidly wearing out the surface and leading to deterioration in print quality and, inevitably, replacement of the drum. It is important to follow the manual's guidelines on paper quality and weight which is usually recommended as 75gsm copier paper at about £2.50 for 500 sheets. Higher

quality paper at 80 or 90gsm costs more than twice this amount for a smoother print.

The way paper is stored is important too, as extreme heat or humidity can affect the way it feeds through the printer. Curled or damp paper soon causes paper jams and seizes up the system.

If you do a lot of printing on heavy-weight paper or card, take note of the way the paper passes through the printer. The normal paper path involves turning the sheet through an S-shaped bend, but many lasers include a straight-through path which prevents the paper from curling as it travels through the machine. Others additionally provide an envelope feeder which will allow you to stack and feed multiple envelopes so you don't have to manually feed them as single items.

PCW Contacts

Eleanor Turton-Hill welcomes any feedback and suggestions from readers. She is on ellie@pcw.cmail.compuserve.com



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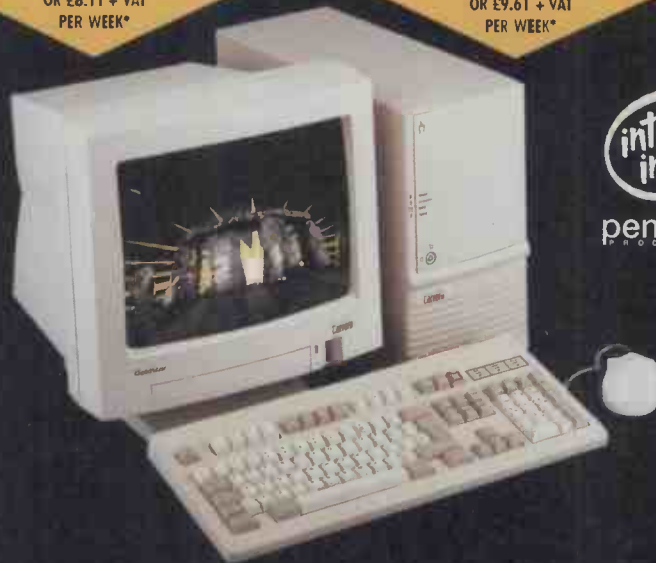
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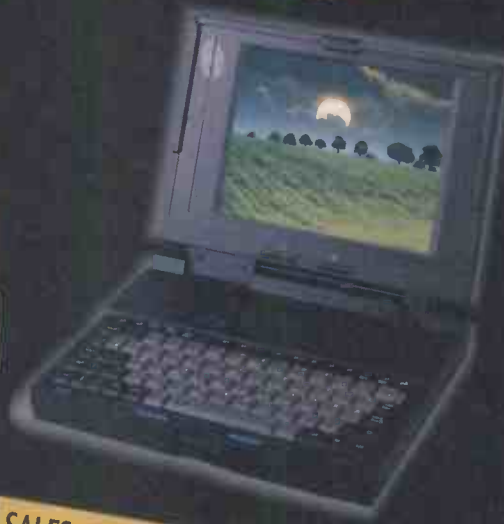
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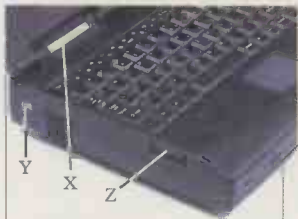
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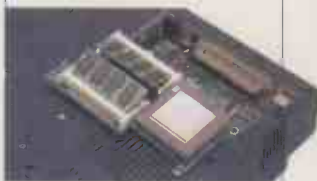
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		AJP 7500 4 MB RAM 340 MB HDD RAM upgradable to 36 MB		AJP 7600 8 MB RAM 340 MB HDD RAM upgradable to 40 MB	
		7599 486DX4-100	7675 Pentium® 75 chip	7690 Pentium® 90 chip	76120 Pentium® 120 chip
M	Mono VGA (9.5")	£ 849	-	-	-
D	Dual Scan Colour (10.3")	£ 1049	£ 1325	£ 1375	£ 1475
T	TFT Active Colour (10.2")	-	£ 1599	£ 1649	£ 1749

- Intel processor • Built-in 3.5" FDD • 1MB 32 bit VLB video RAM • PCMCIA slot (type III or 2 x type II) • 16 bit built-in sound card/microphone/speakers
- Large 19mm trackerball
- NiMH battery pack (NiCad for mono) • AC adaptor
- HDD upgradable to 1.2 GB
- Carrying case • Weight: 3 kg
- Size: 282mm (W) x 232mm (D) x 53mm (H)

- RAM upgrade per MB.....£35.00
- MS DOS 6.2 & Windows 3.11.....£79.00
- MS Windows 95.....£79.00
- Upgrade HDD from 340 to 510 MB...*£95.00
- Upgrade HDD from 340 to 810 MB...*£249.00
- Upgrade HDD from 340 to 1.2 GB...*£449.00
- Upgrade HDD from 510 to 810 MB...*£149.00

- Upgrade HDD from 510 to 1.2 GB...*£329.00
- Additional 340 MB HDD.....£149.00
- Additional 510 MB HDD.....£249.00
- Additional 810 MB HDD.....£349.00
- Additional 1.2 GB HDD.....£499.00
- HDD housing kit (for all models).....£39.00
- PCMCIA ethernet adaptor.....£125.00

- PCMCIA fax/modem (14,400).....£165.00
- PCMCIA fax/modem (28,800).....£195.00
- PCMCIA CD-ROM drive (2x speed).....£295.00
- Parallel port CD-ROM drive (4x speed).....£295.00
- Docking station (7500/7600 series).....£319.00
- Docking station (5400 series).....£195.00

- NiMH battery (for all models).....£95.00
 - NiMH heavy duty battery (5400 series only).....£125.00
 - Additional external AC adaptor (for all models).....£55.00
 - Car adaptor (7500/7600 series).....£45.00
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Tel: 0181-452 9090 Fax: 0181-450 6360

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£695 +VAT
TOTAL COST **£816.62**

<p>Processor 486DX2/50Mhz with 260Mb Hard disk</p> <p>Memory 4Mb RAM standard expandable to 8 or 12Mb</p> <p>Power and Storage Options External disk drive, AC adaptor, battery and Slip Case included</p> <p>Screen 7.8" colour STN backlighting display 180° tilt</p> <p>Operating Software MS-DOS 6.2, Windows 3.11 pre-installed MS Best entertainment, Interlink Cable & Lap Link software</p>	<p>Warranty 12 months Fujitsu/ICL/Gultronics</p> <p>Dimensions and Weight H42 x W258 x D204mm Weight 2.1Kg inc. battery</p> <p>Total Connectivity Via Infra red link & PCMCIA slot 2 x Type II or III</p> <p>Ports Parallel, Serial, external video and keyboard</p> <p>Options Memory, PCMCIA devices, Desktop IR connector kit etc!</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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- ➔ Fan & Stand

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& Built-In 5.25" CD Rom & TFT Tablet

486DX4-100Mhz	£2549.00
Pentium - 75Mhz	£2799.00
Pentium - 90Mhz	£2949.00

PROJECTOR TABLET & PORTABLE TFT COMPUTER



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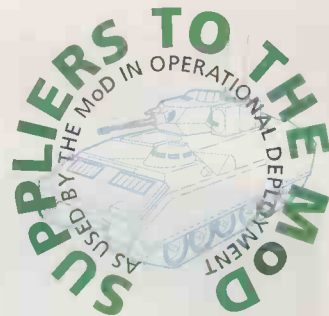
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THE MEDIAPRO

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BENEFITS OF THE MEDIAPRO

- Upgradeable 486 or Pentium processor socket & CPU Options
- 256K External Cache
- Upgradeable 5.25" Built-In Dual Speed CD ROM Drive
- Trackpoint (easier to use than trackball - no cleaning required)
- Two Built-In speakers, Built-In microphone
- 16 Bit Sound blaster compatible card
- VESA 32 Bit Local Bus, 1Mb graphics card
- Removeable, upgradeable and easily interchangeable Hard Disk
- 4Mb Expandable to 64Mb RAM
- 1xType III or 2xType II PCMCIA Slots
- 3.5" (1.44Mb) Floppy Disk Drive
- Upgradeable Dual Scan (10.4"), TFT (10.4") Screen options
- External Keyboard Port and SVGA Monitor Port

- 2 Serial/1 Parallel Port/1 Midi/Joystick Port
- NiMH Battery 16 cell with special RTG feature for extra life
- Autoswitching Mains Battery Charger → Carry Case with accessory pockets
- External microphone and speaker ports
- MPEG live video option → Full Three Year Support plan

VIDEO MPEG OPTION

This option for live video film integrates the MPEG I decoder for video CD and CD-I, making it a perfect partner for education, entertainment and practical programs. (Available for Showman Notebook) - £299.

TV TUNER OPTION

Keep up with current affairs with this TV Tuner option and capture still images from a video camera to your notebook with this module. (Available for Showman Notebook) - £149.

Includes 510Mb Hard Disk, 4Mb Ram & CD ROM

Processor	Dual Scan	TFT
486DX4-100Mhz	£1399	£1749
Pentium-75Mhz	£1489	£1839
Pentium-90Mhz	£1549	£1899
Pentium-100Mhz	£1799	£2099
Pentium-120Mhz	£1999	£2299

ACCESSORIES AND UPGRADES

Upgrade per 4Mb RAM	£160
Upgrade to 16Mb Ram	£450
Lotus Smartsuite V.3	£349
Upgrade to 810Mb Hard Disk	£179
Upgrade to 1Gb Hard Disk	£399



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ELITE PRO



ELITEPRO SPECIFICATIONS:

- 486 Upgradeable Processor Socket
- V.2 PCMCIA Slot
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- 3.5" (1.44Mb) Internal Floppy Disk Drive
- Award Winning Toshiba Display Mono/Dual Scan/TFT
- 4Mb Expandable to 16Mb RAM
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- External SVGA Monitor & Keyboard Port
- Simultaneous Display (excl. Dual Scan)
- Three Year Support Plan



Includes 510Mb HDD & 4Mb Ram

Processor	Mono	Dual Scan	TFT
486DX2-66	£729	£1029	£1329

Upgrade Options

Ram per 4Mb	£160
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SHOWMAN D SPECIFICATIONS:

- TFT OHP screen and tablet
- 4Mb Ram expandable to 32Mb
- Built-In sound card, speakers & Microphone, 128K Flash Rom.
- 3.5" (1.44Mb) floppy disk drive
- 32 bit Vesa Local Bus, 1Mb graphics
- Built-In Trackball

Includes 510Mb HDD & 4Mb Ram

Processor	TFT
486DX4-100MHz	£1799

- Serial and Parallel ports
- 2 x Type II PCMCIA or 1 x Type III
- 510Mb Hard disk drive - removeable
- External keyboard port & SVGA port
- Auto-Switching mains battery charger
- Carry briefcase with accessory pockets
- Full three year support plan
- Fan and stand, MS DOS 6.22, Windows 3.11 and Lotus Smartsuite preloaded.

The Showman D-Series will give you all the power of portability with the ability to project images through an overhead projector. Enhancing your presentations while expanding your mobility.

SHOWMAN D

In-Built Overhead Projector Tablet



EXPLORA™



INTEGRATED ALL-IN-ONE MULTI-MEDIA TV COMPUTER

Offering the space and installation advantages of a one-piece computer

EXPLORA SPECIFICATIONS:

- Intel Pentium 75, 90 or 120Mhz processor
- 8Mb Ram upgradeable to 128Mb
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- 64 Bit PCI graphics card, 1Mb/2Mb
- Built-In 15" non-interlaced SVGA monitor
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- 16 Bit Built-In sound card, speakers
- Dimensions only 14.2" x 14.8" x 16.9"
- EPA power management
- Mouse and keyboard
- Microsoft Windows 95
- Three year support plan

8MB RAM & 800MB HDD

Pentium 75MHz	£1259
Pentium 90MHz	£1349
Pentium 100MHz	£1399
Pentium 120MHz	£1479

ACCESSORIES AND UPGRADES

TV Tuner & TV remote Software	£189
MPEG Controller card	£149
28:800 internal Fax/Modem	£159
Hi-Fi software drivers	£19
Dos 6.22 & Win 3.11	£65
Ram per 4Mb	£80

Call for other specifications & software bundles



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PRESENTATION

PCMCIA & portable options



MAXIMISE THE POTENTIAL OF YOUR NOTEBOOK



OHP TABLET

640x480 Overhead projector tablet for professional group presentations.

Perfect for projecting your company's corporate image.




OHP PROJECTOR

The 3M 9800 high lumen series will make your presentations come alive with greater colour saturation and unsurpassed image definition for all presentations that demand brilliant performance.




EMP 3000 SERIES

Multi-media LCD projector combining portability, remote control and video data input that projects exceptionally high contrast images.




PCMCIA DUAL SPEED CD ROM

This portable dual speed CD Rom will allow you to join the multi-media revolution and to access new games, CDs and educational software.




FAX/MODEM 14:400

Enhance your portable with the PCMCIA fax communication solution. Send and receive faxes and access the Web (Internet).




CELLULAR TELEPHONE

The Nokia cellular data card gives you the opportunity to keep in touch with E-Mail and fax messages - Your office on the road.



PORTABLE SCANNER

A portable colour scanner that requires no power, the perfect notebook accessory.



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A state-of-the-art remote pointing system for the presenter and educator.



NOTEBOOK PC-TV ADAPTOR

Full feature computer to TV signal conversion box for the notebook to television.

- ### PCMCIA
- ➔ Dual speed CD Rom **£189**
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 - ➔ SCSI card **£185**
 - ➔ Ethernet, network card **£119**
 - ➔ Ethernet Combo card **£149**
 - ➔ Cellular Nokia card **£429**
 - ➔ Join the Internet **£20**

- ### PRESENTATION
- ➔ 3M OHP 640:480 Tablet **£1999**
 - ➔ ASK OHP 640:480 Tablet **£2299**
 - ➔ EMP 3000 LCD projector **£6999**
 - ➔ Overhead projector 3M 9800 **£749**
 - ➔ Pointing device **£69**
 - ➔ Overhead Projector screen **£129**
 - ➔ External keyboard **£25**
 - ➔ Portable colour scanner **£299**
 - ➔ External 14" monitor **£155**

- ### ACCESSORIES
- ➔ Notebooks 4Mb Ram upgrade **£160**
 - ➔ Additional 510Mb hard disk **£199**
 - ➔ External speakers **£25**
 - ➔ Card Wizard **£75**
 - ➔ Cannon BJ30 **£139**
 - ➔ PC-TV adaptor **£159**
 - ➔ Encarta '96 **£45**
 - ➔ Additional carry case **£29**
 - ➔ 14:400 fax/modem with voice **£95**



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INTEL 75MHZ PENTIUM PROCESSOR 4MB VIDEO MEMORY

EXPANDABLE 3 ISA AND 4 PCI SLOTS 8MB RAM ENHANCED IDE

1GB HARD DISK INTEGRATED PCI LOCAL BUS ARCHITECTURE 256KB CACHE

14" COLOUR SVGA MONITOR 16-BIT STEREO SOUND CARD WITH SPEAKERS QUAD SPEED CD-ROM

MULTIMEDIA MICROSOFT WINDOWS 95



With Multimedia
£949

Without Multimedia: £849

DX4-100 option with Multimedia
£699

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DX4-100 option - as above except 4MB RAM, 850MB hard disk, 32 bit VESA local bus architecture, expandable 4 ISA and 3 VESA slots.

All machines come with free Windows '95 or DOS- Windows, mouse, technical support, a free selection of software, CD titles*, and 12 months return-to-base warranty. On-site warranty £49.

With features and options you'd normally associate with much more expensive PCs, Mitac offers a complete system of unequalled price/performance.

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SVGA, WAVE, 11.8", MPEG, CD-V!

What on earth is all this? All these letters is our way of telling you that the Accura Portable+ Notebook has lots and lots of features, enough to make it the most comprehensively appointed notebook on the market.

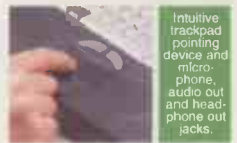
Whereas the 486 version is not quite as all singing and dancing, the Pentium version has the largest TFT LCD panel currently available at 11.8" and with SVGA 800 x 600 resolution. Being able to display 65,000 colours, your corporate multimedia presentation never looked better.

A full 30fps CD-Video presentation can be made using the optional built CD-ROM with glorious stereo sound using the software MPEG capabilities of the Pentium Portable+. Now that will impress your customer! No more flicking through colour transparencies, let your Accura Portable+ do the work for you.

133mhz The portable plus Pentium is now available with a 133mhz CPU for those with performance as the paramount request. No excuses now for not replacing that desktop with a Portable+!

0% Adams has a new Personal Finance package to offer on certain portables. Buy now and pay in Summer 1996. APR equiv 0%. Written details available.

Call Adams sales on 0161 877 8822 to find out more about the right notebook to suit you and your budget!



Intuitive trackpad pointing device and microphone, audio out and headphone out jacks.



Optional secondary battery fits in FDD slot



Optional CD-ROM installed in



Quick removable hard drive.



PC Card type III slot



Port replicator allows permanent connection of peripheral devices.

Accura Portable+

Pricing and personal finance

Model	Dual Scan SVGA 11.3"	TFT Active SVGA 10.4"	TFT Active SVGA 11.8"
486DX2-66	£1399	£1699	N/A
486DX4-100	£1449	£1749	N/A
Pentium® 75	£1849	N/A	£2399
Pentium® 100	£1949	N/A	£2549
Pentium® 120	£2049	N/A	£2649
Pentium® 133	£2199	N/A	£2799

Finance example

Pentium 75,
11.3 SVGA DSTN

Cash price £1849 + Carr £15 + VAT
Total price inc VAT £2186.68
Deposit 15%, £331, pay the balance of £1858.68 in six months time.
Subject to status, written details available.

Initialled!

Accura Portable+

Pentium® features

- Pentium® 75/100/120 or 133mhz CPU's, with 256k cache
- PCI local bus with 64 bit memory addressing
- 8mb standard memory upgradeable to 32mb
- Quick removable 540mb 2.5" enhanced IDE PCI local bus hard drive upgradeable to 1.2gb
- 11.3" SVGA DSTN LCD, and 11.8" TFT VGA LCD (65,000 colours) both with with 800 x 600 resolution
- PCI 64 bit local bus graphics accelerator giving notebook resolution of 800 x 600 and external CRT up to 1024 x 768, with software MPEG-1 playback.
- 1.44mb removable FDD built in
- 16 bit stereo wavetable sound card with built in speakers
- Optional CD-ROM or secondary battery
- BIOS controlled dual level power management facility
- Built in LED status indicators
- Intuitive front mounted trackpad pointing device
- Type IV PC Card slot (Takes 1 x type III and 1 x type II)
- Ni MH battery standard
- Up to 4.5 hours battery life with optional secondary battery
- 1 enhanced serial port, 1 EPP parallel port, external CRT port, external keyboard port, audio connectors
- Full function 84 key UK keyboard
- Multi voltage 110-240v charger power supply
- Weight 3.2kgs with hard drive and battery
- 1 year parts and labour warranty
- Windows 95 or DOS 6.22/Win FWG 3.11 or Win OS/2 v3 preloaded and running
- Portable+ case included

Accura Portable+

486 features

- 486DX2-66 or DX4-100 CPU's
- 4mb standard memory upgradeable to 32mb
- Quick removable 340mb 2.5" enhanced IDE VESA local bus hard drive upgradeable to 1.2gb
- 11.3" SVGA DSTN LCD, and 10.4" TFT VGA LCD (65,000 colours) both with with 800 x 600 resolution
- VESA local bus graphics accelerator giving notebook resolution of 800 x 600 and external CRT up to 1024 x 768
- 1.44mb removable FDD built in
- 16 bit stereo sound with built in speakers
- Optional CD-ROM or secondary battery
- BIOS controlled dual level power management facility
- Built in LED status indicators
- Intuitive front mounted trackpad pointing device
- Type IV PC Card slot (Takes 1 x type III and 1 x type II)
- Ni MH battery standard
- Up to 4.5 hours battery life with optional secondary battery
- 1 enhanced serial port, 1 EPP parallel port, external CRT port, external keyboard port, audio connectors
- Full function 84 key UK keyboard
- Multi voltage 110-240v charger power supply
- Weight 3.2kgs with hard drive and battery
- 1 year parts and labour warranty
- Windows 95 or DOS 6.22/Win FWG 3.11 or Win OS/2 v3 preloaded and running
- Portable+ case included



Ordering

Adams Technology sales lines are open from 9am till 6pm from Monday to Friday. Technical sales staff are available to answer questions on any of our products to help you with any differing requirements that you might have. Please add VAT to all prices quoted. We welcome payment by Visa, Switch, Mastercard and American Express, or on a cheque with order basis. We charge £15 for carriage on all portables.

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Sales 0161 877 8822 (From end of February 0161 282 8822)



Adams' are the official computer supplier to Williams Renault for 1996

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Accura Portable+

Some options and accessories

Memory upgrade to 8mb (486)	£159
Memory upgrade to 16mb (486)	£420
Memory upgrade to 20mb (486)	£595
Memory upgrade to 32mb (486)	£980
Memory upgrade to 16mb (Pentium)	£299
Memory Upgrade to 24mb (Pentium)	£595
Memory upgrade to 32mb (Pentium)	£821

HDD upgrade from 340mb to 540mb	£99
HDD upgrade from 540mb to 810mb	£139
HDD upgrade from 540mb to 1.2gb	£349
Internal x4 speed CD-ROM	£199
Internal MPEG-1 card (for 486)	£229
Additional primary battery or secondary battery	£79
Docking Station	£349
Port replicator	£55



Adams

Advanced Computer Technology

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3 3 5
PERSONAL COMPUTER WORLD
MARCH 1996

Question?

Well, what is the question? Having been asked many times why we have two ranges of systems with similar specifications we thought we'd better clear up why we do it, and at the same time answer a question. Will an Adams Premium or Professional system fit your bill best?

Our Premiums give you the quality and value for money that you come to expect these days from us and many other vendors in the big wide market place. Perfectly fitting for the requirements of business and home, loaded with software and ready to work.

Computer World EDITOR'S CHOICE The Professionals are, well; for the professionals amongst you. Award winning machines with similar looks but different components designed for performance and outright flexibility. They suit admirably the business workgroups, the developers, the publishers and the professional power hungry person. We will always make sure that the latest, fastest components are fitted; for instance, how about an 8 speed CD-ROM with a 1200k/sec data transfer rate?

With so many companies now needing a means to show and edit video presentations, we launch

Accura Premium

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P75 £1249

P100 £1349

- Intel® Pentium® 75/100mhz CPU
- PCI local bus
- 256k level 2 cache
- 8mb RAM
- 850mb 11ms IDE hard drive with PCI 32-bit EIDE controller
- 3.5" 1.44mb floppy drive
- Ultra fast PCI graphics card with 1mb RAM
- 16 bit sound card and speakers
- Quad speed, multi session ATAPI CD-ROM drive
- 14" Accuscan energy saving, MPR-II monitor, NI, max res 1024 x 768
- 2 serial, 1 parallel port
- Desktop case with 200w PSU
- Windows 95 UK keyboard
- Ergonomic 2 button mouse
- 3 year parts and labour warranty (first year on site)
- Win OS/2 Warp v3 with Lotus Smartsuite for OS/2 or Windows 95 with Microsoft Works

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P100 £1399

P120 £1499

- Intel® Pentium® 100/120mhz CPU
- PCI local bus
- 256k level 2 cache
- 8mb EDO RAM
- 1gb sub 11ms IDE hard drive with PCI 32-bit EIDE controller
- 3.5" 1.44mb floppy drive
- #9 Fx Vision 330 graphics card with 2mb DRAM
- Quad speed, multi session ATAPI CD-ROM drive
- 15" Accuscan energy saving, MPR-II monitor, NI, max res 1280 x 1024
- 2 serial, 1 parallel port
- Desktop case with 200w PSU
- Windows 95 UK keyboard
- Ergonomic 2 button mouse
- 3 year parts and labour warranty (first year on site)
- Win OS/2 Warp v3 with Lotus Smartsuite for OS/2 or Windows 95 with Novell PerfectOffice Standard

To be, or

this month 2 new machines. One for MPEG and AVI presentation and another for video editing and MPEG creation. Both have 30fps playback and both have a PAL overlay for ultimate quality. Both units will either playback on a computer monitor, TV or professional projection/TV distribution system. Not for the faint hearted but a package to get your corporate presentations moving!

Remember our little barrage of software:



Don't forget that we include Novell Perfect Office with many of our PC's. Win OS/2 Warp V3 is available as an alternative to Windows 95, this time we load Lotus Smartsuite for OS/2.

Our 3 year warranty remains unchanged, with on site service during the first year. For those wishing to spread the financial burden, we can now offer you a "Buy now pay in Summer 1996" credit option. Of course at 0% APR equivalent*

Find out answers to your questions by calling Adams sales on 0161 877 8822.

PS: Adams make many systems that are not listed here, please call with your specifications and we'll work out a configuration just for you!

Accura Professional

Powered by MICRONICS

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P120 £2099

P133 £2249

P150 £2299

P166 £2499

- Intel Pentium® 120/133/150/166 mhz CPU
- Intel Triton® chipset
- Plug and play compatible with auto configuration
- 256k synchronous SRAM
- 16mb EDO RAM (max 128mb)
- 1.6gb sub 10ms IDE hard drive with PCI 32 bit mode 4 enhanced IDE controller
- Six speed multi session ATAPI CD-ROM drive
- 3.5" 1.44mb floppy drive
- Soundblaster Pro 16 with speakers
- Matrox Millennium graphics card with 2mb WRAM (u/g to 8mb)
- 15" Accuscan energy saving, MPR-II monitor, NI, max res 1280 x 1024, 75hz refresh
- 2 serial (16550), 1 parallel port (EPP/ECP)
- Desktop Case with 200w PSU
- Accutouch 102 key UK keyboard
- Microsoft Ergonomic Mouse
- 3 year parts and labour warranty (first year on site)
- Win OS/2 Warp v3 with Lotus Smartsuite for OS/2 or Windows 95 with Novell Perfect Office Professional

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P120 £2599

P133 £2749

P150 £2799

P166 £2999

- Intel Pentium® 100/120/133 mhz CPU
- Intel Triton® chipset with 256k synchronous SRAM
- Plug and play compatible with auto configuration
- 16mb EDO RAM (max 128mb)
- 1.6gb sub 10ms IDE hard drive with PCI 32 bit mode 4 enhanced IDE controller
- Eight (x8) speed multi session ATAPI CD-ROM drive
- Soundblaster AWE32 and Yamaha M10 speakers
- 3.5" 1.44mb floppy drive
- Matrox Millennium 2mb WRAM graphics card (u/g to 8mb)
- 17" Iiyama Vison Master Pro, 0.25 DP, DiamondTron, 1600 x 1200, max refresh 100hz
- 2 serial (16550), 1 parallel port (EPP/ECP)
- Desktop Case with 200w PSU
- Accutouch 102 key UK keyboard
- Microsoft Ergonomic Mouse
- 3 year parts and labour warranty (first year on site)
- Win OS/2 Warp v3 with Lotus Smartsuite for OS/2 or Windows 95 with Novell PerfectOffice Professional

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Premium 586
Work Station Plus



P120 £1799	P133 £1949
P150 £1999	P166 £2199

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- PCI local bus with 256k pipeline burst level 2 cache
- 16mb EDO RAM (max 128mb)
- 1.2gb sub 10ms IDE hard drive with PCI 32-bit mode 4 enhanced EIDE controller
- Quad speed, multi session ATAPI CD-ROM drive
- Soundblaster® Pro16 and speakers
- 3.5" 1.44mb floppy drive
- #9 Fx Vision 330 64 bit PCI graphics card with 2mb DRAM
- 15" Accuscan energy saving, MPR-II monitor, NI, max res 1280 x 1024
- 2 serial, 1 parallel port
- Desktop case with 200w PSU
- Windows 95 UK keyboard
- Ergonomic 2 button mouse
- 3 year parts and labour warranty (first year on site)
- Win OS/2 Warp v3 with Lotus Smartsuite for OS/2 or Windows 95 with Novell Perfect Office Standard

Premium 586
Multi Media



P120 £2149	P133 £2249
P150 £2299	P166 £2499

- Intel® Pentium® 120/133/150/166mhz CPU
- PCI local bus with 256k pipeline burst level 2 cache
- 16mb EDO RAM (max 128mb)
- 1.6gb sub 10ms IDE hard drive with PCI 32-bit IDE mode 4 controller
- Six speed, multi session ATAPI CD-ROM drive
- Soundblaster® Pro16 and speakers
- 3.5" 1.44mb floppy drive
- #9 FX Motion 771 64 bit PCI graphics card with 2mb VRAM (u/g to 4mb)
- 17" Accuscan MPR-II monitor, NI, max res 1280 x 1024
- 2 serial, 1 parallel port
- Desktop case with 200W PSU
- Windows 95 UK keyboard
- Ergonomic 2 button mouse
- 3 year parts and labour warranty (first year on site)
- Win OS/2 Warp v3 with Lotus Smartsuite for OS/2 or Windows 95 with Novell Perfect Office Standard

Accura options

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#9 Fx Vision 330 with 2mb DRAM → #9 Fx Motion 771 2mb VRAM	£99
VRAM upgrades 2mb → 4mb	£150
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15" → 17" Accuscan Monitor 1280 x 1024, MPR-II	£219
17" Accuscan Monitor 17" → 17" Iiyama Vision Master	£109
NE2000 compatible ethernet card	£35

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PLEASE CALL FOR MANY MORE OPTIONS

not to be?

no compromises for power users

Professional 586
Video Player



P100 £4499

- Intel Pentium® 100 mhz CPU
- 256k synchronous cache
- 16mb EDO RAM (max 128mb)
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- 8 speed IDE ATAPI CD-ROM
- 3.5" 1.44mb floppy drive
- Matrox Millennium graphics card with 6mb WRAM
- Fast Electronics FPS-60, digital video card with M-JPEG (AVI) and MPEG extension. Full screen overlay up to 1280 x 1024.
- Orchid NuSound PNP with 3D spatialiser & Yamaha M10 speakers
- Iiyama Vision Master Pro 17, DiamondTron 0.25mm, 1600 x 1200 up to 100hz refresh
- 2 serial (16550), 1 parallel port (EPP/ECP)
- Desktop case with 200w PSU
- Accutouch 102 key UK keyboard
- Microsoft Ergonomic Mouse
- 3 year parts and labour warranty (first year on site)
- MS-DOS 6.22 and Windows FWG 3.11
- Adobe Premier 4 LE

Professional 586
Video Editor




P166 £7399

- Intel Pentium® 166 mhz CPU
- 256k synchronous cache
- 64mb EDO RAM (max 128mb)
- 4.0gb 9.5ms fast SCSI-II AV hard drive with DPT 2024 PCI 32-bit bus mastering SCSI controller
- Dual/Quad Speed internal CD-ROM recorder/player
- 3.5" 1.44mb floppy drive
- Matrox Millennium graphics card with 6mb WRAM
- Fast Electronics Movie Machine II, digital video card editing card with M-JPEG (AVI) and MPEG extensions. Full screen overlay up to 1280 x 1024.
- Studio quality 4:2:2 digitisation
- Orchid NuSound PNP sound card with 3D spatialiser & Yamaha M10 speakers
- Iiyama Vision Master Pro 17, DiamondTron 0.25mm, 1600 x 1200 up to 100hz refresh
- 2 serial (16550), 1 parallel port (EPP/ECP)
- Desktop or Tower case with 200w PSU
- Accutouch 102 key UK keyboard
- Microsoft Ergonomic Mouse
- 3 year parts and labour warranty (first year on site)
- MS-DOS 6.22 and Windows FWG 3.11
- Adobe Premier4 LE, mxdng and digital effects software


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- Windows,
- Dantum
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- 100,P75,P100, P120
- P133

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- Prelude
- Premier,Prestige
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Dot Matrix

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Lasers



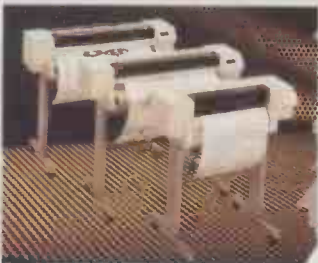
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Lasers

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Lasers

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Sharp Lasers require Windows 95

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2123/2124 BLACK	RD 3.95	3.70
2123/2124 COL	RD 7.95	7.50

STAR

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EPSON

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£10 +VAT per order for all other orders
UK Mainland next working day.*

*If you pay by credit card before 4.30pm for items in stock we will despatch that day for delivery the next working day. (UK Mainland only. Excludes outlying areas and orders placed on Saturday. If you require delivery on Saturday or off the mainland please call for price.)

VAT

Please add VAT at 17.5% to all prices.
(ie £100 item + £10 delivery + £19.25 VAT = £129.25)

Payment

Credit Cards

We make no surcharge for credit card use.
We will not debit your card before the day of despatch.
We despatch same day when you order before 4.30pm.

Cheques

Please allow 7 working days for cheques to clear before despatch. Proforma invoices will be supplied on request.

Bank Transfers Welcome

Please ask for details.

Government & Education

We welcome official orders from all Government bodies. Our terms for these orders are strictly 30 days from invoice date.

Terms & Conditions

Goods are not supplied on a trial basis. You must check specifications and compatibilities with manufacturers before buying. Prices and specifications may change without notice. Goods are offered subject to our standard conditions of sale - available on request. E & OE. Partners DRM & J Ruby

Warranty & Support

In addition to any manufacturers warranty supplied, all the products we sell are covered by our own 12 month return to base warranty. Should you have a problem our dedicated after sales team will be waiting to help - Call 01705 662299

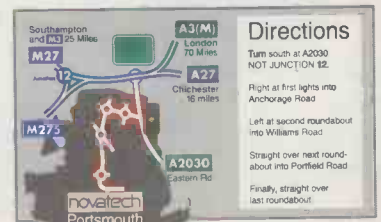


Opening Hours

Monday to Friday 9am to 5.30pm. Saturday 9am to 4pm.
Personal collections are welcome. We hold large stocks but are unable to demonstrate any of the products listed here.

Novatech
Blueprint 1400
Dundas Spur
Portsmouth
PO3 5RW

Sales (01705) 664144
Fax 664244
After Sales 662299



Directions

Turn south at A2030 NOT JUNCTION E2.

Right at first lights into Anchorage Road

Left at second roundabout into Williams Road

Straight over next roundabout into Portfield Road

Finally, straight over last roundabout.

novatech 01705 664144

Hard Drives

QUANTUM IDE
1200AT 1.2Gb 11ms £161

SEAGATE IDE
ST51080A 1Gb 11ms £161
ST31270A 1.2Gb 11ms £169

SEAGATE SCSI
Hawk
ST31230N 1050Mb 10ms £271
ST32430N 2147Mb 10ms £544
ST15230N 4294Mb 10ms £689
Baracuda
ST32550N 2147Mb 8ms £625
ST15150N 4294Mb 8ms £865

WESTERN DIGITAL IDE



AC-2635 635Mb 10ms £115
AC-2850 850Mb 10ms £136
AC-31200 1Gb 10ms £155
AC-31200 1.2Gb 10ms £179
AC-31600 1.6Gb 10ms £249

Other Drives

5.25" 1.2Mb £33
3.5" 1.44Mb £18

Interface Cards

CONTROLLER CARDS
IDE 2Hdd 2Fdd 1Parr 2 Ser 1Game£14
IDE 4Hdd 2Fdd 1P/1G/2 16550 Serial
Mode 3+4 VL Bus £22

ADAPTEC SCSI Controllers
1542CP kit ISA Hdd/Fdd £152
1640 PS/2 MCA Hdd £189
2742kit EISA Hdd/Fdd £224
2842kit VL Bus Hdd/Fdd £152
2940kit PCI Hdd £159
3940kit PCI Hdd £250
1460kit PCMCIA fast SCSI2 £132

Network cards

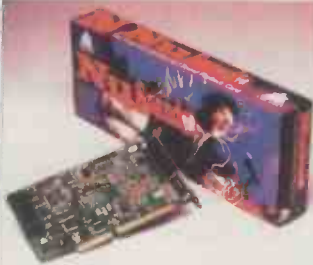
3COM Etherlink III3C509B

Connection	Bus	1 Pack	5 Pack
BNC	ISA	£66	£293
RJ45	ISA	£65	£276
BNC & RJ45	ISA	£75	£325

Soundcards

CREATIVE LABS
Sound Blaster 16 Value IDE £59
Sound Blaster 32 PnP IDE £97
Sound Blaster AWE32 IDE PnP £149

ORCHID



NuSound Plug n Play Win 95 £104

ZIFI SPEAKERS
Zi-Fi Speakers £25
Zi-Fi Pro Speakers £39

Joysticks

CH
Flight Stick £27
Flight Stick Pro £49
Virtual Pilot Yoke £63
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MICROSOFT
Sidewinder £19
Sidewinder 3D Pro £31
Sidewinder 3D Pro + Fury 3 £39

Graphics Cards

DIAMOND Please Specify VLB or PCI
Stealth 64 1Mb Dram 2000 £82
Stealth 64 2Mb Dram 2001 MPEG £134
Stealth 64 2Mb Video Vram 3000 £192
Stealth 64 4Mb Video Vram 3000 £315

HAUPPAUGE
Win TV Prisma £142
Win TV Cinema £178
Win TV Celebrity £241

MATROX Windows 95 Plug n Play
Millennium PCI Wram 2Mb £207
Millennium PCI Wram 4Mb £299

NUMBER 9 Please Specify VLB or PCI
9FX Vision 330 1Mb £84
9FX Vision 330 2Mb £126
9FX Motion 531 1Mb £118
9FX Motion 531 2Mb £158
9FX Motion 771 2Mb PCI £219
9FX Motion 771 4Mb PCI £327

VIDEOLOGIC Please Specify VLB or PCI
GrafixStar 300 1Mb £82
GrafixStar 300 2Mb £120
GrafixStar 700 2Mb £229
GrafixStar 700 4Mb £372

CD Kits

CREATIVE LABS
MultiMedia Home CD4x £269
16 Bit SoundBlaster Card with AdSP
Quad Speed IDE CD Rom
StereoSpeakers
Microsoft Publisher 2 with Design Pack
Microsoft Works, Encarta 95,
MS Cinemania 95, Bookshelf 94
Ancient Lands, Golf, Dangerous Creats
MS Musical Instruments, Undersea
Pagan Ultima 8, Wing Commander 2
Syndicate Plus, Strike Commander

Creative Labs Quad Internal £209
SoundBlaster 16
Quad Speed IDE CD Rom
SBS 30 StereoSpeakers
Lotus Ami Pro

CD Drives

CREATIVE
Blaster CD6 Speed Bare Drive £109
Blaster CD6 Kit £145

GOLDSTAR
GCDR540D Quad Speed IDE £79

HP CD READER/WRIter
Sure Store 4020i Quad SCSI Kit £739

MITSUMI
FX400D Quad Speed IDE £97

PANASONIC
CR581 Bare Quad Speed IDE £86
Quad Pro Quad Speed IDE £118
Quad Pro IDE Interface kit £9
Quad Pro Quad Speed SCSI £149
PD Drive System CD + Optical
LF1004B Internal Bare Drive £445
LF1004BK Internal + Scsi Kit £498
Optical Cartridges for PD System £39

PIONEER
DR-UA124X Quad EIDE £113
DR-U124X 4.4 speed SCSI £184
DRM-624X 4.4sp SCSI Multi CD £415

PLEXTOR
Six Speed SCSI internal £277
Six Speed SCSI external £389

TEAC
CD-56E 6 Speed IDE £168

TOSHIBA
XM3601B int 4.4 speed SCSI £203

Other Drives

IOMEGA
ZIP Drive 100Mb Ext Parallel £149
ZIP Drive 100Mb Ext SCSI £149
100 Mb PC Formatted Disks £14

Syquests

EZ 135 internal IDE Drive Kit £129
EZ 135 external SCSI Drive £159
EZ 135Mb cart £12
All drives supplied with one cartridge

Memory

30 Pin
1Mb 70ns £27
4Mb 70ns £85

72 Pin Non Parity
1x32 4Mb 70ns £72
2x32 8Mb 70ns £139
4x32 16Mb 70ns £279
8x32 32Mb 70ns £559

72 Pin Parity
1x36 4Mb 70ns £82
2x36 8Mb 70ns £175
4x36 16Mb 70ns £329
8x36 32Mb 70ns £659

72 Pin EDO
1x32 4Mb £75
2x32 8Mb £149
4x32 16Mb £299
8x32 32Mb £699

OverDrives

DX4 OverDrive
25MHz to 75MHz £85
33MHz to 100MHz £109
Please state if you have an empty
Overdrive socket or require a chip
replacement when ordering

Pentium OverDrive
to fit 486 25MHz £112
to fit 486 33MHz £169

Tape Streamers

COLORADO
DJ-50 1.4Gb Internal £170



T1000 400/800 Mb TRAVAN £106
T1000e External Parallel £125
FC-20 Tape Controller £48
Travan TR1 400/800Mb Tapes £22
Please Call for Quantity Tape Prices

CONNER
1.6/3.2GB Travan Internal £185
Travan TR3 1.6/3.2Gb Tapes £28
Please Call for Quantity Tape Prices

Mice

LOGITECH
Pilot Serial Mouse £17
Mouseman Combo £33
Mouseman Cordless £49
Trackman II £43
Trackman Portable £35

MICROSOFT
Mouse 2 Serial & PS/2 Intellipoint £35
Home Mouse £29

£5 for Next Day Delivery* on Software

Monitors

GoldStar

GS1455D 14" 800x600	£137
GS1468DM 14" 1024x768 NI LR	£168
GS1505DM 15" 1024x768 NI LR	£219
GS1527DM 15" 1024x768 NI LR	£249
56M 15" 1024x768 NI LR FST	£249
GS1727DM 17" 1024x768 NI LR	£455

NEC

Value Series

XV15 15" 1024x768 NI LR	£273
XV17 17" 1024x768 NI LR	£549

Efficiency Series

XE15 15" 1024x768 NI LR	£389
XE17 17" 1024x768 NI LR	£679
XE21 21" 1152x870 NI LR	£1139

Professional Series

XP17 17" 1152x870 NI LR	£895
XP21 21" 1360x1024 NI LR	£1745

PHILIPS

14M 14" VGA Mono LR	£89
14C 14" 1024x768 I LR	£159
15B 15" 1024x768 NI LR Stereo	£242
17C 17" 1024x768 NI LR Stereo	£415
20C 20" 1280x1024 NI LR	£775

SONY



CPD-15SF1 1024x768 NI LR	£299
CPD-17SF1 1024x768 NI LR	£539
GDM 17SE1 1280x1024 NI LR	£784
GDM 20SE1 1280x1024 NI LR	£1244

TAXAN

410LR 14" 1024 x 768 Non Int	£189
420LR 14" 1024 x 768 Non Int	£232



580+ LR 15" 1024 x 768 NI	£259
880LR 17" 1024 x 768 Non Int	£503
885LR 17" 1024 x 768 Non Int	£559
895LR 17" 1024 x 768 Non Int	£785
1080LR 20" 1280 x 1024	£865
2100LR 21" 1200 x 1600	£1489

Software

Microsoft

Windows 3.1 Applications

Access v2.0	£228
Access v2.0 CCP Upgrade	£84
Access v2.0 Developer Tool Kit	£235
Excel v5 CCP Upgrade	£84
Excel v5	£228
Office 4.2 CCP Upgrade	£162
Office 4.2	£325
Office Professional 4.3 CCP Upg	£253
Office Professional 4.3	£429
Project v4	£293
Word v 6 CCP Upgrade	£84
Word v 6	£228

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Flight Simulator 5.1 CD or 3.5"	£24
Golf CD or 3.5"	£22
Space Simulator	£27

Reference & Exploration

AutoExpress UK+Eire Win 3.5"	£39
AutoExpress UK+Eire Win CD	£41
Ancient Lands CD	£19
Bookshelf 1995 CD	£42
Cinematic 1996 CD	£19
Dogs CD	£19
Encarta 1996 <i>New!</i>	£31
Explorapedia CD	£19
Musical Instruments CD	£19
National Art Gallery CD	£26
Wine Guide CD	£19

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Windows 3.x to Windows 95 3.5"	£59
Windows 3.x to Windows MLP	£55
MS-DOS to Windows 95	£111
MS Plus! for Windows' 95	£26

Windows 95 Applications

Access 95	£225
Access 95 Version upg	£82
Office 95 standard	£325
Office 95 Std version upg	£137
Office 95 Std competitive upg	£162
Office 95 Pro	£428
Office 95 Pro version upg	£204
Office 95 Pro competitive upg	£245
Word v7 95	£225
Word v7 95 version upg	£82
Word v7 95 competitive upg	£106
Excel v7 95	£225
Excel v7 95 version upg	£82
Excel v7 95 competitive upg	£106
Publisher 95	£61
Works 4.0	£53
MS Money 95	£19

Windows 95 Edutainment

3D Movie Maker CD	£29
Creative Writer + Fine Artist CD	£39
Return of Arcade CD	£12
Fury 3	£29
Fury 3 + Sidewinder 3D Pro	£39

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Visual Basic 4 CCP Upg	£34
Visual Basic 4	£59
Visual Basic Pro 4 CCP Upg CD	£102
Visual Basic Pro 4 CD	£319
Visual Basic Ent 4 CCP Upg CD	£345
Visual Basic Ent 4 CD	£596

Windows NT

Windows NT Workstation 3.51	£198
Windows NT Server 3.51	£457
Windows NT Client Licence	£27

Software

Adobe

Illustrator v4	£260
Photoshop v3.0	£382
Page Maker Classic	£49
Page Maker 6 <i>New!</i>	£378

COREL

Corel Draw 3 CD	£42
Corel Draw 4 CD	£84
Corel Draw 5 CD	£167



Corel Draw 6 32-bit CD	£259
Corel Draw 384 - 6 Upg CD	£219
Corel Draw 5 - 6 Upg CD	£137
Corel Gallery 2 CD	£51
Corel Flow 2 CD	£42

DorlingKindersley

Children's Software

P.B Bears Birthday Party	£23
First Incredible Amazing Dictionary	£23
The Way Things Work	£33

Reference

Ultimate Human Body	£33
Cross Section Stowaway	£23
World Reference Atlas	£39
Anne Hoopers Ultimate Sex Disc	£23

Eyewitness Series

Encyclopaedia of Nature	£33
Encyclopaedia of Science	£33
History of the World	£33

Intuit

Quicken Deluxe Home Pack 4	£46
Quicken Deluxe Business Pack 4	£46
Quicken for Windows 4.0	£26
Quick Books v 3.0	£82

Lotus

Organizer 2.1	£79
Word Pro 96	£82
SmartSuite 4 Upg CD	£146
SmartSuite 96 Upg CD	£146

Software

NOVELL

Netware v3.12 5 User	£403
Netware v3.12 10 User	£909
Netware v3.12 25 User	£1351
Netware v4.1 5 User CD	£424
Netware v4.1 10 User CD	£973
Netware v4.1 25 User CD	£1436
Perfect Office 3.0 Comp Upg	£145
Perfect Office 3.0 Version Upg	£119
WordPerfect for Windows 6.1	£165
WP Windows 6.1 Version Upg	£62

QUARK

QuarkXPress	£559
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SAGE

STERLING for DOS

Accountant	£191
Accountant Plus	£273
Accountant Plus LAN	£273
Financial Controller	£354
Financial Controller LAN	£546
Payroll II	£136

STERLING 3 for Windows

Accountant 3	£191
Accountant Plus 3	£273
Financial Controller 3	£354
Financial Controller + 3 LAN	£546
Payroll for Windows	£136
Instant Accounting for Windows	£83
Instant Payroll for Windows	£69

Utilities

Dr Solomons Anti Virus Windows	£70
Dr Solomons Anti Virus Win 95	£71
Internet in a Box Internet Tools	£79
Laplinsk Pro v 5 Dos	£59
Laplinsk Pro v 5 Windows	£84
Norton Anti Virus Windows 95 Upg	£27
Norton Anti Virus Windows 95	£53
Norton Navigator 95	£65
Norton Utilities Windows 95 Upg	£48
Norton Utilities Windows 95 3.5"	£84
Norton Utilities Windows 95 CD	£89
Norton Utilities 8 Dos	£91
Norton PC Anywhere v5 dos (HR)	£92
Norton PC Anywhere Windows	£92
QuarterDeck CleanSweep	£27
QuarterDeck CleanSweep 95	£27
QuarterDeck Qemmm v8	£45
QuarterDeck MagnaRam	£27
RMH SoftRAM	£46



How to Order...

turn back to our section at the beginning of this ad. ...or simply dial the number below.





Elite⁹⁵ PCs - the



Using the experience we have gained from creating quality systems for over **160,000** satisfied customers during the last **8 years**, **MESH Computers Plc** now bring you a range of award winning Pentium systems, specifically designed for **Elite** users.



The **MESH Elite⁹⁵** range is built to the highest standards and competes effectively at the leading edge of technology. Our Business Solutions Division encompasses **Networking, Software Development** and **Systems Migration** - ensuring you get a system exactly tailored to your needs.

MESH Elite⁹⁵ 75

MESH Elite⁹⁵ 100

MESH Elite⁹⁵ 120/133



Model shown with optional Family Pack & Mini tower case



Model shown with optional Family Pack & Mini tower case



Model shown with optional Family Pack & Mini tower case

"From the moment you unpack the **MESH Elite⁹⁵ 75**, there is a reassuring feel to the system... It arrives fully configured... and won't have a problem with expansion. The pricing is extremely competitive making this our favoured system in the review"

Computer Shopper "Best Buy" - September '95

- Pentium P75 Processor
- Intel Triton 430FX chipset Motherboard
- 256Kb Pipeline Burst Mode cache (System runs 15% faster than standard Pentium PCs)
- Full Windows 95 plug & play support
- 8 Mbyte RAM (max 256Mb)
- Fast PCI Enhanced IDE controller
- 1.08 Gbyte Fast E-IDE hard disk drive
- Quad Speed CD Rom drive (see MESH Multimedia for upgrade options)
- 2 fast serial UART 16550 & 1 bi-directional parallel ports
- 1 Mbyte Stealth PCI Accelerator with Software MPEG Decode
- 15" SVGA NI Monitor (non-interlaced to 1024x768, low radiation, 0.28 pitch, Energy Star)
- 1.44 Mbyte 3.5" Floppy Drive
- Windows 95 Keyboard, Microsoft Ergonomic Mouse
- See below for Operating System options
- Lotus SmartSuite 3.1 CD version
- Accent Express multilingual word processor CD version
- Desktop case c/w TUV approved 200W PSU
- Comprehensive 1st year parts & labour Warranty
- Free Lifetime Hotline Support



£1099 (£1312.47 inc. VAT + delivery)

EASY FINANCE APR 18.5% Only £38 per month*

Case Options	Mini tower £10	Tower £39
Upgrade RAM	16Mb EDO £230	32Mb EDO £600
Upgrade Hard disk	1.6Gb £75 1Gb SCSI* £295	2Gb SCSI* £495
Upgrade Monitor	17" ADI SVGA £195 17" Idek SVGA £299	
Upgrade Graphics card	2Mb DRAM PCI £39	2Mb VRAM £119
Operating System*	MSDOS6.22 & WFWG 3.11 £49	Windows 95 £69

* Includes Adaptec 2940 PCI controller (2Gb, 4Gb & 9Gb options available)
* Operating System supplied with disks and manuals.

"We felt that the **MESH Elite⁹⁵ 100** offered the most overall and clearly deserved the Best Buy... As Intel introduces more and more powerful Pentium chips, even 100Mhz power is within the means of a much wider range of buyers"

What PC? "Best Buy" - September'95

- Pentium P100 Processor
- Intel Triton 430FX chipset Motherboard
- 256Kb Pipeline Burst Mode cache (System runs 15% faster than standard Pentium PCs)
- Full Windows 95 plug & play support
- 8 Mbyte EDO RAM (max 256Mb)
- Fast PCI Enhanced IDE controller
- 1.08 Gbyte Fast E-IDE hard disk drive
- Quad Speed CD Rom drive (see MESH Multimedia for upgrade options)
- 2 fast serial UART 16550 & 1 bi-directional parallel ports
- 1 Mbyte Stealth PCI Accelerator with Software MPEG Decode
- 15" SVGA NI Monitor (non-interlaced to 1024x768, low radiation, 0.28 pitch, Energy Star)
- 1.44 Mbyte 3.5" Floppy Drive
- Windows 95 Keyboard, Microsoft Ergonomic Mouse
- See below for Operating System options
- Lotus SmartSuite 3.1 CD version
- Accent Express multilingual word processor CD version
- Desktop case c/w TUV approved 200W PSU
- Comprehensive 1st year parts & labour Warranty
- Free Lifetime Hotline Support



£1199 (£1429.97 inc. VAT + delivery)

EASY FINANCE APR 18.5% Only £46 per month*

Case Options	Mini tower £10	Tower £39
Upgrade RAM	16Mb EDO £230	32Mb EDO £600
Upgrade Hard disk	1.6Gb £75 1Gb SCSI* £295	2Gb SCSI* £495
Upgrade Monitor	17" ADI SVGA £195 17" Idek SVGA £299	
Upgrade Graphics card	2Mb DRAM PCI £39	2Mb VRAM £119
Operating System*	MSDOS6.22 & WFWG 3.11 £49	Windows 95 £69

* Includes Adaptec 2940 PCI controller (2Gb, 4Gb & 9Gb options available)
* Operating System supplied with disks and manuals.

"The winner has to be MESH. It has good hardware, software, screen and keyboard...a perfect machine for all users. Experienced users will love it...it has all of the best stuff for a Pentium 120 including Burst Mode Cache, EDO Ram and the latest Triton Chipset!"

Computer Buyer "Best Buy" - February'95

- Pentium P120 Processor (P133 add £100)
- Intel Triton 430FX chipset Motherboard
- 256Kb Pipeline Burst Mode cache (System runs 15% faster than standard Pentium PCs)
- Full Windows 95 plug & play
- 8 Mbyte EDO RAM (max 256Mb)
- Fast PCI Enhanced IDE controller
- 1.08 Gbyte Fast E-IDE hard disk drive
- Quad Speed CD Rom drive (see MESH Multimedia for upgrade options)
- 2 fast serial UART 16550 & 1 bi-directional parallel ports
- 1 Mbyte Stealth PCI Accelerator with Software MPEG Decode
- 15" SVGA NI Monitor (non-interlaced to 1024x768, low radiation, 0.28 pitch, Energy Star)
- 1.44 Mbyte 3.5" Floppy Drive
- Windows 95 Keyboard, Microsoft Ergonomic Mouse
- See below for Operating System options
- Lotus SmartSuite 3.1 CD version
- Accent Express multilingual word processor CD version
- Desktop case c/w TUV approved 200W PSU
- Comprehensive 1st year parts & labour Warranty
- Free Lifetime Hotline Support



£1299 (P133 ADD £100) (£1547.48 inc. VAT + delivery)

EASY FINANCE APR 18.5% Only £49 per month*

Case Options	Mini tower £10	Tower £39
Upgrade RAM	16Mb EDO £230	32Mb EDO £600
Upgrade Hard disk	1.6Gb £75 1Gb SCSI* £295	2Gb SCSI* £495
Upgrade Monitor	17" ADI SVGA £195 17" Idek SVGA £299	
Upgrade Graphics card	2Mb DRAM PCI £39	2Mb VRAM £119
Operating System*	MSDOS6.22 & WFWG 3.11 £49	Windows 95 £69

* Includes Adaptec 2940 PCI controller (2Gb, 4Gb & 9Gb options available)
* Operating System supplied with disks and manuals.

† Personal finance prices shown are for illustration purposes based on 10% deposit with the balance paid over 36 months and are subject to status (14.9% APR). Please call for details and a quote. Prices exclude VAT (17.5%) and delivery (£18 + VAT within mainland UK).

FREE SOFTWARE BUNDLE WITH ALL MESH ELITE⁹⁵ PCs

Lotus SmartSuite v3.1
Complete suite of business application supplied on CD ROM containing Lotus Ami Pro, Freelance Graphics Approach and Organizer. Upgrade to version 4.0 and SmartSuite 96 options available.



Accent Express (CD ROM version)
Produce documents in other language such as French, Greek, Russian, Spanish, Arabic, Hebrew and many others. Accent lets you produce elegant and correct documents no matter how many languages you use. Upgrade options available.



Prices exclude VAT (17.5%) and delivery (£18 + VAT within mainland UK). Prices and specification subject to change without notice. All sales subject to Mesh Computers PLC Terms and Conditions of Sale which are available on request.

SHOWROOM OPEN 10AM - 6PM (MON - FRI) & 10AM - 2PM (SAT)

Editors' choice.



Whether you have just started up and are looking to computerise for the first time or want to expand an existing network system - we have a separate division that concentrates solely on business systems. All MESH systems can be configured to run with the market leading Network Operating Systems, including:-



TCP/IP



NOVELL



MESH ^{now 15% faster} Elite⁹⁵ 150/166

MESH Multimedia

Technology Update



Model shown with optional Family Pack & Mini tower case



Mesh Professional Pack shown with Elite mini tower PC

PC Magazine's Editor's Choice is an assurance of quality, power and performance. By combining the Pentium P150CPU, latest Intel Triton chipset board, EDO RAM, Burst Mode cache, ADI monitor, Mode 4 hard disk, Matrox Millennium, Microsoft Mouse and, of course, our own expertise - we give you the ultimate PC.

- Pentium P150 Processor (P166 add £200)
- Intel Triton 430FX chipset Motherboard
- 256Kb Pipeline Burst Mode cache (System runs 15% faster than standard Pentium PCs)
- Full Windows 95 plug & play
- 16 Mbyte EDO RAM (max 256Mb)
- Mode 5 PCI Enhanced IDE controller
- 1.08 Gbyte Fast E-IDE hard disk drive
- 6 Speed CD Rom drive (see MESH Multimedia for upgrade options)
- 2 fast serial UART 16550 & 1 bi-directional parallel ports
- 2Mbyte Diamond Stealth VRAM PCI Graphics Accelerator or 2 Mbyte Matrox Millennium VRAM PCI
- 15" ADI SVGA NI Monitor
- 1.44 Mbyte 3.5" Floppy Drive
- Windows 95 Keyboard, Microsoft Ergonomic Mouse
- See below for Operating System options
- Lotus SmartSuite 3.1 CD version
- Accent Express multilingual word processor CD version
- Tower case c/w TUV approved 200W PSU
- Comprehensive 1st year parts & labour Warranty
- Free Lifetime Hotline Support



MESH Computers Plc were the first to bring you a system with 6 speed CD ROM. We are proud to present the first MPC3 compatible Multimedia machine.

As specifications change monthly, standards are becoming more and more important - none more so than the MPC standard that defines multimedia. The combination of a powerful MESH Elite⁹⁵ PC, Polyphonic Wavetable Multimedia and the latest hardware MPEG decoder will give you a system designed to the highest standard, the latest standard... MPC3!

MESH Family Pack - MM KIT 1

- Soundblaster Vibra 16 Sound Card
- 25W Amplified Speakers
- 7 CD ROMS (see below for details)

£135 + VAT

All Mesh Elite⁹⁵ Elite PCs are supplied with Quad Speed CD ROM drive as standard. To upgrade to 6 speed IDE CD ROM drive add £60.

MESH Professional Pack - MM KIT 2

- AWE32 Wavetable (value pack) Sound Card
- 80W Power Speakers c/w sub-woofers
- 7 CD ROMS (see below for details)

£195 + VAT

All Mesh Elite⁹⁵ Elite PCs are supplied with Quad Speed CD ROM drive as standard. To upgrade to 6 speed IDE CD ROM drive add £60.

MESH MPC3 - MM KIT 3

- Requires MESH Elite⁹⁵ or Elite Pro PC
- Mesh Professional Pack-MM Kit 2
- VideoLogic MPEG Decoder
- GrafixStar 300 2Mb DRAM Graphics Accelerator

£499 + VAT

CD ROM Titles Included:

All the above MESH Multimedia Kits include Microsoft Encarta 96, Dangerous Creatures, Musical Instruments, Works for Windows v4, Money v4, Golf, Home Sampler/Holiday & Scenes (2 floppy disks).



UPGRADE 166MHz MESH Elite⁹⁵ PCI Motherboard

Uses the latest Intel Triton chipset, with full support for both EDO Ram and Burst Mode Cache, as well as our integrated Mode 5 Enhanced IDE Controller. This superb motherboard allows single chip upgrades through to Pentium 166 and beyond.

intel inside pentium MESH Elite⁹⁵ Pentium Power

The most powerful processors available today, have the dual-processor architecture necessary to fully exploit Windows 95, NT and OS/2 32-bit applications.

TRITON Intel 430FX Chipset

The very latest design specifically for the latest generation of Pentium processors, it supports the latest memory sub-systems including EDO Ram and Pipeline Burst Mode Cache.

PIPELINED Burst Mode Cache

Synchronised with your systems main memory, Burst Mode SRAM spends less time "hand shaking" and more time working. Your Pentium processor isn't kept waiting and, as a result, the system can run 15% quicker.

MODE 5 ENHANCED IDE MESH Mode 5 Enhanced IDE

Our controller will support Mode 5 E-IDE drives, up to 4 different devices to be controlled at very high speed. Elite⁹⁵ systems have E-IDE Controllers capable of up to 20Mb per second data transfer rate.

DIAMOND Stealth PCI Graphics + S/W MPEG Decode

The latest card in the famous Diamond Stealth range utilises EDO technology and offers MPEG Decoding Software as standard. In combination with a MESH Elite⁹⁵ Multi Media system this will give you an MPEG/CD-i Player as well.



MESH
COMPUTERS PLC

Mesh House, Apsley Way, London NW2 7HF
Tel: 0181 452 1111 Fax: 0181 208 4493

P166 ADD £200
£1899 + VAT (£2134.97 Inc. VAT + delivery)

EASY FINANCE APR 14.9% Only £65 per month*

Case Options	Desktop £0	Mini tower £0
Upgrade RAM	32Mb EDO £460	64Mb EDO £1200
Upgrade Hard disk	1.6Gb £75 1Gb SCSI* £295	2Gb SCSI* £495
Upgrade Monitor	17" ADI SVGA £195	17" Idek SVGA £299
Upgrade Graphics	4Mb VRAM/WRAM £110	

Operating System* MSDOS 6.22 & WFWG 3.11 £49 Windows 95 £69
* Includes Adaptec 2940 PCI controller (2Gb, 4Gb & 9Gb options available)
* Operating System supplied with disks and manuals.



**Ordering Could
Not Be Easier...**

Call our Sales Hotline:
0181 452 1111

Fax your Request: **0181 208 4493**

Or Post it to our **Head Office**

The Intel Inside and Pentium Processor Logos are trademarks of Intel Corporation. All other trademarks acknowledged. E&OE.

TO ORDER PLEASE RING 0181 452 1111

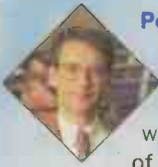


MESH COMPUTERS PLC 0181 452 1111

NEW

MESH

Classic - Entry



Personal Computer systems have evolved over the past decade into the sophisticated tools that we use today. MESH are proud to announce a major evolution in the PC that will bring Intel Pentium power within the reach of almost every budget.



Shared Memory Bus Architecture (SMBA) allows a powerful, 64-bit integrated PCI graphic chip to use your computer's main RAM as graphic memory - negating expensive DRAM and VRAM in an entry-level PC/workstation. With an 8Mb system, you already have 2Mb of memory for graphics!

MESH Classic 75



Model shown with optional CD ROM drive

With one of the best monitors in its class, the MESH Classic 75 is an excellent system for anyone who needs a PC built to the highest standards - either for home use or as a network workstation.

- Pentium P75 Processor
- Latest MESH SMBA Motherboard
- 256Kb cache
- Full Windows 95 plug & play support
- 8 Mbyte RAM (max 256Mb)
- Fast PCI Enhanced IDE controller
- 540 Mbyte Fast E-IDE hard disk drive
- 2 fast serial UART 16550 & 1 bi-directional parallel ports
- 2Mb integrated 64-bit PCI graphics
- 14" SVGA NI digital Monitor (non-interlaced to 1024x768, low radiation, 0.28 pitch, Energy Star)
- 1.44 Mbyte 3.5" Floppy Drive
- 105 key Windows 95 Keyboard
- Microsoft Ergonomic Mouse & mouse pad
- See below for Operating System options
- Lotus SmartSuite 3.1 & Accent Express multilingual word processor (Requires optional CD ROM drive - see FREE SOFTWARE BUNDLE below for details)
- Desktop case c/w TUV approved 200W PSU
- Comprehensive 1st year parts & labour Warranty
- Free Lifetime Hotline Support



(£959.97 Inc. VAT + delivery)

£799 + VAT

EASY FINANCE APR 18.5% Only £31 per month*

Case Options	Mini tower £10	Tower £39
Upgrade RAM	16Mb £230	32Mb £600
Upgrade Hard disk	850Mb £20	1Gb £60
Upgrade Monitor	15" FST SVGA £70	17" FST SVGA £265

Operating System* MSDOS6.22&WFWG3.11 £49 Windows 95 £69

* Operating System supplied with disks and manuals.

† Personal finance prices shown are for illustration purposes and are subject to status (minimum order value £900 including VAT). 18.5% APR for borrowing below £1750 & 14.9% for £1750 plus. Please call for details and a quote.

MESH Classic 100



Model shown with optional CD ROM drive

If you need substantially more power than the average user then you should consider a 64-bit MESH Classic PC. The MESH Classic 100 combines 8Mb of main RAM with the power of Intel's Pentium 100 CPU - an ideal base for 32-bit operating systems.

- Pentium P100 Processor
- Latest MESH SMBA Motherboard
- 256Kb cache
- Full Windows 95 plug & play support
- 8 Mbyte RAM (max 256Mb)
- Fast PCI Enhanced IDE controller
- 540 Mbyte Fast E-IDE hard disk drive
- 2 fast serial UART 16550 & 1 bi-directional parallel ports
- 2Mb integrated 64-bit PCI graphics
- 14" SVGA NI digital Monitor (non-interlaced to 1024x768, low radiation, 0.28 pitch, Energy Star)
- 1.44 Mbyte 3.5" Floppy Drive
- 105 key Windows 95 Keyboard
- Microsoft Ergonomic Mouse & mouse pad
- See below for Operating System options
- Lotus SmartSuite 3.1 & Accent Express multilingual word processor (Requires optional CD ROM drive - see FREE SOFTWARE BUNDLE below for details)
- Desktop case c/w TUV approved 200W PSU
- Comprehensive 1st year parts & labour Warranty
- Free Lifetime Hotline Support



(£1077.47 Inc. VAT + delivery)

£899 + VAT

EASY FINANCE APR 18.5% Only £35 per month*

Case Options	Mini tower £10	Tower £39
Upgrade RAM	16Mb £230	32Mb £600
Upgrade Hard disk	850Mb £20	1Gb £60
Upgrade Monitor	15" FST SVGA £70	17" FST SVGA £265

Operating System* MSDOS6.22&WFWG3.11 £49 Windows 95 £69

* Operating System supplied with disks and manuals.

MESH Classic 120



Model shown with optional CD ROM drive

Based on the amazing MESH Elite⁹⁵ 120 that won Computer Buyer's BEST BUY award in February 1996, the MESH Classic 120 is the most powerful sub-£1000 systems ever produced!

- Pentium P120 Processor
- Latest MESH SMBA Motherboard
- 256Kb cache
- Full Windows 95 plug & play support
- 8 Mbyte RAM (max 256Mb)
- Fast PCI Enhanced IDE controller
- 540 Mbyte Fast E-IDE hard disk drive
- 2 fast serial UART 16550 & 1 bi-directional parallel ports
- 2Mb integrated 64-bit PCI graphics
- 14" SVGA NI digital Monitor (non-interlaced to 1024x768, low radiation, 0.28 pitch, Energy Star)
- 1.44 Mbyte 3.5" Floppy Drive
- 105 key Windows 95 Keyboard
- Microsoft Ergonomic Mouse & mouse pad
- See below for Operating System options
- Lotus SmartSuite 3.1 & Accent Express multilingual word processor (Requires optional CD ROM drive - see FREE SOFTWARE BUNDLE below for details)
- Desktop case c/w TUV approved 200W PSU
- Comprehensive 1st year parts & labour Warranty
- Free Lifetime Hotline Support



(£1194.97 Inc. VAT + delivery)

£999 + VAT

EASY FINANCE APR 18.5% Only £39 per month*

Case Options	Mini tower £10	Tower £39
Upgrade RAM	16Mb £230	32Mb £600
Upgrade Hard disk	850Mb £20	1Gb £60
Upgrade Monitor	15" FST SVGA £70	17" FST SVGA £265

Operating System* MSDOS6.22&WFWG3.11 £49 Windows 95 £69

* Operating System supplied with disks and manuals.

MESH SERVICE

Our customer service strategy is an integral part of our business and we give it greater emphasis than almost anything else including...

- Initial consultation
- Lifetime technical support
- Over 500 engineers country wide
- We can create training programs, tailored to your needs, for...
 - Individuals
 - Teams
 - At our training suite or in-house
- Our systems are designed to be fully upgradable, a service that we gladly offer...
 - Every customer
 - For the lifetime of the machine
 - With warranty options



Call for on-site warranty options

Prices exclude VAT (17.5%) and delivery (£18 + VAT within mainland UK). Prices and specification subject to change without notice. All sales subject to Mesh Computers PLC Terms and Conditions of Sale which are available on request.

SHOWROOM OPEN 10AM - 6PM (MON - FRI) & 10AM - 2PM (SAT)

at a Higher Level

NEW RANGE

Start the year afresh with the new *Classic* Range from MESH



The main board still has the upgradeability you expect from a MESH system - it is a simple process to increase RAM, hard disk space, CPU speed and so on - only the basic cost is lower!

Modern Operating Systems and applications need the dual processing power of the Pentium processor as well as the unique 64-bit internal bus architecture that you only get with the MESH *Classic* range. With prices starting from as little as £799, MESH give you Entry at a Higher Level!



MESH Classic 133



Model shown with optional CD ROM drive

First released toward the end of 1995, the Intel Pentium 133 has previously been the domain of high-end CAD stations and NT servers. Using MESH *Classic* technology, we bring the power of the 133 CPU into the range of most buyers. Exceptional value!

- Pentium P133 Processor
- Latest MESH SMBA Motherboard
- 256Kb cache
- Full Windows 95 plug & play support
- 8 Mbyte RAM (max 256Mb)



- Fast PCI Enhanced IDE controller
- 540 Mbyte Fast E-IDE hard disk drive
- 2 fast serial UART 16550 & 1 bi-directional parallel ports
- 2Mb integrated 64-bit PCI graphics
- 14" SVGA NI digital Monitor



- (non-interlaced to 1024x768, low radiation, 0.28 pitch, Energy Star)
- 1.44 Mbyte 3.5" Floppy Drive
- 105 key Windows 95 Keyboard
- Microsoft Ergonomic Mouse & mouse pad
- See below for Operating System options
- Lotus SmartSuite 3.1 & Accent Express multilingual word processor
- Desktop case c/w TUV approved 200W PSU
- Comprehensive 1st year parts & labour Warranty
- Free Lifetime Hotline Support

MESH Classic Upgrades



MESH Classic mini tower shown with Classic MM Pack 2

Multimedia

MESH Classic MM Pack 1

- Quad speed IDE CD ROM drive
- Soundblaster Vibra 16 Sound Card
- 25W Amplified Speakers
- 7 CD ROMs (see below for details) **£220 + VAT**
- 6 speed IDE CD ROM drive add £60
- 80W Power Speakers c/w sub-woofers add £60
- Joystick add £15



MESH Classic MM Pack 2

- Quad speed IDE CD ROM drive
- AWE32 Wavetable Sound Card (value pack)
- 80W Power Speakers c/w sub-woofers
- 7 CD ROMs (see below for details) **£280 + VAT**
- 6 speed IDE CD ROM drive add £60
- AWE 32 Wavetable Sound Card (full pack) add £60
- Joystick add £15



CD ROM titles included:

All the above MESH *Classic* Multimedia Packs include Microsoft Encarta 96, Dangerous Creatures, Musical Instruments, Works for Windows v4, Money v4, Golf, Home Sampler/Holiday & Scenes (2 floppy disks).



Multimedia Accessories

- 4 speed IDE CD ROM drive **£85**
- 6 speed IDE CD ROM drive **£145**
- 80W Power Speakers c/w sub-woofers **£85**
- Joystick **£15**

Internet

- Pace 14,400bps fax/modem **£99**
- Pace 29,800bps fax/modem **£149**



Network & Backup

- Mesh Combo Ethernet Network card (BNC & 10BaseT) **£25**
- Omega 800Mb Tape Streamer **£115**
- Omega 1.7Gb Tape Streamer **£185**

MESH Easy Finance

Choose your own way to pay **18.5% APR**

TERM	MINIMUM ADVANCE	FACTORS	
		WITH PPP	WITHOUT PPP*
12	£500	0.095210	0.091290
24	£750	0.053540	0.049520
36	£1000	0.039940	0.035740

*Payment Protection Plan **14.9% APR**

TERM	MINIMUM ADVANCE	FACTORS	
		WITH PPP*	WITHOUT PPP*
12	£1500	0.093700	0.089800
24	£1500	0.051980	0.048040
36	£1500	0.038290	0.034200

*Payment Protection Plan

How to Calculate Monthly Repayment Amount

Simply multiply the amount of credit (cash price less deposit paid) by the appropriate factor for the chosen repayment period.

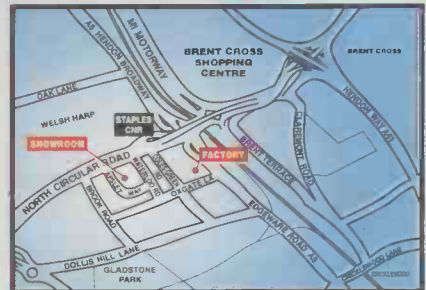
For Example: Loan Amount £1095 at 18.5% APR

Over 24 months, the factor would be 0.053540
 so £1095 x 0.053540 = £58.6263
 = 24 monthly payments of **£58.62**

(Always take the payment to the first two decimal places. Do NOT round up or down) Personal finance subject to status. Written details on request.

COMPETITIVE LEASING AVAILABLE FOR CORPORATE & EDUCATIONAL CUSTOMERS

MESH Computers Plc is a licensed credit broker.



MESH COMPUTERS PLC

Mesh House, Apsley Way, London NW2 7HF
 Tel: 0181 452 1111 Fax: 0181 208 4493

£1099 + VAT (£1312.47 inc. VAT + delivery)

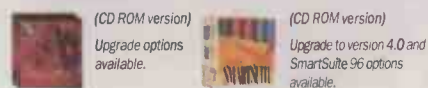
EASY FINANCE APR 18.5% Only £43 per month*

Case Options	Mini tower £10	Tower £39
Upgrade RAM	16Mb £230	32Mb £600
Upgrade Hard disk	850Mb £20	1Gb £60
Upgrade Monitor	15" FST SVGA £70	17" FST SVGA £265

Operating System* MS-DOS 6.22 & WFWG 3.11 £49 Windows 95 £69
 * Operating System supplied with disks and manuals.

FREE SOFTWARE BUNDLE*

* Supplied FREE with MESH CD ROM drive or Classic Multimedia Pack
Accent Express Lotus SmartSuite v3.1



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The Satellite Pro 400 has a versatile configurable storage format via swappable internal CD-ROM and floppy disk drive



The easy to use Integral Mousepoint on all except T4850



All systems include PS/2 mouse, external PS/2 keyboard parallel printer, serial and external SVGA ports. (No PS/2 mouse on T21 series)



Port replicator (mini docking station) option is available for the T21 series, plus enhanced port replicator for Satellite Pro

COMMON TOSHIBA FEATURES

Toshiba notebooks are unbeatable in terms of quality, advanced features, performance and ease of use. Do not consider a low quality clone-buy the best. The following common features are standard with all models:-

SCREENS

Mono notebooks include a high quality sidelit Super Twist Nematic (STN) mono LCD capable of 64 grey scales and VGA resolution. STN colour portables utilise the latest advanced STN (Dual Scan) screens for enhanced contrast and faster response. Thin Film Transistor (TFT) or active matrix screens provide the best displays with up to 16.7 million bright colours, ultra fast response and the ability to use motion video.

KEYBOARD

Ergonomically designed 84 key full-size keys with 12 function keys and overlay numeric keypad. Dedicated cursor control keys.

INTERFACES

Standard ports include centronics parallel, RS-232C serial, PS/2 ext. keyboard, PS/2 mouse and VGA/SVGA for ext. monitor. Either Quickport port with bundled Ballpoint mouse or Integral MousePoint device included. Other ports and PCMCIA details see individual notebook. (NB. PS/2 mouse port on T21 series via port rep)

POWER

Autosensing AC adaptor (100 to 240V) suitable for world wide usage provides power for notebook and recharges batteries. Removable rechargeable batteries are standard (type of battery and life varies as shown).

SOFTWARE

Microsoft MS DOS 6.2 with Toshiba notebook enhancements, Windows 95 or WFWG 3.11 are pre-loaded, except on T2110 model. CardWare PCMCIA support provides transparent use of PCMCIA cards without incompatibility problems and supports 'hot insertion'.

SPECIAL FEATURES

Intel 3.3v or 2.9v SL technology with low power consumption. Reset button for warm reboot. AutoResume puts your systems in standby mode for upto 7 days. AutoSave automatically saves your data if your battery power is running out. LIM EMS/XMS/Hard RAM support. MaxTime Power Management can be set to switch off your disk drive, screen, keyboard and CPU after a certain time. Advanced Power Management is also supported. Flash BIOS allows easy upgradeability in the future. Kensington Cable Lock Provision for physical security. Password/MultiSafe security with various levels of protection.

MONO 486DX4-75



T2110

New powerful 486DX4 notebook combines ultra-fast 75MHz with innovative ergonomics. An advanced high-resolution 9.5" mono STN screen enhances the level of performance yet further.

- Intel DX4-75 processor
- 4Mb RAM expandable to 28Mb
- 350Mb hard disk
- Internal 3.5" 1.44Mb floppy drive
- VGA/SVGA (640 x 480 pixel resolution) 9.5" diagonal display
- 84 key keyboard and mousepoint and overlay numeric keypad
- Standard ports
- 11.8" x 8.9" x 1.9" with 3.0Kg (6.6lb) weight
- Built-in autosensing AC adaptor
- NiH2 removable battery. Up to 4 hours usage

Options

4Mb RAM (PA2026U)	£165
8Mb RAM (PA2027U)	£299
16Mb RAM (PA2028U)	£575
NiH2 Battery (PA2429UR)	£94

£845

COLOUR DX4-75



T2130CS

Brilliant notebook, offers 8Mb RAM as standard. Has top end 75MHz DX4 processor and a large 10.4" dual scan screen combine with a high capacity nickel hydride battery providing long lasting quality performance.

- Intel DX4-75 processor
- 8Mb RAM expandable to 28Mb
- 520Mb hard disk upgradeable
- Internal 3.5" 1.44Mb floppy drive
- VGA/SVGA (640 x 480 pixel) resolution STN 10.4" diagonal display
- 84 key keyboard and mousepoint device
- Parallel, serial port
- Replicator port
- SVGA port
- Memory exp slot
- PS2 keyboard port
- PCMCIA Rel.2.0 slot, 2 x type II slot or 1 x type III
- Rechargeable, removable nickel hydride battery (4 hrs use)
- MS DOS 6.22 and Windows 3.11

Options

4Mb RAM (PA2026U)	£165
8Mb RAM (PA2027U)	£299
16Mb RAM (PA2028U)	£575
24Mb RAM (PA2029U)	£900
Battery (PA2437U)	£90
Battery charger (PA2438U)	£148

£1359

COLOUR P75 CHIP CD-ROM



Satellite Pro 400CS

Toshiba's first modular notebook with Pentium processing power. Swappable CD-ROM and floppy disk drive modules and one touch docking.

- Intel 75MHz Pentium® processor
- 8Mb EDO RAM expandable to 40Mb
- 810Mb hard disk
- Swappable internal external 3.5" 1.44Mb floppy drive
- VGA/SVGA (640 x 480 pixel resolution) colour STN 10.4" diagonal display
- 84 key keyboard and mousepoint device
- Parallel, serial port
- Serial infra-red port
- Enhanced port
- Replicator port
- SVGA port
- External FDD port
- Memory exp slot
- PCMCIA Rel.2.0 slot, 2 x type II slot or 1 x type III
- Rechargeable, removable Lithium Ion battery (4 hrs use)
- Microphone, headphone and speaker sockets
- MS DOS 6.22 and Windows for workgroups 3.11

OPTION

8Mb EDO RAM (PA2031U)	£420
16Mb EDO RAM (PA2032U)	£804
32Mb EDO RAM (PA2034U)	£1260
Quad speed CD-ROM (PA2653U)	£255
Li Ion battery 4hrs use (PA2487UR)	£166
Battery charger (PA2488U)	£166

£2425

COLOUR P75 CHIP CD-ROM



Satellite Pro 400CDT

Unbeatable high end performance A4 package with modular storage and Pentium® processing power coupled with flexible connectivity facilities.

- Intel 75MHz Pentium® processor
- 8Mb EDO RAM expandable to 40Mb
- 810Mb hard disk
- Swappable enhanced IDE quad speed CD-ROM
- Swappable internal external 3.5" 1.44Mb floppy drive
- VGA/SVGA (640 x 480 pixel resolution) colour TFT 10.4" diagonal display
- 84 key keyboard and mousepoint device
- Parallel, serial port
- Serial infra-red port
- Enhanced port
- Replicator port
- SVGA port
- External FDD port
- Memory exp slot
- PCMCIA Rel.2.0 slot, 2 x type II slot or 1 x type III
- Rechargeable, removable Lithium Ion battery (4 hrs use)
- Microphone, headphone and speaker sockets
- MS DOS 6.22 and Windows for workgroups 3.11

8Mb EDO RAM (PA2031U)	£420
16Mb EDO RAM (PA2032U)	£804
32Mb EDO RAM (PA2034U)	£1260
Li Ion battery 4hrs use (PA2487UR)	£166
Battery charger (PA2488U)	£166

£3139

TFT COLOUR DX4-75

LIMITED QUANTITY AT VERY SPECIAL PRICE



T4850CT

This DX4-75 with its high capacity 810Mb hard disk and 8Mb RAM, has all the power and performance needed on the move. Just connect to the optional deskstation IV for further expandability

- Intel DX4-75 processor
- 8Mb RAM expandable to 40Mb
- 810Mb hard disk
- Internal 3.5" 1.44Mb floppy drive
- VGA/SVGA (640x480 pixel resolution) TFT 10.4" diagonal display
- 84 full size keys with overlay numeric keypad, 12 function keys
- Standard ports
- PCMCIA Rel.2.0 one Type II and one Type III
- 11.7" x 8.3" x 2.2" with 3.2kg (6.9 lb) weight
- NiH2 removable battery 3.5 hours use
- MS DOS 6.22 and MS Windows for workgroups 3.11

Options

4Mb RAM (PA2012U)	£170
8Mb RAM (PA2013U)	£298
16Mb RAM (PA2014U)	£745
NiH2 battery (PA2429UR)	£94
Desk Station IV	£374

£2199

TOSHIBA



Two PCMCIA slots on all models provide ultimate expansion. Intel fax/data modem at an incredible £99 (except T3600)



Built-In Microsoft Sound System on T4850, and T4900



With Soundblaster Pro compatible sound system on T2150, Portégé and Satellite Pro



Add a deskstation to turn your notebook into an expandable desktop system

TFT COLOUR DX4-75



T2130CT

The T2130CT combines top-end DX4-75 processing with a TFT 10.4" colour screen and comes with 8Mb RAM, 520Mi.b hard disk.

- Intel DX4-75 processor
- 8Mb RAM expandable to 32Mb
- 520Mi.b hard disk upgradeable
- Internal 3.5" 1.44Mb floppy drive
- VGA/SVGA (640 x 480 pixel resolution) TFT 10.4" diagonal display
- 84 key keyboard and mousepoint device
- Parallel, serial port
- Replicator port
- SVGA port
- Memory exp slot
- PS2 keyboard port.
- PCMCIA Rel.2.0 slot, 2 x type II slot or 1 x type III
- Rechargeable, removable nickel hydride battery (4 hrs use)
- MS DOS 6.22 and Windows 3.11

Options

4Mb RAM (PA2026U).....	£165
8Mb RAM (PA2027U).....	£239
16Mb RAM (PA2028U).....	£375
24Mb RAM (PA2029U).....	£330
Battery (PA2437U).....	£80
Battery charger (PA2436U).....	£149

£1779

COLOUR DX4-75 CD-ROM



T2150CDS

The DX4-75 notebook includes a built-in CD-ROM drive 520Mi.b hard disk and STN colour LCD 10.4" screen. The T2150CDT model comes with TFT screen.

- Intel DX4-75 processor
- 4Mb RAM expandable to 32Mb
- 8Mb on T2150CDT model
- 520Mi.b hard disk
- Dual Spin internal 5.25" CD-ROM
- External 3.5" 1.44Mb floppy drive
- VGA/SVGA (640x480 pixel resolution) STN 10.4" diagonal display, TFT on T2150CDT model
- 84 Key keyboard with mousepoint
- Standard ports, and port replicator
- Built in AC adaptor
- PCMCIA Rel.2.0 two Type II or one Type III
- 11.8" x 8.9" x 2.1" with 3.2kg (7 lb) weight
- Soundblaster Pro compatible sound system
- NiH2 removable battery (3 hours use)
- MS DOS 6.22 and MS Windows for workgroups 3.11

T2150CDT/520/8Mb.....£2379

Options

4Mb RAM (PA2026U).....	£167
8Mb RAM (PA2027U).....	£340
16Mb RAM (PA2028U).....	£745
Port Replicator (PA2708U).....	£126
Battery (PA2437U).....	£95
Battery charger (PA2436U).....	£149

£1865

TFT COLOUR SUBNOTE



Portégé 610CT

The world's first 90MHz Pentium ultra notebook and the most powerful Toshiba portable. It offers very high performance in a lightweight ultra notebook package.

- Intel Pentium® 90MHz processor
- 8Mb EDO RAM expandable to 40Mb
- 720Mi.b hard disk
- External 3.5" 1.44Mb floppy drive
- VGA/SVGA (640 x 480 pixel resolution) TFT 9.5" diagonal display
- 84 key keyboard and mousepoint device
- Parallel, serial port
- Replicator port
- SVGA port
- External FDD port
- Memory exp slot
- PCMCIA Rel.2.0 slot, 2 x type II slot or 1 x type III
- Rechargeable, removable Lithium Ion battery (4 hrs use)
- Microphone, headphone and speaker sockets
- MS DOS 6.22 and Windows for workgroups 3.11

Options

8Mb EDO RAM (PA2031U).....	£420
16Mb EDO RAM (PA2032U).....	£804
32Mb EDO RAM (PA2034U).....	Call
Li Ion battery (PA2488UR).....	£166
Battery charger (PA2488U).....	£166

£3019

TFT COLOUR P75 CHIP



T4900CT

The T4900CT is the first notebook to have Intel 3.3volt 75MHz Pentium processor. Offering unsurpassed performance for all power-hungry applications.

- Intel 75MHz Pentium® processor
- 8Mb RAM expandable to 40Mb
- 810Mi.b hard disk
- Internal 3.5" 1.44Mb floppy drive
- VGA/SVGA (640 x 480 pixel resolution) TFT 10.4" diagonal display
- 84 key keyboard with mouse point
- Standard ports
- PCMCIA Rel 2.0 one Type II and one Type III
- 11.7" x 8.3" x 2.2" with 3.1Kg (6.8 lb) weight
- Soundblaster Pro compatible sound system
- Built in speakers and microphone
- NiH2 removable battery 3 hours use
- MS DOS 6.2 and MS Windows for workgroups 3.11

Options

8Mb EDO RAM (PA2031U).....	£420
16Mb EDO RAM (PA2032U).....	£804
32Mb EDO RAM (PA2034U).....	Call
Li Ion battery 4hrs use (PA2487UR).....	£166
Battery charger (PA2488U).....	£166

£2719

TFT COLOUR P120 CHIP CD-ROM



Tecra 700CT

The ultimate in mobile multimedia, the Tecra 700CT offers full stereo sound and quad speed CD-ROM capability to complement its high performance 120MHz processor and PCI bus architecture.

- Intel® 120MHz Pentium® processor
- 1210Mi.b hard disk
- 16Mb synchronous DRAM, expandable to 49Mb
- Swappable internal/external 3.5" 1.44Mb floppy drive
- Quad speed CD-ROM
- 11.3" diagonal display size 800x600 pixel resolution
- PCI local bus support
- rechargeable, removable Li-Ion battery
- Dimensions 297 x 230 x 59mm
- Weight - 3.2Kg with FDD module fitted, 3.4Kg with optional CD-ROM module fitted
- 84 full size keys with integrated mousepoint
- Autosensing 100-240V AC adaptor
- Interfaces / Expansion Slots - ECP parallel port
- Serial infra-red port (IrDA SVGA monitor port)
- PCMCIA Rel. 2.0 slots 2 x type II or 1 type III
- Toshiba internal memory expansion slot
- PS/2 keyboard port
- PS/2 mouse port
- Microphone and speaker
- External FDD port
- MS-DOS 6.22 with Toshiba enhancements.
- MS Windows for workgroups 3.11 or Windows 95

Options

8Mb RAM (PA2035U).....	£420
16Mb RAM (PA2036U).....	£805
32Mb RAM (PA2037U).....	£1259
Lithium Ion battery (PA2489UR).....	£165
Battery charger (PA2489U).....	£165
PCMCIA v.34 modem (TPCV34FUK).....	£195
Deskstation V (PA2712EY).....	£909
Executive carry case T202L.....	£34
CD-ROM.....	£215

£4245

TOSHIBA SPECIAL OFFERS

- 233-11-005 - T1910CS SX33, 200/4Mb, STN£899
- 233-11-027 - T2100CS DX2-50, 350/4Mb, STN£1099
- 233-11-015 - T3400CT DX33, 120/4Mb, TFT£1099
- 233-11-016 - T3400CT SX33, 120/4Mb, TFT£1099
- 233-11-008 - T2400CS DX2-50, 250/4Mb, STN£1149
- 233-11-018 - T3400CT SX33, 250/4Mb, TFT£1199
- 233-11-036 - T2110CS DX4-75, 350/4Mb, DS£1199
- 233-11-028 - T2100CT DX2-50, 350/8Mb, TFT£1249
- 233-11-009 - T2400CT DX2-50, 320/8Mb, TFT£1349
- 233-11-013 - T4700CT DX2-50, 320/8Mb, TFT£1599
- 233-11-041 T4850CT DX4-75, 810/8Mb£2199

TOSHIBA OPTIONS

- External Battery Charger:**
 - T3400/T3600 (2482U)£166
 - T2100.....£149
 - Others (PA2422U-E).....£107
- ExtraUniversal AC Adaptor:**
 - T1910, T4700CT, T4800 (PA2478U)£56
 - T2400 (PA2430U)£48
 - T4600 (PA2411U)£48
 - T3400, T3600 (PA2426U-E)£48
- Toshiba PCMCIA cards:**
 - PCMCIA ethernet adaptor (PCE-10BC)£125
 - PCMCIA V34 modem£195
- Other Options:**
 - Carry case others (T202L)£34
 - Deskstation IV£374 (Docking station for T4900, T4700 and T4800 models. It includes all standard ports, two full-size 16-bit slots, 5.25" drive bay, power supply and monitor stand)
 - Deskstation V£809
 - PCI expansion bus, architecture supports, 32-bit PCI as well as ISA. There are two full length PCI/ISA slots and one half-length PCI slot.
- Call for options on older models
- Third Party Options**
 - Intel 2496 fax/data modem PCMCIA.....£35
 - New media Bus Toaster SCSI adaptor.....£173
 - New Media Visual SCSI adaptor.....£149
 - New Media 16-bit sound card.....£196
 - New Media Combo ethernet card.....£125

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All prices exclude delivery and VAT (17.5%). Delivery: Systems £19, Lasers and large items £15, software and small items £10. Visa /Access/ American Express /Switch and Government orders welcome. Prices, specifications and offers are subject to change and subject to our conditions of sale copies of which are available on request. Mail order only. No collections please. Goods are normally despatched within 7 days. All orders will be fulfilled within 28 days unless otherwise specified. E&OE.



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Multimedia CD-ROM docking station for the 4000m series



Built-in CD-ROM and sound card in Extensa 550CD models



The T5000/5100 provides two lithium ion batteries without sacrificing size, weight or eliminating the floppy drives.

TEXAS INSTRUMENTS RANGE

The new range of high performance colour notebooks from Texas Instruments offer exceptional quality and features at truly remarkable prices.

The 4000M range provides fast 486DX2 or 486DX4 models with superb dual scan or TFT colour screens, built-in sound and the option of adding the portable CD-ROM dock for full-feature multimedia.

The new Extensa notebooks feature the new easy to use touchpad and are available in 2 ranges. The attractively priced 486 range (Extensa 450) does not include multimedia and features a 486DX4-75 processor with large dual scan or TFT colour screens. The Pentium® range (Extensa 550CD) is based on the Intel® 75MHz Pentium® processor with 8Mb RAM, 525Mb hard disk and includes full-feature multimedia with built-in sound, CD-ROM drive, speakers and microphone. The 550 model is also available without soundcard and CD-ROM for just £1899

The top of the range 5000 models come with 75 or 90MHz Pentium® processors, advanced docking options, exceptional battery life, built-in sound & infra-red comms and hard disks upto 1.2Gb.

4000M DX2-50 340 DS COLOUR



The UK's best value dual scan multimedia notebook. Attach a CD-ROM for just £399

- 486DX2-50 processor
- 4Mb RAM, 20Mb max
- 8Kb internal cache
- 340Mb hard disk
- 1.44mb 3.5" floppy drive
- 9.5" dual scan colour display
- 640 x 480 resolution
- 1Mb video RAM
- Interfaces: parallel, serial, keyboard/mouse, audio-in, audio out, fast SCSI II, microphone and 16-bit MIDI with game port
- Sound capabilities: 16-bit media vision jazz 16 sound card, thunderboard, CD multisection photo, CD audio and pro audio 16, internal microphone, internal speaker and bi-directional MIDI interface
- NIMH battery (3-5 Hours)
- Integral pointing device with Microsoft® drivers
- MS DOS, MS Windows® for Workgroups, Adaptec EZ-SCSI, Windows sound software and real time video with indeo video
- 2.9Kg weight, 21.6 x 27.9 x 5.1cm
- Free upgrade to Windows® 95

DX2-50 340Mb DS 9.5" colour.....£999

Other Options

- 4Mb RAM£149
- 16Mb RAM£945
- NIMH battery£85
- AC adaptor£85
- Carry case (for main unit and accessories)£39
- CD-ROM dock£399

£999

4000M DX4-75 525 TFT



Full feature TFT colour multimedia notebook. Attach a CD-ROM for just £399

- DX4-75 processor
- 4Mb or 8Mb RAM, 20Mb max
- 8Kb internal cache
- 525Mb hard disk
- 1.44Mb 3.5" floppy drive
- 10.4" TFT colour display resolution
- 1Mb video RAM
- Interfaces: parallel, serial, keyboard / mouse, audio-in, audio out, Fast SCSI II, microphone and 16-bit MIDI with game port
- Sound capabilities: 16-bit media vision jazz 16 sound card, thunderboard,
- CD multisection photo, CD audio and pro audio 16, internal microphone, internal speaker and bi-directional MIDI interface.
- NIMH battery (3-5 hours)
- Integral pointing device with Microsoft® drivers
- MS DOS, MS Windows® for Workgroups, Adapter EZ-SCSI, Windows sound software and real time video with indeo video
- 2.9Kg weight, 21.6 x 27.9 x 5.1cm
- Free upgrade to Windows® 95

DX4-75 525/4Mb 10.4" TFT£1399
DX4-75 525/8Mb 10.4" TFT£1499

Other Options

- 16Mb RAM£945
- NIMH battery£85
- AC adaptor£85
- Carry case (for main unit and accessories)£39
- CD-ROM dock£399

£1399

Extensa 550 P75 Dual Scan



The Extensa 550 series has a 10.4" dual scan screen, 75MHz Pentium® processor, 8Mb RAM, 524Mb removable hard disk and removable floppy drive which is interchangeable with an extra lithium ion battery or CD-ROM module (both are optional).

- 75MHz Pentium® processor
- 8Mb RAM, 40Mb max
- 524Mb hard disk
- 1.44Mb 3.5" floppy drive
- 10.4" dual scan colour display
- 640 x 480 resolution at 256 colours
- 1Mb video RAM
- Interfaces: EPP/ECP parallel; 16550 serial; external VGA port; PS/2 keypad / keyboard / mouse port; PCMCIA type III slot; audio in/out, microphone in; serial infrared port for wireless connection; external PCI expansion bus
- Primary NIMH battery
- 100-240v AC adapter
- Built in touchpad pointing device
- Windows® 95
- 6.2lbs with primary battery
- One year limited warranty

Extensa 550 P75/8Mb dual scan.....£1899

Options

- Lithium ion battery£159
- PCMCIA cards£Call
- Numeric keypad£50
- External battery charger£149
- Additional AC adapter£77
- Auto adaptor£99
- Port replicator£85
- Carrying case£50
- CD-ROM module£299
- 8Mb module£349
- 16Mb module£799

£1899

Extensa 550 CD P75 Dual Scan



Full feature multimedia Pentium® notebook with built-in CD-ROM drive, sound card, microphone, power and portability, the Extensa 550CD multimedia notebook has the power of the Pentium® with CD-ROM drive and 10.4" dual scan colour screen

- 75MHz Pentium® processor
- 8Mb RAM, 40Mb max
- 524Mb hard disk
- 1.44Mb 3.5" floppy drive
- 10.4" dual scan colour display
- 640 x 480 resolution at 256 colours
- 1Mb video RAM
- Interchangeable CD-ROM (2x)
- Interfaces: EPP/ECP parallel; 16550 serial; external VGA port; PS/2 keypad / keyboard / mouse port; PCMCIA type III slot; audio in/out, microphone in; serial infrared port for wireless connection; external PCI expansion bus
- 16-bit sound
- Primary NIMH battery
- 100-240v AC adapter
- Built in touchpad pointing device
- Windows® 95
- 6.4lbs with primary battery
- One year limited warranty

Extensa 550CD P75/8Mb dual scan.....£2199

Options

- Lithium ion battery£159
- PCMCIA cards£Call
- Numeric keypad£60
- External battery charger£149
- Additional AC adapter£77
- Auto adaptor£99
- Port replicator£85
- Carrying case£50
- 8Mb module£349
- 16Mb module£799

£2199

Extensa 550CDT P75 TFT



The Extensa 550CDT multimedia notebook comes with all the other features of the Extensa 550CD range. Includes CD-ROM and 10.4" TFT colour screen, yet another example of Texas Instruments value.

- 75MHz Pentium® processor
- 8Mb RAM, 40Mb max
- 524Mb hard disk
- CD-ROM drive
- 1.44Mb 3.5" floppy drive
- 10.4" dual scan colour display
- 640 x 480 resolution at 256 colours
- 1Mb video RAM
- Interchangeable CD-ROM (2x)
- Interfaces: EPP/ECP parallel; 16550 serial; external VGA port; PS/2 keypad / keyboard / mouse port; PCMCIA type III slot; audio in/out, microphone in; serial infrared port for wireless connection; external PCI expansion bus
- 16-bit sound
- Primary NIMH battery
- 100-240v AC adapter
- Built in touchpad pointing device
- Windows® 95
- 6.4lbs with primary battery
- One year limited warranty

Extensa 550CDT P75/8Mb TFT£2599

Options

- Lithium ion battery£159
- PCMCIA cards£Call
- Numeric keypad£60
- External battery charger£149
- Additional AC adapter£77
- Auto adaptor£99
- Port replicator£85
- Carrying case£50
- 8Mb module£349
- 16Mb module£799

£2599

TEXAS INSTRUMENTS

Notebooks



There are two docking stations available, the EZ Dock for the T5000 and the Dock Mate for the T5100 both offering greater connectivity



The Extensa Range features an easy to use touch pad pointing device with spacious palm rest and full size keyboard.



The Extensa 550 includes a serial infrared port for cable free printing.

4000M DX4-100 525 TFT



Full feature TFT colour multimedia notebook. Attach a CD-ROM for just £399

- DX4-100 processor
- 4Mb or 8Mb RAM, 20Mb max
- 8Kb internal cache
- 525Mb hard disk
- 1.44Mb 3.5" floppy drive
- Large TFT colour display
- 640 x 480 resolution
- 1Mb video RAM
- Interfaces: parallel, serial, keyboard / mouse, audio-in, audio out, Fast SCSI II, microphone and 16-bit MIDI with game port
- Sound capabilities: 16-bit media vision jazz 16 sound card, thunderboard,
- CD multisession photo, CD audio and pro audio 16, internal microphone, internal speaker and bi-directional MIDI interface.
- NiMH battery (3-5 hours)
- Integral pointing device with Microsoft* drivers
- MS DOS, MS Windows* for Workgroups, Adapter EZ-SCSI, Windows sound software and real time video with indeo video
- 2.9Kg weight, 21.6 x 27.9 x 5.1cm
- Free upgrade to Windows* 95

486DX4-100 525Mb 4Mb£1599
486DX4-100 525Mb 8Mb£1699

Other Options

- 16Mb RAM£945
- NiMH battery£85
- AC adaptor£85
- Carry case (for main unit and accessories).....£39

£1599

Extensa 450 Dual Scan



The new Extensa 450 notebook gives you power, flexibility and above all, value for money. Comes with 10.4" dual scan screen, Intel® DX4-75 processor, 340Mb hard disk and 4Mb RAM.

- Intel® DX4-75 processor
- 8Mb RAM, 32Mb max
- 340Mb hard disk
- 1.44mb 3.5" floppy drive
- 10.4" dual scan colour display
- 640 x 480 resolution at 256 colours
- 512Kb video RAM
- Interfaces: EPP/ECP parallel; 16550 serial; external VGA port; PS/2 keypad / keyboard / mouse port; PCMCIA type II slot; serial infrared port
- Primary NiMH battery
- 100-240v AC adapter
- Built in touchpad pointing device
- Windows* 95
- 5.0lbs (2.27kg) with primary battery
- One year limited warranty

Extensa 450 DX4-75 8Mb dual scan£1199

Options

- Lithium ion battery£159
- PCMCIA fax modem£249
- External battery charger£149
- Additional AC adapter£77
- Port replicator£85
- Carrying case£50
- 8Mb RAM module£375
- 16Mb RAM module£849

£1199

Extensa 450T TFT



The new Extensa 450T notebook gives you power, flexibility and above all, value for money. Comes with 9.4" TFT colour screen, Intel® DX4-75 processor, 340Mb hard disk and 4Mb RAM.

- Intel® DX4-75 processor
- 8Mb RAM, 32Mb max
- 340Mb hard disk
- 1.44mb 3.5" floppy drive
- 9.4" active matrix colour screen
- 640 x 480 resolution at 256 colours
- 512Kb video RAM
- Interfaces: EPP/ECP parallel; 16550 serial; external VGA port; PS/2 keypad / keyboard / mouse port; PCMCIA type II slot; serial infrared port
- Primary NiMH battery
- 100-240v AC adapter
- Built in touchpad pointing device
- Windows* 95
- 5.0lbs (2.27kg) with primary battery
- One year limited warranty

Extensa 450T DX4-75 8Mb TFT£1499

Options

- Lithium ion battery£159
- PCMCIA Fax modem£249
- External battery charger£149
- Additional AC adapter£77
- Port replicator£85
- Carrying case£50
- 8Mb RAM module£375
- 16Mb RAM module£849

£1499

5000 SERIES P75/P90



The TravelMate 5000 series combines notebook mobility and connectivity with the performance of a pentium desktop PC. With TI integrated PCI bus architecture and wireless connectivity through a serial infrared port. Plus integrated multimedia that includes 16-bit sound

- 75MHz Pentium* TCP processor, 3.3volts
- PCI bus architecture
- 8Mb RAM expandable to 32Mb
- 10.4" Active Matrix colour display or 10.5" DS colour on 5100 model
- 722Mb hard disk on 5000 TFT model, 500Mb on 5000 DS model, 1.2Gb on 5100 TFT and 5200 TFT models
- 1.44Mb 3.5" floppy drive
- EPP/ECP parallel 16550 serial interfaces
- 16-bit Media Vision Jazz 16 sound card, internal dual mode microphone, internal speaker, line in and out with mixer
- Intelligent battery system with two lithium ion battery packs
- 4mm travel keyboard, The point pointing device with Microsoft* drivers
- MS DOS and Windows* for workgroups
- Weight 6.7lbs. (2.9kg) with two battery packs
- Size 8.7" x 11" x 2.2" (22.1 x 27.9 x 5.6cm)

Models

- TM5000 75MHz Pentium* processor dual scan 8Mb 500Mb£2199
- TM5000 75MHz Pentium* processor TFT 8Mb 722Mb£2699
- TM5100 90MHz Pentium* processor TFT 8Mb 1.2Gb£3399
- TM5230 120MHz Pentium* processor TFT 8Mb 1.2Gb£3599

Options

- TM5000 Dock Mate£175
- TM5000 Dock Mate plus£349
- 8Mb RAM option kit£349
- 16Mb RAM option kit£999
- 8Mb RAM add-on kit£349

£2199

SPECIAL OFFERS



**TI TRAVELMATE
4000M NOTEBOOKS
AT VERY SPECIAL
PRICES**

- (330-11-024) 4000M DX2-50 340/4Mb 9.5" DS£999
- (330-11-015) 4000M DX4-75 455/4Mb 9.5" DS£1249
- (330-11-023) 4000M DX4-75 455/4Mb 10.4" DS£1299
- (330-11-012) 4000M DX4-75 340/4Mb 8.4" TFT£1349
- (330-11-017) 4000M DX4-100 525/4Mb 9.5" TFT£1549

FROM AS LOW AS **£999**

OFFER OPTIONS



The Portable CD-ROM docking system gives your TravelMate 4000M notebook the power of a desktop multimedia system, with all the advantages of portability. With a weight of under five pounds including battery, the ergonomically styled portable docking system includes:

- A double-speed CD-ROM drive that operates at 250 milliseconds
- Built-in stereo speakers
- Controls for volume, balance and mix
- Microsoft headphones and external microphone
- A separate NiMH battery, giving you the options of AC or battery-powered operation
- A 50-pin centronics SCSI II connection
- Battery charger system
- Optional SCSI II bay

£399

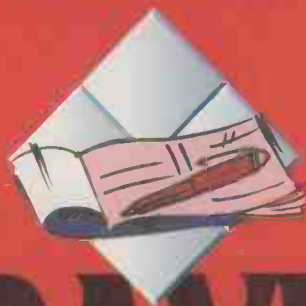
All prices exclude delivery and VAT (17.5%). Delivery: Systems £19, Lasers and large items £15, software and small items £10. Visa /Access/ American Express /Switch and Government orders welcome. Prices, specifications and offers are subject to change and subject to our conditions of sale copies of which are available on request. Mail order only. No collections please. Goods are normally despatched within 7 days. All orders will be fulfilled within 28 days unless otherwise specified. E&OE.

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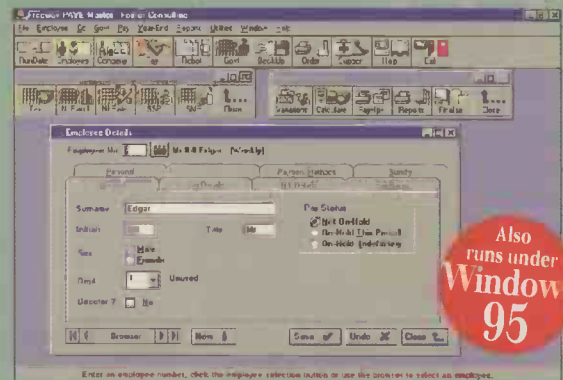
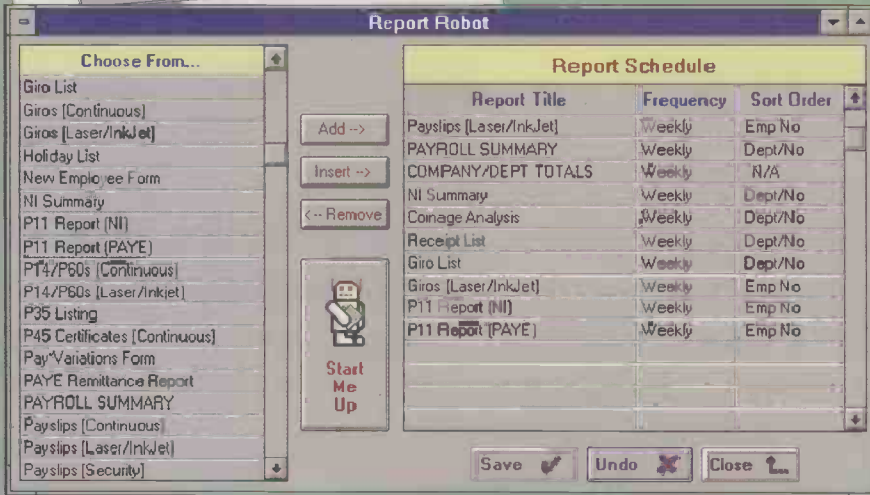
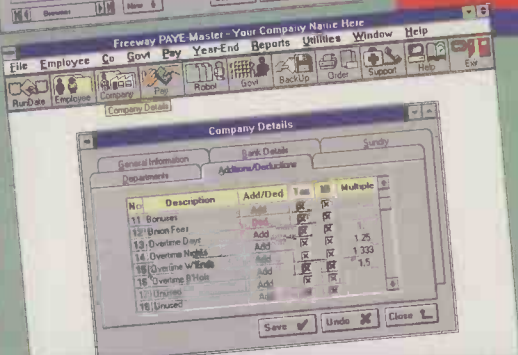
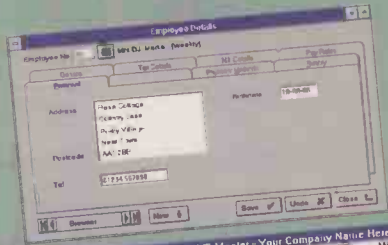
£60

Including VAT



PAYE Master

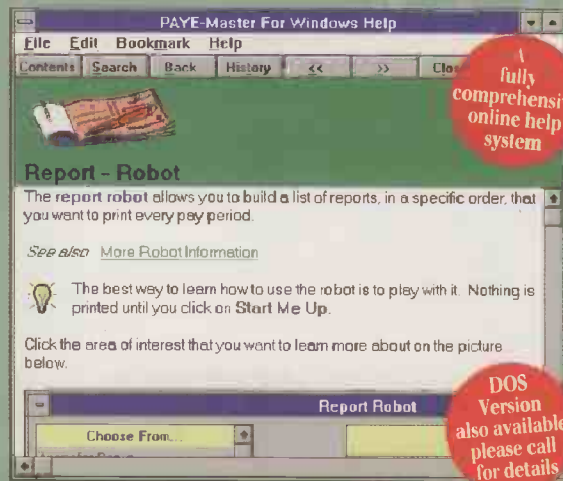
for Windows



Windows Version system requirements

MS Windows™ version 3.1 or later or MS Windows™ 95
486-33 or higher processor with 4MB RAM (8MB recommended)
Laser/Inkjet or Continuous Printer

- Weekly, fortnightly, four weekly and monthly frequencies
- Variable amounts/hours easily accommodated
- Net to Gross facility
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- P11s
- Report Robot
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- P35 Annual Return
- Cheque printing
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- Directors special N.I. rules
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Intel Pentium processor
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 PCI SVGA graphics card (2Mb VRAM)
 Removable 1.44Mb 3.5" floppy drive
 Quad-speed CD-ROM drive (tray-loading)
 FM synthesiser 16-bit stereo sound card
 Built-in twin speakers and microphone
 Infra-red comms port
 (IrDA-compliant SIR file transfer)
 Built-in trackpad and joystick
 Enhanced IDE/EPP/ECP controller
 Removable, rechargeable NiMH 23W battery
 Auto-switching 50W AC/DC adaptor
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 1 serial port, 1 parallel port
 Keyboard connector, external monitor connector
 MS-DOS 6.22 + Windows 3.11 or Windows 95
 Carrying bag
 Size (mm): 300 x 227 x 54. Weight: 3.5kg (7.7lb)

£2,220 (£2,608.50)*

Financing (individuals)

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Lease rental (companies)

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 Hi-Grade is a licensed credit broker.

*Prices in brackets include VAT

We at Hi-Grade aim to use the latest technology to keep our customers equipped for tomorrow's world. For example, our new Notino Voyager multimedia notebook computer has numerous up-to-date features, including a TFT screen, a quad-speed CD-ROM drive, an infra-red port and the ability, with a special module installed, to display full-motion video images. With a Pentium processor (anything from 75MHz to 133MHz) and PCI bus, the machine also gives wonderful performance at a modest price.

Our desktop computers and file servers are also shining examples of state-of-the-art technology, at value-for-money prices.

Hi-Grade, founded 10 years ago to make customised PCs for end users, has always put equal emphasis on product quality and customer care. We are the first firm of our kind to have joined the Direct Marketing Association, with its strict Code of Practice. We offer generous financing terms and run a unique part-exchange scheme, including buy-back of our own machines at a guaranteed price.

REST OF THE RANGE

NOTINO VOYAGER 90	£2,290 (£2690.75)
Intel Pentium, 90MHz. Otherwise as Voyager 75	
NOTINO VOYAGER 100	£2,330 (£2,737.75)
Intel Pentium, 100MHz. Otherwise as Voyager 75	
NOTINO VOYAGER 120	£2,375 (£2,790.63)
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NOTINO VOYAGER 133	£2,495 (£2,931.63)
Intel Pentium, 133MHz. Otherwise as Voyager 75	

MEMORY UPGRADES

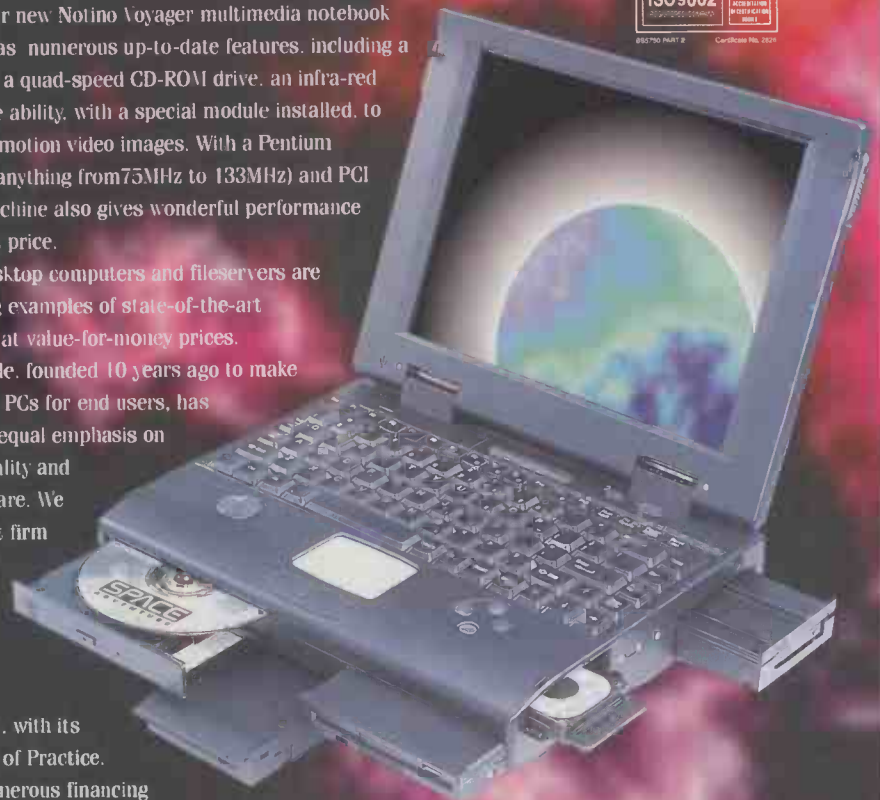
From 8Mb	
16Mb RAM	£275 (£323.13)
32Mb RAM	£815 (£957.63)

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From 500Mb	
800Mb	£120 (£141)
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up to 1280x1024 (27-86kHz) £516.00

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DYNAMITE PRO

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1Mb DRAM ARK1000PV PCI £81.00

STINGRAY PRO

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HERCULES STINGRAY 64/Video

● VRAM Performance at a DRAM price with
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2Mb EDO DRAM ARK2000PV PCI £125.00
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"Dye-sub, A4 colour printer - photographic quality"

SHARP

QA1750 16.7M colour computer & video panel £3395.00
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PCMCIA & sound £2495.00
QA1400 1.7M colour computer & video panel £2335.00
QA1100 1.7M colour computer panel £1950.00
QA350 512 colour computer panel £1270.00
QA75A 16 grey scale computer panel £999.00
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XG3780E 16.7M colour compact computer & video
projector £4495.00
XV3300S 16.7M colour video projector with Stripe Pixel
Arrangement £3415.00
XV350H 16.7M colour video projector £3415.00
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to 1280 x 1024, 0.30mm mask pitch, (30-93 KHz) £1299.00
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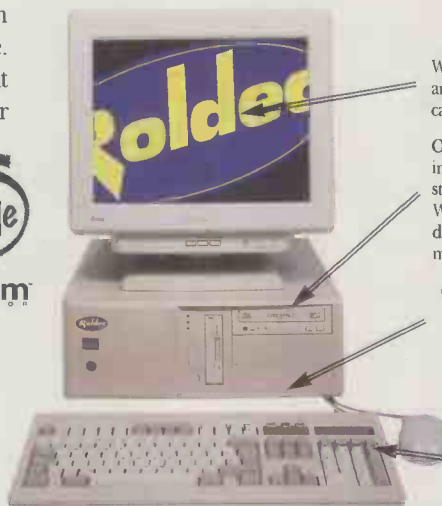
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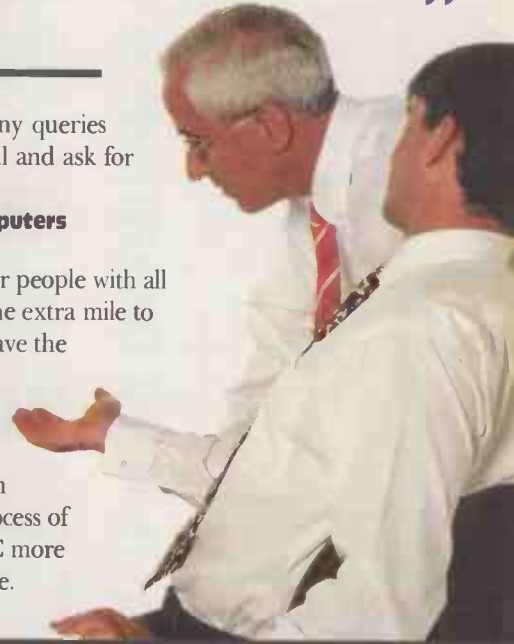
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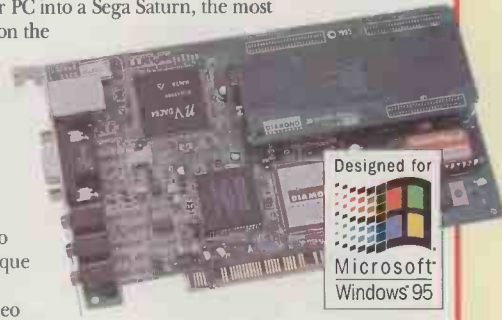
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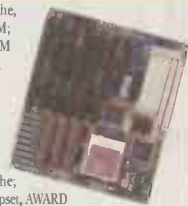
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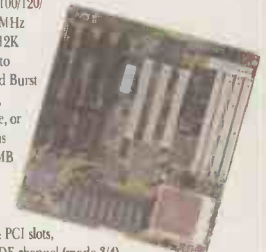
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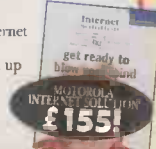
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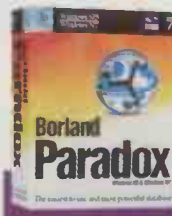
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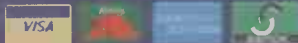


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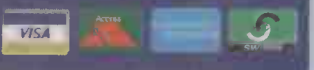
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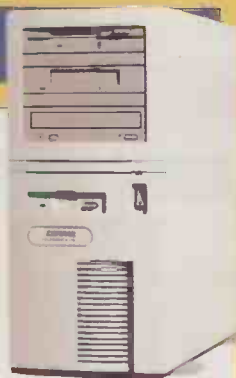
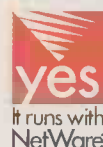
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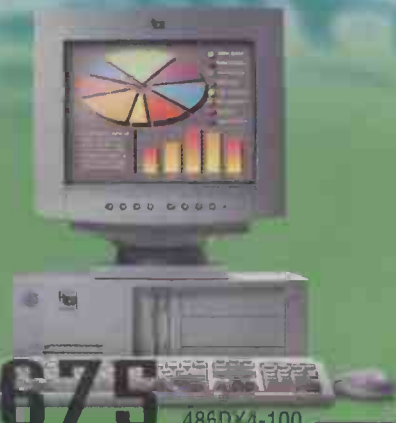


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- Quad speed internal CD-ROM drive
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- Diamond Stealth PCI 2Mb Video DRAM graphics accelerator card
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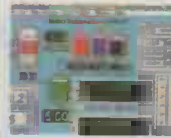
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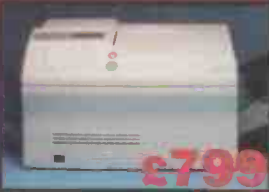
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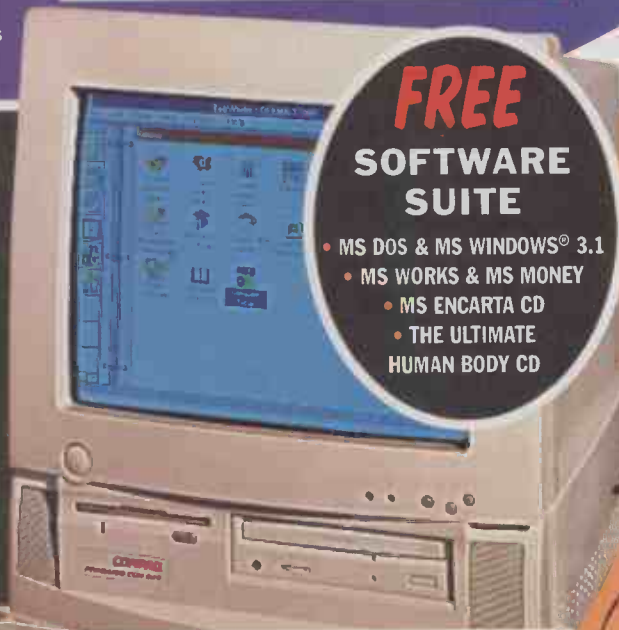
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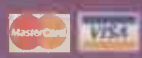
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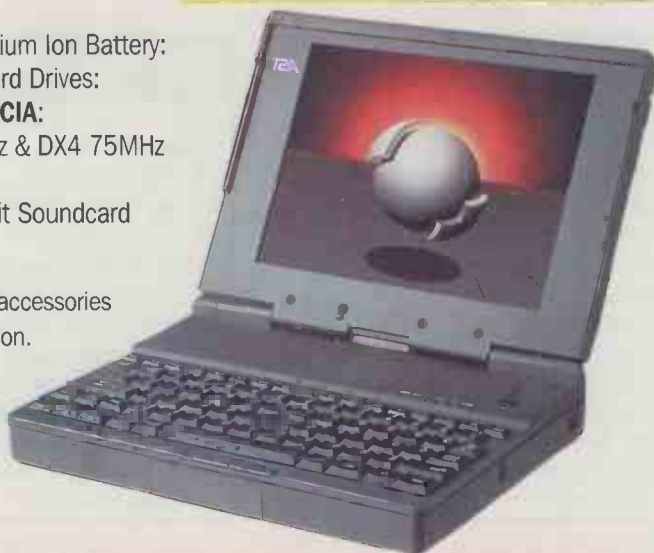
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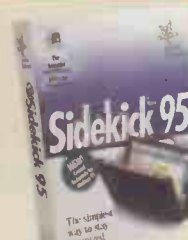
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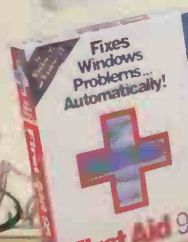
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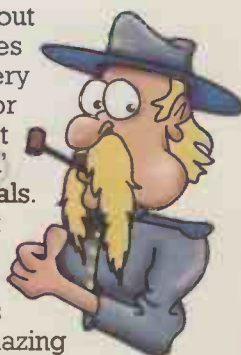
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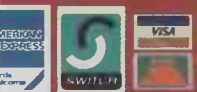
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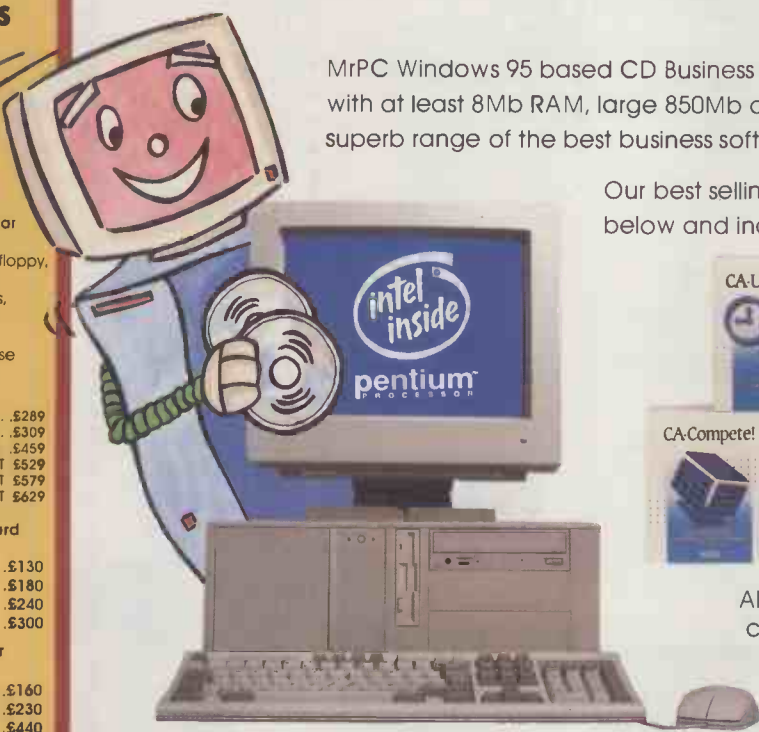
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- Select required speakers & screen

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- Double speed IDE CD-ROM drive
- 16-bit high quality soundcard
- 64-bit PCI SVGA graphics
- Microsoft Windows 95
- Lotus software suite with Lotus 1-2-3 v5, Ami Pro, Organizer & Approach v3 pre-loaded
- CA Simply Business Suite with 5 leading packages
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- Select required speakers & screen

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- Intel 75MHz Pentium® processor
- 850Mb Enhanced IDE hard disk with 256K Cache
- 8Mb RAM
- 1.44Mb 3.5" floppy drive
- Desktop case
- 102 Keyboard and mouse
- Quad speed IDE CD-ROM drive
- 14.4 BABT approved fax/data modem
- 16-bit high quality sound card
- 64-bit PCI SVGA graphics
- Microsoft Windows 95
- Lotus software suite with Lotus 1-2-3 v5, Ami Pro, Organizer & Approach v3 pre-loaded
- CA Simply Business Suite with 5 leading packages
 - CA Compete Spreadsheet
 - CA Textor Wordprocessor
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- Extra ribbons
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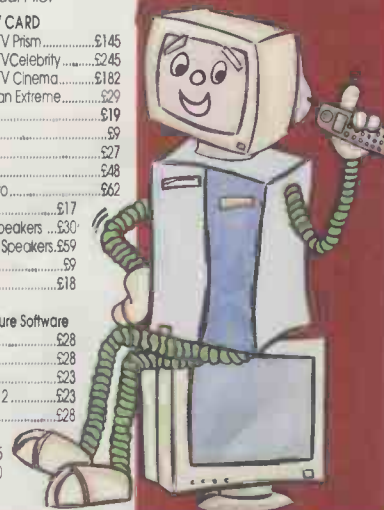
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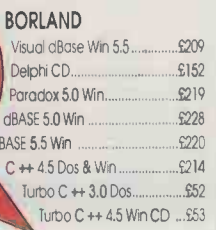
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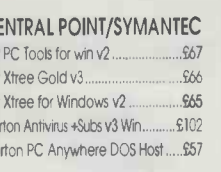
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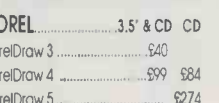
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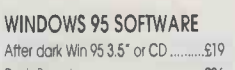
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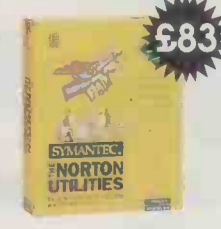


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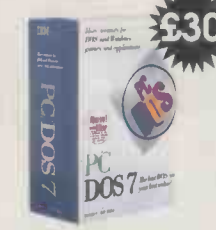
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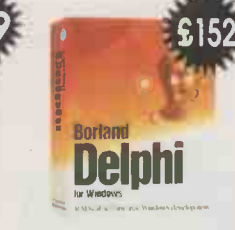
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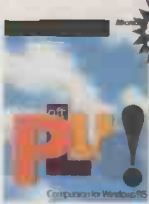
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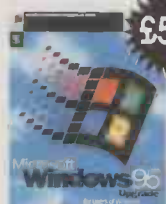
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MS WFWG ADD-ON v3.11 MLP20	£671

LANGUAGES

MS Delta v1 Win	£185
MS Delta v1 Win MLP5	£172

MICROSOFT VISUAL BASIC & C++

MS Visual Basic v3 Win	£64
MS Visual Basic v3 Win PRO	£190
MS Visual Basic v1.0 DOS	£81
MS Visual Basic v1.0 DOS PRO	£190
MS Visual C++ v1.5 Win	£55
MS Visual C++ v2 Win PRO CD	£235
MS Visual CONTROL V1.0 Win	£57
MS Visual TOOLS v1.5	£178

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MS 500 Nations CD	£19
MS Ancient Lands CD	£18
MS Arcade Win v1	£10
MS Autoroute Express UK & Ireland v4 CD	£41
MS Autoroute Express UK & Ireland 3.5"	£29
MS Autoroute Express Europe CD	£45
MS Autoroute Express Europe 3.5"	£34
MS MS Bookshelf Win '95	£39
MS Beethoven Win CD	£19
MS Best of Entertainment Windows	£10
MS Cinemania '96 Win CD	£19
MS Creative Writer Win	£19
MS Dinosaur Win CD	£19
MS Dogs CD	£19
MS Encarta '96 Win CD	£32
MS Explorapedia	£19
MS Fine Artist v1 Win CD	£19
MS Flight Sim v5.1	£24
MS G Wilson Haunted House Win	£17
MS Golf v2 Win	£17
Win CD	£19
MS Golf ADD-ON Mauna Kea	£9

MS Golf ADD-ON Pinehurst £9

MS Golf ADD-ON Banff	£9
MS Magic BUS - Human Body	£25
MS Magic BUS - Solar System	£25
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MS Musical Instruments	£18
MS Multimedia Viewer v2 CD	£184
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MS Scenes Sierra Club	£13
MS Scenes Outer Space	£13
MS Scenes Impressionist	£13
MS Schubert	£18
MS Sound Bits MGM Win	£13
MS Sound Bits World Win	£13
MS Sound Bits Hanna Barbara Win	£19
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MS Strauss CD	£18
MS Stravinski CD	£18
MS Wine Guide	£20
MS Oceans	£18
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MS Return of Arcade	£18
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MS Easyball and Explorapedia	£29
MS Encarta 96 NEW	£32
MS Fury & MS Sidewinder Joystick NEW	£55
MS 3D MovieMaker NEW	£29



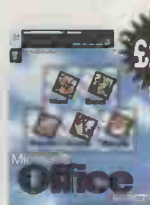
£39



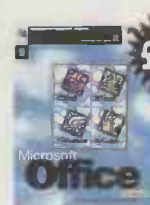
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£82



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Encarta '96 CD

MS Access v7 95 CCP

MS Word v7 95 CCP

MS Office 95 Professional CCP

MS Office 95 CCP

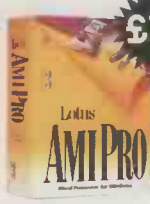
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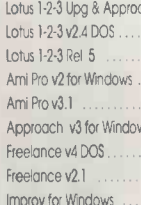
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Lotus Organizer v2.1



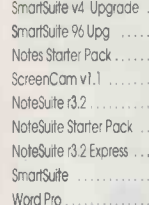
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Lotus Freelance v2.1



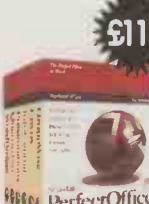
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Lotus Write v2



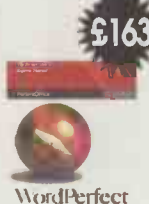
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SmartPics clipart



£115

PerfectOffice Upgrade



£163

WordPerfect



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Quattro Pro v6



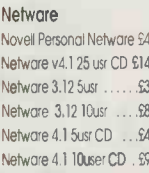
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Lotus SmartSuite 96 special price for users of any Lotus product

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CD or 3.5" £348

Perfect Office Std £155

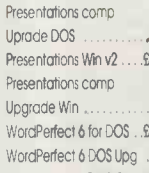
Perfect Office Upg £113

Perfect Office CU £143

Perfect Office Prof upgrade CD £179

Perfect Office Prof upgrade 3.5 £179

Presentations DOS 3.5 £214



WordPerfect 6.1 for Win

£105

WordPerfect 6.1 Win Upg

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WordPerfect 6.1 Win Com Upg

£84

Quattro Pro for Win v5

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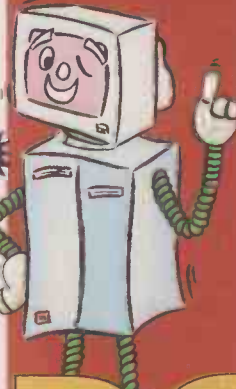
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These powerful full-feature multimedia systems come with IBM's superb operating system free of charge and include Lotus SmartSuite and other business and leisure applications. Windows 3.1 option is also available. These systems are very popular because of the low prices and are ideal for home use.

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486DX2-66 4 850 MM

- 486DX2-66 processor with internal cache
- 850Mb enhanced IDE hard disk with 256K cache
- 4Mb RAM
- 1.44Mb 3.5" floppy drive
- Mini-tower case
- 102 keyboard
- Double speed IDE CD-ROM drive
- 16-bit high quality sound card
- 16-bit SVGA graphics
- Mouse optional extra
- PC DOS 7 & IBM OS/2 Warp v3 (Windows* 3.1 is optional extra)
- Lotus SmartSuite for OS/2 with the following superb programs
 - Lotus 1-2-3 spread sheet
 - Lotus Ami Pro word processor
 - Lotus Freelance Graphics
- Leisure & educational software
- Zool 2 multimedia CD
- Select required speakers, mouse & screen

£449 + VAT

With 14" .28 NI screen & stereo 4W speakers £619

MrPC Multimedia 2

486DX4-100 8 850 MM

- 486DX4-100 processor with internal cache
- 850Mb enhanced IDE hard disk with 256K cache
- 8Mb RAM
- 1.44Mb 3.5" floppy drive
- Mini-tower case
- 102 keyboard
- Double speed IDE CD-ROM drive
- 16-bit high quality sound card
- 16-bit SVGA graphics
- Mouse optional extra
- PC DOS 7 & IBM OS/2 Warp v3 (Windows* 3.1 is optional extra)
- Lotus SmartSuite for OS/2 with the following superb programs
 - Lotus 1-2-3 spread sheet
 - Lotus Ami Pro word processor
 - Lotus Freelance Graphics
- Leisure & educational software
- Zool 2 Multimedia CD
- Select required speakers, mouse & screen

£589 + VAT

With 14" .28 NI screen & stereo 4W speakers £759

MrPC Multimedia 3

P75 8 850 MM

- Intel® 75MHz Pentium® processor
- 850Mb enhanced IDE hard disk with 256K cache
- 8Mb RAM
- 1.44Mb 3.5" floppy drive
- Mini-tower case
- 102 keyboard
- Double speed IDE CD-ROM drive
- 16-bit high quality sound card
- 64-bit SVGA PCI graphics
- Mouse optional extra
- PC DOS 7 & IBM OS/2 Warp v3 (Windows* 3.1 is optional extra)
- Lotus SmartSuite for OS/2 with the following superb programs
 - Lotus 1-2-3 spread sheet
 - Lotus Ami Pro word processor
 - Lotus Freelance Graphics
- Leisure & educational software
- Zool 2 multimedia CD
- Select required speakers, mouse & screen

£639 + VAT

With 14" .28 NI screen & stereo 4W speakers £809



MrPC multimedia 4: 75MHz Pentium® desktop model with quad speed CD-ROM £60 extra

MrPC multimedia 4B: 100MHz Pentium® 256K cache, midi-tower with quad speed CD-ROM, 1.08Gb drive £799

MrPC Windows® 95 Based Multimedia Systems

These full-feature ready to use multimedia systems come optimised for Windows® 95 and include at least 8Mb RAM, large 850Mb hard disk, fast CD-ROM drives and a bundle of the best business software from Lotus and CA Computer Associates. Our best buy 75MHz Pentium® model 8 also includes a fast 14.4 BAPT modem and quad speed CD-ROM.

MrPC Multimedia 6

486DX4-100 8 850 Win95 MM

- 486DX4-100 processor with internal cache
- 850Mb enhanced IDE hard disk with 256K cache
- 8Mb RAM
- 1.44Mb 3.5" floppy drive
- Desktop case
- 102 keyboard and mouse
- Double speed IDE CD-ROM drive
- 16-bit high quality sound card
- 32-bit SVGA graphics
- Microsoft® Windows® 95
- Lotus software suite with Lotus 1-2-3 v5, Ami Pro, Organizer & Approach v3 pre-loaded
- CA Simply Business Suite with 5 leading packages
 - CA Complete spread sheet
 - CA Textor word processor
 - CA Simply Accounts
 - CA Up-to-Date Organizer
 - CA Present graphics pack
- Zool 2 multimedia CD
- Select required speakers & screen

£649 + VAT

With 14" .28 NI screen & stereo 4W speakers £819

MrPC Multimedia 7

P75 8 850 Win95 MM

- Intel® 75MHz Pentium® processor
- 850Mb enhanced IDE hard disk with 256K cache
- 8Mb RAM
- 1.44Mb 3.5" floppy drive
- Desktop case
- 102 keyboard and mouse
- Double speed IDE CD-ROM drive
- 16-bit high quality sound card
- 64-bit PCI SVGA graphics
- Microsoft® Windows® 95
- Lotus software suite with Lotus 1-2-3 v5, Ami Pro, Organizer & Approach v3 pre-loaded
- CA Simply Business Suite with 5 leading packages
 - CA Complete spread sheet
 - CA Textor word processor
 - CA Simply Accounts
 - CA UpToDate Organizer
 - CA Present graphics pack
- Zool 2 multimedia CD
- Select required speakers & screen

£699 + VAT

With 14" .28 NI screen & stereo 4W speakers £869

MrPC Multimedia 8

P75 8 850 Fax Win95 MM

- Intel® 75MHz Pentium® processor
- 850Mb enhanced IDE hard disk with 256K cache
- 8Mb RAM
- 1.44Mb 3.5" floppy drive
- Desktop case
- 102 keyboard and mouse
- Quad speed IDE CD-ROM drive
- 14.4 BAPT approved fax/data modem
- 16-bit high quality sound card
- 64-bit PCI SVGA graphics
- Microsoft® Windows® 95
- Lotus software suite with Lotus 1-2-3 v5, Ami Pro, Organizer & Approach v3 pre-loaded
- CA Simply Business Suite with 5 leading packages
 - CA Complete spread sheet
 - CA Textor word processor
 - CA Simply Accounts
 - CA UpToDate Organizer
 - CA Present graphics pack
- Zool 2 multimedia CD
- Select required speakers & screen

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MrPC multimedia 5:
486DX2-66 model £50 less



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Simply specify your required configuration of system using the 5 stage process listed below.

These systems do not include the free software included with our best buy multimedia systems shown on the left.

1. Select the Processor Base System

All bases include 1.44Mb floppy drive, processor, 4Mb or 8Mb RAM, SVGA graphics, IDE controller, standard ports and keyboard.

Mini-Tower Models

486DX2-66 4Mb MT	£269
486DX4-100 4Mb MT	£289
75MHz Pentium®, 8Mb MT	£449
100MHz Pentium®, 8Mb MT	£519
133MHz Pentium®, 8Mb MT	£619

Desktop Models

486DX2-66 4Mb DT	£289
486DX4-100 4Mb DT	£309
75MHz Pentium®, 8Mb DT	£459
100MHz Pentium®, 8Mb DT	£529
120MHz Pentium®, 8Mb DT	£579
133MHz Pentium®, 8Mb DT	£629
686-100 8Mb DT	£669

2. Select the Enhanced IDE Hard Disk

850Mb	£130
1.08Gb	£180
1.6Gb	£240
2.0Gb	£300

3. Select the Screen. All Screens are SVGA Colour.

14" SVGA .28dp	£160
15" SVGA .28dp	£230
17" SVGA .28dp	£440

4. Select the CD/Multimedia Options

Double speed CD-ROM	£40
Quad speed CD-ROM	£100
Six speed CD-ROM	£150
Double CD-ROM, 16-bit sound card & speakers	£80
Quad CD-ROM, 16-bit sound card & speakers	£140
Six CD-ROM, 16-bit sound card & speakers	£190

5. Additional Options

Windows® 3.1	£49
MS DOS 6.22 & Windows® 3.11 for Workgroups	£call
Windows® 95	£call
RAM upgrade per 4Mb	£100
800Mb tape back-up	£150
3.2Gb tape back-up	£220
9624 fax/data modem	£35
14.4 fax/data modem	£80
14.4 voice fax/data modem	£100
28.8 fax/data modem	£159
16-bit sound card	£30
4W speakers	£10
15W speakers	£30
70W speakers	£60
Standard mouse	£9
Deluxe mouse	£19
PC Joystick	£19
Mouse mat	£Call
Back-up CD for OS/2 MM Systems	£Call
Back-up CD for Win95 MM Systems	£Call

Take a look at my 'Best Buy' P75 multimedia Model 4 system which includes a fast Intel® 75MHz Pentium® processor, quad speed CD-ROM drive, large 850Mb hard disk and superb software bundle including Lotus software suite All this at an amazing £869 with crisp sharp 14" .28dp NI screen, and stereo speakers.

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MrPC Multimedia Best Buy

- Intel® 75MHz Pentium® processor
- 850Mb EIDE hard disk
- 256K hard disk cache
- 8Mb RAM
- 1.44Mb 3.5" floppy drive
- Desktop case with keyboard & mouse
- Quad speed IDE CD-ROM drive
- 16-bit high quality sound card
- 64-bit PCI SVGA graphics
- PC DOS & OS/2 Warp
- Lotus software suite for OS/2
- Zool 2 multimedia CD
- Select required speakers and screen

£699 + VAT

With 14" .28 NI screen, stereo 4W speakers £869



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- 3 HP DeskJet 340.....£167
- 4 HP DeskJet 1600C.....£814
- 5 HP LaserJet 4+.....£962
- 6 HP LaserJet 5MP.....£694
- 7 HP LaserJet 4M+.....£1282
- 8 HP LaserJet 5Si.....£1979

Terms & conditions
 All prices are subject to VAT (17.5%) and delivery and may change without notice. Goods are normally delivered within a few days of cleared payment. All orders will be fulfilled within 28 days unless otherwise notified. No surcharges are made to Access, Visa, Amex or Switch. Goods are not supplied on a trial basis. Credit account orders are normally 3% extra. Errors and omissions exempted. Business user prices shown. End user enquiries welcome.

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- ◆ Superb portable with optional auto sheet feed and colour kit
- ◆ Prints up to 3ppm
- ◆ 600 x 600 dpi
- ◆ 6 built-in fonts
- ◆ Built-in sheet feeder
- Options
- ◆ Colour kit.....£38

HP DESKJET 600
£179




- ◆ Standard DeskJet for affordable, high quality business printing
- ◆ 14 scalable fonts
- ◆ 16Kb buffer
- ◆ Prints up to 3ppm
- ◆ 600 x 600 dpi
- ◆ Built-in sheet feeder
- ◆ 3 year warranty

HP DESKJET 660C
£237



- ◆ Colour DeskJet with simple operation and exceptional quality output
- ◆ 80Kb buffer
- ◆ Prints up to 4ppm
- ◆ 600 x 300 dpi
- ◆ 6 built-in typefaces
- ◆ Built-in sheet feeder
- ◆ 3 year warranty
- HP DeskJet 850C.....£325

HP LASERJET 5L
£344



- ◆ Entry level with 26 scalable fonts
- ◆ Prints upto 4ppm
- ◆ 300 dpi
- ◆ 1Mb RAM
- ◆ Max 8000 page per month

OFFICEJET LX
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The OfficeJet combines printer, fax, PC fax, copier and scanner in one neat stylish package which is absolutely ideal for the small business or home office.

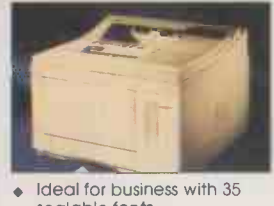
HP DeskJet 1600C.....£814
 HP DeskJet 1600CPS.....£1218

HP LASERJET 5P
£567



- ◆ Entry level with 45 scalable fonts
- ◆ Prints upto 4ppm
- ◆ 600dpi
- ◆ 2Mb RAM
- HP LASERJET 5MP
- ◆ As above with Postscript and 6Mb RAM£694

HP LASERJET 4 +
£962



- ◆ Ideal for business with 35 scalable fonts
- ◆ Prints upto 12ppm
- ◆ 600 dpi
- ◆ 2Mb RAM
- HP LASERJET 4M PLUS
- ◆ As above with Postscript and 6Mb RAM£1282

HP LASERJET 4V
£1357



- ◆ The new network printer that offers A4/A3 size printing
- ◆ Prints upto 16ppm
- ◆ 600 dpi
- ◆ 4Mb RAM
- HP LASERJET 4MV
- ◆ As above with built-in network interface.....£1960

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£1979

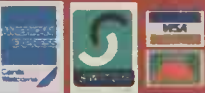


- ◆ High speed with 45 scalable fonts
- ◆ Prints up to 16ppm
- ◆ 600 dpi
- ◆ 4Mb RAM
- ◆ Network printer
- HP LASERJET 5Si MX
- ◆ As above with PostScript and 12Mb RAM£2899

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1. Select the Processor Base System.
(Includes 1.44Mb floppy, 4Mb or 8Mb RAM, SVGA graphics, IDE controller, standard ports, Mini-Tower 5 bay case and keyboard)

Mini Tower
486DX2-66 4Mb MT ... £269
486DX4-100 4Mb MT ... £289
Pentium® 75 8Mb MT ... £449
Pentium® 100 8Mb MT ... £579
Pentium® 133 8Mb MT ... £619

2. Select the IDE Hard Disk.
850Mb £130
1.08Gb £180
1.6Gb £240
2.0Gb £300

3. Select the colour screen.
14" SVGA NI .28 £160
15" SVGA NI £230
17" SVGA NI £440

4. Select the CD / Multimedia Options.
Double speed CD-ROM drive alone £40
Double speed CD-ROM Plus 16-bit sound card & speakers £80
Quad speed CD-ROM drive alone £100
Quad speed CD-ROM drive plus 16-bit sound card & speakers £140
Quad speed CD-ROM drive plus 16-bit sound card & speakers £140
Six speed CD-ROM £150
Six speed CD-ROM plus 16-bit sound card and speakers £190

5. Additional Options.
Windows 3.1 £49
Windows '95 £Call
DOS & Windows 3.11 for Workgroups £Call
RAM upgrade per 4Mb £100
486 video RAM
1Mb to 2Mb £35
800Mb tape streamer £150
3.2Gb omega tape streamer £220
Tape cartridge £Call
9624 data/fax modem £35
14.4 data/fax modem £80
28.8 data/fax modem £159
PC joystick £19
16-bit sound card £30
Standard mouse £9
Deluxe mouse £19
4W Stereo speakers £10
15W Stereo speakers £30
70W Stereo speakers £60

Options 2-5 can only be purchased with a PC system

These multimedia tower systems provide incredible specification at truly remarkable prices. Select from our best selling multimedia configurations listed below which include a massive software bundle including Lotus Smartsuite software or you can specify a completely tailor-made MrPC system using the modular price list on the left.



MrPC Multimedia 1 486DX2-66 4 850 MM

- 486DX2-66 processor with internal cache
- 850Mb Enhanced IDE hard disk with 256K cache
- 4Mb RAM
- 1.44Mb 3.5" floppy drive
- Mini-tower case
- 102 keyboard
- Double speed IDE CD-ROM drive
- 16-bit high quality sound card
- 16-bit SVGA graphics
- Mouse optional extra
- PCDOS 7 and IBM OS/2 Warp v3 (Windows 3.1 is optional extra)
- Lotus Smartsuite for OS/2 with the following superb programs -
-Lotus 1-2-3 spreadsheet
-Lotus Ami Pro word processor
-Lotus Freelance Graphics
- Leisure & Educational Software
- Zool 2 Multimedia CD
- Select required speakers, mouse and screen

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+ VAT

With 14" .28 NI Screen & stereo 4W speakers £619

MrPC Multimedia 2

486DX-100 model with 8Mb RAM £140 extra

MrPC Multimedia 3 P75 8 850 MM

- 75MHz Intel® Pentium® processor with internal cache
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- 8Mb RAM
- 1.44Mb 3.5" floppy drive
- Mini-tower case
- 102 keyboard
- Double speed IDE CD-ROM drive
- 16-bit high quality sound card
- 64-bit SVGA graphics
- Mouse optional extra
- PCDOS 7 and IBM OS/2 Warp v3 (Windows 3.1 is optional extra)
- Lotus Smartsuite for OS/2 with the following superb programs -
-Lotus 1-2-3 spreadsheet
-Lotus Ami Pro word processor
-Lotus Freelance Graphics
- Leisure & Educational Software
- Zool 2 Multimedia CD
- Select required speakers, mouse and screen

£639
+ VAT

With 14" .28 NI Screen & stereo 4W speakers £809

MrPC Multimedia 4

P75 desktop model with quad speed CD-ROM drive £60 extra

MrPC Multimedia 4B P100 8 1.08Gb MM

- 100MHz Intel Pentium® processor
- 1.08GbMb Enhanced IDE hard disk with 256K cache
- 8Mb RAM, 256K cache
- 1.44Mb 3.5" floppy drive
- Midi-tower case
- 102 keyboard
- Quad speed IDE CD-ROM drive
- 16-bit high quality sound card
- 64-bit SVGA PCI graphics
- Mouse optional extra
- PCDOS 7 and IBM OS/2 Warp v3 (Windows 3.1 is optional extra)
- Lotus Smartsuite for OS/2 with the following superb programs -
-Lotus 1-2-3 spreadsheet
-Lotus Ami Pro word processor
-Lotus Freelance Graphics
- Leisure & Educational Software
- Zool 2 Multimedia CD
- Select required speakers, mouse and screen

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With 14" .28 NI Screen & stereo 4W speakers £969

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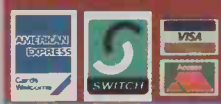
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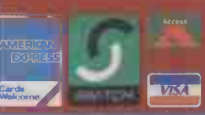
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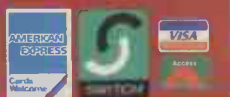


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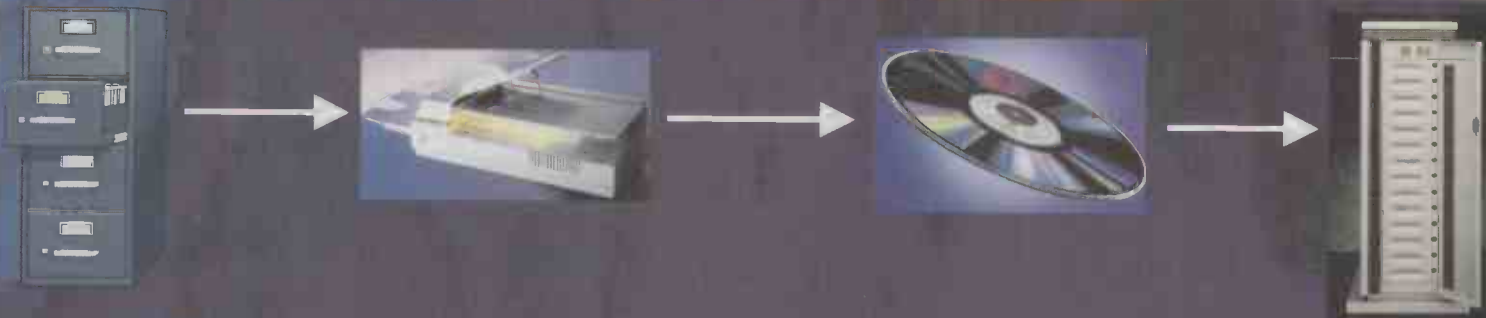
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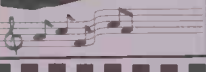
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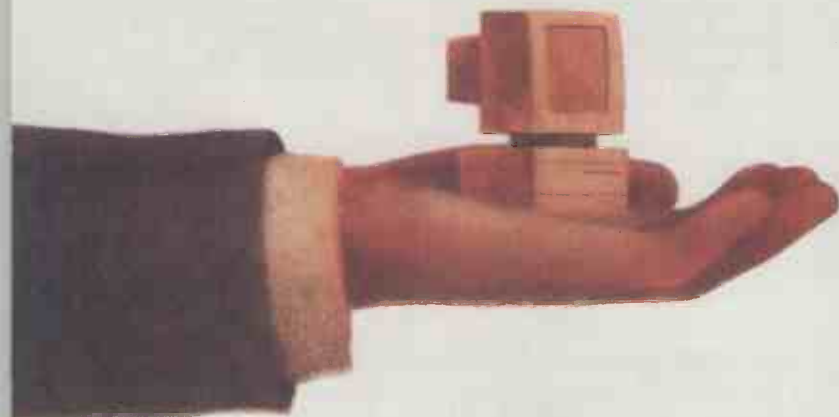
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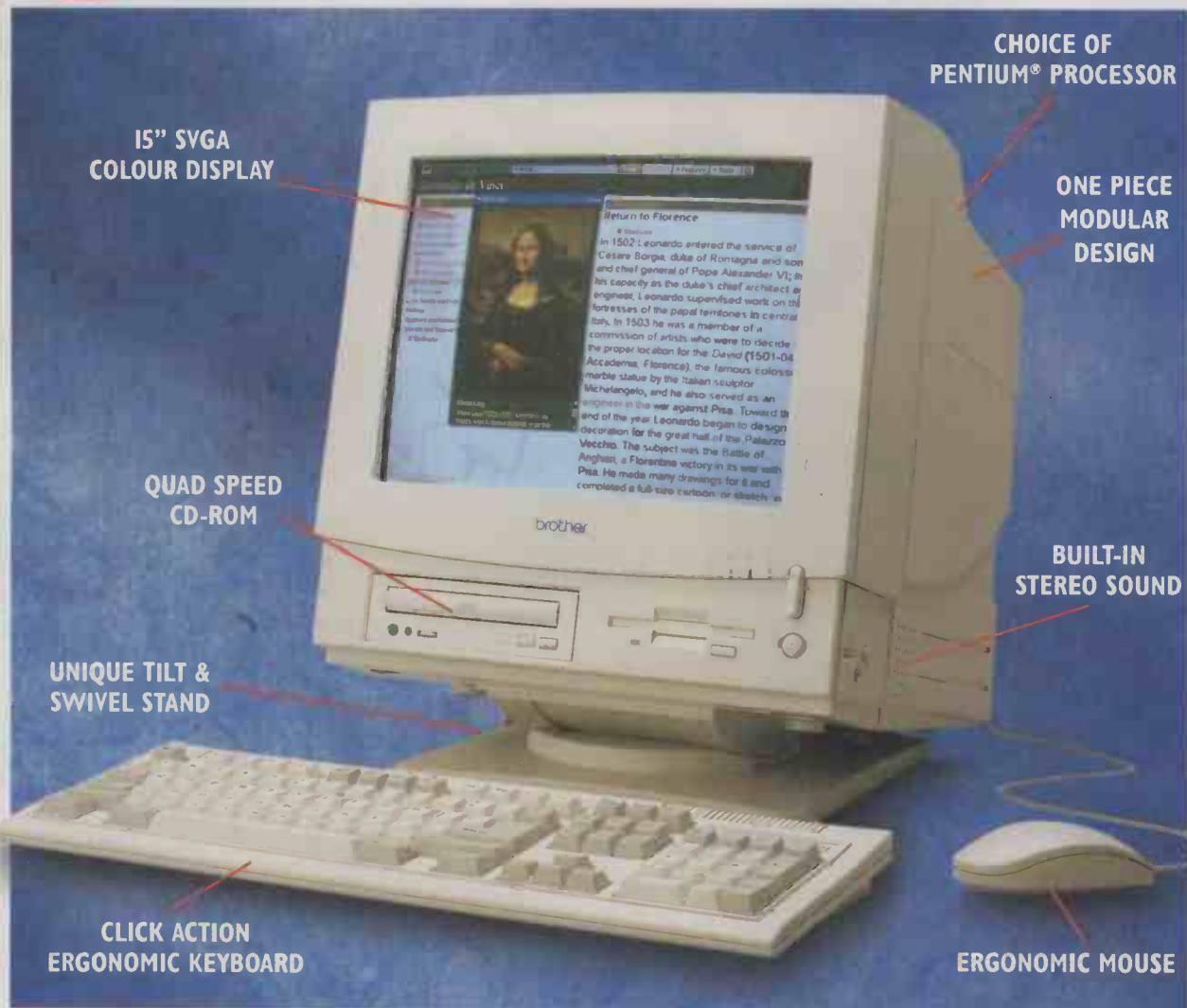
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ERGONOMIC

Conveniently front-mounted controls, combined with the practical Tilt & Swivel feature, allow you to customise display settings. Innovative features such as the full screen, mute, and suspend switches give you complete

control over the computing environment. In traditionally designed PC's, frequently used controls and

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VERSATILE

A spare drive bay allows for a second hard drive and six expansion slots provide the capacity for personalised configurations. The optional AV pedestal, with its 5W detachable speakers and hi-fi sub-woofer, is a must for the music connoisseur. Optional TV Tuner and MPEG cards allow you to optimise the full screen display.

EASE OF SERVICE

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Solo The All-in-One MultiMedia Solution

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Solo FOR THE OFFICE - Free up your desk space!



BROTHER SOLO SPECIFICATION

- Intel Pentium® Processor: 75MHz, 100MHz or 120MHz
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- 850Mb fast IDE Hard Disk (1.6Gb option)
- 256K Cache RAM
- PCI 1Mb Graphics Card
- Quad speed CD-ROM
- 16-bit Soundcard and built-in Stereo Speakers
- 15" SVGA LR NI 0.28 Colour Display
- EPA EnergyStar Compliant
- 3.5" 1.44MB floppy drive
- Serial, Parallel and games port
- Spare hard drive bay
- 4 x 16-bit ISA/2 x 32-bit PCI expansion slots
- 102 key keyboard and mouse
- Tilt & Swivel design
- 'Split and Swing Open' mechanism for easy reconfiguration and service
- Windows 95 or Windows 3.11 and MS-DOS 6.22
- MultiMedia 96 Software Package (see below)
- Dimensions: 360 x 375 x 430mm
- 2 year warranty (1st year on-site)

MULTIMEDIA 96 SOFTWARE PACKAGE

- **Encarta 96 CD English Edition**
MultiMedia Encyclopaedia developed specifically for the UK
- **CorelDraw 4.0 CD**
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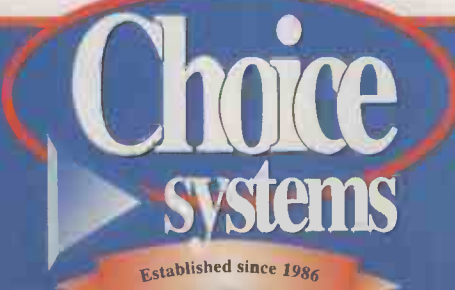
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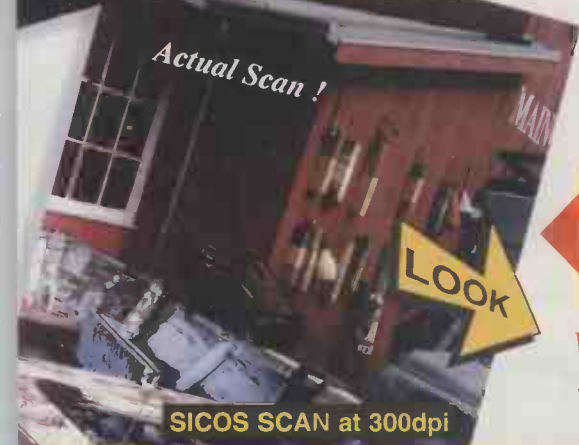
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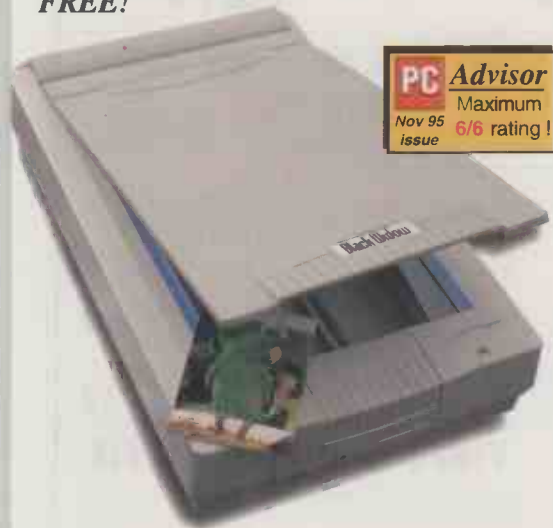
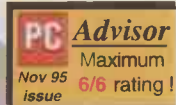
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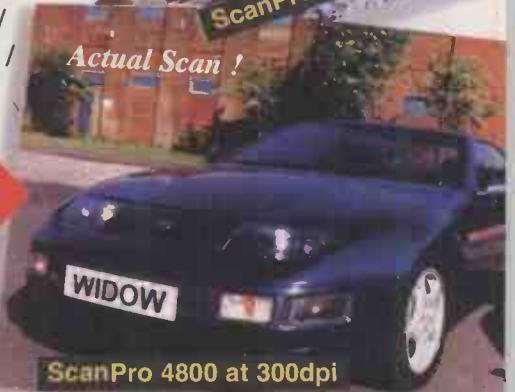
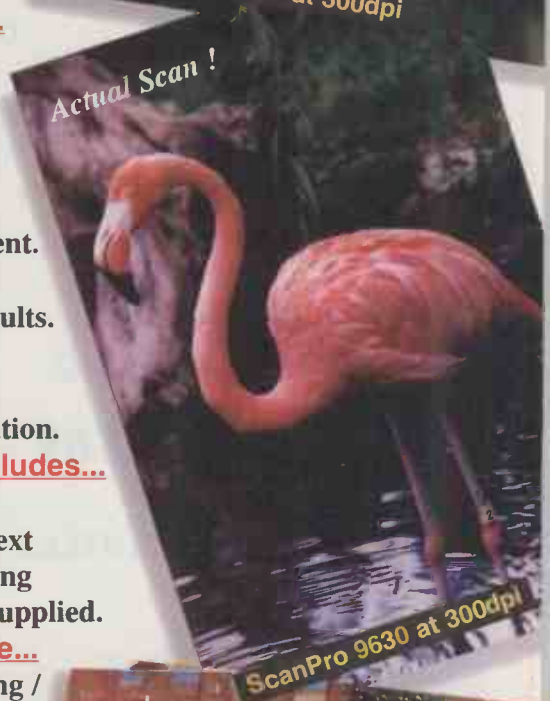
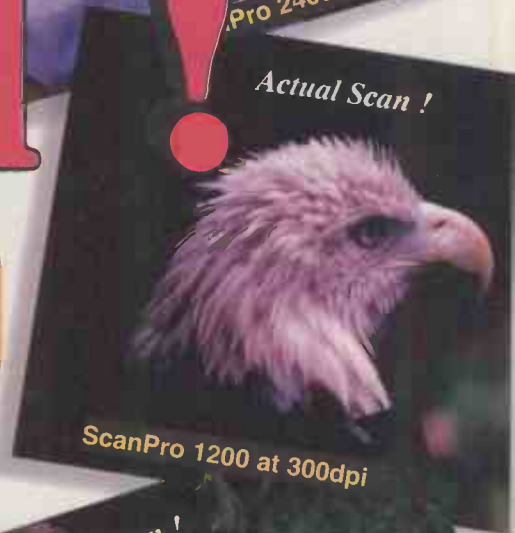
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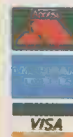
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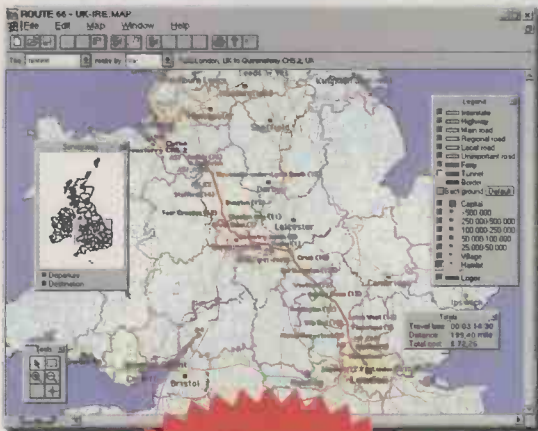
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Designed for
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and runs 32-bit
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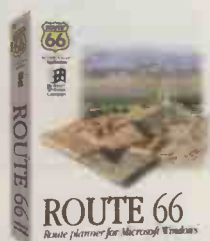
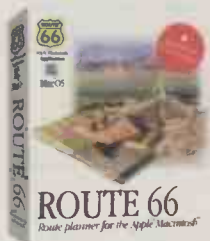
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¹The Map of Europe and the map of the UK & Ireland are bundled with the application

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- 1.44Mb Floppy Disk Drive
- 1 Parallel & 2 Fast Serial Ports
- Desktop or Mini Tower Case w/200W PSU
- 102 Key Keyboard
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- Support for EDO RAM
- Support for Pipeline Burst Cache Module
- Plug 'N' Play Bios
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- 1Mb 64 Bit DRAM PCI Video Adaptor
- 14" MPR2 NI (800x600)
- 256Kb W/B Cache Memory
- Free Slots: 2PCI & PCI or ISA & 4 ISA
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- 1 Parallel & 2 Fast Serial Ports
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- 102 Key Keyboard
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- 850Mb EIDE HDD
- 1Mb 64 Bit DRAM PCI Video Adapter
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- 256Kb W/B Cache Memory
- Free Slots: 2 PCI & 1 PCI or ISA & 4 ISA
- 1.44Mb Floppy Disk Drive
- 1 Parallel & 2 Fast Serial Ports
- Desktop or Mini Tower Case w/200W PSU
- 102 Key Keyboard
- Serial Mouse



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Rapier P100 Multimedia

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- Intel Pentium Running at 100MHz Processor • 8Mb RAM
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- 1Mb 64 Bit DRAM PCI Video Adapter
- 15" MPR2 NI (1280 x 1024) 0.28dp
- 256Kb W/B Cache Memory • 1.44Mb Floppy Disk Drive
- Free Slots: 2 PCI & 1 PCI or ISA & 4 ISA
- 1 Parallel & 2 Fast Serial Ports
- Desktop or Mini Tower Case w/200W PSU
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- Quad Speed CD-ROM Drive
- 16 Bit Sound Card
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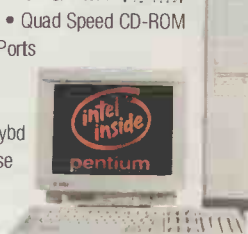
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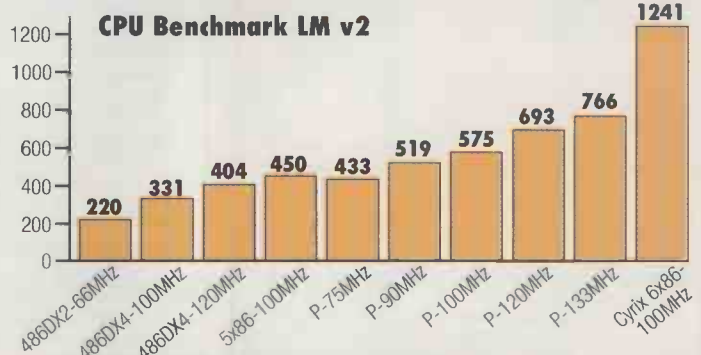
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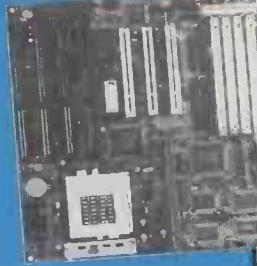
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- Scan Frequency: 30KHz-65KHz
- Display Size: 260x195mm
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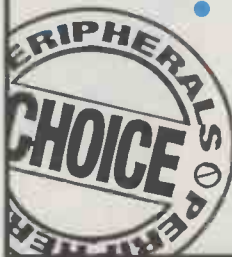


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- Enhanced IDE Hard Disc
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- 14" Non-Interlaced monitor
- 1.44Mb Floppy drive
- Onboard 2 fast serial and ECP parallel ports
- 256k 15ns Secondary Cache RAM (Pentium 120 & 133 have 256k Pipelined burst)
- 3 PCI and 4 ISA expansion slots (486 has 3 PCI & 3 ISA)
- Cherry high quality Win 95 105 key keyboard
- Original Microsoft Serial Mouse
- MS Windows 95
- 5 Year Warranty*

HD	486DX4-100	Pent 75	Pent 90	Pent 100	Pent 120	Pent 133
	8Mb	8Mb	8Mb	8Mb	16Mb	16Mb
850Mb	815	925	995	1035	1325	1455
1.2Gb	850	960	1030	1070	1360	1490
1.6Gb	890	1000	1170	1110	1400	1530

DABS MULTIMEDIA SYSTEMS

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- 1Mb PCI 64 Bit Accelerated video card with MPEG software playback
 - Creative Labs 16 bit Sound Card
 - Quad speed IDE CD ROM drive
 - 25w Mains Powered Active Speakers
 - MS Money, MS Scenes, MS World of Flight, MS Golf, MS Dangerous Creatures, MS Encarta,

HD	486DX4-100	Pent 75	Pent 90	Pent 100	Pent 120	Pent 133
	8Mb	8Mb	8Mb	8Mb	16Mb	16Mb
850Mb	1010	1115	1185	1225	1515	1645
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Systems Librarian at The
Patterson Institute
PC Direct August 1995

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Creative Labs Soundblaster 32 PnP	95
Quad Speed IDE CD ROM Drive	95
12w Speakers	14
25w Speakers	21
80w Speakers	35

HARDWARE OPTIONS ADD

420Mb Internal Tape Streamer	85
800Mb Travan Internal Tape Streamer	107
Microsoft Natural Keyboard	50
250VA UPS (single PC)	90
USR Sportster Vi 14k4 Internet Kit	89
USR Sportster 28k8 Internet Kit	155

PENTIUM OPTIONS ADD

16Mb EDO RAM instead of 8Mb	180
32Mb EDO RAM instead of 8Mb	540
256k Synchronous Pipeline Burst Cache RAM	60
Adaptec 1542CF and to change from IDE to SCSI HD	150
Full Tower	10

486 OPTIONS ADD

16Mb instead of 8Mb	162
Extra 1Mb DRAM on Video card	30
Full Tower	10

MONITOR UPGRADE OPTIONS ADD

15" LR NI, MPR-II	80
20" LR NI, MPR-II	900
21" LR NI, MPR-II	1000
Sony CPD-15SF II 15" Trinitron	150
Iiyama MF-8617E 17"	395

These prices only available with systems

* 5 year warranty comprises 1 year On Site Maintenance, 4 years Return To Base (labour only). On Site Maintenance agreement on hardware commences 14 days after receipt of goods. † Subject to status

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CD-ROM DRIVES

Table with columns for CD-ROM drives including AZTECH, CREATIVE LABS, DIAMOND, GOLDSTAR, MITSUMI, NEC, PANASONIC, PIONEER, SONY, and TDSHIBA.

MONITORS

More than Just a Monitor... ADI All ADI Monitors Feature...

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All Monitors listed below are MPR-II, Low Radiation

Table listing various monitor models from brands like ADI, AOC, GOLDSTAR, HITACHI, Iiyama, MICROVITEC, PHILIPS, PANASONIC, SONY, and TAXAN.

BARCODE GENERATORS

Eltron BarCode Professional The Complete BarCode System for Business and Home

INTERFACE CARDS

Table listing IDE Drive Controllers, Adaptec SCSI Controllers, and other interface cards.

PROCESSORS

Table listing Non-Intel and Intel processors including Pentium 69, 75, 100, 133, and 150.

STREAMERS

Table listing Colorado and Conner streamer models like T1000, Jumbo, and 1100.

HEWLETT PACKARD

Table listing HP SureStore and SureStore 5000 hard drive models.

DISPLAY ADAPTERS

Table listing Cirrus Logic, Creative, Diamond, and Hauppauge display adapters.

UPS

Table listing APC BackUPS, SmartUPS, and UPS models.

PRINTER SERVERS

Table listing NetQue, HP, and Intel printer server models.

UPS

Table listing APC BackUPS, SmartUPS, and UPS models.

Multimedia Kit 2000 Everything you need to create your own affordable entertainment centre

The New VisionMaster family from iiyama

Table listing CD Recording products like Hewlett Packard and Sony.

The New VisionMaster family from iiyama (continued)

Table listing IDE Hard Discs from brands like Conner, Quantum, and Samsung.

The New VisionMaster family from iiyama (continued)

Table listing SCSI Hard Discs from brands like Conner and Seagate.

The New VisionMaster family from iiyama (continued)

Table listing Case products from brands like Deskpro and Mini Tower.

Valuegraph 447V090

Table listing SIMM Memory modules from brands like Philips and Panasonic.

Table listing Terminal products from brands like Wyse and DEC.

Table listing Speaker products from brands like SRS and SONY.

Table listing Motherboard products from brands like 486/P2-4C and P75-180.

Table listing Display Adapters from brands like Cirrus Logic and Creative.

Table listing Printer Servers from brands like NetQue and HP.

Table listing UPS products from brands like APC and SmartUPS.

Table listing Printer Servers from brands like NetQue and HP.

Table listing Motherboard products from brands like 486/P2-4C and P75-180.

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SYQUEST DRIVES

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270Mb Parallel kit	425	88Mb Ext SCSI	215
Jaz 1Gb Ext SCSI	320	Jaz 1Gb Parallel kit	380
135Mb Internal IDE	130	135Mb Ext SCSI	155
200Mb Ext SCSI	345	270Mb Ext SCSI	349

IOmega

ZIP 100Mb Ext SCSI	129	ZIP 100Mb Parallel	129
Zip 1Gb Ext SCSI	320	Zip 1Gb Parallel kit	380

Panasonic

PD Drive SCSI 449 PD Drive + SCSI v1 490
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SOUND CARDS

CREATIVE LABS

SB 16 Value IDE	62	SB 32 PhP	99
SB AWE 32 PhP	155	WaveBlaster 2	75
BlasterKeys MIDI Keyboard	105	BlasterKeys & AWE32 v1	270

Miro

Sound FM10	58	Sound PCMI0	76
Sound PCM1 Pro	121		

ORCHID

Gamewave 32+	67	Soundwave 16 EZ	60
Soundwave IV SCSI	72	Soundwave 32 Pro	129
Soundwave 32Pro SCSI 129			

NETWORK CARDS

3COM

3C-509B BNC or UTP	55	3C-509B Combo	57
3C-589 Combo PCMCIA	125	3C-529B BNC MCA	139
3C-579 BNC EISA	139	3C-590 Combo PCI	80
3C595TX 10/100	160		

DLINK

DE-220PCT Combo PhP	45	DFE-500TX 100Mbit UTP 65	
DE-590CT Combo PCI	79	DE-620CT Parallel	85
650CT Combo PCMCIA	89		

GENIUS

NE2000 Combo	20	NE2000B Combo	53
NE2000 Combo PhP	46	NE2100B Combo	46
Pocket Parallel	49	Pocket PCMCIA Combo	83

KINGSTON

EtherRX LC Combo	39		
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INTEL ETHER EXPRESS

Pro 10 Combo PhP	62	Pro 10 Combo PhP PC109	
Pro 10 Combo Flash PhP	72	Pro 10/100 PCI UTP	145
Pro 100 PCI	95		

SMC

EtherEZ Plug 'n' Play Adapter BNC or UTP	58		
EtherEZ Plug 'n' Play Adapter Combo	49		
EtherPower PCI Adapter BNC or UTP	89		
EtherPower PCI Adapter Combo	96		
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EliteCard Combo PCMCIA	115		
Fast Ethernet 10/100 PCI	129		

XIRCOM

BNC Parallel	185	BNC PCMCIA2	165
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CEM II PCMCIA2 UTP Ethernet & FAX/Modem	265		
CEM II PCMCIA2 BNC Ethernet & FAX/Modem	265		
CEM III PCMCIA2 Combo Ethernet & FAX/Modem	265		

All cards are ISA unless otherwise specified

PORTABLES

COMPAQ CONTURA

420C M350	1264	420C M420	1415
420CX M420	1750	430C M720	1666
430CX M720	1999		

HP OMNIBOOK

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4000C DX2/50 8/250Mb	1543	4000C DX2/50 8/250Mb	2066
4000CT DX4/75 8/250Mb	1473	4000CT DX4/75 8/250Mb	1645
4000CT DX4/75 8/250Mb	1814	4000CT DX4/75 16/810Mb	2452
4000CT DX4/100 8/250Mb	1869	4000CT DX4/100 8/250Mb	1975
4000CT DX4/100 8/250Mb	2139	5000CT Pro 16/1200Mb	3420
5000CTS Pro 16/1200Mb	3764		

PANASONIC

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CF-41PF64	3999	CF-41QT44	4499

TOSHIBA

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T2110 4/350	832	T2130CS 8/520	1335
T2130CT 8/520	1753	T2150COS/260	1669
T2150CS/520	1920	T2150CCT/520	2338
T3600C/500	2087	T4600C/200	2171
T4600C/320	2337	T4800C/500	3143
T4900C/772	2673	T6600C/510	2934
Satellite Pro 400CS	2384	SatellitePro400CCT/3090	
Satellite Pro410CCT	3356	Portege 610CT	2970
Tecra 700CT	4196		

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Mac Cable	17	DSM	34

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Series 3a 1Mb	249	Series 3a 2Mb	299
Series 3S 256k	129	PSiWin Comms Link	59
Parallel Cable	23	Leather Wallet	17
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128k RAM SSD	37	256k Flash SSD	39
512k RAM SSD	89	512k Flash SSD	65
1Mb RAM SSD	175	1Mb Flash SSD	85
2Mb Flash SSD	137	4Mb Flash SSD	257
Autoroute Ser 3a	50	Act Ser 3a	69
Chess Ser 3a	31	Tookit 1 Ser 3	39
Org Chart	39	Flo Chart	39
Draw It	39		

MICE/KEYBOARDS

CHERRY

105 key Windows 95 Non click	19
105 key Windows 95 HD Non-click/2102 key HQ click	36

MICROSOFT 33 Home Mouse 21
InsightPoint Mouse 62
Eysball Trackball 61

LOGITECH Pilot Serial or PS/2 30
Pilot Trackball 25
Trackman Vista 39
Mouseman PC or Mac 40
Mouseman Cordless 47
Trackman Voyager 45
Trackman Marble 48
Trackman Live 95

PRIMAX 3 button serial 7
Master Mouse 19

NETWORK HUBS

3COM LINKBUILDER

FMS II 12port	355	FMS II 24port	635
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DLINK

DE805TP 5port	75	DE8091C 8port	129
DE812TP 12port	175	DE816TP 16port	235
DE824TP 24port	335	DE1200 12port SNMP299	
DE1500 12port SNMP	525		

HP ADVANCESTACK

Hub 8u 8port	132	Hub 12u 12port	215
Hub 12 12port	355	Hub 24 24port	499
Hub 48 48port	1132	Hub 12 SNMP	542
Hub 24 SNMP	819	Hub 48 SNMP	1289

SMC TIGERHUB

TP6 6port	117	TP6B 6port	119
CX3 3port	199	TP12 12port	245
CX6 6port	430	FL6 6port	971

SMC TIGERSTACK

3312C 12port	325	3314T 14port	360
3326TC 26port	575	3328T 28port	645

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HEWLETT PACKARD

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DesignJet 250C A1	1636	DesignJet 250 A0	2328
DesignJet 600 A1	2716	DesignJet 600 A0	3246
DesignJet 750C A1	3624	DesignJet 750C A0	4319
DesignJet DSM	300	DesignJet 750 DSM	700

ROLAND

Sketchmate A4	215	Sketchmate A3	545
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CALCOMP

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II A4	215	III Pro A3	435
FX A4 4 btn cursor	275	FX A3 Pro	495

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A2	950	A1	1177
A0	1695	A0+	1914

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ArtPad II & Painter 3	359	Ultrapad A4	339
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9538	1617		

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4/100 Model 420	885	4/100 Model 27D	848
5/75 Model 630	1062	5/75 Model 420	1029
5/75 Model 1080	1154	5/90 Model 630	1145
5/90 Model 1236	1236	5/100 Model 630	1286
5/100 Model 1080	1377	5/120 Model 1080	1765

COMPAQ PROLINEA STANDARD (4X4)

4/100 Model 420	909	5/75 Model 420	1062
5/75 Model 720	1335	5/90 Model 420	1145
5/90 Model 630	1178	5/90 Model 630CS1344	
5/90 Model 1080	1476	5/100 Model 630	1319
5/100 Mod 630CS1484	1484	5/100 Model 1080	1618
5/120 Model 1080	1798	5/133 Model 1080	1943
5/133 Mod 1080CV	2099		

COMPAQ PROLINEA MINI-TOWER (5X5)

5/75 Model 420	1104	5/75 Model 420CS1269	
5/90 Model 420	1187	5/90 Model 420CS1352	
5/90 Model 720	1459	5/90 Model 1080	1517
5/100 Model 720	1599	5/100 Model 720CV1757	
5/100 Model 1080	1658	5/100 Mod 1080CS1823	
5/133 Mod 1080CV	2141		

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DX2/66 4/540	472	Pentium 75 8/540	705
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Pentium 120 8/B50	947	Pent 133 16/1000	1185

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DX4/100 4/540 + Multimedia + S/Suite 782
Pentium 75 8/540 + Multimedia + S/Suite 891
Pentium 100 8/B40 + Multimedia + S/Suite 1067
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QuickTax Return '95	27		
Sage DOS	75	DOS Net Win Net	
Bockkeeper	55	Win	
Accountant	192	189	
Accountant+	275	271	399 449
Fin Controller	355	345	545
Payroll II	129	139	165
Sage Instant Accounting	85	Sage Instant Payroll	65
Sage Moneywise	31	Sage Job costing	106

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Generic CADD 6.1	379	TurboCAD DOS/Win	59

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Crosstalk Win	69	Deirina Comm Suite80	
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Laplink 6	85	Laplink 6 Win/Win	89
PC Anywhere H&R	95	ProComm+ 2 Win	56
ReachOut	80	WinFax Pro 4	55
WinFax Pro 7 Win95	58	WinComm Pro	58

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Access 2	221	Access 7 Win95	225
Approach 3	82	Approach 96 Win 95 81	
Datebase 5 Win	225	Datebase 5 DOS	382
Datebase 5.3u DOS	639	dBase 5.5 Win	220
dBase 5 DOS	119	dBase 5.5 Upgrade 4.0	
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Visual FoxPro 3	120	Visual FoxPro 3	239
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Paradox 4.5 DOS	329		

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Corel Draw 6 CD	280	Corel Draw 3/4 - 5 CD230	
Corel Draw 5-6 Upg CD	137	Corel 3.5 Upg FD/CD	245
Corel 3.5 Upg CD	119	Corel 4.5 Upg FD/CD	149
Corel 4.5 Upg CD	195	Corel FLOW 3	85
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CorelXARA Win95	120	Corel PhotoPaint 5+	45
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Designworks 3 CD	69	FreeHand 5.5	Call

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Premiere 4	319	Toolbook 3	110
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Visio 4 Version upg	58		
CorelDraw 5 and Ray Dream 3D Designer	209		

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Smartsuite 96 Win 95	292	Smartsuite 95 Upg	154
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Excel 7 Win95	225	Quattro Pro 6	145
Supercalc	59		

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Anti-Virus Win95	53	Anti-Virus Trade-up	28
AreSolo Win	69	Checkit Pro	58
CleanSweep 95	28	Corel SCSI 2	36
Dashboard 95	26	Dr Sol AntiVirus Win	72
Dr Sol AntiVirus Win95	72	FirstAid Win 95	33
HiJack Win95	35	Magnaram Win 95	28
Winprobe Win 95	33	Norton Anti-Virus	92
Norton Backup	85	Norton SpeedDrive 4	29
Norton Utilities Win 95	85	N/Units Win 95 TradeUp	52
Norton Navigator Win95	89	N/Navigator Trade-up	35
Lotus Organizer 2	79	PC Gillian	Call
PC Tools 9 DOS	73	PC Tools 2 Win	47
QEMM Win 95	46	RamDoublor	46
Sidekick 95	26	Sidebar	29
Softram Win 95	49	Stacker 4 DOS/Win	54
Stacker 4.1 Win 95	36	Telemagic	175
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Software	Price	Software	Price
Works	£53	Publisher	£57
Access	£70	PowerPoint	£57

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Software	Full Version	Version Upgrade
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Corel Draw 6	280	from v3 230
		from v4 140
Visual Basic 4	58	35
Visual Basic Pro 4	319	105
Visual Basic Enterprise 4	585	call
Visual C++ 4	26	169
Money 4	26	
Sidekick 95	26	
Dashboard 95	26	
SoftRam 95	49	
FirstAid 95	33	
Norton Utilities 95	85	52
Norton AntiVirus 95	53	28
Norton Navigator 95	69	35

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Ethernet BNC-BNC	4	5	6
	1m	2m	
Twin IDE HD 140F/140F-140F Internal	3	-	-
Twin FD 134F/134F-34F Internal	3	-	-
IEC Mains or IEC-IEC Extension	5	10	
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SCSI HC50 Micro D - HC50 Micro D	16	29	
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DC6515 525Mb	17	DC9100 1Gb	23
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4/1 Parallel Man	10	4/1 Parallel Auto	29
2/1 Serial Man	7	2/1 Serial Auto	19
4/1 Serial Man	10	Others	Call
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Canon BJ300/330	11	Canon BJ30 Black	25
Canon BJ30 Ink Tank	10	Canon BJ70 Colour	27
Canon BJ70 Blk Ink Tank	5	Canon BJ70 Col Tank	7
Canon BJ800 HiCap Black	8	Canon BJ800 Colours	7
Canon BJ800 Black	14	Canon BJ800 Colours 18	
Canon BJ4000 Black	20	Canon BJ4000 Col	31
Epson SQ1170/B70	20	Epson Stylus 800/1000	9
Epson Stylus 800 HiCap	15	Epson Sty Col Black	11
Epson Stylus Colour	23		
HP DJ 310/320/Port	13	HP Deskjet HiCap Blk	16
HP Deskjet Colour	16	HP DJ 1200C Black	17
HP DJ 1200C Colours	22	HP DJ 1500C Black	20
HP DJ 850C Black	20	HP DJ 850C Colour	18
HP DJ 800/660C Black	19	HP DJ 600/660C Col	20
HP Deskjet 650 Black	20	HP Deskjet Colours	20
HP Paintjet Colour	20	HP Paintjet Black	18
HP Paintjet XL Black	19	HP Paintjet XL Colours	19
Star SJ144 Black paper	6	Star SJ144 Col paper	6
Star SJ144 Black OHP	12	Star SJ144 Col OHP	14
ORIGINAL RIBBONS			
Citizen 120D/Swift 9	4	Citizen Swift 24/240	4
Citizen Swift 24x	6	Citizen Swift Colour	11
Epson LQ100/150 Black	5	Epson LQ100/150 Col	15
Epson 80col 9pin	5	Epson 80col 24pin	6
Epson 132col 9pin	5	Epson 132col 24pin	7
Epson LQ860 Black	10	Epson LQ860 Colour	16
Pan KX-P115 9pin	5	Pan KX-P145 24pin	6
Pan KX-P155 24pin	6	Pan KX-P115i 9pin	6
Pan KX-P180P 9pin	7	Pan KX-P165P 9pin	13
Pan KX-P150C	8	Pan KX-P150C	15
Star LC10/20/Black	4	Star LC100 Black	4
Star LC10/100 Colour	5	Star LC24 24pin Mono	5
Star LC15 Black	5	Star LC200 Colour	5
Star LC200 Colour	11	Star LC240C Black	4
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Star XB24 Colour	11		

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Brother HL660	23	Epson EPL4x00	75
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HP Laserjet 5L	43	Kyocera FS400	15
Kyocera FS1550/1600	45	Kyocera FS3400/3600	45
Kyocera FS3500	45	Laserjet III/IIIa (EPS)	46
Laserjet III/IIIa (EPL)	49	Lexmark Optra	109
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HP Variety Pack	12	Disc Labels 3.5" x1000	8
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ABC Colour	123	Swift 200 Mono	136
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Swift 9x	169	Swift 330X	332
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LX-1050	178	FX-870	237
FX-1170	295	FX-2170	375
LQ-150 Colour kit	25	LQ-3000	120
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OKI			
ML280	190	ML320	309
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ML591	499	ML3410	849
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STAR			
LC90	79	LC100 Colour	96
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HL-1260	673		
CANON			
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EPL-9000PS	1499		
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Laserjet 4MV	1960	Laserjet 5SiMX	2899
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LJ 4P/5P/4+4V/5Si/1600	119	167	329
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FS3600	1749	FS6500	1559
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Optra LX+	1718	Optra LXI	2229
Optra LXI+	2241	Optra C	4969
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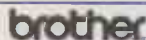
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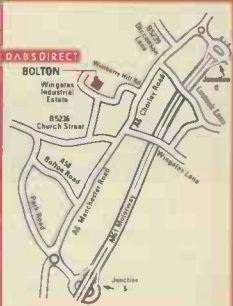
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HP Support Pack Guide

HP Part No.	Products Covered	Standard Warranty	HP Support Pack	Price
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H5463A	HP DeskJet Portable	1 Year Return	3 Year on-site - next day/exchange	£40
H5464A	HP Displays, Monitors, Terminals, HP200LX Palm Top	1 Year Return	3 Year on-site - next day/exchange	£42
H5465A	HP ScanJet 4S	1 Year Unit Exchange	3 Year on-site - next day	£66
H5466A	HP DeskJets/Writers (Colour)	3 Year Unit Exchange	3 Year on-site - next day	£65
H5467A	HP Fax-900, HP Fax-950	1 Year Unit Exchange	3 Year on-site - next day/exchange	£75
H5468A	HP ScanJets (Mono)	1 Year Return	3 Year on-site - next day	£85
H5470A	HP OfficeJet	1 Year Unit Exchange	3 Year on-site - next day	£102
H5473A	HP LaserJet 4L, 4ML, HP DeskJet 200C/PS, 1600C/CM	1 Year Unit Exchange or 1 Year Return	3 Year on-site - next day	£105
H5475A	HP ScanJets (Colour)	1 Year Return	3 Year on-site - next day	£140
H5476A	HP LaserJet 5P, 5MP	1 Year Return	3 Year on-site - next day	£152
H5479A	HP LaserJet 4 Plus, 4M Plus	1 Year Return	3 Year on-site - next day	£180
H5480A	HP Vectra PC	1 Year on-site, 2 Year Return	3 Year on-site - next day	£125
H5481A	HP SureStore, HP JetStore	3 Year on-site - next day	3 Year on-site - 4 hour response	£285
H5482A	HP LaserJet 4V, 4MV	1 Year Return	3 Year on-site - next day	£235
H5489A	HP DesignJet Z30, Z50C 600 & 650C	3 Year on-site - next day	3 Year on-site - 4 hour response	£420
H5492A	HP LaserJet 4S/4SIX	1 Year on-site - next day	3 Year on-site	£530
H5500A	HP LaserJet 5L	1 Year Return	3 Year on-site - next day	£112
H5505A	HP Colour LaserJet	1 Year on-site	3 Year on-site - next day	£1280
H5729A	HP DesignJet 750, 755	1 Year on-site - next day	3 Year on-site - next day	£771

HP OfficeJet LX Personal Printer-Fax-Copier
The all-in-one solution that doesn't compromise on features.

- 600 x 300 dpi with RET ensures crisp reproduction
- Plain-paper Fax Output
- PC Fax Capability
- One product to setup! One print cartridge to change.
- As easy to use and install as standalone devices.
- Space Saving. The HP OfficeJet LX can do it all.

£469

HP DeskJet 850c Printer

- High quality 600x600 dpi black with new pigment ink
- New colour inks for more brilliant colours
- HP's Resolution Enhancement technology
- 26 built-in scalable typefaces
- Single, manual and automatic sheet feed
- Multiple paper types and sizes, envelopes, labels
- Dual I/O (PC or Macintosh)
- 1 year warranty

£325

Excellent Quality • Superior Service • Unbeatable Value

Analog & Digital I/O Card

Versatile fully integrated multifunction A/D, D/A and Digital I/O card.

- ▼ 12 bit 40KHz
- ▼ 16 single-ended or 8 differential A/D inputs
- ▼ 1 D/A output
- ▼ 16 digital inputs
- ▼ 16 digital outputs
- ▼ Pacer Clock
- ▼ Timer/Counter
- ▼ DMA and Interrupt
- ▼ Wiring Terminal Board

£199

Industrial Workstation with 14" Colour CRT

Rugged heavy duty workstation for 19" rack or panel mounting.

- ▼ Highly integrated PC Workstation
- ▼ 1024 x 768 Colour CRT Monitor
- ▼ 27-key membrane keypad
- ▼ IP56/IP52 sealed hardened front panel
- ▼ Heavy duty aluminium and steel chassis
- ▼ 250-watt power supply
- ▼ 8 ISA slots

£1600

Industrial 19" Chassis

The rugged all steel chassis conforms to the 19" rack mounting standard. The unit includes a 14 slot passive backplane and a high efficiency power supply (250W) in a dual-fan cooled chassis.

- ▼ Supports 286/386/486 CPU Cards and Pentium CPU Card (ISA bus)
- ▼ Mounting for up to 4 drives
- ▼ Hold down clamp to protect plug in cards from vibration
- ▼ Positive air pressure inside generated by dual (push-pull) cooling fans
- ▼ Removable air filters

£450

Flash ROM Disk Card

Half-size solid state disk card fitted with 1Mb - 32Mb of Flash memory which can emulate hard disk drives C: or D: Simple installation, no software required, transparent operation. Auto-bootable. Read/write cycles, 100,000 writes minimum (typically 1,000,000), Reads unlimited. Supports DOS, Windows and QNX.

Flash Disk Card 1Mb	£99
Flash Disk Card 2Mb	£129
Flash Disk Card 4Mb	£199
Flash Disk Card 8Mb	£330
Flash Disk Card 16Mb	£599

High Performance A/D Card

The complete and cost-effective solution for your PC based automation needs.

- ▼ 12 bit 100KHz
- ▼ 16 single-ended or 8 differential A/D inputs
- ▼ Built in 1K word FIFO
- ▼ Amplifier x0.5 to x1000
- ▼ 1 D/A Output
- ▼ 16 digital inputs
- ▼ 16 digital outputs
- ▼ Pacer Clock
- ▼ Timer/counter
- ▼ DMA and Interrupt
- ▼ Wiring Terminal Board

£375

Industrial Workstation with 9.4" LCD Display

Rugged heavy duty workstation with flat-panel LCD display and 80-key membrane keypad.

- ▼ Highly integrated PC Workstation
- ▼ 640 x 480 colour TFT display
- ▼ 19" rack/panel mount
- ▼ IP56/IP52 front panel
- ▼ 200-watt power supply
- ▼ 8 ISA slots

£2600

Industrial Chassis + Intel Motherboard P100

Robust 19" Industrial Chassis fitted with Intel Motherboard P100. Ideally suited for heavy duty use in professions requiring Pentium processor power in a rugged industrial grade format.

- ▼ 19" Industrial Chassis 250W
- ▼ Intel Motherboard P100
- ▼ 4 ISA slots, 3 PCI slots
- ▼ 2 serial ports, 1 parallel
- ▼ 8Mb RAM, 256K cache
- ▼ 540Mb IDE Hard Drive
- ▼ 1.44Mb Floppy Drive
- ▼ PCI S3 Display Card

£1475

Options: P120 add £125, P133 add £300. 16Mb RAM add £250, 1Gb Drive add £70. For other configurations, please call.

Relay Output and Isolated Digital Input Card

Offering 8 programmable electro-mechanical relays for ON/OFF control or small power switching, and 8 opto-isolated inputs which can be used as digital input under noisy environment or floating potential.

- ▼ 8 on-board SPDT relays
- ▼ LED indicators to show activated relays
- ▼ 8 opto-isolated digital input channels
- ▼ Easy to use and program

£109

Industrial I/O Cards

D/A Output Card 2ch.	£155
D/A Output Card 6ch.	£285
D/A Output Card 12ch.	£399
24 bit Digital I/O Card	£60
48 bit Digital I/O Card	£80
32 ch Isolated Digital I/O Card	£105
32 ch Isolated A/D Card	£275
4 1/2 Digit Voltmeter Card	£295

Disk Drives & Controllers

Only supplied as part of a system.

Adaptec ISA SCSI Master Kit	£220
Adaptec ISA SCSI Board only	£170
Adaptec PCI SCSI Master Kit	£220
IDE Hard Drive 420Mb	£140
IDE Hard Drive 540Mb	£150
IDE Hard Drive 1Gb	£220
SCSI Hard Drive 16b	£350
SCSI Hard Drive 2Gb	£700

Industrial CPU Cards

Industrial Grade CPU Cards designed to be highly reliable in harsh industrial environments. Built to ensure high end stability under extremes of temperature, shock and vibration. Special features include watchdog timers, RAM/ROM disk, PC-104 interface, floppy/IDE interface, parallel and RS232/RS485 serial ports.

Half-size Cards	
CPU Card 286/16	£145
CPU Card 386SX/25	£195
CPU Card 486DX2/66	£350
Full-size Cards	
CPU Card 486DX2/66 256K cache	£400
CPU Card 486DX4/100 256K cache	£450
CPU Card Pentium/66 256K cache	£600
CPU Card Pentium/100 256K cache	£920
CPU Card Pentium/120 256K cache	£990
CPU Card Pentium/133 256K cache	£1200

Passive Backplanes

Passive Backplane 3 slot	£40
Passive Backplane 6 slot	£45
Passive Backplane 8 slot	£50
Passive Backplane 12 slot	£60
Passive Backplane 14 slot	£70
Passive Backplane 20 slot	£130

Display and Keyboards

14" SVGA Colour Monitor	£225
Rack Mount Kit for 14" Monitor	£250
SVGA Display Card 1Mb ISA bus	£80
SVGA Display Card 1Mb PCI bus	£99
Rack Mounted Compact Keyboard	£199
Compact keyboard	£60
Standard Keyboard	£40

Memory Components

Only supplied as part of a system	
SIMM 1Mb 72pin parity	£50
SIMM 4Mb 72pin parity	£140
SIMM 8Mb 72pin parity	£280
SIMM 16Mb 72pin parity	£460
SIMM 4Mb 72pin no parity	£125
SIMM 8Mb 72pin no parity	£250
SIMM 16Mb 72pin no parity	£420

Industrial Automation with PCs
ADVANTECH



456 PERSONAL COMPUTER WORLD
MARCH 1996

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SEMAPHORE

Industrial Workstations, Industrial PCs, Embedded Board Computers, Data Acquisition and Control, Serial Communications.

COMMUNICATIONS INTERFACES



4-Port Multi-User Serial Card

High Quality AT Bus 4-Port Serial Communications Card. Shown above. Supplied with 16550 UARTs for baud rates to 115kpbs

- ▼ Port address 100H - 3F8H
- ▼ Interrupts IRQ2-7, 10-12, 15
- ▼ Transmit & Receive LEDs
- ▼ Compatible with Arnet 4-Port Card
- ▼ Can be used for adding 4 ports to Windows and SCO Unix
- ▼ Also supports RS422/RS485
- ▼ Supplied with 4-way cable set

£129

16550 Serial Card

Ideal for hardware requiring high speed communications. Highly recommended for Windows.

- ▼ Two 16550 serial ports COM1-COM4, IRQ2-5
- ▼ Bi-directional Parallel Port LPT1-LPT3, IRQ5,7
- ▼ Optional games port
- ▼ Enable/disable any port

£45

AT bus Serial Card

The most flexible 2-Port Serial Card on the market. Supports any port address and high interrupts. Perfect for COM1-COM4 under windows.

- ▼ 2 RS232 serial ports
- ▼ Interrupts IRQ2-7, 10-12, 14-15
- ▼ Port address 100H-3F8H
- ▼ 16 bit AT bus

£75

Add £20 for 16550 option

Dual RS422/RS485 Card

Offering 2 high speed serial ports for transmissions up to 4000 feet

- ▼ 2 RS422/RS485 serial ports
- ▼ Supplied with 16550 UARTs
- ▼ Up to 115K baud
- ▼ Port address 200H-3F8H
- ▼ IRQ2-7, 10-12, 15
- ▼ 16 bit AT bus

£89

Also Isolated RS422/RS485 Card £109

DigiBoard Serial Cards

The Best Engineered Multi-Channel Boards on the market today. The DigiCHANNEL PC/X is ideal for use in multi-user environments, most operating systems are supported with drivers available for DOS, XENIX, UNIX, OS/2, and many more.

PC/4	4-Port RS232 Card	£295
PC/8	8-Port RS232 Card	£395
PC/16	16-port RS232 Card	£750
PC/4s	4-Port with 16550	£325
PC/8s	8-Port with 16550	£450
PC/16s	16-Port with 16550	£850

DigiBoard PC/Xe Cards

The DigiCHANNEL PC/Xe range are intelligent multi-port RS232 high speed communication boards with on-board 80186 processor and 64K memory for increased throughput. Drivers available for DOS, Windows NT, Windows, OS/2, Xenix and UNIX.

PC/2e	2-Port Intelligent Card	£189
PC/4e	4-port Intelligent Card	£395
PC/8e	8-Port Intelligent Card	£495

Digiboard PC/Xem System

An Intelligent Modular System offering 16 to 64 high speed serial channels. The system comprises one host adapter with on-board 20MHz RISC processor and 1 to 4 external concentrators each providing 16 serial ports. Data rates of 115kpbs can be achieved on 32 ports. Drivers for DOS, SCO UNIX, OS/2, Netware Connect and Windows NT.

PC/Xem	Host Adapter	£395
Ports/16em	Connector Box	£600

Isolated RS232 and Current-Loop Card

Providing 2 Isolated RS-232 or current loop serial ports with baud rates up to 56Kbps.

- ▼ Supplied with 16550 UARTs
- ▼ Provides 500VDC isolation
- ▼ Port address 200H - 3F8H
- ▼ Interrupts IRQ2-7, 10-12, 15
- ▼ 16-Bit AT bus

£119

Synchronous Serial Card

Single channel, multi-protocol communications adapter which uses an AMD 85C30-10 serial communications controller (SCC) as standard.

- ▼ RS232 interface
- ▼ Synchronous mode to 1.23M baud
- ▼ IRQ2-7, 10-12, 14-15
- ▼ DMA Channels 1 - 3

£220

Also Synchronous RS422/RS485 £220

Remote Data Acquisition Modules for RS485 Network

ADAM Modules (shown below) are compact intelligent sensor-to-computer interface units designed specifically for reliable operation in harsh environments. Their built-in microprocessors, encased in rugged industrial grade plastic packages provide analog I/O, digital I/O, thermocouple measurement and data display. Each module has a built-in RS485 serial interface for data transfer with the host computer.



Isolated RS232/RS485 Converter

ADAM modules need only 2 wires to communicate with their controlling host computer over a multidrop RS-485 network. ADAM modules also accept any power source between 10V and 30V and are protected against power reversal.

- ▼ Automatic control of data flow
- ▼ Input RS232 (4-wire)
- ▼ Output RS485 (2-wire)
- ▼ Baudrate 1.2K to 38.4K

£99

Analog Input module

ADAM modules can accommodate multiple types and ranges of analog input. You select type and range remotely by issuing ASCII commands from your host computer.

- ▼ Input for thermocouple, mV, V, or mA
- ▼ Input range 15mV to 2.5V, 20mA
- ▼ 10 samples per second
- ▼ 1 digital input / event counter
- ▼ 2 digital outputs
- ▼ Baudrate 1.2K to 19.2K

£135

ADAM Modules

ADAM 8ch Analog Input Module	£169
ADAM 8ch Thermocouple Module	£180
ADAM Analog Output Module	£135
ADAM Digital I/O Module	£99
ADAM Relay Output Module	£99
ADAM Counter/Frequency Module	£169
ADAM IP66 Industrial Enclosure	£85
ADAM Power Supply Unit 24V	£149

IEEE-488 Interface Card

Provides complete IEEE-488 functionality on a half size card.

- ▼ Powerful, easy to use software command set
- ▼ DMA & Interrupt
- ▼ On-board firmware driver
- ▼ 16 digital outputs
- ▼ Basic, Pascal & C drivers
- ▼ IEEE-488 cable 2m

£199

Digital I/O Card

The simple solution for providing digital I/O and timer functions.

- ▼ 32 digital inputs
- ▼ 32 digital outputs
- ▼ 3 channel programmable counter/timer
- ▼ Breadboard area

£89

144 bit Digital I/O Card

High Density mixed digital I/O Card for industrial monitoring & control.

- ▼ 144 Digital I/O lines
- ▼ Buffered circuits for higher driving capacity than the 8255
- ▼ Interrupt handling
- ▼ Output status readback

£155

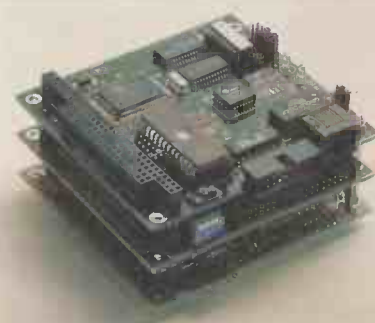
Wiring Kit & Relay Boards

Wiring Terminal Board	£35
Industrial Wiring Kit	£30
Isolated Digital input board 16ch	£99
Isolated Digital input board 24ch	£109
Relay Board 16ch, 120V 1A	£115
Relay Board 24ch, 120V 1A	£135
Relay Board 16ch, 250V 5A	£130
Relay Board 24ch, 250V 5A	£165
SSR Module Carrier Board 8ch	£70
SSR Module Carrier Board 16ch	£80
SSR Module 280V AC 3A	£9
SSR Module 60V DC 3A	£9

PC-104 MODULES

PC-104 Modules (shown below) simply stack together to form a compact modular PC- based system which has very low power consumption.

PC-104 386SX/33 CPU Module 1Mb	£299
PC-104 SVGA Display Module	£169
PC-104 Ethernet Module	£109
PC-104 Super I/O Module	£99
PC-104 RAM/ROM Disk Module	£89
PC-104 PCMCIA Memory Module	£250
PC-104 RS422/RS485 Module	£199
PC-104 Digital I/O Module	£129
PC-104 Global Positioning (GPS)	£450



MEMORY

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(100 lines)

**Educational Sales
Order Lines**
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956 7890**



42 Pages!

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WELCOME TO MEMORY BANK - Part 15

I'm passionate about my company and I feel that it is important that you know about the culture and ethos of the organisation that you are dealing with.

Mark Simon

Mark Simon
Chairman, Powermark plc

Here are just some of the things that make Memory Bank so different:

- Everyone at Powermark is entitled to take time off to help with community projects
- Toby, my Golden Cocker Spaniel comes into the office every day, helping to relieve stress in all of us
- Powermark people take advantage of substantial incentives for recruiting new members of staff



We've MOVED!

Memory Bank has moved to new, 28,000 sq.ft. purpose designed headquarters. The Powermark Centre is easy to get to and there is plenty of parking for personal callers.

Memory Bank,
The Powermark Centre,
The Waterfront,
Elstree Road, Elstree,
Herts WD6 3RP



New from Powermark!



BT ISDN lines at prices much lower than you'd think!

See pages 25 & 26 for order information



QUALITY! QUALITY! QUALITY!

Being the largest direct memory supplier means we buy memory direct from world class manufacturers.

Memory Bank only supply factory original memory.

MEMORY LANE

Do you remember...?

- ... Cycling Proficiency Test enamel badges
- ... Space Hoppas
- ... Bakelite



A great way to buy...

The POWERMARK GOLD CARD

The only credit card that offers you these benefits:

Once only card fee of £10 includes a free CD ROM and a £5 rebate after your first purchase over £99 (plus VAT and carriage).

- Two easy ways to pay - settle your monthly account in full by the date shown on your statement and get up to 56 days interest free credit

or

settle by Direct Debit (£10 minimum payment or 5% of your statement balance if higher) and take advantage of our competitive interest rate of only 20.9% APR

With all these benefits and competitive interest rates too... you know it makes sense!

Call our Gold Card hotline on 0181 956 7654 today and ask for an application form.

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- Huge discounts on Powermark branded products
- Exclusive offers too!

Credit cards are not debited until despatch VAT at 17.5% will be added to all prices

DELIVERY CHARGES
See page 5

EARLY BIRD Order Bonus
See page 27



POWERMARK ACADEMY

Everyone at Memory Bank passes through the Powermark Academy

BANK

at
Pov

New
Products
every month!



THE LARGEST DIRECT MEMORY

Every month Memory Bank supply thousands of memory upgrades of satisfied customers, making us the largest direct supplier of memory in the United Kingdom.

"Adding memory to your computer is undoubtedly the easiest, most cost effective way of increasing the performance of your system"

More and more applications demand large amounts of memory to work effectively. By increasing the standard memory in your PC you can:

- Radically increase the performance of your system
- Run multimedia applications at optimum speed
- Keep fonts and desktop accessories in RAM for instant access
- Run more than one application at a time, enabling true multi-tasking

DON'T JUST TAKE OUR WORD FOR IT...

"For at least two years we've recommended 8MB machines

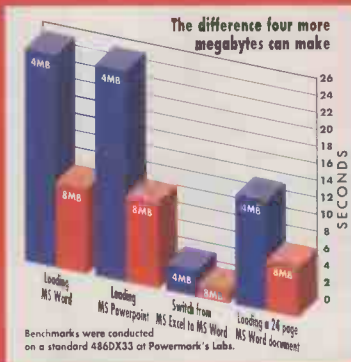
to our readers. Under Windows 95 this recommendation becomes a must and because Windows 95 is much better at handling extra memory than 3.x you'll get even better performance from 16MB RAM, if you can afford it, get 16MB RAM."

Personal Computer World, September 1995

"Possibly the greatest upgrade you can offer a flagging PC is an increase in memory.

The difference in speed between 4MB and 8MB is enormous, as is the jump from 8MB to 16MB. Anyone attempting to run Windows 3.1 in less than 4MB should upgrade now."

Personal Computer World, January 1995



MATCHED MEMORY SIMM KITS

If you're unsure about upgrading then our Matched Memory SIMM Kits are for you. They're guaranteed to be totally memory matched. That means speed, voltage, refresh, parity and physical characteristics are all matched to give optimum performance to your system.

From our listings on the following pages, just select the upgrade kit for your PC. They cost a little more but you get:

- full installation instructions
- anti-static wrist strap
- dedicated support hotline
- our famous double guarantee - full lifetime warranty and our 14 day 'no-quibble' money back guarantee

If your PC is not listed then call us. Our Memory Database has the upgrade path for almost every PC supplied in the UK over the last five years.

UPGRADING IS EASY

With most memory upgrades it's just a case of:

- switching off PC
- removing lid
- locating SIMM sockets
- installing SIMMs
- closing lid
- switching back on

HANDLING MEMORY

Static can degrade a DRAM, shortening its life. That's why we include an anti-static wrist strap in every Matched Memory SIMM Kit. If you're buying loose SIMMs then do ask for an anti-static wrist strap. For multiple installations we can supply complete ESD (Electro Static Device) protection equipment.



BEWARE!
Beware of third party, low grade memory. Memory Bank only supply factory original memory.

Even Lower Prices!
on most regular SIMMs

REGULAR SIMMS

30 PIN SIMMS

- 5 year warranty on all SIMMS listed here

Type	Capacity	Speed	
256K x 9	256K	100ns	£10
256K x 9	256K	80ns	£10
256K x 16	256K	70ns	£20
1M x 9	1MB	80ns	£29
1M x 9 (SIP)	1MB	70ns	£36
1M x 9	1MB	70ns	£29
1M x 9 (3cs)	1MB	70ns	£28
1M x 9 (3cs)	1MB	60ns	£29
4M x 9 (3cs)	4MB	70ns	£89
4M x 9	4MB	70ns	£99
4M x 9	4MB	60ns	£111
16M x 9	16MB	70ns	£459
16M x 9	16MB	60ns	£519

GOLD EDGED SIMMS

- Specified by many PC manufacturers
 - Longer MTBF
- | | | | |
|--------|-----|------|-----|
| 1M x 9 | 1MB | 70ns | £33 |
| 1M x 9 | 1MB | 60ns | £43 |

72 PIN SIMMS

- 10 year warranty on all SIMMS listed here

Type	Capacity	Speed	
256K x 36	1MB	80ns	£44
256K x 36	1MB	70ns	£45
512K x 36	2MB	80ns	£74
1M x 32	4MB	70ns	£86
1M x 32	4MB	60ns	£109
1M x 36	4MB	80ns	£115
1M x 36	4MB	70ns	£99
1M x 36	4MB	60ns	£111
2M x 32	8MB	60ns	£199
2M x 32	8MB	70ns	£165
2M x 36	8MB	£238	
2M x 36	8MB	70ns	£209
2M x 36	8MB	60ns	£249
4M x 32	16MB	70ns	£335
4M x 36	16MB	70ns	£369
4M x 36	16MB	60ns	£399
4M x 32	16MB	60ns	£375
8M x 32	32MB	60ns	£799
8M x 32	32MB	70ns	£765
8M x 36	32MB	70ns	£775
8M x 36	32MB	60ns	£899
16M x 36	64MB	60ns	£2001

72 PIN EDO SIMMS

- Call for full details
- | | | | |
|-------------|------|------|------|
| 1M x 32 EDO | 4MB | - | £99 |
| 2M x 32 EDO | 8MB | - | £205 |
| 4M x 32 EDO | 16MB | 60ns | £420 |

72 PIN DIMMS

- | | | | |
|---------|------|------|------|
| 1M x 32 | 4MB | 70ns | £110 |
| 2M x 32 | 8MB | 70ns | £215 |
| 4M x 32 | 16MB | 70ns | £419 |

Annual Sales
Order Lines

£181-
56 7000
(100 lines)

Educational Sales
Order Lines

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Guaranteed next working day delivery on virtually all stock items for orders placed even up to 4.00pm.

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Our sales people are the best. They are trained specialists in their chosen field - multimedia, memory of all types, mass storage, networking and communications.

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Memory Bank is the direct division of Powermark plc which has been supplying upgrades for over 5 years and has an annual turnover exceeding £18 million with a healthy balance sheet.

LOW, LOW PRICES
We only supply products from leading manufacturers and at low, low prices.

TECHNICAL SUPPORT
Dedicated after sales technical support teams on line to help with installation.

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We welcome orders from corporate, education and public sector organisations. Just fax or phone your order number.

FULL MANUFACTURERS' WARRANTIES
All products supplied by Memory Bank carry manufacturers' warranties and full Powermark plc guarantees.

PERSONAL CALLERS VERY WELCOME
Save on delivery charges - there's plenty of parking too! Telephone first to check our stock position on the items you want. We're open from 9.00am to 6.00pm Monday to Friday. Saturdays: Sales from 9.30am to 4.00pm. Technical Support and Customer Service from 10.00am to 2.00pm.

Memory Bank
The Powermark Centre,
The Waterfront, Elstree Road,
Elstree, Hertfordshire WD6 3RP

Technical Sales
Fax 0181-956 7100
Email membank@powermark.com

Educational Sales
Fax 0181-956 7744
Email edsales@powermark.com

Customer Service
Tel 0181-956 7700
Fax 0181-956 7477

After Sales Technical Support
Tel 0181-956 7711
Fax 0181-956 7478

HOW MUCH MEMORY DO YOU NEED?

	Minimum Requirement	Comfort Level	Optimum Performance
Windows 3.1	4	8	16
Windows 95	8	12	20
Windows NT	12	16	32
Windows AS	16	32	48
OS/2 Warp	4	12	20
Apple System 7.5	8	12	16

Numbers indicate Megabytes of memory required

Source: manufacturers' figures

Public Sector customers can purchase through HMSO by calling 01603 694153.



ISO9002 (Formerly BS5750) registered for the supply of computer, printer and workstation memory, processor and other upgrades.

Powermark plc is regularly assessed by the British Standards Institution to ensure compliance with the quality standard.

Certificate no. FS 20555

MEMORY



MATCHED MEMORY UPGRADES FEATURE

THE LARGEST DIRECT MEMORY SUPPLIER

Every month Memory Bank supply thousands of memory upgrades to thousands of satisfied customers, making us the largest direct supplier of memory in the United Kingdom.

Technical Sales
Order Lines
0181-956 7000
(100 lines)

Educational Sales
Order Lines
0181-956 7890

VISA

MasterCard

POWERMARK
Gold Card

SWITCH

**UPGRADE
DRIVE THRU**

Unsure
about upgrading?

Upgrading is easy but if you would like us to upgrade your computer then our **UPGRADE DRIVE THRU** is for you. It's fast, it's simple and it's convenient.

Just drive into our visitors' car park and your computer will go directly to our on-site labs for instant upgrading by our fully qualified engineers. For upgrades that take a little while we'll even hand you a Pager enabling you to visit the nearby shopping centre.

You'll be paged the minute your computer is ready.

In most cases you need only bring your base unit along, but do call first to discuss your requirements and to confirm our stock position on the upgrades you require.

DESKTOP MENU

(Call for notebook menu)

Memory	£34
Hard Disk	£47
Processor	£31
Tape Backup	£34
Sound or Modem Card	£29
Graphics or Video Card	£29
Multimedia Kit	£47

Save £££s with
combo orders!

MATCHED MEMORY UPGRADES FOR HP

• Authorised HP dealer

HP VECTRA 386/25 PC, 486 PC, 486s/20	
4MB Kit	£129
8MB Kit	£249
HP VECTRA VL3	
S/75/90/100, VE SERIES	
8MB Kit	£259
16MB Kit	£429

NEW! HP VECTRA XU
S/75/90/100 VE SERIES

4MB Kit	£129
8MB Kit	£259

NEW! HP VECTRA 500

8MB Kit	£259
16MB Kit	£479

HP NETSERVER 486 SERIES

8MB Kit	£259
16MB Kit	£459

HP95, HP100, HP200

1MB Card	£149
2MB Card	£245

HP OMNIBOOK 530, 630C SERIES

4MB Module	£169
8MB Module	£319

NEW! HP OMNIBOOK 4000 SERIES

8MB Kit	£299
16MB Kit	£579



UPGRADING TIPS

You own a DX2/66MHz, 8MB of memory and 250MB hard disk. Verdict: It's definitely well worth upgrading to Windows 95 and when you can afford it add more memory and a bigger hard disk for better performance.

MATCHED MEMORY UPGRADES FOR OLIVETTI

PCS386SX	
1MB → 2MB	POWERCUT! £64
1MB → 4MB	POWERCUT! £129
1MB → 6MB	POWERCUT! £209
1MB → 8MB	£272

PCS40, 44	
4MB Kit	£129
8MB Kit	£279

NEW! ECHOS
P75/P90/P90S

4MB Kit	£168
8MB Kit	£295
16MB Kit	£498

M290	
2MB Kit	POWERCUT! £74
4MB Kit	POWERCUT! £149

M486/CP486

2MB Kit	£99
4MB Kit	£168

PCS 11, 33

2MB Kit	POWERCUT! £66
8MB Kit	£259

M300-30

4MB Kit	£139
8MB Kit	£279

M400-10/40/60

4MB Kit	£156
16MB Kit	£539

MODULO RANGE

4MB Module	£149
8MB Module	£279
16MB Module	£489

SUPREMA M6-600, 700

4MB Module	£149
8MB Module	£289

PC/LISA PENTIUMS

8MB Kit	£279
16MB Kit	£575

MATCHED MEMORY UPGRADES FOR ELONEX

PC386SX/M, SXB, 386/16, B/33	
2MB Kit	£64
4MB Kit	£139
8MB Kit	£249

PC386 V/E, 486 V/E

4MB Kit	POWERCUT! £139
8MB Kit	POWERCUT! £279
16MB Kit	POWERCUT! £469

WS RANGE

4MB Kit	£139
8MB Kit	£279
16MB Kit	£499

PC433M, 450M, 466M

4MB Kit	£129
8MB Kit	£279
16MB Kit	£469

LT386SX/P

2MB Kit	£64
4MB Kit	£135

PC-500 SERIES, PC-560M

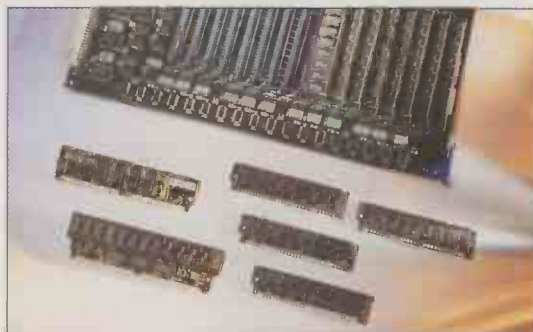
8MB Module	POWERCUT! £279
16MB Module	POWERCUT! £479

ELONEX 560F EISA

8MB Kit	£329
16MB Kit	£499

PC 575M/1, PC5120M/1,

PC5133M/1	
8MB Kit	£329
16MB Kit	£499



PRICE INSTABILITY!
CALL FOR LATEST OFFERS ON MEMORY BEFORE ORDERING

MATCHED MEMORY UPGRADES FOR AMSTRAD

PC1286/PC1386/PC3286/PC3386/PC5286

1MB → 4MB	£129
-----------	------

ALT286/386SX

1MB → 4MB	£129
1MB → 4MB (Zero-wait state)	£139

PC7286, 7386

2MB	POWERCUT! £62
4MB	£129

PC7486 SLC

4MB Kit	£139
16MB Kit	POWERCUT! £459

PC9486

4MB Kit	£139
16MB Kit	£485

ANB386SX

4MB Module	POWERCUT! £169
------------	-----------------------

386SX25 MEGA PC

4MB Kit	£129
8MB Kit	£239

NEW! PC9555i

8MB Kit	£279
16MB Kit	£489

LIFETIME WARRANTY ON ALL MATCHED MEMORY

BEWARE

Beware of low grade 5 volt notebook memory that reduces battery life by up to 40%. Memory Bank only supplies 3.3 volt devices from market leaders with manufacturers' approvals.

MATCHED MEMORY UPGRADES FOR TOSHIBA

T1000/E/XE/LE, T1800, T1850C, T2000SX, T2000SX-E, T2200SX-E

4MB Card	£151
8MB Card	£291

T3300SL

2MB	£66
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T1600/T5100

2MB Card	£75
----------	-----

T2100, T2100CS

4MB Card	£148
8MB Card	£289

T2105CS, T2130CS, CT, T2150 CDT

16MB Card	£575
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T2400CS, T2450, T2400CT, T3600

4MB Module	£165
8MB Module	£295

T3100SX

2MB Card	£85
4MB Card	£159

T3200SX/C

4MB Module	£159
8MB Module	£299

T3200

3MB Card	£159
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T4400, T6400 SX/C, DX/C

4MB Card	£171
8MB Card	£319

T1900, T1910, T1950CT, T1960, T3400CT, T4500, T4600, T4700CT, T4800CT,

4MB Module	£145
8MB Module	£285
16MB Module	£575

T4850/4900

8MB	£285
-----	------

T5200/C & T8500/6400/6600

8MB Module	£340
16MB Module	£569

DYNAPAD T100X

6MB Card	£259
----------	------

DYNAPAD T200, T200CS

4MB Module	£145
------------	------

PROTEGE 610CT, T2130CS

8MB Module	£425
16MB Module	£799

NEW! SATELLITE PRO 400, 410 CDT

8MB Module	£399
------------	------

NEW! TECRA 700CT

8MB	£299
16MB	£575
32MB	£1050

Credit cards are not debited until despatch VAT at 17.5% will be added to all prices

DELIVERY CHARGES
See page 5

EARLY BIRD
Order Bonus
See page 27



Everyone at Memory Bank passes through the Powermark Academy

BANK

at **Powermark**



MATCHED MEMORY UPGRADES FEATURE

THE LARGEST DIRECT MEMORY SUPPLIER

Every month Memory Bank supply thousands of memory upgrades to thousands of satisfied customers, making us the largest direct supplier of memory in the United Kingdom.

MATCHED MEMORY UPGRADES FOR IBM

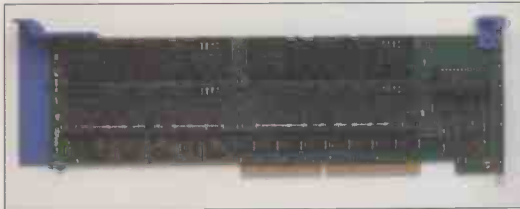
- Planar memory plugs directly onto system board
 - Price instability - check latest offers on IBM matched memory before ordering
- PS/2 55SX, 60, 65SX, 57SX/M57**
- | | |
|-----------------------------------------------------|-----------------------|
| 4MB | £134 |
| PS/2 70, Portable 70/75 | |
| 4MB | £149 |
| 8MB | £279 |
| PS/2 80 | |
| 4MB | £149 |
| PS/2 L40SX, N335SX, NSL | |
| 4MB Card | POWERCUT! £149 |
| 8MB Card | £289 |
| PS/2 90, 95, 95A | |
| 4MB Kit | £139 |
| 8MB Kit | £269 |
| PS/2 95 ARRAY PENTIUM | |
| 8MB Kit | £259 |
| 16MB Kit | £699 |
| VALUEPOINT 6381, 6382 | |
| 4MB | £139 |
| 8MB | £429 |
| VALUEPOINT 6384 RANGE | |
| 4MB Kit | £139 |
| 8MB Kit | £269 |
| PENTIUM VALUEPOINT PERFORMANCE SERIES | |
| 4MB Kit | £132 |
| 8MB Kit | POWERCUT! £256 |
| 16MB Kit | £499 |
| THINKPAD 345CS/CT | |
| 4MB Kit | £285 |
| 8MB Kit | £575 |
| THINKPAD 350, 350C | |
| 4MB Kit | £145 |
| 8MB Kit | £289 |
| THINKPAD 355C, 355CS, 360, 360C, 360CS, 730T | |
| 4MB Kit | £159 |
| 8MB Kit | £299 |
| THINKPAD 500, 510 | |
| 4MB Kit | £159 |
| 8MB Kit | £335 |
| THINKPAD 700, 720 | |
| 4MB Kit | £159 |
| 8MB Kit | £329 |
| THINKPAD 710 | |
| 4MB Kit | £139 |
| 8MB Kit | £279 |
| THINKPAD 750, 750C, 755C, 755CDV | |
| 8MB Kit | £319 |
| 16MB Kit | £619 |
| NEW! THINKPAD 760, C, CD | |
| 8MB Kit | £461 |
| PC466DX2, 100DX4 | |
| 8MB Module | £265 |
| TREKKA | |
| 2MB | £89 |
| HURDLA, SPRINTA | |
| 4MB Kit | £139 |
| 16MB Kit | £469 |
| PS/1 - PRO 486 | |
| 4MB | POWERCUT! £139 |
| 8MB | £269 |
| CONSULTANT, ESSENTIAL, WILLOW, EXPERT SERIES | |
| 4MB | £149 |
| 8MB | £289 |



MATHS CO-PROCESSORS

Installation of a Co-Processor results in a significant speed increase in maths intensive applications eg: spreadsheets, databases, CAD and graphics packages.

	INTEL	ITT	CYRIX
80387 SX (16 MHz → 20MHz)	£53	£35	POWERCUT! £40
80387 SX (40 MHz)	£53	£35	£48
80387 SL (25 MHz)	£53	-	-
80387 DX (16 MHz → 33MHz)	£56	£32	POWERCUT! £41
80387 DX (40 MHz)	-	£35	£41



MATCHED MEMORY UPGRADES FOR SIMM KITS

- Include:
- full installation instructions
 - anti-static wrist strap
 - dedicated support hotline
 - our famous double guarantee - full lifetime warranty and our 14 day 'no-quibble' money back guarantee

MATCHED MEMORY UPGRADES FOR IBM

- NEW! APTIVA SERIES**
- 4MB Module £129
- 8MB Module £259
- 16MB Module £439
- PENTIUM APTIVA**
- 16MB Kit £449
- PC 300 SERIES**
- 4MB Module £129
- PC 350 SERIES**
- 8MB Module £259
- 16MB Module £489
- PC 700 SERIES**
- 8MB Module £259

MATCHED ADAPTER BOARDS FOR IBM PS/2

- Completely user expandable
- PS/2 50, 50Z, 60 & 65**
- 16MB Board with 4MB £295
- 16MB Board with 8MB £425
- PS/2 70, 80, 90 & 95**
- 64MB Board with 4MB £295
- 64MB Board with 8MB £465

MATCHED MEMORY UPGRADES FOR VIGLEN

- Complete range for Executive, Professional and Tower
- GENIE 386SX**
- 2MB Kit £64
- 4MB Kit £129
- VIG II ELITE**
- 2MB Kit £69
- 4MB Kit £179
- VIG III LS (Type 1)**
- 4MB Kit £129
- 8MB Kit £269
- VIG III/25, III/33**
- 4MB Kit £129
- 8MB Kit £269
- 16MB Kit £469

- NEW! PENTIUM 75/90/100/135MHz**
- 8MB EDO Kit £299
- 16MB EDO Kit £549
- EX 4DX33/50**
- 4MB £129
- 8MB £269
- VIG 4SX25, 4DX33, 4DX50, 4DX2-50, 4DX2-66**
- 4MB Kit £129
- 8MB Kit £269
- 16MB Kit **POWERCUT!** £469

- CONTENDER RANGE**
- 4MB £139
- 8MB £269
- GENIE 486VLB RANGE**
- 4MB Module £139
- 8MB Module £269
- 16MB Module **POWERCUT!** £469
- 64MB Kit £1999
- GENIE PCI RANGE**
- 4MB Module £139
- 8MB Module £269
- 16MB Module £469

Certificate no. FS 26535
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MATCHED MEMORY UPGRADES FOR APRICOT

- XEN 486SX-25, 486DX2-50, 486 DX2-66, PCM**
- 4MB Module £149
- 8MB Module £269
- 16MB Module £499
- NEW! SHOGUN SERVER**
- 16MB Kit £689
- 32MB Kit £1199

MATCHED MEMORY UPGRADES FOR PACKARD BELL

- LEGEND 200/316SX**
- 2MB Kit **POWERCUT!** £69
- 4MB Kit **POWERCUT!** £139
- LEGEND 605, 900**
- 4MB Kit £139
- 8MB Kit **POWERCUT!** £279
- 486 VLB, EXECUTIVE, ELITE RANGE**
- 4MB Module £139
- 16MB Module £449
- FORCE RANGE**
- 4MB Kit £139
- 16MB Kit £449
- MULTIMEDIA 486/586 RANGE**
- 8MB Kit £279
- 16MB Kit £519

MATCHED MEMORY UPGRADES FOR APPLE

- Complete range stocked
- Authorised Reseller
- BEWARE**
- Beware of third party, low grade memory. Memory Bank only supply factory original memory.

Technical Sales Order Lines

0181-956 7000
(100 lines)

MEMORY

It's time once again to Ponder Memory Moments



with **Professor Paul**

Dear Professor Paul,
I currently have 4MB of RAM and I am in the process of upgrading my memory. I have heard that EDO is a new form of memory. Can I use this new form or am I tied to standard modules? Any upgrade that I make will mean the removal of the existing SIMMs.

Bemused in Belfast

Dear Bemused,
Perfect timing as I am testing EDO in my laboratory. Technology is a great thing, speed, speed, speed. The answer to your question is "yes", change to the next generation of SIMM. Some Pentium computers come ready equipped with EDO, soon to be the new standard. Two 8MB modules will enhance the performance of your memory and did you know that if you combine EDO SIMMs with burst cache RAM, your PC will fly; the perfect fusion of two elements. I'm thinking EDO, burst cache RAM, maybe Pentium 120, 1GB SCSI hard drive, 16MB RAM, monitor upgrades; with all that power... just think!

Yours, Professor Paul

Send your thoughts and queries to Professor Paul, c/o Memory Bank, The Powermark Centre, The Waterfront, Elstree Road, Elstree, Herts WD6 3RP or fax him on 0181 956 7100. You can also Email Professor Paul on: profpaul@powermark.com

Professor Paul makes every effort to answer your memory problems, but he cannot guarantee to reply to everyone. Okay - So he's not a real professor but we think he should be!

Memory Bank
The Powermark Centre,
The Waterfront, Elstree Road,
Elstree, Hertfordshire WD6 3RP

Technical Sales
Fax 0181-956 7100
Email membank@powermark.com

Educational Sales
Fax 0181-956 7744
Email edsales@powermark.com



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MEMORY



MATCHED MEMORY UPGRADE FEATURE

THE LARGEST DIRECT MEMORY SUPPLIER

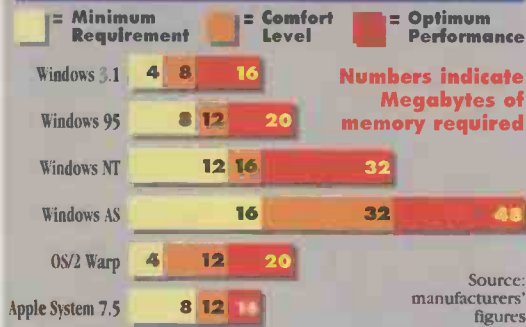
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**Technical Sales
Order Lines
0181-
956 7000**
(100 lines)

**Educational Sales
Order Lines
0181-
956 7890**



HOW MUCH MEMORY DO YOU NEED?



“ For at least two years we've recommended 8MB machines to our readers. Under Windows 95 this recommendation becomes a must and because Windows 95 is much better at handling extra memory than 3.x you'll get even better performance from 16MB RAM, if you can afford it, get 16MB RAM.”

Personal Computer World
September 1995

MATCHED MEMORY UPGRADES FOR AST

ACENTIA 900N, 910N	
4MB Module	£179
8MB Module	£339
ACENTIA 950	
8MB Module	£299
BRAVO LCII, III	
4MB Module	£139
8MB Module	£235
NEW! BRAVO LCP75, LCP100	
8MB Kit	£249
16MB Kit	£499
PREMIUM, POWER PREMIUM	
8MB Kit	£299
POWER EXEC 4/25/33	
4MB Module	£189
16MB Module	£579
BRAVO NOTEBOOK SERIES	
4MB Kit	£159
16MB Kit	£599
BRAVO MS P/75, PREMMIA GX /P90/P100	
8MB Kit	£249
16MB Kit	£499

PCMCIA MEMORY

- All formats stocked: JEDEC, FLASH, OTPROM, DRAM, etc
- Check compatibility before ordering

256K SRAM	£48
512K SRAM	£74
1MB SRAM	£122
2MB SRAM	£99
2MB FRAM	£149
4MB FRAM	£439

DRAMS

- Call for devices not shown
- Full range of PROMs, SRAMs & ZIPs available
- 5 year warranty

64K x 1	120ns	£1.79
256K x 1	80ns	£2.80
256K x 4	70ns	£5.77
256K x 16	70ns SOJ	£25
1M x 1	80ns	£4.99
1M x 1	70ns	£5.20

VRAMS

256K x 8	70ns SOJ	£20
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SRAMS

32K x 8	15ns SRAM	£11
32K x 9	20ns SRAM	£12
128K x 8	20ns SRAM	£28
8K x 8	15ns SRAM	£8

MATCHED MEMORY UPGRADES FOR HP NOTEBOOKS AND PALMTOPS

HP OMNIBOOK 300,425 SERIES

4MB	£189
6MB	£289

HP OMNIBOOK 530 SERIES

8MB	£389
12MB	£599

HP 951X & 1001X

1MB	£129
-----	------



DELIVERY CHARGES

UK MAINLAND
Next working day courier delivery to your door

SMALL ITEMS

Examples: memory, sound/video cards, CD ROM titles, small software packages

UP TO 3 ITEMS

£6.95 total

4 ITEMS OR MORE

£1.95 for each additional item

LARGE ITEMS

Examples: CD ROM drives, multimedia kits, software suites

1ST ITEM

£8.95

EACH ADDITIONAL ITEM

£4.95

VERY LARGE ITEMS

£Call

Call for rates outside UK mainland

MEMORY TUNES

Help

The Beatles

It's My Parity (And I'll Cry If I Want To)

Leslie Gore



QUALITY! QUALITY! QUALITY!

Being the largest direct supplier means we buy memory direct from world class manufacturers. Memory Bank only supply factory original memory.

MEMORY UPGRADES FOR TANDON

POSITIVE 386SX25, 386DX40, 486SX25, 486DX33

4MB Kit	£129
16MB Kit	£499

LIFETIME WARRANTY ON ALL MATCHED MEMORY

MATCHED MEMORY UPGRADES FOR DAN

DAN VANTAGE, WINDOWS NT SERIES

4MB Kit	£129
16MB Kit	£479

PREMIUM, DANTIUM, ULTIMATE

8MB Kit	£269
16MB Kit	£499
32MB Kit	£899

PRICE INSTABILITY!
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FREE Baseball Cap
worth £4.95

With every order over £500

When ordering just ask for your FREE baseball cap as it is not shipped automatically.

MATCHED MEMORY FOR NOTEBOOKS & PALMTOPS

COMMODORE LT286/386	
4MB Kit	£169
SANYO 17NB, 18NB	
2MB	£79
4MB	£165
SHARP PC 7700	
4MB	£169
SHARP PC 6891	
4MB	£179
PANASONIC CF1000	
4MB Module	£198
PANASONIC CF580	
4MB Module	£185
LIBREX V386SX	
1MB → 4MB	£199
DEC HI-NOTE RANGE	
4MB Module	£197
8MB Module	£398
HP OMNIBOOK RANGE	
Complete range stocked	

Credit cards are not debited until despatch VAT at 17.5% will be added to all prices



DELIVERY CHARGES
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Order Bonus
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MATCHED MEMORY UPGRADE FEATURE

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MATCHED MEMORY UPGRADES FOR COMPAQ

DESKPRO 386/20/25/c/s	
4MB Add-on Module	£169
4MB Expansion Board	£205
SYSTEMPRO, DESKPRO 486/33L, 50L & 486/25	
2MB Module	£99
8MB Module	£294
32MB Module	£1199
SYSTEMPRO XL 486/50, PENTIUM	
256MB Board with 16MB	£549
256MB Board with 32MB	£1099
DESKPRO 386N, 386S/20	
2MB Module	£75
4MB Module	£139
DESKPRO XL 5/60/75/90	
8MB Kit	£289
16MB Kit	£470
DESKPRO 386A/486, 486/25M, 486S/33M, 486DX2	
64MB Board with 4MB	£249
64MB Board with 8MB	£399
DESKPRO XE & XL FAMILY	
4MB	£129
8MB	£240
DESKPRO 5/90	
8MB Module	£289
16MB Kit	£479
PROLINEA 4/25S, 4/33, 4/50, 4/66, NET 1, MT	
4MB	£127
8MB	£249
PROLINEA 5/75/90MX RANGE	
4MB Kit	£139
8MB Kit	£269

MATCHED MEMORY UPGRADES FOR COMPAQ

CONTURA 420, 430	
4MB Kit	£149
8MB Kit	£299
CONTURA 3/25/20/25C, 4/25	
4MB Card	£145
8MB Card	£275
CONCERTO 4/25, 4/33	
8MB	£335
16MB	£599
AERO 4/25/33	
4MB	£139
NEW! PRESARIO CDS 510, 720, 972, 982, 990, 992	
4MB Kit	£139
8MB Kit	£239
16MB Kit	£425
NEW! PRESARIO 425, 633, 833, 850, 866, 800 SERIES	
4MB	£129
8MB	£249
PRESARIO 700/900	
16MB Module	£419
NEW! PRESARIO CDS 7106, 7170	
8MB Kit	£239
16MB Kit	£425
PROSIGNIA 500	
8MB Kit	£259
16MB Kit	£499

MATCHED MEMORY UPGRADES FOR GRAPHICS CARDS

Diamond Stealth 64	
1MB DRAM all versions	
1MB Upgrade Kit	£49
Diamond Stealth 64	
2MB VRAM PCI and VLB	
1MB Upgrade Kit	£49
Orchid Kelvin 1MB DRAM ISA and VLB versions	
1MB Upgrade Kit	£49
Taxan GTS Winboost	
1MB DRAM PCI, VLB, ISA versions	
1MB Upgrade Kit	£49

Call for video card upgrades not listed here

MEMORY TOOLS

- Complete range of anti-static products available
- ANTI-STATIC WRIST STRAP
- Essential when handling electrostatic devices
- IC EXTRACTOR TOOL
- SIMM TESTER
- WRIST STRAP TESTER

MATCHED MEMORY UPGRADES FOR ZENITH

TURBOSPORT 386E	
4MB Kit	£159
Z-NOTE 420/25/33	
4MB Module	£160
Z-SERVER/STATION/425/433/450	
8MB Module	£289
Z-SPORT 420/425	
4MB Kit	£169
Z-SELECT SERIES	
8MB Module	£259
Z-SERVER LT P60E, EX 450/E RANGE	
8MB Kit	£329
16MB Kit	£639
Z-NOTEFLEX 486DX 33/50/66/100	
8MB Module	£269
16MB Module	£499
Z-STATION 510/33/50/66/100	
8MB Kit	£259
16MB Kit	£509

MATCHED MEMORY UPGRADES FOR MITAC

486SX/DXDV Series	
4MB Kit	£129
16MB Kit	£459
PENTIUM RANGE	
8MB Kit	£279
16MB Kit	£539



MEMORY EXPANSION BOARDS

KINGSTON ATA BOARD	
16MB Board with 4MB	£239
16MB Board with 8MB	£349
16MB Board with 16MB	£649



BEWARE

Beware of economy memory modules that use ASIC parity generation. Memory Bank only supply SIMMs with genuine parity DRAMs.

MATCHED MEMORY SIMM KITS

- Include:
- full installation instructions
 - anti-static wrist strap
 - dedicated support hotline
 - our famous double guarantee - full lifetime warranty and our 14 day 'no-quibble' money back guarantee

PRICE INSTABILITY!
CALL FOR LATEST OFFERS ON MEMORY BEFORE ORDERING

NEW! PROLINEA E SERIES

8MB Kit	£259
16MB Kit	£489

PROLIANT 1000, 2000, 4000, PROLIANT PENTIUM

4MB	£159
8MB	£289
16MB	£519

PROSIGNIA VS SERIES

8MB Kit	£289
16MB Kit	£519
32MB Kit	£899

SLT386

2MB	£109
4MB	£169

LTE LITE 386, 386s/20

4MB Card	£168
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LTE LITE 4120/25/25C/25E

4MB Card	£155
8MB Card	£279
16MB Card	£499

NEW! LTE 5000, 5100

8MB Card	£375
16MB Card	£649
32MB Card	£1149

LTE ELITE SERIES

4MB Card	£165
8MB Card	£324

CONTURA 400 C/CX, 4100, 410C/CX

4MB Module	£149
8MB Module	£299
16MB Module	£582

MEMORY

Technical Sales Order Lines
0181-956 7000
(100 lines)
Educational Sales Order Lines
0181-956 7890

HUGE STOCKS
Guaranteed next working day delivery on virtually all stock items for orders placed even up to 4.00pm.

TECHNICAL SALES PEOPLE
Our sales people are the best. They are trained specialists in their chosen field - multimedia, memory of all types, mass storage, networking and communications.

FINANCIAL STABILITY
Memory Bank is the direct division of Powermark plc which has been supplying upgrades for over 5 years and has an annual turnover exceeding £18 million with a healthy balance sheet.

LOW, LOW PRICES
We only supply products from leading manufacturers and at low, low prices.

TECHNICAL SUPPORT
Dedicated after sales technical support teams on line to help with installation.

CORPORATE & PUBLIC SECTOR
We welcome orders from corporate, education and public sector organisations. Just fax or phone your order number.

FULL MANUFACTURERS' WARRANTIES
All products supplied by Memory Bank carry manufacturers' warranties and full Powermark plc guarantees.

PERSONAL CALLERS VERY WELCOME
Save on delivery charges - there's plenty of parking too! Telephone first to check our stock position on the items you want. We're open from 9.00am to 6.00pm Monday to Friday. Saturdays Sales from 9.30am to 4.00pm. Technical Support and Customer Service from 10.00am to 2.00pm.

Memory Bank
The Powermark Centre,
The Waterfront, Elstree Road,
Elstree, Hertfordshire WD6 3RP

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Email membank@powermark.com

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Email edsales@powermark.com

Customer Service
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Fax 0181-956 7477

After Sales Technical Support
Tel 0181-956 7711
Fax 0181-956 7478



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MEMORY



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Technical Sales
Order Lines

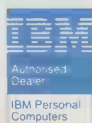
**0181-
956 7000**
(100 lines)

Educational Sales
Order Lines

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MATCHED MEMORY UPGRADES FOR IBM PRINTERS



IBM 4019 & 4019E	
3MB	£140
IBM 4029	
2MB	£79
IBM 4039 & 4040	POWERCUT!
4MB	£139
8MB	£249
LEXMARK OPTRA LX/L/R/RX	
4MB	£139
WINWRITER 200/400/600	
2MB	£79



BEWARE!

Beware of economy memory modules that use ASIC parity generation. Memory Bank only supply SIMMs with genuine parity DRAMs.

MEMORY QUIZ

???????

"Your starter for 10MB"

1. What did the Austin Maestro and the Renault 25 have in common?
2. What year did The Likely Lads hit our screens?
3. What device did Jacques Cousteau invent?

Answers on fax form page

MATCHED LASERPRINTER MEMORY

• Price instability - check latest offers on laser printer memory before ordering

APPLE LASER WRITER SELECT 300/310	
4MB	£149
APPLE LASER WRITER PRO 810	
4MB	£179
APPLE LASER WRITER PRO 600/630	
4MB	£149
BROTHER HL 660, 1260	
2MB	POWERCUT! £79
4MB	POWERCUT! £119

BROTHER HL8/E/V, HL10, DPS	
2MB	£102

CANON NOTEJET 486, BN22/BJC-880	
4MB Module	£149

CANON LBP4, 4+, LITE, SX	
2MB Board	£125

CANON LBP8II	
2MB	£95

CANON LBP8IV	
4MB	POWERCUT! £119

CANON LBP 860, 1260	
4MB	£129
16MB	£455

COMPAQ PAGEMARQ 15/20	
8MB	£269
16MB	£579

EPSON EPL4000/4100/4300/8100	
2MB	£99

EPSON EPL7000	
3MB	£125

EPSON ACTION LASER 1600/1100	
4MB	£135

FUJITSU VM4, VM8	
4MB Module	£149

KYOCERA F800	
2MB	£109

KYOCERA FS400, 410, 1500, 1550	
2MB	£85
4MB	£139

NEC SILENT WRITER 95/95FX/97/97FX	
2MB	£85

OKI LASER 400, 410E	
2MB	£105

OKI 800/820	
2MB	£109

OKI LASER 830/840/850	
2MB	£97

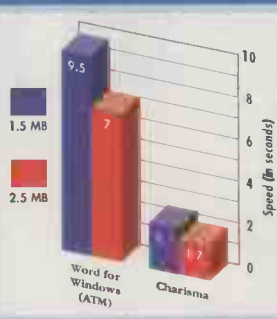
PANASONIC 4420, 4450i	
2MB	£95
PANASONIC 5410, 4440	
2MB	£109

TEXAS MICROLASER PS, MICROWRITER	
1MB	£69

LASER PRINTER MEMORY - AN EXPLANATION

Increasing memory in your laser printer will enable it to print large, graphics intensive documents. Additional benefits include faster print spooling, faster printing speed and multiple font downloading.

This chart shows the improvement a single megabyte of printer memory can make. "Speed" represents the amount of time required to spool the document into the printer and get the full use of your PC back.



How much memory do you need?

Full page graphics	1MB - 2MB	4 - 5 PostScript fonts	4MB
Soft fonts	1MB	8 - 10 PostScript fonts	4MB
PostScript cartridge	1.5MB	Network printer sharing	4MB

MATCHED MEMORY UPGRADES FOR HP PRINTERS



HEWLETT PACKARD

AUTHORISED RESELLER

LASERJET II, IID	
2MB	£97
4MB	£159

LASERJET IIP, III, IIID, IIIP	
2MB	POWERCUT! £85
4MB	£160

LASERJET 5P, 5MP	
4MB	POWERCUT! £129
8MB Module	£255

LASERJET IIIsl, 4, 4M, 4sl, 4MV, 4MP, 4P, 4V	
4MB	POWERCUT! £129

LASERJET 4L	
1MB	£49

DESKJET 500, 500c, 550	
256K	£39

DESKJET 520, 540, 560C	
256K Kit	£39

DESKJET 660C/PS	
4MB	£129
8MB	£259

DESKJET 1200 C/PS/1200, 1600C	
2MB	£85
4MB	£129
8MB	£255

NETSERVER SERIES	
32MB Module	£1399

DESIGNJET 600/650	
4MB	£129

PAINTJET XL300	
	£Call

HP COLOUR LASERJET	
4MB Module	£129
8MB Module	£255

All our Matched Memory Kits come with our famous double guarantee - full lifetime warranty and 14 day money back guarantee

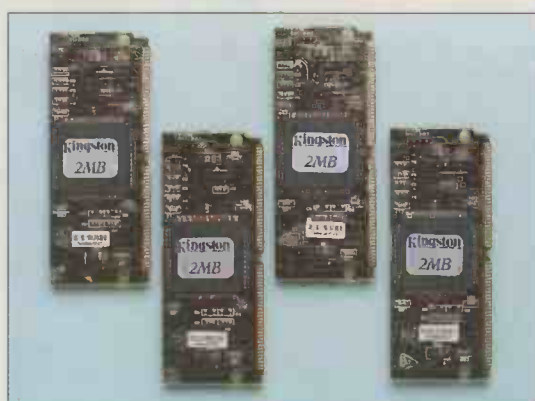
MATCHED MEMORY UPGRADES FOR SUN Workstations

- SPARC tested and approved
- All Sun memory is individually tested

SPARC 1, 3/60, 3/80, 4/40, 4/60, 4/65, 4/75	
4MB Kit	POWERCUT! £162
16MB Kit	£499
SPARC ELX	
16MB Kit	POWERCUT! £489
SPARC STATION LX	
32MB Kit	£1199
SPARC 330, 370 & 390	
32MB Kit	£1802
SPARC SERVER 630MP, 670, 690	
64MB Kit	£2812
SPARC STATION 10/20	
16MB	£699

QUALITY! QUALITY! QUALITY!

Being the largest direct supplier means we buy memory direct from world class manufacturers. Memory Bank only supply factory original memory.



MATCHED MEMORY UPGRADES FOR IBM RISC Workstations

- Call for models not listed here

RISC SYSTEM 6000	
32MB Kit	£1299
64MB Kit	£2699
448MB Kit	£17,384
POWERSTATION/POWERSERVER 200	
8MB Kit	£298
X STATION	
6MB Kit	£228

MATCHED MEMORY UPGRADES FOR SILICON GRAPHICS Workstations

POWER SERIES IRIS	
32MB Kit	£2030
PROFESSIONAL IRIS	
4MB	£265
INDIGO, 4D/30, 4D/35/533	
64MB Kit	POWERCUT! £1999
CHALLENGE M/POWER CHALLENGE SERIES	£Call

Credit cards are not debited until dispatch VAT at 17.5% will be added to all prices

DELIVERY CHARGES
See page 5

EARLY BIRD Order Bonus
See page 27



Everyone at Memory Bank passes through the PowerMark Academy

BANK

at Powermark



MATCHED MEMORY UPGRADE FEATURE

THE LARGEST DIRECT MEMORY SUPPLIER

Every month Memory Bank supply thousands of

memory upgrades to thousands of satisfied customers, making us the largest direct supplier of memory in the United Kingdom.

MATCHED MEMORY UPGRADES FOR DELL

325/D/P, 333/D/P	
2MB → 6MB	£129
2MB → 10MB	£289
POWERLINE	
WORKSTATION SERIES	
4MB Kit	£154
8MB Kit	£259
16MB Kit	POWERCUT! £499
POWER DESKTOP SERIES	
4MB Module	POWERCUT! £139
POWEREDGE SP/XE SERIES	
8MB Kit	£255
16MB Kit	£489
NL20, NL25	
2MB Module	£109
320SLi	
2MB	£99
DIMENSION 'I'	
4MB	£129
16MB	£449
DIMENSION XPS, P100C, 133C	
NEW! 8MB EDO Kit	£249
NEW! 16MB EDO Kit	£459
NEW! 32MB EDO Kit	£809
OMNIPLEX 466/50ME	
8MB Module	£259
16MB Module	£499

MATCHED MEMORY UPGRADES FOR DELL

OMNIPLEX PENTIUM RANGE	
8MB	£261
16MB	£519
OPTIPLEX	
XL/XM/XMT 5/75/90/100	
16MB Module	£499
LATITUDE M SERIES	
4MB	£149
8MB	£279
LATITUDE XP SERIES	
8MB	£299
16MB	£549
NETPLEX SERIES	
4MB Module	£125
8MB Module	£259
16MB Module	£439
PERFORMANCE 4/33/50/66	
4MB	£129
8MB	£259

MATCHED MEMORY UPGRADES FOR DIGITAL

VENTURIS DESKTOP RANGE	
4MB Module	£159
8MB Module	£299
16MB Module	£549

MATCHED MEMORY UPGRADES FOR GATEWAY

PC 4SX-33	
4MB Module	£129
16MB Module	£475
PC 4DX-33V, PC 4DX-66V	
4MB Module	£129
16MB Module	£475
32MB Module	POWERCUT! £949
PC 4DX2-66P/V	
4MB Module	£129
8MB Module	£299
16MB Module	£475
32MB Module	£1099
PC P5-60, P5-66, P90, P100	
8MB EDO Kit	£299
16MB EDO Kit	£499
32MB EDO Kit	£1099
64MB EDO Kit	£2299
PC 4D-66, PC 4DX-100	
8MB Kit	£249
32MB Kit	£1099
PS-120/133 ELITE, P90 PREMIUM SERIES	
NEW! 8MB EDO Kit	£299
NEW! 16MB EDO Kit	£499

MATCHED MEMORY UPGRADES FOR ESCOM

486 DESKTOP RANGE	
4MB Kit	£139
16MB Kit	£475
P90/100PCI	
8MB Kit	£269
16MB Kit	£529

MATCHED MEMORY UPGRADES FOR TEXAS INSTRUMENTS

TRAVELMATE 4000 SERIES	
4MB Module	£175
16MB Module	£859
TRAVELMATE 5000 SERIES	
4MB Module	£175
16MB Module	£859
NEW! EXTENSA 550, CD, CDT	
4MB Module	£175
8MB Module	£329
16MB Module	£519

30 Memory Specialists ready to take your call

CYRIX FEATURE

CYRIX 386 TO 486 PROCESSOR UPGRADE



THE CYRIX MICROPROCESSOR UPGRADE FAMILY



The package consists of one Cx486DRx² Microprocessor, a 386DX removal tool, (SX version is a clip-on chip), installation manual, upgrade cache installation software (on both 3.5" and 5.25" media) and a pin 1 locator arrow (for correctly aligning the upgrade processor in the socket). A Cyrix-green heatsink is also included with 20/40, 25/50 and 33/66 versions.

CYRIX DRx²/SRx²

- Single chip upgrade solution for 386 DX and SX personal computers
- Clock doubling technology for increased performance
- 1K on-chip cache
- Very easy to install
- Compatible with DOS, Windows and OS/2
- Free technical support
- Limited lifetime warranty

Plug in the Cyrix 386 to 486 Processor Upgrade. It's the fastest, most cost effective way to a 486 computer and it's totally compatible with the world's leading software: DOS, Windows and OS/2 operating systems.

It's easy to install. Just clip on the Cyrix processor

and load the cache installation software. It's as simple as that. You're ready to run in minutes.



EVEN LOWER PRICES!

386DX	
DX 16MHz → 486 32MHz	£128
DX 20MHz → 486 40MHz	£128
DX 25MHz → 486 50MHz	£139
DX 33MHz → 486 66MHz	£149
386SX	
SX 16MHz → 486 32MHz	£139
SX 20MHz → 486 40MHz	£139
SX 25MHz → 486 50MHz	£139

MEMORY & PROCESSOR UPGRADES

Technical Sales Order Lines

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HUGE STOCKS
Guaranteed next working day delivery on virtually all stock items for orders placed even up to 4.00pm.

TECHNICAL SALES PEOPLE
Our sales people are the best. They are trained specialists in their chosen field - multimedia, memory of all types, mass storage, networking and communications.

FINANCIAL STABILITY
Memory Bank is the direct division of Powermark plc which has been supplying upgrades for over 5 years and has an annual turnover exceeding £18 million with a healthy balance sheet.

LOW, LOW PRICES
We only supply products from leading manufacturers and at low, low prices.

TECHNICAL SUPPORT
Dedicated after sales technical support teams on line to help with installation.

CORPORATE & PUBLIC SECTOR
We welcome orders from corporate, education and public sector organisations. Just fax or phone your order number.

FULL MANUFACTURERS' WARRANTIES
All products supplied by Memory Bank carry manufacturers' warranties and full Powermark plc guarantees.

PERSONAL CALLERS VERY WELCOME
Save on delivery charges - there's plenty of parking too! Telephone first to check our stock position on the items you want. We're open from 9.00am to 6.00pm Monday to Friday. Saturdays: Sales from 9.30am to 4.00pm. Technical Support and Customer Service from 10.00am to 2.00pm.

Memory Bank
The Powermark Centre,
The Waterfront, Elstree Road,
Elstree, Hertfordshire WD6 3RP

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Fax 0181-956 7477

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Fax 0181-956 7478



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Certificate no. FS 26545

ISO9002 (Formerly BS5750) registered for the supply of computer, printer and workstation memory, processor and other upgrades.

Powermark plc is regularly assessed by the British Standards Institution to ensure compliance with the quality standard.

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Educational Sales
Order Lines

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956 7890**



INTEL MOTHERBOARDS

With the advent of Microsoft Windows 95, the need for enhanced and increased speed of processing information is critical. Increasing your memory is part of the upgrade process. In order to fully compliment a memory upgrade an Intel Pentium motherboard will make your PC really fly. Powermark stock the full range of Intel motherboards.

INTP150AUR	INTEL AURORA PENTIUM PRO 150MHz	£1350
INTP133ATL	INTEL ATLANTIS PENTIUM 133MHz	£749
INTP75ZAP	INTEL ZAPPA 90MHz	£329
INTP100ZAP	INTEL ZAPPA 100MHz	£479
INTP133ZAP	INTEL ZAPPA 133MHz	£699
INTP90END	INTEL ENDEAVOUR 90MHz	£489
INTP133END	INTEL ENDEAVOUR 133MHz	£799



**FREE
Baseball Cap**
worth £4.95

With every order
over £500

When ordering just ask for
your FREE baseball cap as it
is not shipped automatically.

INTEL OVERDRIVE® PROCESSOR FEATURE



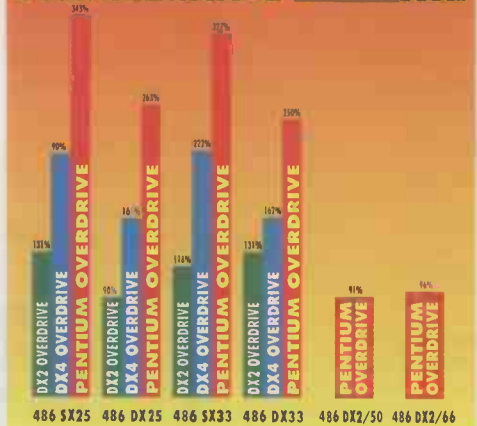
In the world of personal computing things never stop changing. Today you can do things on your PC that you could only dream of just a few years ago. Multimedia computing is now a reality, with audio, video and sophisticated graphics, now as much a part of your PC as a mouse and a keyboard. This new

world of multimedia has resulted in users craving for more processing power. Intel has the answer with its new range of Pentium® OverDrive® processors.

Intel have the solution to suit everyone's performance and pocket requirements. To boost your overall system performance your best option is to purchase a Pentium

Overdrive processor. If your budget cannot stretch then the IntelDX2 and IntelDX4 OverDrives will allow you to run applications more smoothly and quickly. You will notice an immediate and dramatic increase in system performance gaining higher quality video and animation playback as well as the ability to view video and animation in larger windows sizes on your monitor.

TYPICAL OVERALL PERFORMANCE INCREASE



Save time. Increase productivity.

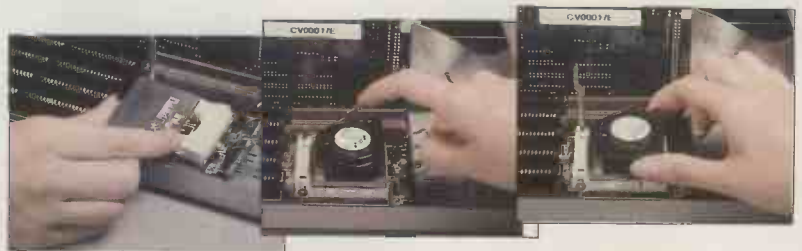
Intel OverDrive processors save you time. Not just the odd microsecond, but real time in every operation you perform. You can load, edit, cut and paste fluently without waiting for your computer to catch up. Databases can be accessed and selections made instantly. Complex CAD graphics or DTP documents can be loaded and edited faster. Less time spent in processing information increases the efficiency of your work. The net result is increased productivity and time savings resulting in cost saving for the business and home user.

More power means more Fun!

Simply by upgrading with a Pentium Overdrive processor games take on a whole new dimension. Keyboard and control responsiveness improves, graphics and textures are enhanced in many popular games. In US Navy Fighters you gain sky, ocean and land, shadows, reflections and sky in Magic Carpet, smoke and skids in NASCAR Racing. Overall Intel's OverDrive processors provide an affordable upgrade solution for today's and tomorrow's home software needs.

Installation couldn't be simpler.

All Intel OverDrive processors come supplied with clear instructions so that the novice user can install one with ease. Installation takes seconds.



9

Credit cards are not debited until despatch VAT at 17.5% will be added to all prices



DELIVERY CHARGES
See page 5

EARLY BIRD Order Bonus
See page 27



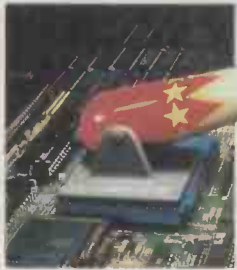
Everyone at Memory Bank passes through the Powermark Academy

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at
Powermark

INTEL OVERDRIVE®

LOWER PRICES!



Intel OverDrive® processors enable you to take advantage of advanced technology on your existing upgradable Intel 486 CPU-based system. OverDrive® processors accelerate all applications running under MS-DOS, Windows, OS/2 and UNIX. Simply install the Intel OverDrive® processor into your existing system and



INTEL DX4 OVERDRIVE®

- Give your PC 100MHz performance with the Intel DX4 OverDrive® processor
- For most 16, 20, 25, 33MHz Intel 486 SX or DX CPU-based systems
- Features Intel's "speed tripling" technology
- 16K on-chip cache memory
- On-chip maths co-processor
- The most powerful PC upgrade available
- Accelerates DOS, Windows, Windows 95, OS/2 and Unix application



INTEL DX4 25MHz - 75MHz £98
 Order codes
 Single socket PC DX4/2575DX
 Dual socket PC DX4/2575SX

INTEL DX4 33MHz - 100MHz £128
 Order codes
 Single socket PC DX4/33100DX
 Dual socket PC DX4/33100SX



OVERDRIVE®

watch your applications run at blazing speeds. Intel OverDrive® processors are available for all Intel 486 CPU-based systems with or without an OverDrive® socket.

INTEL DX2 OVERDRIVE®

Give your Intel 486 SX or DX PC 66MHz performance with the Intel DX2® OverDrive® processor

- For any 16, 20, 25 or 33MHz Intel 486 SX or DX CPU-based systems
- Features Intel's "speed doubling" technology
- 8K on-chip cache memory
- On-chip Maths Co-processor
- Opens and runs all your software applications faster on your system

INTEL DX2 25MHz - 50MHz £76
 Order codes
 Single socket PC DX2/2550DX
 Dual socket PC DX2/2550SX

INTEL DX2 33MHz - 66MHz £90
 Order codes
 Single socket PC DX2/3366DX1
 Dual socket PC DX2/3366DX2

LIFETIME WARRANTY ON ALL INTEL OVERDRIVE® PROCESSORS



All can be installed in seconds by anyone

INTEL PENTIUM® OVERDRIVE®

The Pentium® OverDrive® processor is the newest and fastest member of the Intel OverDrive® processor family. It is the upgrade option for Intel SX2 and DX2® CPU-based systems and is the superior upgrade option for Intel 486SX and DX based systems. It is based on Intel's latest and most sophisticated Pentium® processor technology and features a superscalar architecture,

Amazing performance! which allows the execution of more than one instruction per clock cycle, 32K on-chip cache (one 16K code cache and one 16K data cache) and a faster floating point unit. It operates at two and a half times the speed of the system bus. For example, when a Pentium OverDrive® processor is installed in a 33MHz Intel 486 DX based system, the integer unit, floating point unit and cache operate at 83MHz while the speed of the external bus remains at 33MHz, thus delivering Pentium® processor class performance.



INTEL P24T 63MHz DX5/P24T63 £129

INTEL P24T 83MHz DX5/P24T83 £179

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Educational Sales Order Lines
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PROCESSOR UPGRADES & MOTHERBOARDS

HUGE STOCKS

Guaranteed next working day delivery on virtually all stock items for orders placed even up to 4.00pm.

TECHNICAL SALES PEOPLE

Our sales people are the best. They are trained specialists in their chosen field - multimedia, memory of all types, mass storage, networking and communications.

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We only supply products from leading manufacturers and at low, low prices.

TECHNICAL SUPPORT

Dedicated after sales technical support teams on line to help with installation.

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We welcome orders from corporate, education and public sector organisations. Just fax or phone your order number.

FULL MANUFACTURERS' WARRANTIES

All products supplied by Memory Bank carry manufacturers' warranties and all Powermark plc guarantees.

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Same day delivery charges - there's plenty of parking too! Telephone first to check our stock position on the items you want. We're open from 9.00am to 6.00pm Monday to Friday, Saturdays, Sales from 9.30am to 4.00pm, Technical Support and Customer Service from 10.00am to 2.00pm.

Memory Bank

The Powermark Centre, The Waterfront, Elstree Road, Elstree, Hertfordshire WD6 3RP

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“... and here's what some of our customers have said ...

I am writing to draw to your attention the exceptionally good advice and help provided by Mr A Nelson.

I ordered a hard disk upgrade for my Toshiba 1910, and although Mr Nelson was unsure initially of the suitability of the desired drive, he investigated each of my queries in a very positive and helpful manner. Having now fitted the drive without any difficulty, I am sure this is due to Mr Nelson's thoroughness.

I will certainly recommend Powermark as a company with whom it is a pleasure to do business.

J Hirst
Business Computer Clinic
Notts

REAL HARD DRIVES

Famous hard drives...

Driving a brand new car out of the showroom

Being towed by an AA Relay Van



CONNER FEATURE

CONNER

The Storage Answer

IDE DRIVES

CFS635A	HDC635	635MB	12ms	£129
CFS850A	HDC850	850MB	14ms	£137
CFS1275A	HDC1.0G/1	1.275GB	14ms	£176

SCSI DRIVES

CFP1080	HDC1.08S	1.08GB	10ms	£199
CFP2107	HDC2.1/S	2.1GB	9ms	£479
CFP2105	HDC2.1G/S	2.1GB	11ms	£489
CFP4207				
Caymen	HDC4.2S	4.2GB	8ms	£999

1GB HARD DISKS AND ABOVE

FEATURE:

- 5 year warranty on all SCSI drives
- Embedded servo systems eliminate the need for thermal recalibration and provide consistent data transfer rates
- Hot pluggable for uninterrupted data access in RAID applications
- Low power consumption means less heat and component wear



NEW!

CONNER TRAVAN 800MB

The Travan 800 is the latest in value data protection. Each kit includes

- Backup Exec software
- Interface cable
- User Guide
- 800MB Travan cartridge
- 9.5MB/minute backup rate
- Backward compatible with QIC80 and QIC40

TAPE-STOR 800MB

INTERNAL	CONTRAV800/I	£122
TAPE-STOR 800MB		
EXTERNAL	CONTRAV800/E	£189
TAPE-STOR 800MB		
CARTRIDGE	DC800T	£22

CONNER TAPE-STOR 420MB

Kit includes: Tape, Software, Manuals and cables

- Backward compatible with QIC80 and can read QIC40
- 9.5MB/minute backup rate

TAPE-STOR 420MB

INTERNAL	CONTS420/I	£88
TAPE-STOR CARTRIDGE	DCS122	£14

HARD DISK EXPERTS AVAILABLE FOR SPECIALIST ADVICE

NEW! MAXTOR HARD DISK KIT FEATURE

Maxtor

- Available in the following EIDE capacities: 850MB, 1.0GB, 1.2GB and 1.6GB
- Ideally suited for upgrading to Windows 95 or Windows NT
- Exclusive, hotline technical support, BBS and faxback service available to only to Maxtor customers
- "No quibble" Maxtor service and warranty

MAXTOR IDE DRIVE KITS

K127850A	HDM850	850MB Kit	12ms	£159
K1271080A	HDM1.0A	1.0GB Kit	12ms	£205
K1271260A	HDM1.2A	1.2GB Kit	12ms	£229
K1271620A	HDM1.6A	1.6GB Kit	12ms	£279

ALL KITS INCLUDE:

- Easy step by step installation guide
- Dual IDE cable
- Formatting software that can format hard drives greater than 528MB
- 5.25" mounting brackets
- Rail supports
- Screws



**Complete
Hard
Disk
Kits!**

Credit cards are not debited until despatch VAT at 17.5% will be added to all prices



DELIVERY CHARGES
See page 5

EARLY BIRD
Order Bonus
See page 27



Everyone at Memory Bank passes through the Powermark Academy

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HARD DISK DRIVE FEATURE



Calluna
TECHNOLOGY

Seagate

Quantum

WESTERN DIGITAL



Maxtor

FUJITSU

MICROPOLIS

CONNER
The Storage Answer

TOSHIBA PARTNERS

IDE HARD DISK DRIVES

Conner	CFS635A	635MB	12ms	£129
Western Digital	AC2635	639MB	10ms	£119
Conner	CFS850A	850MB	14ms	£137
Western Digital	AC2850	853MB	10ms	£135
Western Digital	AC31000	1.0GB	10ms	POWERCUT! £169
IBM	Pegasus	1.05GB	9ms (mode 4)	£259
Seagate	ST31220A	1.08GB	12ms	£169

Fujitsu	M1606T	1.09GB	10ms	£169
IBM	Deskstar	1.2GB	9ms (mode 4)	£229
Maxtor	71260AT	1.26GB	12ms	£209
Conner	CFS1275A	1.275GB	14ms	POWERCUT! £176
Western Digital	AC31200	1.28GB	10ms	POWERCUT! £183
Western Digital	AC31600	1.62GB	10ms	POWERCUT! £256
Maxtor	71626AP	1.63GB	12ms	£279

SCSI HARD DISK DRIVES

IBM	Deckstar	1.05GB	9ms	£229
Seagate	ST31230N Hawk-2	1.05GB	9ms	£275
Conner	CP1080	1.08GB	10ms	£199
Quantum	Fireball	1.08GB	10ms	£239
Micropolis	4221	2.05GB	8.5ms	£599
Conner	CFP2107	2.1GB	9ms	£489
Conner	CFP2105	2.1GB	11ms	£499
IBM	Ultrastar	2.1GB	8ms	£958
Seagate	ST32430N Hawk-2	2.1GB	9ms	£575
Seagate	ST32550N Barracuda Fast SCSI 2	2.1GB	8ms	£899
Micropolis	1936	3.02GB	12ms	£999
Conner	CFP4207 Caymen	4.2GB	8ms	£999
Micropolis	3243	4.3GB	8.5ms	£1059

Seagate	ST15230N Hawk-4	4.3GB	9ms	£1079
Seagate	ST15150N Barracuda Fast SCSI 2	4.3GB	8ms	£1199
Seagate	ST410800N Elite	9.09GB	8ms	£1799
Micropolis	1991	9.1GB	12ms	£1799

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Micropolis	4221AV	2.05GB	8.5ms	£819
Quantum	Atlas XP32150	2.1GB	8ms	£559
Micropolis	1936AV	3.02GB	12ms	£1029
Micropolis	3243AV	4.3GB	12ms	£799
Quantum	Grand Prix XP3430S	4.3GB	8ms	£1460
Micropolis	1991AV	9.1GB	8.5ms	£1995

PCMCIA HARD DISK DRIVES (Type III)

Calluna	Calluna170	170MB	16ms	£299
Calluna	Calluna260	260MB	16ms	£379
Kingston	DPPCM/260	260MB	11ms	£439
Ministor		260MB	12ms	£379

2.5" HARD DISK DRIVES

2.5" IDE

Hitachi	DK212A/34	340MB	12ms	£139
Hitachi	DK212A/54	540MB	12ms	£199
Hitachi	DK212A/81	810MB	12ms	£329
Hitachi	DK212A.10	1.0GB	12ms	£399
Seagate	ST9240AG	210MB	16ms	£149
Toshiba	MK1924FC	543MB	12ms	£239
Toshiba	MK2628FC	810MB	12ms	£389
IBM	85G3627	1.2GB	12ms	£595
Olivetti	ECHOS	1.3GB	12ms	£610
Toshiba	MK2720FC	1.35GB	13ms	£599

HARD DISK DRIVE ACCESSORIES

EXTERNAL CASES

SDCASE1/3	Single external device case (Half/Full height)	£89
SDCASE1/3-FW	Single external fast and wide device case	£129
SDCASE2/3	Dual external device case (Half/Full height)	£125
SDCASE4/3	Quad external device case (Half/Full height)	£228
SDCASE4/5-10	Quad external hot pluggable device case	£1099

CABLES CONNECTORS AND CONVERTERS

SCSIC	Single device internal SCSI cable	£7
SCSIC/3	3 way internal SCSI cable	£13
SCSICBLFW	Fast and Wide internal SCSI cable	£99
SCSITERM/A	SCSI active terminator	£27
SCSITERM/P	SCSI passive terminator	£12
IDECBL	Dual device internal IDE cable	£7
CDNK/PAR	Parallel to SCSI converter (Centronics)	£109
CDNK/PAR-MD	Parallel to SCSI converter (Micro D)	£119
SIM/SCSIPCM	PCMCIA SCSI converter/controller	£109

SCSI CONTROLLER CARDS

FUTURE DOMAIN/ADAPTEC				
	16-bit SCSI	ISA	Bare Card	£55
	16-bit SCSI	ISA	Power SCSI Software	£109
	32-bit SCSI II	PCI	Bare Card	£135
	16-bit SCSI	PCMCIA	SCSI Software	£169

DPT				
DPT 2021	16-bit SCSI II	ISA	Bare	£165
DPT 2022	32-bit SCSI II	E-ISA	Bare	£259
DPT 2124	32-bit SCSI II	PCI	Bare	£359

See Adaptec feature on page 13 for more controllers

IDE CONTROLLER CARDS

FUTURE DOMAIN				
NEW!	32-Bit E-IDE	IDE Software and cables	£49	
		Ideal for hard drives over 540MB		
	E-IDE	IDE Software and cables	£39	



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SPECIAL OFFER!
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120MB - 250MB
£7 EACH
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DATA CARTRIDGES

	Each	10 Pack
DC6150	£12	£109
DC6250	£15	£139
DC6525	£17	£169
DC9100Magnus	£27	£249

All QIC tapes are preformatted

QIC	Capacity	Each	10 Pack
DC2120XL	350MB	£15	£139
QIC3010	700MB	£17	£185
QIC3020	1.7GB	£23	£209

DAT	Length	Each	10 Pack
1.3GB	60m	£6	£58
2GB	90m	£9	£89
4GB	120m	£15	£145
Head Cleaner		£26	

VERBATIM FEATURE

DISKETTES

3.5" HD 10 Pack	£4
3.5" HD Preformatted 20 Pack + 2 free!	£8

DATA AND DAT CARTRIDGES

	Unit	10 Pack
DC2120XL	£15	£139
MC 3000 XL	£15	£139
4mm 60m	£7.50	£69
4mm 90m	£7.50	£69
8mm 112m	£7.50	£69

BLANK CDS

CD-R 74 Min	£10
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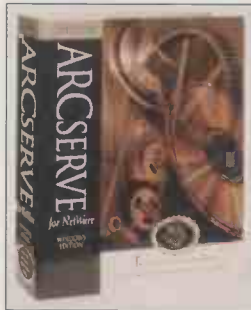
OPTICAL DISKS

3.5"-128MB	£17
3.5" 230MB	£22
5.25" 600MB	£45
5.25" 1.3GB	£57

CHEYENNE FEATURE

CHEYENNE

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- Increased device capacity - Offers multiple support to SCSI and tape devices

DATA MANAGEMENT

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 - Single Installation for Multiple ARCserve Servers
 - SNMP Massaging and Alerts
 - Windows 95 like interface
- ARCserve 6 Windows for WorkGroups** ARCSE6/WGW £339
ARCserve 6 Enterprise Edition ARCSE6/ENT £819

ARCserve 6

ENHANCED RELIABILITY

- RAID 5 fault tolerance - prevents incomplete critical backup
- Real time tape mirroring - duplicate media can be stored remotely
- Full disaster recovery protection
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ARCserve NT

- 32 bit multi-threaded architecture
 - Enhanced data protection
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 - Compatible with multiple ARCserve environments
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Includes

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 - FAXserve 5 user NLM based fax solution
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adaptec

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- PCI SCSI MASTER AHA3940 KIT** £289
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TOTAL CONNECT AHA1515 KIT £62
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 - Floppy support

- EISA SCSI MASTER AHA2742AT KIT** £239
- 14 device support
- MINISCSI PLUS** £65
MINISCSI EPP £119
- Plugs into parallel port
 - SCSI-Works software

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DELIVERY CHARGES
See page 5

EARLY BIRD Order Bonus
See page 27



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HP COLORADO FEATURE



HP COLORADO T1000

TRAVAN

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- Very fast DAT drive system
- Capacity from 2GB to typically 8GB
- PC Magazine Editors' Choice

HP SureStore Tape

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HP SureStore Tape 5000

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ISA Kit includes cable, cartridge, head cleaner & full software

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EXTERNAL MOUNTING KIT CMS1SE £61

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It's time once again to visit...



Dr Jane's Storage Surgery

Dear Dr Jane,

Not knowing much about computers, I wanted to clarify a few points with you before I buy a new hard disk drive. Presently I have 120MB, but I need to increase this before installing Microsoft Office 95. The most important thing to mention is that the hard disk has to be future proof, as far as possible. I hope that this is not asking too much but I work from home and my computer is essential to my expanding business.

Lost in Lowestoft

Dear Lost,

Do not despair as these symptoms are very common. The treatment is very simple and painless. I advise a SCSI hard disk drive together with a controller card. This will give you speed, performance, capacity, and expandability. Furthermore, Powermark can offer internal or external hard drive remedies. This prescription is tailor made for your needs:

A Future Domain SCSI card together with a Connor 1.0GB SCSI hard disk drive. All software and cables are provided.

If you have other specific requirements phone the surgery today.

Yours, Dr Jane

Send your thoughts and queries to Dr Jane, c/o Memory Bank, The Powermark Centre, The Waterfront, Elstree Road, Elstree, Herts WD6 3RP or fax her on 0181 956 7100. You can also Email Doctor Jane on: djane@powermark.com

Dr Jane makes every effort to answer your storage problems, but she cannot guarantee to reply to everyone.

We confess. Dr Jane has no doctorate - Yet!

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- Choice of 105MB or 270MB formatted capacities on each cartridge

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SYQ135/E EZ135 SCSI External £195

SYQ135/C 135MB Cartridge £17

Free cartridge with all EZ135 disk drives

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	Type	Capacity	Internal	External
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SYQ270S	SyQuest 3.5" SCSI	270MB	£254	£344
SYQ270P	SyQuest 3.5" PARALLEL	270MB	-	£425
SYQ88	SyQuest 5.25" SCSI	88MB	£179	£269
SYQ200	SyQuest 5.25" SCSI	200MB	£259	£349

SYQUEST CARTRIDGES

Capacity	Form	Each	5 Pack
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270MB	3.5"	£40	£195
44MB	5.25"	£29	£140
88MB	5.25"	£35	£170
200MB	5.25"	£50	£245

IOMEGA TAPE BACKUP FEATURE

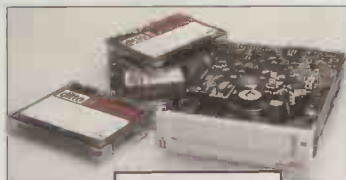
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DITTO 800

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QIC & WIDE 420MB DC5122 £89

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CARD IOMEGA/DATA £49

700MB DATA CARTRIDGE

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PARALLEL PORT CD ROM

- Easy connection to parallel port.
- Ideal for notebooks
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EZCD QUAD



AMACOM EZ DISK

DISKLITE

AMACOM DISKLITE

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- Printer port for concurrent printing
- Carry case included for mobility

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DISKLITE 1.2GB HDAMA/DL1.2 £695

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- EZ DISK 1.2GB** HDAMA/EZ1.2 £319

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See page 5

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Personal Computer World
EDITOR'S CHOICE

TEAC

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- Can be mounted vertically or horizontally

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	Alba

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MEGAPACK
Now only £19**

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AVerKey3

LINDY

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- 100% flicker-free picture filter using full screen buffer
- Displays simultaneously on monitor & TV/video device
- Freeze frame function
- Bundled with award-winning PC authoring software "ACTION"



The ultimate
VGA to TV converter and
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tool

AVerKey Plus

- Compatible with all PCs with a VGA output, including portables & notebooks



- Ideal for business, education & training, video recording, and professional demonstration applications
- Displays simultaneously on VGA monitor and TV/video device
- Underscan & Overscan functions (in DOS & Windows) to fit different display devices
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AVERKEY
PLUS £95

AVer VideoEditor

- Complete PC video editing package with computer/video overlay and VGA to TV converter
- Single time video titling, editing and videotape recording
- Control the video source and videotape recorder on the PC
- Add titles, graphics, animations & video images onto live video
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- Playback edited video on TV and record to VCR

Video Editing

- Supports resolutions up to 800 x 600 x HiColor
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- Simultaneous display on both the computer & TV
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- Arrange video clips in any order by 'drag and drop'
- Supports Sony's RC time code

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AVER
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AVERKEY 3 £249

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A Grand
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Windows 95
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17

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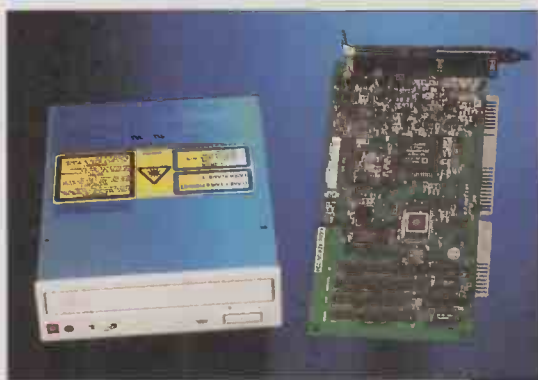
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VIDEOCARDS

Aaron's Answers



Dear Aaron,

Windows runs very fast on my friend's PC, even though we have identical models. All the configuration is the same, and nothing springs to mind. Why should this be, is it the machine that is at fault or is it just a quirk?

Bill Wildered

Dear Bill,

Just a thought - Have you set the virtual memory option under EMM386 in the control panel? If not, change the setting to either permanent or temporary. Don't forget the 32-bit disk access option as well. Since your friend has the same machine, have you thought of a processor upgrade and even Microsoft Windows 95? Then your friend will be envious of you!

Yours, Aaron

Send your questions to Aaron's Answers, c/o Memory Bank, The Powermark Centre, The Waterfront, Elstree Road, Elstree, Herts WD6 3RP or fax him on 0181 956 7100. You can also Email Aaron on: aaron@powermark.com

Aaron makes every effort to answer your problems, but he cannot guarantee to reply to everyone.

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	Aztech 4Xi	AZTECH4X	IDE	Q	600Kb/sec	300ms	Tray	256Kb	E-IDE	£95	£109
	DFI / SANYO	DDFH/1	IDE	Q	600Kb/sec	190ms	Tray	256Kb	E-IDE	£99	-
	Goldstar GCD-R540B	CDG540B	IDE	Q	600Kb/sec	220ms	Tray	128Kb	E-IDE	£89	-
	Mitsumi FX400	CDM1FX4	IDE	Q	600Kb/sec	230ms	Tray	128Kb	E-IDE	£93	-
	Nakamichi (7 CD-ROM)	CDNAM87	SCSI	D	330Kb/sec	380ms	Caddy	256Kb	16-bit SCSI	-	£249
	NEC 3XP	CDN3XP	SCSI	T	450Kb/sec	250ms	Caddy	128Kb	16-bit SCSI	-	£245
	NEC 6Xi/e	CDN6X	SCSI	6	900Kb/sec	150ms	Caddy	256Kb	16-bit SCSI	£265	£355
NEW!	NEC 4X4C	CDN4X4C	IDE	Q	600Kb/sec	250ms	Tray	256Kb	E-IDE	£189	-
NEW!	NEC CDR1300	CDNCDR1300	SCSI	Q	600Kb/sec	200ms	Tray	256Kb	16-bit SCSI	£189	-
NEW!	Panasonic 504B	CDPA504B	IDE	Q	600Kb/sec	150ms	Tray	128Kb	E-IDE	£125	-
	Panasonic LF1004PDO	PAN/PDO	SCSI	Q	600Kb/sec	220ms	Caddy	512Kb	16-bit SCSI	£489	£569
	Pioneer DRM624X	CDPIDRM624X	SCSI-II	Q	670Kb/sec	150ms	Caddy	256Kb	16-bit SCSI	£399	£469
	Pioneer DRU124X	CDPIDRU124	SCSI	Q	660Kb/sec	150ms	Tray	256Kb	16-bit SCSI	£185	£245
	Pioneer 124X	CDP124	IDE	Q	600Kb/sec	150ms	Tray	256Kb	E-IDE	£115	-
	Plextor 6x	CDPLX/6	SCSI	6	900Kb/sec	115ms	Caddy	512Kb	16-bit SCSI	£289	£329
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NEW!	Toshiba XM-3701B	CD3701B	SCSI-II	6	1000Kb/sec	135ms	Caddy	256Kb	16-bit SCSI	£279	-
	Toshiba XM5402B	CD5402	E-IDE	Q	600Kb/sec	190ms	Tray	256Kb	E-IDE	£Call	£Call

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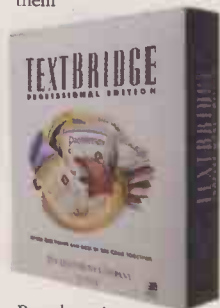
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REFERENCE AND EXPLORATION

Windows 95
32-bit
software

Money95 POWERCUT! CD ROM £24
500 Nations POWERCUT! CD ROM £22
Wine Guide CD ROM £21
Oceans V1.0 CD ROM £21

AutoRoute Express
UK and Ireland V4 floppy £35
UK and Ireland V4 CD ROM £39
Europe V4 floppy £29
Europe V4 CD ROM £39
Cinmania '96 CD ROM £20

Bookshelf '95 POWERCUT! CD ROM £58
Dinosaurs POWERCUT! CD ROM £21
Art Gallery POWERCUT! CD ROM £27

Musical Instruments CD ROM £21
Schubert POWERCUT! CD ROM £21
Stravinsky POWERCUT! CD ROM £21
Strauss POWERCUT! CD ROM £21
Mozart POWERCUT! CD ROM £21
Beethoven POWERCUT! CD ROM £21

Composer Collection CD ROM £49

• 3 CD ROM set includes Mozart,
Beethoven and Schubert

NEW! World Of Flight

NEW! For Windows CD ROM £29



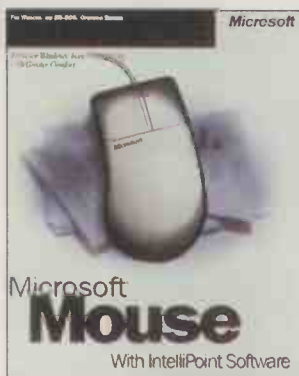
ENTERTAINMENT

NEW! Flight Simulator 5.1 CD ROM £26
Space Simulator floppy £29
Arcade floppy £15
Golf POWERCUT! floppy £22
Golf POWERCUT! CD ROM £22
Golf course - Mauna Kea floppy £15
Golf course - Pinehurst floppy £15
Golf course - Banff Springs floppy £15
Best of Entertainment
Packs POWERCUT! floppy £16
Return Of Arcade £Call

MICROSOFT® HARDWARE FEATURE

MICROSOFT® MICE

- MICROSOFT MOUSE 2.0
 - Plug and Play with Windows 95
 - Ergonomically designed
 - Teflon 'gliders' - moves smoother and swifter
 - New improved IntelliPoint software
- MICROSOFT MOUSE 2.0 £35
- MICROSOFT® HOME MOUSE £24
- 18 FREE games!



Microsoft®

MICROSOFT® NATURAL KEYBOARD

- Ready for Windows 95
- 104 key design
- IntelliType software - customisable for improved Windows based performance



MICROSOFT NATURAL KEYBOARD £65

Credit cards are not
debited until despatch
VAT at 17.5% will be
added to all prices

**DELIVERY
CHARGES**
See page 5

**EARLY BIRD
Order Bonus**
See page 27



**POWERMARK
ACADEMY**

Everyone at
Memory Bank
passes through the
Powermark
Academy

BANK

at Powermark

TAXAN FEATURE

MONITORS



Personal Computer World EDITOR'S CHOICE

TAXAN

Taxan. The market leading monitor brand in the UK offering a comprehensive range of high performance and quality display solutions. For display quality, accuracy, ease of use, safety, reliability and value for money, Taxan are the preferred choice for graphics professionals and home users.

Personal Computer World HIGHLY COMMENDED



TAXAN 1080LR

The Ergovision series offers compatibility with the US EPA Energy Star programme as well as the VESA DPMS and TCO 92' Power Management standards. All monitors are also Macintosh compatible (Macintosh cable required). Now with 2 year warranty. On site warranty available on request.

Monitor experts available for specialist advice

TAXAN 2100LR

	Size	Dot pitch	Resolution at up to:	Frequency	Tube		
TX400LR	14"	0.28mm	800 x 600	60Hz	Conventional	POWERCUT!	£189
TX410LR	14"	0.28mm	1024 x 768	60Hz	Conventional	POWERCUT!	£196
TX420LR	14"	0.28mm	1280 x 1024	60Hz	Conventional	POWERCUT!	£239
TX580+LR	15"	0.28mm	1280 x 1024	60Hz	FST	POWERCUT!	£285
TX880LR	17"	0.28mm	1280 x 1024	60Hz	FST	POWERCUT!	£510
TX885LR	17"	0.26mm	1600 x 1200	65Hz	FST	POWERCUT!	£599
TX895LR	17"	0.25mm	1600 x 1200	67Hz	Trinitron	POWERCUT!	£799
TX1080LR	20"	0.28mm	1600 x 1200	65Hz	Conventional	POWERCUT!	£869
TX2100LR	21"	0.30mm	1600 x 1200	72Hz	Diamondtron		£1359
TXCV100	9.4"	0.30mm	640 x 480	72Hz	TFT LCD Colour		£1659
TXCV200	9.4"	0.30mm	640 x 480	72Hz	STN LCD Colour		£1199



TAXAN 410LR



TAXAN 580+LR (WINDOWS 95 PLUG & PLAY)



TAXAN 880LR

TAXAN GRAPHICS CARDS

POWERED BY



A strategic alliance to provide the perfect graphics solution.

WINTURBO ACCELERATORS

GTS WINTURBO (VRAM)

ISA	2MB VRAM	£197
ISA	4MB VRAM	£338
VLB	2MB VRAM	£195
VLB	4MB VRAM	£338
PCI	2MB VRAM	£196
PCI	4MB VRAM	£338



GTS WINTURBO

- With Windows 3x & Windows 95 software MPEG player
- Windows 95 Plug & Play

WINBOOST ACCELERATORS

GTS WINBOOST (DRAM)

ISA	1MB DRAM	£99
ISA	2MB DRAM	£136
VLB	1MB DRAM	£99
VLB	2MB DRAM	£136
PCI	1MB DRAM	£99
PCI	2MB DRAM	£136

- Compatible on DRAM PCI
- Up to 100Hz flicker free display
- Windows motion video accelerator



- Up to 16.7 million colours
- Easy installation with no DIP switches



GTS WINBOOST

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(100 lines)

Educational Sales Order Lines

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Our sales people are the best. They are trained specialists in their chosen field - multimedia, memory of all types, mass storage, networking and communications.

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Memory Bank is the direct division of Powermark plc which has been supplying upgrades for over 5 years and has an annual turnover exceeding £18 million with a healthy balance sheet.

LOW PRICES
We only supply products from leading manufacturers and at low, low prices.

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Dedicated after sales technical support teams on line to help with installation.

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FULL MANUFACTURERS' WARRANTIES
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PERSONAL CALLERS VERY WELCOME
Same day delivery charges - there's plenty of parking too! Telephone first to check our stock position on the items you want. We're open from 9.00am to 6.00pm Monday to Friday, Saturdays: Sales from 9.30am to 4.00pm, Technical Support and Customer Service from 10.00am to 2.00pm.

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VISA



POWERMARK
Gold Card



VIDEO VAULT

Tutorial Videos

Communicating with the Internet	£12
DTP for Microsoft Word 6.0	£10
Microsoft Dos Advanced	£10
Optimising MS Dos	£10
Microsoft Excel 5 Advanced	£12
Microsoft Excel 5 Introduction	£12
Updating Microsoft Excel 5	£10
Microsoft Windows 3.1 Advanced	£12
Microsoft Word 6.0 Advanced	£12
Microsoft Word 6.9 Introduction	£12
Programming in C++	£12
Secrets & Time savers to MS Word 6.0	£20
WordPerfect 6 for Windows Advanced	£10
WordPerfect 6 for Windows Beginners	£10



MASTER QUIZZY

Famous quiz show sayings...

It's good but it's not right

Catchphrase

A vowel please Carol

Countdown

B-I-G money

Family Fortunes

HITACHI MONITOR FEATURE

HITACHI

Hitachi is one of the largest manufacturers of high resolution computer monitors, and is able to offer a complete range of models which will meet the needs of both home or small-business users, as well as the more demanding needs of the professional designer, publisher or DTP user.

All monitors offer the latest in screen ergonomics including tilt and swivel bases, anti-glare screen treatment, MPR-II low radiation, energy save function and flicker free resolution capability.

All monitors are IBM PC, Apple Macintosh compatible, and can connect to most workstations.



HITACHI 15MVX Value

Monitor experts available for specialist advice

	Code	Size	Dot pitch	Resolution	Refresh	Tube	
15MVX Value	HITMON/15MVX	15"	0.28mm	1280 x 1024	60Hz	FST, Energy Star	£249
17MVX Value	HITMON/CM1711	17"	0.26mm	1280 x 1024	60Hz	FST, VESA-DPMS	£467
CM1711	HITMON/17MVX	17"	0.26mm	1280 x 1024	77Hz	FST, VESA-DPMS	£589
CM2096	HITMONCM2096	20"	0.31mm	1280 x 1024	75Hz	Standard, VESA-DPMS	£875
CM2098	HITMONCM2098	20"	0.28mm	1600 x 1200	72Hz	Standard, VESA-DPMS	£1139
NEW! CM2111	HITMONCM2111	21"	0.28mm	1600 x 1200	75Hz	FST, VESA-DPMS	£1389
NEW! CM2112	HITMONCM2112	21"	0.26mm	1600 x 1280	107Hz	FST, VESA-DPMS	£Call
CM2199	HITMONCM2199	21"	0.26mm	1600 x 1280	80Hz	FST, VESA-DPMS	£1935



HITACHI 17MVX Value

17MVX Value

- 17" Flatter Squarer Tube
- Superfine .26mm dot pitch
- Dynamic focusing gun for sharp focus in all areas
- Optimum flicker-free resolution of 1024 x 768 @ 75Hz
- PC & Mac compatible
- VESA, DPMS power save
- Microprocessor control for optimising image size, position and geometry
- MPR-II low emission
- Colour adjust facility
- 12 months on-site replacement warranty

15MVX Value

- PC and Mac compatible (when supplied with appropriate Mac adapter)
- Supports resolution standards - VGA / SVGA / ESVA / XGA / 8514A / MacII, Mac Quadra
- High refresh rate in all modes
- Microprocessor control
- MPR-II compliant
- VESA-DPMS compliant

CM1711M

This new multi-scanning colour monitor with 0.26mm dot pitch tube offers sharp and clear images right up to the bezel. Images are flicker free to over 75Hz for resolutions from 640 x 480 to 1280 x 1024, and screen adjustments are made by a microprocessor-based on-screen display.

In a recent PC Magazine 'First Looks' review, this monitor was rated 12% better than the previous Editor's Choice.

VIEWSONIC MONITOR FEATURE



VIEWSONIC 21PS

ViewSonic has become synonymous with providing superior advanced colour monitors. ViewSonic are dedicated to innovative in design and manufacture of high quality monitors. As a result we have gained the respect and acknowledgement of Blue chip companies and European industries. ViewSonic range of monitors are designed for user of every requirement, from the Economy range for the home user to the

ViewSonic®

Graphics and Professional range for office and professional users. The Multimedia range has integrated speakers for serious multimedia use.



VIEWSONIC 17GS



VIEWSONIC 17GA PerfectSound™

Built-in sound

	Code	Size	Dot pitch	Resolution	Frequency	Tube	
14ES	VIEW/14ES	14"	0.28mm	1024 x 768	60Hz	FST	£222
15ES	VIEW/15ES	15"	0.27mm	1024 x 768	77Hz	FST	£309
17GS	VIEW/17GS	17"	0.27mm	1280 x 1024	65Hz	FST	£599
20G	VIEW/20G	20"	0.28mm	1600 x 1280	60Hz	FST	£1119

Multimedia series with built-in speakers

15GA	VIEW/15GA	15"	0.27mm	1280 x 1024	65Hz	FST	£429
17GA	VIEW/17GA	17"	0.27mm	1280 x 1024	65Hz	FST	£657
17EA	VIEW/17EA	17"	0.28mm	1280 x 1024	65Hz	FST	£609

Professional series

17PS	VIEW/17PS	17"	0.25mm	1600 x 1280	60Hz	FST	£699
21PS	VIEW/21PS	21"	0.25mm	1600 x 1280	60Hz	FST	£1559

Monitor experts available for specialist advice



BANK

at
Powermark

POWERMARK MONITOR FEATURE



powermark
Monitors

New from Powermark - top quality monitors packed with leading edge features at very low prices.

MBMON15

15" FLATTER SQUARER TUBE MONITOR (MPRII)

We have tested this monitor with some of the best known names and it has exceeded all expectations and comes out as one of the best for picture quality, image sharpness and vivid colours. With a maximum non-interlaced resolution of 1024 x 768 at 0.28 dot pitch this monitor will give you true image likeness in all your applications.

Top quality, low radiation, non-glare, non-interlaced monitor with Energy Star power saving. Flatter squarer tube and Invar mask give even crisper fuller screen images.

15" minimum recommended screen size for Windows 95

All Powermark monitors are MPRII compliant and feature EPA Energy Star power saving



MBMON15
15" Monitor

MBMON17

17" FLATTER SQUARER TUBE MONITOR WITH OSD

To really get the most out of Windows 95, choose Powermark's high quality 17" monitor with OSD (On Screen Display). With a maximum non-interlaced resolution of 1280 x 1024 at 0.28 dot pitch you can be sure that Powermark's fully featured 17" monitor will meet all your demands and at an unbelievably low price too!

EXCLUSIVE MONITORS AT LOW, LOW PRICES!



MBMON17
17" Monitor

	Size	Dot pitch	Resolution	Frequency	Features	
MBMON15	15"	0.28mm	1024 x 768	65MHz	FS, NG, IM, TSB	£219
MBMON17	17"	0.28mm	1280 x 1024	64MHz	FS, NG, IM, OS, TSB	£399
MBMON20	20"	0.28mm	1600 x 1280	82MHz	DF, IM, AS, TSB, DIG	£829
MBMON21	21"	0.28mm	1600 x 1280	82MHz	FS, DF, IM, TSB, DIG	£1149

KEY NG = Non-glare, FS = Flatter Squarer Tube, IM = Invar Mask, OS = On Screen Display, TSB = Tilt and Swivel Base, DIG = Digital Control, AS = Anti-Static, DF = Double Focus

NOKIA MONITOR FEATURE

NOKIA

In a world where energy consumption and conservation is continuously discussed in the media, Nokia has come up with an innovative approach to power consumption on their range of monitors. Nokia's "PowerSaver" is based on the NUTEK and VESA standards. This means that all their monitors meet the strictest industry energy emission regulations.

about the actual user-mode and make programming of parameters very easy.

NOKIA 449M

- 15" TRINITRON TUBE
- 0.25mm dot pitch
- 1024 x 768 @ 80Hz
- On screen menu
- Power saver option
- MPRII
- Minimum screen edge distortion

The broad range of monitors that Nokia manufacture means that they have a monitor to meet everybody's needs. For the graphics, CAD and DTP professional, the Multigraph 17" range offers a powerful mix of features and performance.

Other features such as the on-screen menu give an overview



Model	Code	Size	Dot pitch	Resolution	Frequency	Tube	
Multigraph 449M	NOKIA449M	15"	0.25mm	1024 x 768	80Hz	Trinitron	£365
Multigraph 447M	NOKIA447M	17"	0.25mm	1024 x 768	60Hz	Trinitron	£639
Multigraph 447X	NOKIA447X	17"	0.25mm	1280 x 1024	76Hz	Trinitron	£829
Multigraph 447M092P	NOKIA447M092P	17"	0.25mm	1024 x 768	76Hz	Trinitron	£789
Multigraph 445M	NOKIA445M	21"	0.28mm	1280 x 1024	65Hz	FS Invar	£1449
Multigraph 445X092P	NOKIA445X092P	21"	0.28mm	1600 x 1200	80Hz	FS Invar	£1799

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Our sales people are the best. They are trained specialists in their chosen field - multimedia, memory of all types, mass storage, networking and communications.

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We welcome orders from corporate, education and public sector organisations. Just fax or phone your order number.

FULL MANUFACTURERS' WARRANTIES
All products supplied by Memory Bank carry manufacturers' warranties and full Powermark plc guarantees.

PERSONAL CALLERS VERY WELCOME
Save on delivery charges - there's plenty of parking too! Telephone first to check our stock position on the items you want. We're open from 9.00am to 6.00pm Monday to Friday. Saturdays: Sales from 9.30am to 4.00pm, Technical Support and Customer Service from 10.00am to 2.00pm.

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TEN APPLICATIONS FOR ISDN

1. Information services including Internet
2. Data transfer
3. Video-conferencing
4. Video surveillance
5. LAN to LAN bridging
6. Broadcasting
7. Teleworking
8. Desktop conferencing
9. Leased circuit backup
10. Telemarketing



**FREE
Baseball Cap**
worth £4.95

With every order over £500

When ordering just ask for your FREE baseball cap as it is not shipped automatically.

ISDN FEATURE

YET ANOTHER SERVICE FROM MEMORY BANK

WHAT IS ISDN?

**INTEGRATED SERVICES
DIGITAL NETWORK**

IT'S DIGITAL - THE BEST THING SINCE ALEXANDER GRAHAM BELL INVENTED THE TELEPHONE!

Conventional telephone lines are analogue so data transmitted or received from a computer needs to be converted from a digital format. This is a relatively slow process and limits the amount of data that can be transmitted or received.

WHY ISDN?

ISDN AS A BUSINESS TOOL

ISDN allows you to stay ahead of your competition. It allows you to communicate on a domestic and international platform with absolute clarity and speed.

SPEED

New generation fax via ISDN offers two distinct advantages over its predecessors: it is approximately 7 times quicker and it gives unprecedented quality

With an ISDN line - you can use:

- Internet
 - Video conferencing
 - Voice applications
 - Data transfer
- ... FASTER**



COST SAVINGS

The Integrated Services Digital Network delivers true competitive advantage for business and non-business users. As its a low cost upgrade you will soon recoup your initial investment. An ISDN call costs the same as a call made on a normal telephone line.

ISDN can benefit people in different ways by cutting fax bills by up to 80/90%.

At 64Kbits/sec and more, this means that is more than 300% faster than the newest public analogue systems AND with absolute clarity.

Here is an example:

	NUMBER OF TIMES AN 8 PAGE DOCUMENT IS SENT (per day)	1	5	10
ISDN Group 4 fax machine	Daily transmission time for GP4 fax (Minutes)	1	4.5	9
Analogue Group 3 fax machine	Daily transmission time for GP3 fax (Minutes)	6	3	63

Example of potential annual savings with ISDN

	£121	£605	£1,210
--	------	------	--------

Here is another example:

Global fax transmission of a 204 page document from London to Paris

Conventional telephone line	ISDN solution
1 hr transmission time at £15	9 minutes 11 seconds at £6.84

You don't have to be a large company or business to benefit from these cost savings. Lines are available on an individual basis. There is no other qualification use other than an ISDN terminal adapter.



BT ISDN SOLUTIONS

BT IGNITION TERMINAL ADAPTER

Plug & Play

BT's Ignition ISDN Terminal Adapter with fast file transfer is simple yet effective integrated communications package. It allows users to exploit the benefits of digital communications to the full, and enjoy unparalleled levels of flexibility, quality and speed.

For total flexibility, the BT Ignition also has two analogue sockets. You can use one ISDN 2 channel for data transfers and the other as a regular phone, fax or modem line

ALL YOU NEED IN ADDITION IS AN ISDN 2 LINE

Here are some of the benefits:

- 64K sync DTE per channel(option for 128K)
- V42bis data compression simultaneous voice and data on one line
- Two analogue ports for phones
- Includes HyperAccess Lite software
- Cables included



BT IGNITION TERMINAL ADAPTER £479

ISDN experts available for specialist advice

Credit cards are not debited until despatch VAT at 17.5% will be added to all prices



DELIVERY CHARGES
See page 5

**EARLY BIRD
Order Bonus**
See page 27



Everyone at Memory Bank passes through the Powermark Academy

ISDN FEATURE

Most frequently asked questions about ISDN

- Q Is it available in my area?**
A YES. 98% of the UK has access to ISDN.
- Q How quickly can it be installed?**
A Once you have given your details, a BT engineer can come out at your convenience to install the line, usually within 6 to 10 working days.
- Q What equipment do I need for connection?**
A Depending on the application, all you may need is an ISDN Terminal Adapter and line.
- Q Is it only for large companies?**
A NO. Anyone can have ISDN - whether for home or business use.
- Q Is it very expensive?**
A NO. There is a standard installation cost of £400 and line rental of £84 per quarter. This will soon be recouped once you start using ISDN as it is much quicker than analogue technology. (See comparison table.)
- Q What are the benefits of buying from Memory Bank?**
A Choice and technical knowledge. We'll help you choose the best line option together with the right Terminal Adapter.
- Q Do I save money if I order from BT?**
A NO. Our rates are identical to BT's.
- Q Who will install my ISDN line?**
A BT.
- Q Who do I pay?**
A You pay BT for the installation and the call charges - just like an ordinary telephone bill.

ISDN SERVICE OPTIONS

ISDN 2

This is the basic rate service. It is designed to meet the needs of home users and small organisations. ISDN 2 delivers two 64K channels.

ISDN 30

ISDN 30 is BT's primary rate service. It is aimed at a wide range of companies and organisations since it is available with a minimum of 6 channels. This can then be increased, one channel at a time, up to 30 channels. It offers advanced facilities such as:

- DDI
- Call barring
- Sub-addressing

HOW TO ORDER

3 EASY STEPS TO GET ON THE 'DIGITAL SUPERHIGHWAY'

HERE'S HOW TO GET CONNECTED:

Step 1 - Call our ISDN specialists to help you choose which service option and Terminal Adapter is best for you

Step 2 - We will arrange for a BT engineer to install your ISDN line at a convenient time to you.

Step 3 - Connect your Terminal Adapter to your PC and switch on!

We can provide you with the complete solution, the Terminal Adapter and the ISDN line

All it takes is one simple phone call- We'll do the rest

Ring 0181 956 7777 to place your order



HAYES ULTRA ISDN SOLUTIONS



ISDN Internet Bundle available



From only £299

HAYES ULTRA-ISDN WITH INTERNET ACCESS

At last! A low cost ISDN terminal adapter packaged complete with Hayes Smartcom for Windows and everything that is needed to get onto the Internet including one month free ISDN access to the 'net. The ISDN Value Pack option contains all of the above plus Hayes ESP high performance serial port and serial cable to make sure that your PC can keep up with ISDN.

Hayes ULTRA-ISDN 64K Terminal Adapter outperforms most other single B channel adapters by transferring data at up to 76,800

bit/s without using data compression. Both V.120 and V.110 ISDN rate adaption protocols are supported.

HAYES ULTRA-ISDN 64K TERMINAL ADAPTER

£299

HAYES ISDN VALUE PACK

£349

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Catches the ROM!

FREE CD ROM

WITH EVERY TELEPHONE ORDER PLACED BEFORE 1.00PM
When ordering just ask for your **FREE CD ROM** as it is not shipped automatically

HURRY! STOCKS ARE VERY LIMITED

MEDIA MOMENTS

Famous media moments...

Operation Desert Storm

Any state occasion covered by the BBC

The Jarrow March



Save £££!
with ISDN

RACAL ISDN FEATURE

RACAL

Bring your business partners closer, faster with a comprehensive range of low cost plug and play ISDN solutions from Racal - Datacom



X.TOLL ISA

- Windows 95, NT, 3x(TA only)
- 128Kbps data throughput
- Plug and Play
- No memory Space
- Half size card for ISA and EISA
- Synchronous and Asynchronous PPP

X.TOLL ISA £250



X.TOLL PCMCIA ISDN

- PCMCIA type II
- Plug and Play
- 128Kbps data throughput
- Windows 95, NT, 3x(TA only)

X.TOLL PCMCIA ISDN £475

ISDN APPLICATIONS

- Internet access
- E-mail access
- On-line teleworking
- Remote network access
- Simultaneous analogue and data
- Video conferencing

EXTERNAL ISDN ADAPTORS

- Data & Analogue model
 - Data model
 - High Speed V24 port
 - Plug and Play
 - Sub-second connection time
 - Bundled with Transend software
 - Calling line identification
 - Multiple subscriber numbering
- DAP 6200 from £399



The Racal Datacom Solution

ISDN offers direct access to the core of the telephone network. Standard modems utilize older analogue technology with maximum speeds of 28.8Kbps. The Racal range of ISDN products utilize leading edge digital technology allowing you to directly access the digital telephone network which can operate at up to 64Kbps (more with compression). The net result is considerable cost savings.

	Typical 14.4Kbps modem	Typical 28.8Kbps modem	Racal DAP6300 ISDN
Speed	14.4Kbps	28.8Kbps	115.2Kbps
File Transfer	43 minutes	23 minutes	10 minutes
Call Charge	£3.53	£1.81	£0.80
Annual Call Charge	£1,771	£907	£401
Typical Annual Line Rental	£132	£132	£336
Total Annual Charges	£1,903	£1,039	£737
Annual Savings by using the Racal DAP6300	£1,166	£302	

THE COST SAVINGS

ISDN		Standard Phone Line (PSTN)	
ISDN 2 Line Installation	£400	Standard Line Installation	£99
ISDN 2 Line Rental	£84	Standard Line Rental	£34
Total	£484	Total	£123

Call charges (National daytime rate) £5 per hour

BREAK EVEN OVER 12 MONTHS

Example 1

Replace one PSTN with ISDN Installation	£400
Rental	£200
Total	£600

Call time to recover costs: 120 hours or 2.5 hours per week

Example 2

Replace 2 Standard lines with ISDN 2 (Using DAP6200 with 2 analogue lines and ISDN) Installation	£400
Rental	£64
Total	£464

Call time to recover costs: 93 hours or 1.5 hours per week

Order your ISDN line exclusively from Memorybank!

Credit cards are not debited until despatch
VAT at 17.5% will be added to all prices



DELIVERY CHARGES
See page 5

EARLY BIRD Order Bonus
See page 27



Everyone at Memory Bank passes through the Powermark Academy

BANK

at
Powermark

ZOOM MODEM FEATURE

ZOOM

Personal Computer World:
Editor's Choice
Award Dec '93 and
June '93

Windows User:
Best On Test,
February 94



ZOOM 14.4 MODEMS

- Remote configuration and callback security
- High speed 14,400 bps fax and data transmission with V.42bis and MNP 2-5

- Extended status reporting with 15 LED lights (14.4X only)
- 5 year warranty
- Buffered 16550 UART to prevent data overruns (14.41 only)

ZOOM MODEMS

Model	V32	V32bis	V34	MNP2-5	V42	V42bis	Fax	Internal	External
ZOOM144X	14.4X	●	●	●	●	●	●	POWERCUT!	£92
ZOOM144I	14.41	●	●	●	●	●	●	POWERCUT!	£84
ZOOM144X/MAC	14.4X MacPak	●	●	●	●	●	●	POWERCUT!	£105
ZOOM288X	28.8X	●	●	●	●	●	●	POWERCUT!	£159
ZOOM288I	28.81	●	●	●	●	●	●	POWERCUT!	£139
ZOOM288X/MAC	28.8X MacPak	●	●	●	●	●	●	POWERCUT!	£179

BT MODEM FEATURE



BT PROLOGUE V34EX DESKTOP MODEM

The new Prologue is a fully featured modem with a host of advanced features

- Digital display
- Remote access/configuration
- Password protected security
- Call back request
- Pass through phone socket
- V34, V42LAPM, MNP2-4, MNP10
- MNP5 V42bis data compression

Includes

Delrina WinFax and Full Internet software
Serial cable

BT PROLOGUE

DESKTOP V34 BTPRO/V34 £175

BT PROLOGUE PCMCIA MODEM

Offers laptop users the latest communications technology

- Built in line interface
- Remote access
- Password protected security
- Flash Eprom
- 16550 UART Buffer
- Call back request
- Internet access
- Auto-sleep powerdown
- Direct enabler software for easy installation on to laptops

BT PROLOGUE

PCMCIA V32bis BTPRO/14.4P £149

BT PROLOGUE

PCMCIA V34 BTPRO/V34P £229



BT PROLOGUE PCMCIA

All BT modems have a
5 year warranty



BT PROLOGUE DESKTOP V34

Computer
BUYER
RECOMMENDED

See
February Edition

All modems supplied
by Memory Bank are
BABT APPROVED

Technical Sales
Order Lines

0181-956 7000
(100 lines)

Educational Sales
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0181-956 7890

MODEMS

HUGE STOCKS

Guaranteed next working day delivery on virtually all stock items for orders placed even up to 4.00pm.

TECHNICAL SALES PEOPLE

Our sales people are the best. They are trained specialists in their chosen field - multimedia, memory of all types, mass storage, networking and communications.

FINANCIAL STABILITY

Memory Bank is the direct division of Powermark plc which has been supplying upgrades for over 5 years and has an annual turnover exceeding £18 million with a healthy balance sheet.

LOW, LOW PRICES

We only supply products from leading manufacturers and at low, low prices.

TECHNICAL SUPPORT

Dedicated after sales technical support teams on line to help with installation.

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We welcome orders from corporate, education and public sector organisations. Just fax or phone your order number.

FULL MANUFACTURERS' WARRANTIES

All products supplied by Memory Bank carry manufacturers' warranties and full Powermark plc guarantees.

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Save on delivery charges - there's plenty of parking too! Telephone first to check our stock position on the items you want. We're open from 9.00am to you want. Monday to Friday, Saturdays: 9.30am to 4.00pm, Sundays: 10.00am to 2.00pm.

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HMSO

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Certificate no. FS 2095

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Order Lines**
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956 7890**

VISA



Gold Card



CABLES

2 metre
9F to 25M £8
2 metre
25F to 25F £8

Call for modem/serial cables and adapters not listed here.



SMALL ITEMS

Examples: memory, sound/video cards, CD ROM titles, small software packages

UP TO 3 ITEMS
£6.95 total

4 ITEMS OR MORE
£1.95 for each additional item

LARGE ITEMS

Examples: CD ROM drives, multimedia kits, software suites

1ST ITEM
£8.95

EACH ADDITIONAL ITEM
£4.95

VERY LARGE ITEMS

&Call

Call for rates outside
UK mainland

HAYES MODEM FEATURE



ACCURA 288 V.34 + FAX

OPTIMA + FAX

Offers outstanding performance with the ability to compress data twice as much as other fax modems.

NEW! VOICE RANGE

- 8:1 data compression
- Asynchronous/synchronous
- Ideal for communicating with networked systems
- Built in security with caller ID and password encryption
- Access voice mail remotely

ACCURA + FAX

Low cost fax modems with all of the quality and ease-of-use that comes with the Hayes name.

INTERNET VERSION

- Full Internet connection software

VOICE VERSION

- Voice compatible Accura modem with:
- Full voice messaging
- Remote accessing
- Fax on demand

HAYES MODEMS

The industry standard

Windows 95 compatible

Model	V.32bis	V.32terbo	V.34	MNP2-4	V.42	V.42bis	MNP5	Fax	Internal	External
HAAC14+	●	●	●	●	●	●	●	●	-	£99
HAAC28+	●	●	●	●	●	●	●	●	-	£195
HAAC28/V	●	●	●	●	●	●	●	●	-	£195
HAOP14/V	●	●	●	●	●	●	●	●	-	£272
HAOP28/V	●	●	●	●	●	●	●	●	-	£365
HAOP14/F	●	●	●	●	●	●	●	●	-	£245
HAOPPCN34	●	●	●	●	●	●	●	●	-	£198
HAOP28	●	●	●	●	●	●	●	●	-	£369
HAOP28/DUAL	●	●	●	●	●	●	●	●	-	£669
2 pack with free accelerator cards and upgrade to V.34										
HAULT14	●	●	●	●	●	●	●	●	POWERCUT!	£419
HAULT5DN										£599
HAOPESP										ESP high speed serial card, 1 port £59, 2 port £89



OPTIMA 144 + FAX

MULTITECH MODEM FEATURE



MULTITECH MODEMS

Windows 95 compatible

Model	V.32bis	V.32terbo	V.34	MNP2-4	V.42	V.42bis	MNP5	Fax	Simultaneous voice & data	External
MULTI28	●	●	●	●	●	●	●	●		£329
MULTI19	●	●	●	●	●	●	●	●	POWERCUT!	£105
MULTI/PCN	●	●	●	●	●	●	●	●		£157
MULTI/PCN34	●	●	●	●	●	●	●	●		£209
MULTI14P	●	●	●	●	●	●	●	●	POWERCUT!	£299
MULTI14	●	●	●	●	●	●	●	●	POWERCUT!	£271
MULTI28Z	●	●	●	●	●	●	●	●	POWERCUT!	£155
MULTI28PCSI	●	●	●	●	●	●	●	●	POWERCUT!	£435



MULTIMODEM II MT2834 PCSI



MULTIMODEM II MT2834 ZDX

MULTIMODEM II ZDX SERIES

- Desktop unit
- Group 3/Class 2 (TR29) fax
- V.17 fax compatible
- PSTN only
- V.42 (lap-M) error correction
- V.42bis data compression
- MNP to Level 5
- Asynchronous operation
- AT command set (Hayes compatible)
- Free Multiexpress fax and comms software for windows
- 10 year warranty
- Available in 28.8bps (V34) and 14.4bps (V32bis)

MULTIMODEM II SERIES

- Desktop unit/metal enclosure
- Group 3/Class 2 (TR29) fax
- PSTN and 2W/4W leased line
- Leased line dial-backup with auto-restoral
- Security call-back (30 no.)
- V.42 (lap-M) error correction
- V.42bis data compression
- MNP to Level 5
- V25bis async/sync
- Free Multiexpress fax and comms software
- 5 year warranty
- Available in 28.8bps (V34) and 14.4bps (V32bis)

Comms experts available for specialist advice

Credit cards are not debited until despatch
VAT at 17.5% will be added to all prices

DELIVERY CHARGES
See page 5

EARLY BIRD Order Bonus
See page 27



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U.S. ROBOTICS MODEM FEATURE

USRobotics®

The Intelligent Choice in Data Communications



SPORTSTER XJACK

NEW! SPORTSTER 28.8 XJACK PCMCIA

- Internal DDA
- Direct connection to telephone lead
- Automatic powerdown
- Ideal for notebook PCs
- Free Internet software



SPORTSTER 28,800 + FAX

SPORTSTER 28,800 + FAX

The world's best selling modem just got better. With speeds of up to 28,800bps, the Sportster 28,800 + Fax offers proven high performance technology, at an unbeatable price.



FREE with every Sportster 28.8

- 30 days free trial with PIPEX DIAL TRIAL
- After 30 days, subscribe to PIPEX DIAL - the full version of PIPEX Internet for only £50 which includes a further 2 months free access to the Internet (normally £30)
- One month's free trial with COMPUSERVE
- Free access to the ACC call service. Save up to 25% on BT basic rates for national and international calls
- QuickLink II fax and data software
- Modem 9-25 pin serial cable and 9-25 pin serial converter for external Sportster
- Telephone cable



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0181-956 7000
(100 lines)

Educational Sales Order Lines
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MODEMS

U.S. ROBOTICS MODEMS

Model	V32bis	V32terbo	V34	MNP2-4	V42	V42bis	MNP5	HST Cellular	Fax	Internal	External
USRSPI4/Vi	•	•	•	•	•	•	•	•	•		£95
USRSIP28	•	•	•	•	•	•	•	•	•	POWERCUT!	£159
USRSIP28E/MAC	•	•	•	•	•	•	•	•	•	POWERCUT!	£159
USRCDFV1	•	•	•	•	•	•	•	•	•		£239
USRCDFV	•	•	•	•	•	•	•	•	•	POWERCUT!	£238
USRW/4	•	•	•	•	•	•	•	•	•	POWERCUT!	£126
USRXJACK/P	•	•	•	•	•	•	•	•	•	NEW!	£179
USRSERIAL/2	PowerPort High Speed Dual Async Serial Card. Recommended for terbo and V34 modems to prevent bottleneck of data										£49



SPORTSTER VI 14.4 + VOICE

NEW! SPORTSTER Vi 14.4 + VOICE

Desktop 14.4Kbps modem with personal voice mail. Offers fax on demand. Access the Internet via PipeX Dial trial. Cables included.

MOTOROLA MODEM FEATURE



MOTOROLA MODEMS

Model	V32bis	V32terbo	V34	MNP2-4	V42	V42bis	MNP5	Fax	Voice*	External
MOTO34/ON	•	•	•	•	•	•	•	•	•	£165
MOTO34/MAC	•	•	•	•	•	•	•	•	•	POWERCUT! £175
MOTO34	•	•	•	•	•	•	•	•	•	POWERCUT! £155

Windows 95 compatible

3400 ONLINE & PRO MODEMS

- Motorola RISC Technology
- Twice the speed of V.32bis 14.4bps technology
- Automatically selects the fastest possible line speed
- Robust performance over standard telephone lines
- Data error correction and data compression
- Fax error correction
- Phone number directory

- Speed 28,800 bps the fastest standard available
- True V.34 worldwide compatibility
- Complete with all necessary cabling
- Includes popular fax and communications software
- Comprehensive user manual included
- Telephone support helpline

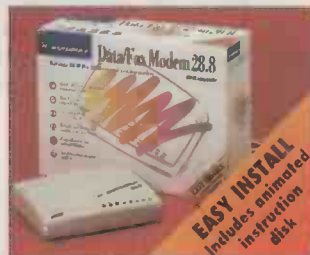
Easy install - includes animated instruction disk



EASY INSTALL Includes animated instruction disk

Motorola 3400 Online 28.8 bps Internet Solution comes complete with all hardware and software that you need to get your PC online to the Internet!

- Internet software
- Protocol software
- File transfer software
- WorldWide Web browser software
- Electronic mail software
- Newsgroup software
- Interactive online game
- Internet phone software licence



EASY INSTALL Includes animated instruction disk

Comms experts available for specialist advice

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Guaranteed next working day delivery virtually all stock items for orders placed even up to 4.00pm.

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We only supply products from leading manufacturers and at low, low prices.

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Dedicated after sales technical support teams on line to help with installation.

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Certificate no. FS 20955

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MEMORY

Windows 95 compatible

POWERMARK MODEM FEATURE



powermark
Modems

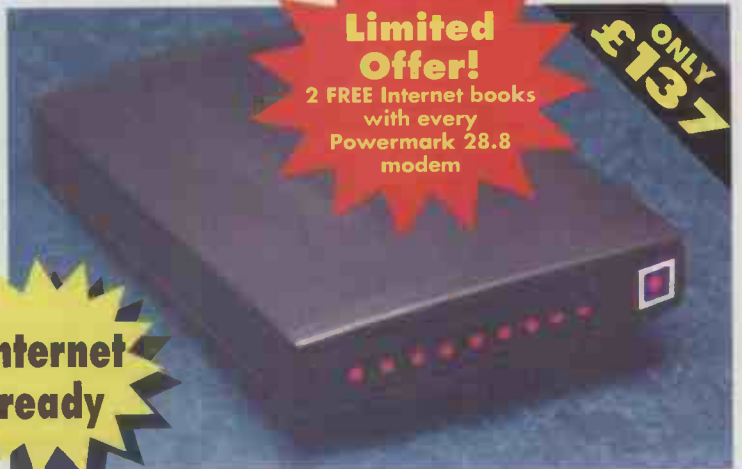
Top quality, fully featured, Internet ready, BABT approved modems brought to you at unbeatable prices from Memory Bank.

All modems feature Auto-Dial and Auto-Answer to ensure ease of use. Error correction and Data compression offer enhanced reliability and improved throughput of data giving you complete piece of mind whilst saving you money.

Internet ready

Limited Offer!
2 FREE Internet books with every Powermark 28.8 modem

ONLY **£137**



MBM288 External

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(100 lines)

Educational Sales Order Lines
0181-956 7890



Novell Authorised Reseller

NOVELL NETWORK 4.1

NetWare 4.1 has all the advantages of previous versions of NetWare, plus gives you new capabilities designed to increase productivity, reduce costs, and simplify installing and maintaining your network.

- Additive licensing - 25 user + 10 user = 35 user licence
- NDS - NetWare Directory Services
- Single network log in for access to all resources
- Improved memory management and protection using both ring 3 and 0
- Enhanced security utilising RSA public/private key cryptography
- Remote management features

NOVELL NETWORK 4.1 CD

5 USER	£439
10 USER	£1029
25 USER	£1529
50 USER	£1997
100 USER	£3279
250 USER	£Call

NOVELL NETWORK 3.12

5 USER	£425
10 USER	£1009
25 USER	£1479
50 USER	£1969
250 USER	£Call

Call for CD ROM pricing

PERSONAL NETWORK

- Share all your printers, drives (CD ROMs etc), directories and files
- PERSONAL NETWORK £44**
5 PACK £189

All Powermark modems come complete with:

- 10 year warranty
- Delrina Dosfax Lite
- Winfax Lite (upgradable to Winfax Pro for Windows 95)
- Comit Lite for Windows
- Comprehensive user manual
- Free introductory subscription to Compuserve - your gateway to the Internet
- Telephone cable
- Serial cable and AC adapter (with external models)



MBM144 External

ONLY **£83**



MBM288 Internal

POWERMARK MODEMS

Model	V32bis	V34	MNP2-5	V42	V42bis	Fax	Internal	External
MBM00144	●	●	●	●	●	●	£69	£79
MBM00288	●	●	●	●	●	●	£129	£137

HSSC10 - 2 Port High Speed Serial Card

- Dual 16550 UART serial connection
- Enables shorter communication times and therefore reduces costs
- Save £8 when purchased with any modem

£27

All Powermark modems are BABT APPROVED

PSION MODEM FEATURE



PSION DACOM MODEMS

Model	V32bis	V.F.C.	V34	MNP2-4	MNP10	V42	V42bis	MNPS	FAX	PC Card
PSIONPG32	●	●	●	●	●	●	●	●	●	POWERCUT! £157
PSIONPG34	●	●	●	●	●	●	●	●	●	£195
PSIONMET14	●	●	●	●	●	●	●	●	●	£175
PSIONMET28	●	●	●	●	●	●	●	●	●	£225

Windows 95 compatible

All modems supplied by Memory Bank are BABT APPROVED

Comms experts available for specialist advice

GOLD DRIVE PC Card DRIVER



- Internal device reads any PC Card
 - Fits into any 3.5" drive bay
 - Front loading
 - Reads Type I, II and III cards
 - Easy to use
 - Easy to install
 - 5MB/sec data transfer rate
- GOLD DRIVE PC Card DRIVER POWERCUT! £99**

31

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4 8 8

DELIVERY CHARGES
See page 5

EARLY BIRD Order Bonus
See page 27



POWERMARK ACADEMY

Everyone at Memory Bank passes through the Powermark Academy

3COM FEATURE

3Com®

Compatible with commonly used operating systems, including Novell Netware, Microsoft LAN Manager, DECnet, DOS, PC-NFS, Banyan Vines and 3+Open.

3C503 RANGE
Standard 8-bit or selectable 16-bit card. Shared memory architecture and 8K buffer.

3C529 RANGE
MCA Etherlink III Cards.

3C509 RANGE
16-bit high performance, low component cards.

3C579 RANGE
32-bit EISA interface using Parallel Tasking Architecture. The adapter uses the same drivers as the EtherLink III and is SNMP manageable when used with Linkwatch.



CALL FOR 20 PACK PRICES

3C509 RANGE

	BNC	RJ45	AUI	Unit	5 Pack
3C509	●		●	£65	£319
3C509TP		●		£65	£319
3C509C	●	●	●	£77	£335

3C529 RANGE

• MCA Etherlink III cards

	BNC	RJ45	AUI	Unit	5 Pack
3C529	●		●	£149	£689
3C529TP		●	●	£149	£689
3C529C	●	●	●	£139	£699

3C579 RANGE

• 32-bit EISA interface using Parallel Tasking Architecture

	BNC	RJ45	AUI	Unit	5 Pack
3C579	●		●	£149	£699
3C579TP		●	●	£149	£699

3C589 RANGE

• PCMCIA cards

	BNC	RJ45	AUI	Unit	5 Pack
3C589T POWERCUT!		●		£109	£490
3C589C POWERCUT!	●	●		£139	£634

TOKEN RING PCMCIA

• AutoLink software
• LEDs for installation and trouble shooting

	Unit	5 Pack
3C689 TokenLink III 16/4	£299	£1399

3C590 RANGE

• PCI Bus Master adapters using parallel tasking architecture

	BNC	RJ45	AUI	Unit	5 Pack
3C590TP		●		£97	£419
3C590C	●	●		£106	£478

XIRCOM FEATURE

Xircom

CREDIT CARD TOKEN RING ADAPTER IIps

- High-performance, memory-saving SmartRing software
- 16 or 4 Mbps software selectable ring speed

PS-CT2-16CTP (TP) XIRPCM/TR

£299

CREDIT CARD ETHERNET+ MODEM II

Simultaneous Ethernet/803.2 LAN plus 19,200 bps data and 14,400 bps send/receive fax modem operation In one slot

CEM2-10BT

(TP) XIRPCM/1FM

£269

CEM2-10B2

(BNC) XIRPCM/B FM £279

CEM2-10BC

(COMBO) XIRPCM/C FM £299

PCMCIA ETHERNET

BNC XIRPCM/B £125

TP XIRPCM/T £109

COMBO XIRPCM/C £145



PS-CT2-16CTP (TP)



POCKET ETHERNET ADAPTER III

- Universal connection for all notebook, laptop and desktop PCs
- Enhanced Parallel Port (EPP) capable
- Requires no internal slots

XIRCOM

MULTIPLEXER XIRMULTI £89

New range of Infrared / wireless cards available
Call for details

Networking experts available for specialist advice

PE3-10B2 (BNC) XIRPE £185

PE3-10BT (TP) XIRPE/TR £185

PE3-10BC (COMBO) XIRPE £202

HMSO

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Certificate No. 1500535

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Save on delivery charges - there's plenty of parking too! Telephone first to check our stock position on the items you want. We're open from 9.00am to 6.00pm Monday to Friday. Saturdays: Sales from 9.30am to 4.00pm, Technical Support and Customer Service from 10.00am to 2.00pm.

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Email edsales@powermark.com

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Fax 0181-956 7477

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MEMORY

**Technical Sales
Order Lines**
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(100 lines)

**Educational Sales
Order Lines**
**0181-
956 7890**



“... and here's what some of our customers have said ...

I would like to thank Alex Marinos for being an excellent representative to your company.

When a hard disk that I purchased from your company developed a problem Mr Marinos was never less than courteous, always helpful and above all, effective.

D Herbert
London

MOVIE MEMORIES

Another chance to read...

In The On-line Of Fire

The Great Escape Key

Scanners



POWERMARK COMBO NETWORK ADAPTER FEATURE



powermark

Networking

MBNET PCMCIA

- Credit card sized PCMCIA Ethernet card
 - Use of EPA Energy Star components
 - Uses NE2000 drivers
 - Conforms to IEEE 802.3 and fits into Type I, II and III PCMCIA slots
 - BNC/UTP auto-detection
 - Supports NetWare, LAN Manager, Windows for Workgroups and Packet Driver for TCP/IP
 - Two LED indicators
- MBNETPCMCIA** £83



It runs with NetWare



Network experts available for specialist advice

MBNET32PCI PLUG AND PLAY

- Ideal for high-performance system application
 - AUI, BNC and RJ45
 - Complies to PCI local bus specification
 - Supports Windows 95 Plug & Play function
 - High performance Bus Master architecture with DMA Buffer Management Unit
 - Low power consumption
 - Comprehensive software drivers for most popular networking systems including Novell NetWare, Microsoft LAN Manager, Windows for Workgroups, Windows NT, SCO UNIX,
 - Auto BNC and RJ45 detection
- MBNET32PCI** £65



MBNET32PCI

MBNET2000C

- 35% faster than Novell NE2000
 - Fully NE2000 compatible
 - Jumperless or jumper configuration
 - Automatic configuration
 - Auto detection for media
 - Auto detection for ISA bus
 - Supports 8 IRQs and 8 I/Os
 - Smart boot ROM support
 - 16K on-board buffer
- MBNET2000C** £26

MBNET2000C/P PLUG AND PLAY

- Improved performance by full-duplex capability (20Mbps) with full downward compatibility
- Green Ethernet Chipset
- Includes McAfee anti-virus
- Full duplex design doubles the performance of standard NE2000 cards
- Plug and Play, auto-setup IRQ and I/O
- Jumper or software configuration



- Auto-detection for media
 - Auto-detection for ISA bus
 - Supports 8 IRQs and 8 I/Os
 - Diagnostic program
 - Smart remote boot ROM
 - Uses NE2000 drivers - needs no additional drivers
- MBNET2000C/P** £35

NEW! MBNETHUB/8 HUB

- 8 port hub
 - RJ45
- MBNETHUB/8** £69

APC FEATURE



AMERICAN POWER CONVERSION is the Industry leader in the manufacture of uninterruptible power supplies



BACK-UPS PRO PLUG & PLAY

(UPS). The range of UPS has been designed with the personal user and the business user in mind from single PC connection to networks with Powerchute (shutdown and diagnostic software) built in.

SMART UPS RANGE

UPS-APCS4	450VA	£229
UPS-APCS10	1000VA	£389
UPS-APCS22	2200VA	£835

BACK UPS

UPS-APCB2	250VA	£79
UPS-APCB4	400VA	£106
UPS-APCB6	600VA	£145

BACK UPS PROS

UPS-APCB/PRO2	280VA	£90
UPS-APCB/PRO4	420VA	£145
UPS-APCB/PRO6	650VA	£199
UPS-APCB/PRO12	1250VA	£329
UPS-APCB/PRO14	1400VA	£429



SMART-UPS 1400 VA AND 700 VA

BACK UP PROS WITH PLUG & PLAY POWERCHUTE

UPS-APCB/PRO2+	280VA	£109
UPS-APCB/PRO4+	420VA	£159
UPS-APCB/PRO6+	650VA	£209

POWERCHUTE SOFTWARE

For Netware	UPS-PCHUTE	£49
For Unix	UPS-PCHUTE/UN	£69
For Windows NT	UPS-PCHUTE/NT	£49
For OS/2	UPS-PCHUTE/OS	£59



POWERMANAGER

Credit cards are not debited until despatch VAT at 17.5% will be added to all prices

DELIVERY CHARGES
See page 5

EARLY BIRD
Order Bonus
See page 27



POWERMARK ACADEMY

Everyone at Memory Bank passes through the Powermark Academy

BANK

at Powermark

ARTISOFT FEATURE



LANTASTIC POWER SUITE NETWORK STARTER KIT

The easy-to-use LANtastic network integrated with Lotus cc:Mail e-mail, Lotus Organiser group scheduling and personal calendar, Cheyenne fax, data-comms and modem sharing software. Plus introductory Compuserve membership.

ARTISOFT®

- LANTASTIC POWERSUITE 2 NODE NETWORK STARTER KIT £199
- LANTASTIC ADD ON ONE NODE KIT £108
- POWERSUITE SOFTWARE ONLY
 - 1 USER £90
 - 5 USER £249
- LANTASTIC 2 NODE NETWORK STARTER KIT (without Powersuite) £189
- LANTASTIC ADD-ON - 1 NODE KIT £99
- LANTASTIC OPERATING SYSTEM
 - 1 USER £66
 - 5 USER £299
 - 10 USER £429
- LANTASTIC UTILITY PACK £249
- ARTICOM £69
- ARTISAVE £132

SMC NETWORKING FEATURE



ETHEREZ ADAPTERS

	Single	5 Pack
EtherEZ Adapter BNC	POWERCUT! £59	£279
TP	POWERCUT! £59	£259
Combo	POWERCUT! £66	£299

SMC ETHERCARD ELITE ULTRA

	Single	6 Pack
Elite 16 Ultra BNC	£58	£339
Elite 16 Ultra TP	£58	£339
Elite 16 Ultra Combo	£68	£386

SMC ETHERCARD ELITE 32C ULTRA

	Single	6 Pack
Elite 32C Ultra Combo	£141	£769

SMC ETHERPOWER PCI

	Single	5 Pack
EtherPower PCI TP	POWERCUT! £89	£415
EtherPower PCI Combo	£101	£499

SMC ELITECARD PCMCIA

	Single	5 Pack
EliteCard PCMCIA TP	£85	£399
EliteCard Combo	£114	£553

TIGER HUBS

	Number of Ports				
	TP	BNC	AUI	FL	
CX3	0	3	1	0	£209
TP6	6	0	1	0	£124
TP6B	6	1	0	0	£125
TP12	12	1	1	0	£249
CX6	1	6	1	0	£435
FL6	0	1	1	6	£Call

Networking experts available for specialist advice

KYOCERA PRINTER FEATURE

KYOCERA FS-400

In our opinion, the best compact printer available

A compact 4 pages per minute, low cost personal page printer that also offers full system printer capabilities and savings on print costs due to its cartridge-free design.

The FS-400 has a wealth of features, including 300 dpi resolution, enhanced to 300 x 1200 dpi by Kyocera resolution technology, 13 scalable in-built fonts, and for addition cost savings, Energy Star compliance and draft print mode.

Other features include industry standard LaserJet III and optional PostScript emulations and full compatibility with Windows applications.

KYOCERA FS-400	KY0FS400	POWERCUT!	£358
NETWORK-SPECIFIC ETHERNET INTERFACE	KY0FS400/N		£169
TONER KIT	KY01S400/TONER		£16
3 YEAR ECOSHIELD ON-SITE WARRANTY	KY0WARR/FS400		£99



KYOCERA FS-400

KYOCERA FS-1550

The FS-1550 10 pages per minute printer offers substantial savings on running costs compared with competitive printers - where the ongoing cost of consumables can amount to far more than the purchase price.

It is ideal for word processing, database and spreadsheet printing, and with resolution enhancement, graphics. As your requirements grow, ECOSYS paper handling options include extra paper trays, a duplex unit and a sorter/collator.

Other features include industry-standard LaserJet III and optional PostScript emulations, sophisticated networking and IBM connectivity options, and full compatibility with Windows applications.

KYOCERA FS-1550	KY0FS1550		£889
NETWORK-SPECIFIC ETHERNET INTERFACE	KY0FS1550/N		£279
TONER KIT	KY0FS1550/TONER		£51
3 YEAR ECOSHIELD ON-SITE WARRANTY	KY0WARR/FS1550		£199

Also available -

KYOCERA FS1600	KY0FS1600		£1079
KYOCERA FS3600	KY0FS3600DX		£1789



KYOCERA FS-1550



KYOCERA FS-1550 WITH ACCESSORIES



Printing costs. Stop paying the price.

Technical Sales Order Lines

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Educational Sales Order Lines
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NETWORKING, PRINTERS & UPS

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guaranteed next working day delivery on virtually all stock items for orders placed even up to 4.00pm.

TECHNICAL SALES PEOPLE
Our sales people are the best. They are trained specialists in their chosen field - multimedia, memory of all types, mass storage, networking and communications.

FINANCIAL STABILITY
Memory Bank is the direct division of Powermark plc which has been supplying upgrades for over 5 years and has an annual turnover exceeding £18 million with a healthy balance sheet.

LOW, LOW PRICES
We only supply products from leading manufacturers and at low, low prices.

TECHNICAL SUPPORT
Dedicated after sales technical support teams on line to help with installation.

CORPORATE & PUBLIC SECTOR
We welcome orders from corporate, education and public sector organisations. Just fax or phone your order number.

FULL MANUFACTURERS' WARRANTIES
All products supplied by Memory Bank carry manufacturers' warranties and full Powermark plc guarantees.

PERSONAL CALLERS VERY WELCOME
Save on delivery charges there's plenty of parking too! Telephone first to check our stock position on the items you want. We're open from 9.00am to 6.00pm Monday to Friday. Saturdays: Sales from 9.30am to 4.00pm. Technical Support and Customer Service from 10.00am to 2.00pm.

Memory Bank

The Powermark Centre, The Waterfront, Elstree Road, Elstree, Hertfordshire WD6 3RP

Technical Sales
Fax 0181-956 7100
Email membank@powermark.com

Educational Sales
Fax 0181-956 7744
Email edsales@powermark.com

Customer Service
Tel 0181-956 7700
Fax 0181-956 7477

After Sales Technical Support
Tel 0181-956 7711
Fax 0181-956 7478



Public Sector customers can purchase through HMSO by calling 01603 694153.



Certificate no. FS 26535

ISO9002 (Formerly BS5750) registered for the supply of computer, printer and workstation memory, processor and other upgrades.

Powermark plc is regularly assessed by the British Standards Institution to ensure compliance with the quality standard.

MEMORY

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**Educational Sales
Order Lines**
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956 7890**



PC Guardian

SECURITY PRODUCTS

NOTEBOOK GUARDIAN KIT

Fixes into 3.5" floppy drive with security cable.
**NOTEBOOK GUARDIAN
KIT** PCG7350+ £34.95
10 PACK PCG7350+/10 £310

UNIVERSAL ANTI-THEFT KIT

Secures all PCs, monitors, keyboards and drives.
**UNIVERSAL ANTI-THEFT
KIT** PCGU136 £25.95
10 PACK PCGU136/10 £210

ENCRYPTION PLUS SOFTWARE

Protects data
**PC GUARDIAN
ENCRYPTION PLUS
SOFTWARE** PCGENC+ £45

NOTEBOOK FLOPPY LOCK

Prevents copying of data
**NOTEBOOK FLOPPY
LOCK** PCG7350 £14.95
10 PACK PCG7350/10 £120



**FREE
Baseball Cap
worth £4.95**
With every order
over £500
When ordering just ask for
your FREE baseball cap as it
is not shipped automatically.

UMAX SCANNERS FEATURE

UMAX FLATBED SCANNERS

All Umax flatbed scanners come with 12 months on-site warranty
VISTA T630 UMAX/T630 £295
• 300 x 600 dpi up to 4800 dpi interpolated
• A4 scan area
• 16.7 million colours
• Adobe Photoshop LE V.3



NEW! VISTA S12 UMAX/S12 £499

• 400 x 800dpi up to 6400 dpi interpolated
• A4 scan area
• 16.7 million colours
• Adobe Photoshop LE V.3
UC1260 UMAX/U1260 £625
• 600 x 1200 dpi up to 2400 dpi interpolated
• A4 scan area
• 16.7 million colours
With LE Adobe Photoshop V.3

POWERLOOK II UMAX/POWERLOOKII £2299

• 600 x 1200 dpi up to 9600 dpi interpolated
• 36-bit
• Enhanced calibration
• Full Adobe Photoshop V.3

DOCUMENT FEEDER UMAX/SDF £399

OMNIPAGE DIRECT OMNIPAGE/DIR £39

TRANSPARENCY ADAPTER UMAXTRANS £399

UMAX FLATBED SCANNERS

MIRAGE A3 UMAX/MIRAGE £5999

• 9600 dpi

• 800 x 1600 dpi

GEMINI UMAX/GEM £799

PAGEOFFICE

PageOffice is the way to bridge the gap between piles of paper accumulating on your desk and PC.



- 300 dpi optical resolution
- 8-bit 256 shades of grey
- 5-10 sheet built-in document feeder
- 16-bit ISA SCSI interface included
- Fully TWAIN compatible

PAGEOFFICE UMAX/PAGE £239



HP SCANNERS FEATURE

NEW FROM HP HP SCANJET 4Si

• Mono 400 dpi enhanced to 1200 dpi
• Up to 12 pages per minute
• Includes award winning Visioneer Paperport V3.0 and Autolaunch software



HP SCANJET 4Si HPS4Si £602

AUTOMATIC DOCUMENT FEEDER HPS4Si/ADF £139

3 YEAR ON-SITE MAINTENANCE £85

HP SCANJET 4S HPS4S £230

• A4 mono



HP SCANJET 4c

- 600 dpi enhanced to 2400 dpi
- 30-bit colour gives you 1 billion colours
- Up to 18 pages per minute



NEW! Caere Omnipage Limited Edition and Visioneer Paperport V3.0 software included

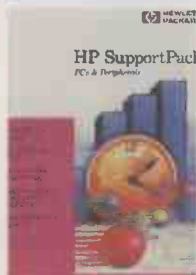
HP SCANJET 4C HPS4C £619

AUTOMATIC DOCUMENT FEEDER HPS4C/ADF £315

TRANSPARENCY UNIT HPS4C/TRANS £449

Scanner experts available for specialist advice

HP SupportPack



• Onsite warranty by HP engineers
• Recommended for all HP Laserjets & Deskjets

PRINTER ACCESSORIES

ORIGINAL TONER CARTRIDGES

HEWLETT-PACKARD

LaserJet II/IIID/III/IIID £47

LaserJet II IIP/IIIP+/IIIP £46

LaserJet IIISi/4Si/4MX £77

LaserJet 4/4+/4M/4M+ £67

LaserJet 4L/4ML/4P/4MP £44

LaserJet 4V/4MV £115

LaserJet 5 Series &Call

DESKJET CARTRIDGES

HP DESKJET BLACK CARTRIDGE £18

HP DESKJET COLOUR CARTRIDGE £21

PRINTER CABLES

PARALLEL 1.5m 3m

25M - 25M £4 £8

25M - 36M £4 £9

25M - 36M £6 £8

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VAT at 17.5% will be added to all prices

DELIVERY CHARGES
See page 5

EARLY BIRD Order Bonus
See page 27



Everyone at Memory Bank passes through the PowerMark Academy

HP PRINTER FEATURE



HEWLETT
PACKARD

Authorised Reseller
Personal Computer
Products

NEW

HP OFFICEJET LX

The complete office solution

- High quality printer
- Integrated fax
- Photocopier
- Scanner

HP OFFICEJET LX HPOFFICELX £479



HP OFFICEJET LX

HP DESKJET 340

- 600 x 600 dpi in black
- Up to 3 pages per minute in black
- 13 scalable Windows fonts

HP DESKJET 340

WITH CUT SHEET

FEEDER HPDJ340 £175

COLOUR KIT

UPGRADE HPDJ340COLUG £32

3 YEAR ON-SITE

WARRANTY HPWARR/DJ340 £45



HP DESKJET 1600C

HP DESKJET 850C

- 600 x 600 dpi in black
- Up to 6 pages per minute in black
- 45 TrueType fonts

HP DESKJET 850C HPDJ850C £339

HP DESKJET 1200C

- 600 x 300 dpi
- Up to 6 pages per minute in black

HP DESKJET

1200C HPDJ1200C £635

HP DESKJET

1200C/PS HPDJ1200/PC £1029

HP DESKJET 600

- 600 x 600 dpi, REt
- Colour option
- High resolution in black

HP DJ600 HPDJ600 £191

HP DESKJET 660C

- 600 x 600 dpi in black
- 14 TrueType fonts

HP DESKJET

660C HPDJ660C £250

HP DESKJET 1600C

- 600 x 600 dpi in black
- 4MB RAM

HP DESKJET

1600C HPDJ1600C £839

HP LASERJET 4V

- A3 paper handling
- 8 pages per minute in A3, 12 in A4
- Delivery: £27 on this printer

HP LASERJET

4V HPLJ4V £1409

HP LASERJET

4MV HPLJ4MV £2039

HP LASERJET

4V 500 SHEET TRAY

SYSTEM HPLJ4V/SHEET £279

3 YEAR ON-SITE

WARRANTY HPWARR/LJ4V £205



HP DESKJET 660C

HP LASERJET 5P

- 6 pages per minute
- 600 dpi, REt, microfine toner
- 2MB RAM, up to 50MB

HP LASERJET 5P HPLJ5/P £597

HP LASERJET

5MP HPLJ5/MP £729



HP LASERJET 5P

HP LASERJET 5L

- 4 pages per minute
- 600 x 600 dpi in black
- 1MB RAM
- New innovative style case

HP LASERJET 5L HPLJ5L £355

Printer experts available for specialist advice

HP LASERJET 4 PLUS

- 12 pages per minute
- Up to 600 dpi
- 2MB RAM

HP LASERJET

4 PLUS HPLJ4PLUS £975

HP LASERJET

4M PLUS HPLJ4M/P £1299

HP DUPLEX

UNIT HPLJ4PLUS/DUP £479

3 YEAR ON-SITE

WARRANTY HPWARR/LJ4V £165

HP COLOR LASERJET

- Up to 10 pages per minute in black
- Up to 2 pages per minute in colour
- 300 dpi
- 1 year on-site warranty
- Delivery: £27 on this printer

HP COLOR

LASERJET HPLSR/COL £4338

250 SHEET REAR

FEED UNIT HP250SHEET £315



HP COLOR LASERJET

HP LASERJET 5Si

- 24 pages per minute
- 600 dpi
- 4MB RAM
- 1 year on site warranty

HP LASERJET

5Si HPLJ5Si £2115

HP LASERJET

5SiM HPLJ5SiM £3036

• 12MB RAM

Matched Memory Kits for HP Printers on page 7

HP SupportPack

- Onsite warranty by HP engineers
- Recommended for all HP Laserjets & Deskjets



Technical Sales
Order Lines

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SCANNERS
& PRINTERS

Another Case For The Backroom Boys To Investigate



Dear Backroom Boys, I have a puzzle that I just cannot unfold. I have seen near perfect video on a computer, but as yet I have been unable to reproduce such crisp images on my PC. Even now with a particularly high end Pentium system the picture is jumpy and of poor quality.

Mystified in Manchester

Dear Mystified, We have snooped high and low and agree with you that video can be shown on a standard computer. Our roaming detectives have investigated and what you need is an MPEG card. This will enable you to play entire films or even pop tracks with video, as long as you have a sound card and CD ROM drive. There are many video cards on the market available to purchase through Powermark's Technical Sales department so call today for detailed advice.

Yours, The Backroom Boys

PS, We've uncovered the GrafixStar range from VideoLogic - they're more than just graphic cards!

Send your investigations to The Backroom Boys, c/o Memory Bank, The Powermark Centre, The Waterfront, Elstree Road, Elstree, Herts WD6 3RP or fax them on 0181 956 7100. You can also Email The Backroom Boys on: bboys@powermark.com. The Backroom Boys makes every effort to investigate your problems, but they cannot guarantee to reply to everyone.

Memory Bank

The Powermark Centre,
The Waterfront, Elstree Road,
Elstree, Hertfordshire WD6 3RP

Technical Sales
Fax 0181-956 7100

Email membank@powermark.com

Educational Sales
Fax 0181-956 7744

Email edsales@powermark.com

HMSO

Public Sector customers can purchase through HMSO by calling 01603 694153.



Certificate no. PS 26535

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Powermark plc is regularly assessed by the British Standards Institution to ensure compliance with the quality standard.

MEMORY

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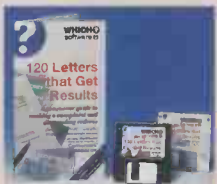
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Order Lines**
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WHICH? SOFTWARE FEATURE

WHICH? software

Ever been frustrated by a garage over-charging? A shop selling faulty goods? A misleading holiday brochure? Inexplicable debits from your bank account? Noisy neighbours?



For these and many other kinds of problems '120 Letters that Get Results' contains a carefully worded letter template - written by Which? lawyers - for you to adapt. A full WP package is included as is text from the Which? Book 350 Legal Problems Solved in an easily accessible question and answer format. All letters can be exported to your own WP application. Just insert your details, print and post your professionally written letter and see the difference it makes to the results you obtain.

120 LETTERS THAT GET RESULTS £24

NEW!

COREL SOFTWARE FEATURE

COREL DRAW 6 IS HERE!

Windows 95 version

Corel Draw 6 utilises 32-bit processing to give you awesome speed, power and accuracy. It offers the ideal solution for multimedia and animation presentations with

- Corel PHOTO-PAINT 6
- Corel DREAM
- Corel MOTION 3D 6
- Corel PRESENTS 6

These offer you access to

- 25,000 clipart images and symbols
- 1,000 photos
- 1,000 True Type and Type 1 fonts
- Over 750 3D models

COREL DRAW 6 CORDRAW6 £289



COREL FLOW 3

Corel Flow allows you to produce advanced, graphical, intuitive flow charts.

COREL FLOW 3 COREFLOW3 £92

COREL PRINT HOUSE

Corel Print House with 32-bit processing is now the fastest and easiest way for everyone to create great looking greeting cards, stationery, banners and more! Features include

- 5,000 stunning clipart images
- 1,000 catchy phrases



- 1,000 fantastic photos
- Over 900 easy to use samples

COREL PRINT HOUSE CORMPH5 £20

COREL XARA

Corel Xara offers the fastest redraw capabilities and intuitive interfaces to create stunning special effects from photo realistic bit-mapped images to business presentations. Achieve these effects with

- 250 textures
- Anti-aliasing for smooth photo-realistic images
- 3D perspective for bitmapping
- Graduated transparency

COREL XARA COELXARA £129

QUICKEN SOFTWARE FEATURE



QUICKEN UK 4.0 FOR WINDOWS 10VERA/WH £26

The fastest, easiest way to organise your home and small business finances

Quicken organises all your finances in one place. It's easy to use, provides insight into your spending habits and helps you to plan for a better financial future.

QUICKEN 4 CD 10VERA/WCD £26

New Quicken 4 CD for Windows uses multimedia to make it easier than ever to have your PC organise your finances.

On-screen tutors show you Quicken's key features, talking you through the basics and making sure Quicken starts working for you immediately.

Quicken

QUICKEN DELUXE HOME PACK FOR WINDOWS 10/DLX/HOME £45

QUICKEN DELUXE BUSINESS PACK FOR WINDOWS V4.0 10/DLX/BUS £45

QUICKBOOKS UK 3 FOR WINDOWS 10/BOOK/SUK3 £84

Dr. SOLOMON'S FEATURE

DR SOLOMON'S



Dr. SOLOMON'S ANTI-VIRUS TOOLKIT

Combat viruses in DOS, OS/2, Windows and Netware
The best answer to the serious problem posed by viruses. Each toolkit is made up of four programs geared to locate, identify and destroy existing viruses and then protect your system.

FINDVIRUS - Detects and identifies viruses in files, partition code and boot sectors using an extensive database of virus recognition information.

GENERIC DECRYPTION ENGINE - An amazing program that can actually detect those viruses that mutate.

VIRUSGUARD - This is the memory resident utility that is installed every time you restart your computer. It checks every program for viruses before it is opened or copied.

VIVERIFY - ViVerify is a unique program that finds new and undiscovered viruses by monitoring executable code changes.

DRSOLAV/WIN95 ANTI-VIRUS TOOLKIT FOR WINDOWS 95 £70

DRSOLAV/D ANTI-VIRUS TOOLKIT DOS £59

DRSOLAV/W ANTI-VIRUS TOOLKIT WINDOWS £69

DRSOLAV/W ANTI-VIRUS NETWARE £239

Dr. SOLOMON'S PC ARMOUR

PC Protection for IT Professionals

An easy to use package which gives you back control over who uses your computer

- Boot-up password
- Program authorisation
- Hard disk boot protection

DRSOLPCA PC ARMOUR £41

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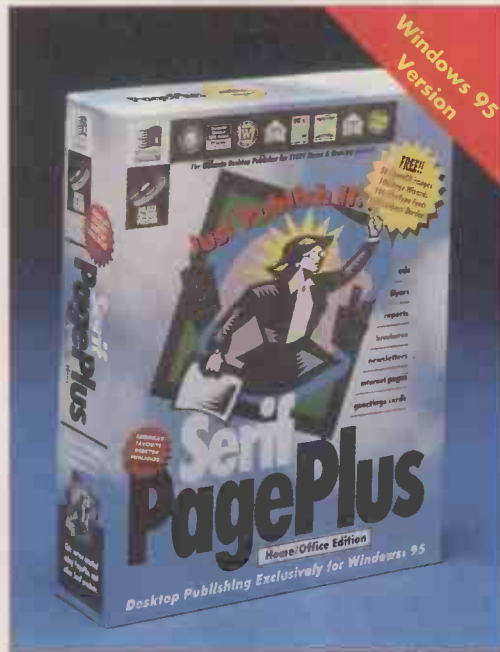
SERIF SOFTWARE FEATURE



quickly and effortlessly business presentations in the most stylish and professional way possible. Design newsletters, catalogues, reports, flyers, advertisements, and brochures with the feature rich **PagePlus for Windows 95**.

- Powerful Wizards for creating publications, adding headers and footers and much more
- Utilize built-in WritePlus wordprocessor which is compatible with all major wordprocessors
- Built in LogoPlus Text Effects Creator for headings and logos that leap off the page
- Export-Import and embed graphics in all formats from CorelDRAW, PhotoCD, TIF and EPS
- Deluxe CD ROM is packed with designer fonts, photos, Page Wizards, multimedia tutorials and much more!

Serif PagePlus Home/Office Edition CD SERIF/H/O £30



Software experts available for specialist advice

NEW! SERIF PAGEPLUS HOME/OFFICE EDITION

Serif PagePlus Home/Office Edition for Windows 95 is the brand-new version of best selling PagePlus which sold over 1 million copies.

Quickly design and print any publishing project imaginable! Automated Wizards create instant professional quality business and leisure documents before your eyes. Add the final touches with the huge library of TrueType fonts, colour cliparts and PhotoCD images.

The great thing about Serif PagePlus Home/Office Edition is that you don't need any design experience. Ideal for designing

OFFICEBLOX FEATURE

OFFICEBLOX FOR WINDOWS 95 AND NT

Four powerfully simple and essential applets you'll use every day and all day

Amazing Value



CalcBlox - The fastest, easiest, smartest and most flexible calculator ever built. CalcBlox combines the speed and ease of a hand held calculator with the power and flexibility of a full Windows 95 software application. With 16 different calculator types to choose from, 21 pre-defined calculation templates and the revolutionary CalcSheet, CalcBlox gives you everything you need right out of the box and, guarantees you get the

right result every time. **ListBlox** - The quickest and simplest way to make manage and work lists

ListBlox lets you create lists as quickly and as easily as writing them on paper but with the power and flexibility of an ODBC database. Create any list you need in seconds from scratch, or use the 48 pre-defined templates. Multiple views and single click sorting, filtering and colour highlighting mean analysing and managing your data has never been easier.

NoteBlox - The fastest and easiest way to take notes and annotate your work. Create notes in seconds. Jot down an idea or take a phone message. Share it by e-mail, or use it to annotate another document by simply dragging and dropping it straight onto the page.



WorkBlox - The smartest and most intuitive way to organise your work. Never worry about losing files or about file names and paths ever again. Simply store and

manage all of your documents and objects in visual tabbed electronic folders by dragging and dropping.



Plus **ToolBlox** - The fastest and easiest way to launch and embed Blox and applications. **OfficeBlox for Windows 95 and NT** £49

WHAT THE PRESS SAY

"Groundbreaking software... represents a step forward in the way software will be viewed"

PC Magazine

Winner of the **PC Magazine 1995 Technical Innovation Award for Usability**. "OfficeBlox is a truly innovative and particularly useful piece of software" Personal Computer Magazine

"The simplicity of the design makes advanced functionality child's play" Personal Computer World

"Small but perfectly formed... quick and simple, it's a surprisingly important product, offering not only brilliantly designed functionality, but a far more efficient way of working" Computer Life

WHY YOU SHOULD BUY OFFICEBLOX..

All the Blox are tiny (less than 300K), so they're incredibly fast. Over 100 pre-defined templates make it easy to:

- Calculate mortgage payments, return on investment, break even analysis, declining balance depreciation, no claims bonus....
- Create to-do lists, address lists, project schedules, guest lists, home contents insurance lists, flight itineraries...
- Write phone messages, recipes, reminders, ideas, notes, annotations....

Blox can be dragged and dropped into other documents and Blox:

- For sales quotations, business proposals, financial agreements or letters
 - As annotations or to explain a point in detail
 - To act as bookmarks and tags
- You can organise your work in whatever way is best for you:
- Action Item documents in your to-do list
 - In monthly, weekly or daily folders
 - In project or customer specific folders

They combine with each other, and your other Windows 95 or NT applications, to provide comprehensive business solutions

Probably the easiest office management software you'll ever use

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Our sales people are the best. They are trained specialists in their chosen field - multimedia, memory of all types, mass storage, networking and communications.

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Dedicated after sales technical support teams on line to help with installation.

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We welcome orders from corporate, education and public sector organisations. Just fax or phone your order number.

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All products supplied by Memory Bank carry manufacturers' warranties and full Powermark plc guarantees.

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Memory Bank

The Powermark Centre, The Waterfront, Elstree Road, Elstree, Hertfordshire WD6 3RP

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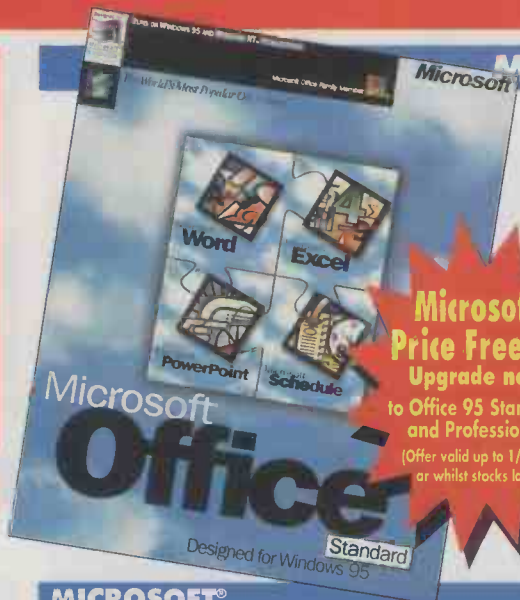
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Microsoft

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Word for Win 95	£229
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Exclusively for Windows 95

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Microsoft® Office for Windows® 95 makes it easier than ever to focus on your job instead of your software.

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- Type a help request in your own words and the Answer Wizard gives you the answer you need

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- Type a help request in your own words, and the Answer Wizard finds the answer



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KEY

CCP	Compliance Checking Product	MS	Microsoft Product
CD	CD ROM	SL	Site License
CUP	Competitive Upgrade	UP	Upgrade
DOS	DOS Version	Vxx	Version
		WIN	Windows Version

Credit cards are not debited until despatch. VAT at 17.5% will be added to all prices. 4 9 6

DELIVERY CHARGES
See page 5

SOFTWARE WARRANTY
Do check compatibility before ordering. Faulty software replaced through Powermark Customer Service. Opened software cannot be returned.



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BANK

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WINDOWS® 95 FEATURE

Microsoft®

Unlock the potential of your PC with Microsoft® Windows® 95

Microsoft Windows 95 makes everything you do with your computer faster and easier.

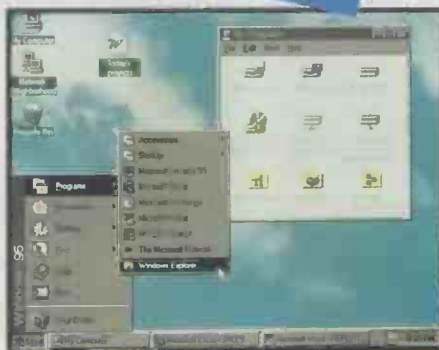
The Microsoft® Windows® 95 operating system will transform everything you do with your PC. Suddenly using a computer can be fast, easy and fun - with limitless possibilities!

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- Save time with an easier-to-use interface; long filenames; and one-click access to all of your programmes and documents with the **Start** button
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- 32-bit, pre-emptive multitasking lets you run multiple programmes or perform multiple tasks simultaneously
- Gain built-in access to e-mail and faxes with Microsoft Exchange, and to the Internet with **The Microsoft Network**
- Full-motion video provides vividly realistic game play with big, fast, on-screen action

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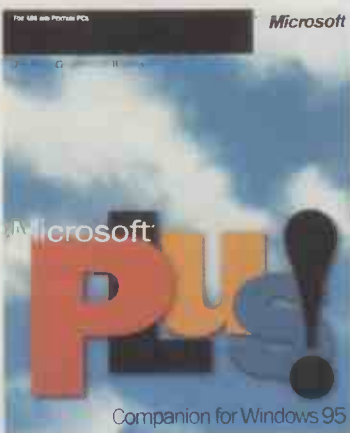
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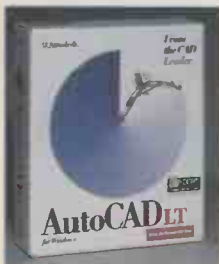
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AUTORDB6	MS Autoroute Database Editor V6	£92
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ACCENT/SE	Accent Special Edition	£89
ACCENT/EXP	Accent Express	£37
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LOTANU/W	Lotus Word Pro 96 MS Word WIN V6	£221
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MSWORD/W/SL	MS Word V6 WIN UP CCP	£78
MSWORD/W/CCPUP	MS Word V6.0 For Windows NT CD	£242
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LOT123/1SL	Lotus 123 V5 WIN 1 SL	£195
LOT123D	Lotus 123 V4 DOS	£295
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MSXCELS/SL	MS Excel V5 WIN 1 SL	£197
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MSXCELS/W/INT	MS Excel V5.0 for Windows NT CD	£242
BORLANDPRO/SD	Quattro Pro V5.5 DOS	£49
BORLANDPRO/6W	Quattro Pro V6 WIN 3.5" + CD	£155

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AUTOCAD/LTUG	AutoCAD LT V2 WIN UP	£95
AUTOCAD/LTAL	AutoCAD LT Int Architectural Library	£110
DESIGNCAD2D/W	DesignCAD 2D WIN	£175
DRAFXCADWP	Drafix Windows CAD V2.1	£45
DRAFXCAD	Drafix Windows CAD Prof	£145

DRAFXCADAL	Architectural Library	£109
FLOORPLAN+3D	Floorplan Plus 3D WIN	£63
FLOOR+3D0P	Floorplan + 3D & 3D Design Plus	£179
TURBOCAD3D	TurboCAD 3D V3.2DOS	£84
TURBOCAD/W	TurboCAD WIN	£53

KEY

CCP	Compliance	DOS	DOS Version	UP	Upgrade
CD	Checking Product	LAN	Local Area Network	Vxx	Version
CD	CD ROM	MS	Microsoft Product	WIN	Windows Version
CUP	Competitive Upgrade	SL	Site License		

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**DELIVERY
CHARGES**
See page 5

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Shown above with MultiMedia kit (optional)
Monitor/Case may be cosmetically different to that shown.
Software boxes shown for illustrative purposes only.

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All software is pre-loaded for your convenience*

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- ◆ IDE Hard Disk & Floppy Drive Controller
- ◆ 3 x VESA & 4 x ISA expansion slots
- ◆ Dual Serial & Parallel Port
- ◆ Expandable Desktop Case
- ◆ 102 Key Enhanced Keyboard
- ◆ 14" Super VGA Non-Interlace Colour Monitor
- ◆ 3.5" 1.44Mb Floppy Drive
- ◆ 102 key enhanced keyboard
- ◆ Microsoft compatible mouse
- ◆ MS DOS v6.22 & MS Windows v3.11
- ◆ 12 Months Parts & Labour Warranty
- ◆ Technical Support Hotline

Universa PENTIUM®-based SYSTEMS

- ◆ 8Mb RAM expandable to 128Mb
- ◆ 540Mb Hard Disk
- ◆ 256K External Cache RAM
- ◆ Advanced Pentium® upgradable motherboard using Type 5 ZIF socket
- ◆ EPA EnergyStar Compliant
- ◆ 64 bit SuperVGA Graphics Controller Card with 1Mb Video Memory
- ◆ Enhanced IDE I/F supporting 4 drives
- ◆ 3 x PCI/4 x 16 bit exp. slots (1 shared)
- ◆ Enhanced Parallel Port (EPP/ECP)
- ◆ Two Enhanced Serial Ports - 16550 UART
- ◆ 102 Key Enhanced Keyboard
- ◆ 14" SVGA Non-Interlace Colour Monitor
- ◆ 3.5" 1.44Mb Floppy Drive
- ◆ 102 key enhanced keyboard
- ◆ Microsoft compatible mouse
- ◆ MS DOS v6.22 & MS Windows v3.11
- ◆ 12 Months Parts & Labour Warranty
- ◆ Technical Support Hotline

Aries Universa 486DX Systems

Description	Price	Finance per month
486DX2 66MHz	£549	—
486DX4 100MHz	£579	—
486DX2 66MHz	£769	£43*
486DX4 100MHz	£799	£45*



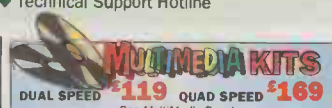
OPTIONS FOR UNIVERSA SYSTEMS:

4Mb to 8Mb RAM upgrade	£89
540Mb to 1Gb Hard Disk Upgrade	£58
Upgrade to 15" Super VGA Colour 1024 x 768 Non Interlace Monitor	£99
12 Months On-Site Maintenance	£35
3 years On-Site Maintenance	£118

* See example of calculations
† All software supplied pre-loaded for your convenience with built-in tutorial, and may change from those shown without notice. Disks and manuals available as an optional extra.

Universa Pentium-based Systems

Description	Price	Finance per month
Pentium 75MHz	£799	£45*
Pentium 90MHz	£849	£48*
Pentium 75MHz	£979	£55*
Pentium 90MHz	£1029	£58*



OPTIONS FOR UNIVERSA SYSTEMS:

8Mb to 16Mb RAM Upgrade	£159
540Mb to 1Gb Hard Disk Upgrade	£58
Upgrade to 15" Super VGA Colour 1024 x 768 Non Interlace Monitor	£99
12 Months On-Site Maintenance	£35
3 years On-Site Maintenance	£118

* See example of calculations
† All software supplied pre-loaded for your convenience with built-in tutorial, and may change from those shown without notice. Disks and manuals available as an optional extra.

UPGRADE ANY **Universa** PC TO A COMPLETE MULTIMEDIA SYSTEM

MultiMedia Kits MM2 & MM4

- ◆ Dual Speed (MM2 Kit) or Quad Speed (MM4 kit) CD ROM Drive
- ◆ Sound Blaster 16 Compatible Sound Card
- ◆ Aries HiFi Speaker Set (10W per channel)
- ◆ Microsoft CD Bundle Pack (see panel)

Dual Speed Kit MM2

£119

Quad Speed Kit MM4

£169



MultiMedia Kit prices only applicable when purchased with a PC

Complete Bundle Software Pack Included

- MS Encarta 1995
- MS MultiMedia Works
- MS Dangerous Creatures
- MS Money ● MS Golf
- MS Scenes (3.5" disks)

APR **18.5%** Finance calculation example: **Cash Price: £799 + VAT = £938.83 Deposit: 10% £93.88 and 24 equal payments of £41.84 Total Price: £1098.04** Finance is available subject to status. Be sure you can afford the payments prior to entering into an agreement. Price excludes carriage

Credit Card/Sales Order Line: 01582 745555 • Technical Support: 01582 745500 • Switchboard: 01582 487777

Aries Universa^{MKII} LCF Systems

Ultra Low Cost Finance

APR 9.9%

LIMITED PERIOD ONLY

Aries Universa^{MKII}
486DX2-66
540Mb Hard Disk
Bundled Software
£34 per month



Shown above with MultiMedia kit, 15" monitor and 80 watt speakers (optional). Monitor/Case may be cosmetically different to that shown. Software boxes shown for illustrative purposes only.

ALL UNIVERSA LCF SYSTEMS ARE BUNDLED WITH THE FOLLOWING SOFTWARE

APPLICATIONS & OPERATING SYSTEM



MS-DOS v6.22 MONEYBOX Personal Finance MS WINDOWS v3.11 SERIF PAGE PLUS 3 SERIF DRAW PLUS 3 NOVELL PERFECT WORK

LIFESTYLE, REFERENCE & UTILITIES



GARDENERS WORLD BODY WORKS v.3 CV & JOB SEARCH



TYPING TEACHER VIRUSCAN WIN DELETE v.1



MASTERCLIP SPECIAL FAMILY TREE MAKER INTRO

ENTERTAINMENT



RAC RALLY EPIC PINBALL



3D CHESS RAPTOR



FORBIDDEN PLANET OVERKILL

EDUCATION, BOOKSHELF & LANGUAGES



JUNIOR ESSENTIALS EARLY ESSENTIAL ESSENTIAL MATHS FUNSCHOOL MATHS FUNSCHOOL5 IN SPACE



LEARN FRENCH LEARN GERMAN LEARN JAPANESE FUN SCHOOL 5 IN DREAMLAND STRUCTURED SPELLING

All software is pre-loaded for your convenience! *Pentium systems only

Universa 486DX SYSTEMS

- ◆ 4Mb RAM expandable to 64Mb
- ◆ 540Mb Hard Disk
- ◆ 128K External Cache RAM
- ◆ Processor Upgradable to Pentium® Overdrive P24T
- ◆ Windows Accelerator SuperVGA Graphics Controller Card
- ◆ IDE Hard Disk & Floppy Drive Controller
- ◆ 3 x VESA & 4 x ISA expansion slots
- ◆ Dual Serial & Parallel Port
- ◆ Expandable Desktop Case
- ◆ 102 Key Enhanced Keyboard
- ◆ 14" Super VGA Non-Interlace Colour Monitor
- ◆ 3.5" 1.44Mb Floppy Drive
- ◆ 102 key enhanced keyboard
- ◆ Microsoft compatible mouse
- ◆ MS DOS v6.22 & MS Windows v3.11
- ◆ 12 Months Parts & Labour Warranty
- ◆ Technical Support Hotline

Universa PENTIUM®-based SYSTEMS

- ◆ 8Mb RAM expandable to 128Mb
- ◆ 540Mb Hard Disk
- ◆ 256K External Cache RAM
- ◆ Advanced Pentium® upgradable motherboard using Type 5 ZIF socket
- ◆ EPA EnergyStar Compliant
- ◆ 64 bit SuperVGA Graphics Controller Card with 1Mb Video Memory
- ◆ Enhanced IDE I/F supporting 4 drives
- ◆ 3 x PCI/4 x 16 bit exp. slots (1 shared)
- ◆ Enhanced Parallel Port (EPP/ECP)
- ◆ Two Enhanced Serial Ports - 16550 UART
- ◆ 102 Key Enhanced Keyboard
- ◆ 14" SVGA Non-Interlace Colour Monitor
- ◆ 3.5" 1.44Mb Floppy Drive
- ◆ 102 key enhanced keyboard
- ◆ Microsoft compatible mouse
- ◆ MS DOS v6.22 & MS Windows v3.11
- ◆ 12 Months Parts & Labour Warranty
- ◆ Technical Support Hotline

Aries Universa 486DX Systems

Description	Price	Finance per month
486DX2 66MHz	£649	£34*
486DX4 100MHz	£679	£36*
486DX2 66MHz	£769	£40*
486DX4 100MHz	£899	£47*

MULTIMEDIA KITS
DUAL SPEED **£119** QUAD SPEED **£169**
See MultiMedia Panel

OPTIONS FOR UNIVERSA SYSTEMS:

4Mb to 8Mb RAM upgrade	£89
540Mb to 1Gb Hard Disk Upgrade	£58
Upgrade to 15" Super VGA Colour 1024 x 768 Non Interlace Monitor	£99
12 Months On-Site Maintenance	£35
3 years On-Site Maintenance	£118

* See example of calculations
† All software supplied pre-loaded for your convenience with built-in tutorial, and may change from those shown without notice. Disks and manuals available as an optional extra.

Universa Pentium-based Systems

Description	Price	Finance per month
Pentium 75MHz	£899	£47*
Pentium 90MHz	£949	£50*
Pentium 75MHz	£1079	£57*
Pentium 90MHz	£1129	£59*

MULTIMEDIA KITS
DUAL SPEED **£119** QUAD SPEED **£169**
See MultiMedia Panel

OPTIONS FOR UNIVERSA SYSTEMS:

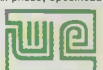
8Mb to 16Mb RAM Upgrade	£159
540Mb to 1Gb Hard Disk Upgrade	£58
Upgrade to 15" Super VGA Colour 1024 x 768 Non Interlace Monitor	£99
12 Months On-Site Maintenance	£35
3 years On-Site Maintenance	£118

* See example of calculations
† All software supplied pre-loaded for your convenience with built-in tutorial, and may change from those shown without notice. Disks and manuals available as an optional extra.

APR **9.9%**

Finance calculation example: **Cash Price: £679 + VAT = £797.83 Deposit: 10% £119.67 and 24 equal payments of £31.12 Total Price: £866.56** Finance is available subject to status. Be sure you can afford the payments prior to entering into an agreement. Price excludes carriage

All prices, specifications and offers subject to change without notice. Please ensure suitability with manufacturer before ordering. All returns subject to handling charge. Goods not sold on a trial basis. Sales subject to our Terms & Conditions available on request. E & OE.



Watford Electronics Ltd

Mail Order & Showroom: Jessa House, Finway, off Dallow Rd, Luton LU1 1TR
Showroom only: 250 Lower High Street, Watford, WD1 2AN. Tel: 01923 237774



SALES HOTLINE
01582 745555
FAX: 01582 488588

All Prices exclude Carriage & VAT @ 17.5%

Credit Card/Sales Order Line: 01582 745555 • Technical Support: 01582 745500 • Switchboard: 01582 487777

Aries *The Sign of Quality*

The New Aries Perfecta PCI range is even by Watford's own high standards a breathtaking upgrade on the previous ranges. Designed without compromise for today's PC professional. Perfecta PCI Systems feature the hottest new local bus technology from Intel, PCI. Jointly developed by Intel and other industry leaders, PCI picks up where other bus architectures leave off,

providing greater system performance via a wider data path and increased expandability.


Incorporating a host of advanced features for improved performance, future-proof upgradability, a peace-of-mind **6 year warranty** and prices you've come to expect from Watford - you could say the new range is quite simply perfect!

ASK FOR THE NO COST OPTION



Microsoft WINDOWS 95
Installed on your Perfecta PC at no extra charge

INTERNET READY



with the Aries range of Modems

Perfecta[®] PCI

Genuine PCI performance at exceptional prices. These new Perfecta PCI systems incorporate a host of advanced features for improved performance including 9FX graphics cards to unleash the full power of Windows. Choose from the popular priced standard systems or include the industry-standard Microsoft Office software package. Whichever you choose you are assured of incredible value.

- ◆ 540Mb Fast IDE Hard Disk
- ◆ 4Mb RAM expandable to 128Mb
- ◆ 256K External Cache RAM exp. to 512K
- ◆ Write back & Write through Cache supported
- ◆ Advanced Integrated upgradable motherboard
- ◆ Processor upgradable to Pentium Overdrive (Type 3 ZIF Socket on board)
- ◆ EPA Energy Star Compliant
- ◆ GrafixStar 300 64 bit Graphics Card with 1Mb Video Memory
- ◆ 3.5" 1.44Mb Floppy Drive
- ◆ Enhanced Parallel Port (EPP/ECP)
- ◆ Two enhanced Serial Ports using 16550 UART
- ◆ Enhanced IDE Interface supporting four drives
- ◆ 3 x PCI & 4 x 16 bit expansion slots (1x PCI/16 bit shared slot)
- ◆ 102 key Enhanced keyboard
- ◆ 14" Super VGA Low Radiation MPRII Non-Interlace Colour Monitor (0.28mm dot pitch)
- ◆ MS DOS v6.22 & MS Windows v3.11 OR MS Windows 95
- ◆ SIX Year Warranty consisting of: 12 months On-Site Parts & Labour Warranty Five Years (return to base) Labour Only Warranty
- ◆ Technical Support Hotline

Aries Perfecta PCI Systems

Description	Price	Finance per month from
486DX2-66MHz	£649	£37
486DX4-100MHz	£679	£38
 Above system with 8Mb RAM and Microsoft Office v4.2		
486DX2-66MHz	£859	£49
486DX4-100MHz	£889	£51

Perfecta PCI Upgrade Option

Part No.	Description	Price
PCI-01	4Mb to 8Mb RAM Upgrade	£79
PCI-02	4Mb to 16Mb RAM Upgrade	£249
PCI-05	Upgrade to GrafixStar 300 2Mb 64 bit Video Graphics Card	£59
PCI-10	1Gb IDE Hard Disk Drive Instead of 540Mb IDE Drive	£58
PCI-20	Upgrade to 15" Aries 6000 Digital Control, Non-Interlaced (1280x1024) Low Radiation MPRII Monitor	£79
PCI-21	Upgrade to 17" Aries Monitor	£259
P5-30	MS Office - Manuals & Disks	£49

6 YEAR WARRANTY

ENHANCED HIGH SPEED SERIAL PORTS 16550

VideoLogic 1Mb GRAPHICS CARD



Shown with optional MultiMedia Kit

QUAD SPEED MULTIMEDIA KIT
See MultiMedia Panel **£169**


SIX SPEED MULTIMEDIA KIT
See MultiMedia Panel **£199**

Perfecta[®] P5

Perfecta P5 systems make no compromises on quality or performance while continuing Aries reputation for superb value. With Pentium processors ensuring stunning speeds and a full range of options and low-cost multimedia kits you can personally customise your PC for your own needs.

- ◆ 540Mb Fast IDE Hard Disk
- ◆ 8Mb RAM expandable to 128Mb
- ◆ 256K External Cache RAM upg. to 512K
- ◆ Advanced Integrated Pentium upgradable motherboard using Type 5 ZIF Socket
- ◆ EPA Energy Star Compliant
- ◆ GrafixStar 300 64 bit Graphics Card with 1Mb Video Memory
- ◆ 3.5" 1.44Mb Floppy Drive
- ◆ Enhanced Parallel Port (EPP/ECP)
- ◆ 2 enhanced Serial Ports using 16550 UART
- ◆ Enhanced IDE Interface supporting four drives
- ◆ 3 x PCI & 4 x 16 bit expansion slots (1x PCI/16 bit shared slot)
- ◆ 102 key Enhanced keyboard
- ◆ 14" Super VGA Low Radiation MPRII Non-Interlace Colour Monitor (0.28mm)
- ◆ MS DOS v6.22 & MS Windows v3.11 OR MS Windows 95
- ◆ SIX year Warranty consisting of: 12 months On-Site Parts & Labour Warranty Five Years (return to base) Labour Only Warranty
- ◆ Technical Support Hotline

Aries Perfecta P5 Systems

Description	Price	Finance per month from
Pentium P75	£849	£48
Pentium P100	£899	£51
 Above system with 1Gb HD and Microsoft Office v4.2		
Pentium P75	£1029	£58
Pentium P100	£1079	£61

Perfecta P5 Upgrade Options

Part No.	Description	Price
P5-01	8Mb to 16Mb RAM Upgrade	£159
P5-02	8Mb to 32Mb RAM Upgrade	£499
P5-06	Upgrade to GrafixStar 300 2Mb DRAM 64 bit Video Graphics Card	£59
P5-07	Upgrade to GrafixStar 700 2Mb VRAM 64 bit Graphics Card	£99
P5-10	1Gb IDE HDD instead of 540Mb IDE	£68
P5-11	2Gb IDE Hard Disk Drive Instead of 540Mb IDE Drive	£258
P5-15	Upgrade to Full Tower Case	£45
P5-20	Upgrade to 15" Aries 6000 Digital Controlled Non-Interlaced (1280x1024) Low Radiation MPRII Monitor	£79
P5-21	Upgrade to 17" Panasonic PanaSync TX-D1733 Monitor (0.27mm DP)	£345
P5-23	Upgrade to 17" Aries Monitor	£259
P5-30	MS Office - Manuals & Disks	£49



Shown with MultiMedia Kit with Aries HiFi Plus 15 Watt Speakers and 15" Aries 6000 monitor (optional)

QUAD SPEED MULTIMEDIA KIT
See MultiMedia Panel **£169**

SIX SPEED MULTIMEDIA KIT
See MultiMedia Panel **£199**

LOW COST CREDIT APR 18.5%
Available on all Perfecta PC's. See example on previous pages



Case design may vary from that shown

Aries *The Sign of Quality*

Perfecta® P5 Triton

The Ultimate Performers

Looking for the fastest PC's around? The search is over. The Perfecta P5 Triton Ultimate Performers have arrived. Fast. Powerful. Built to run your toughest applications at staggering speeds and designed for the increasingly strenuous demands of today's business PC user. The P5 Triton systems feature the latest Intel Triton chipset designed to get the ultimate performance from the Pentium processor. Combine this with high speed EDO-RAM and a Pipeline Burst Cache upgrade and you have a system that is probably the finest example of Power Computing available anywhere.

- ◆ 8Mb EDO RAM expandable to 128Mb
- ◆ 1Gb Fast IDE Hard Disk
- ◆ 256K External Cache RAM expandable to 512K
- ◆ Pipelined Burst Cache Module supported
- ◆ 100MB/sec PCI Data Streaming
- ◆ Plug & Play (ISA) support for MS Windows 95
- ◆ Advanced integrated upgradable motherboard with Intel Triton Chipset
- ◆ Processor upgradable to Pentium 200MHz using Type 7 ZIF Socket
- ◆ EPA Energy Star Compliant
- ◆ GrafixStar 300 64 bit Graphics Card with 2Mb Video Memory
- ◆ 3.5" 1.44Mb Floppy Drive
- ◆ Enhanced Parallel Port (EPP/ECP)
- ◆ Two enhanced Serial Ports using 16550 UART
- ◆ Enhanced IDE Interface supporting four drives
- ◆ 3 x PCI & 4 x 16 bit expansion slots (1x PCI/16 bit shared slot)
- ◆ 102 key Enhanced keyboard
- ◆ 15" Digital Controlled, Non-Interlaced (1280x1024) Low Radiation MPRII Colour Monitor (0.28mm dp)
- ◆ MS DOS v6.22 & MS Windows v3.11 OR MS Windows 95
- ◆ SIX year Warranty consisting of: 12 months On-Site Parts & Labour Warranty Five Years (return to base) Labour Only Warranty
- ◆ Technical Support Hotline



Shown with MultiMedia Kit and 80 watt speakers

Aries Perfecta P5 Triton Systems	Price	Finance per month from
Pentium P100	£1095	£62
Pentium P120	£1169	£66
Pentium P133	£1199	£68
Pentium P150	£1269	£72
Pentium P166	£1415	£80



CALL for SPECIAL PRICES for MICROSOFT OFFICE v4.2 when purchasing the above range of PC's

Pipeline Cache
256K
only £19

ENHANCED HIGH SPEED SERIAL PORTS
16550

Videologic
2Mb
GRAPHICS CARD

6
YEAR WARRANTY

Perfecta P5 Triton Upgrade Options

Part No.	Description	Price
P5-Tr01	8Mb to 16Mb EDO RAM Upgrade	£179
P5-Tr02	8Mb to 32Mb EDO RAM Upgrade	£599
P5-Tr03	8Mb to 64Mb EDO RAM Upgrade	£904
P5-Tr04	Upgrade to 256K Pipeline-Burst Cache Module	£19
P5-Tr06	Upgrade to GrafixStar 700 2Mb VRAM 64 bit Graphics Card	£78
P5-Tr10	2Gb IDE Hard Disk Drive instead of 1Gb IDE Drive	£195
P5-Tr11	2Gb SCSI Hard Drive + Adaptec PCI Controller instead of 1Gb IDE	£678
P5-Tr15	Upgrade to Full Tower Case	£45
P5-Tr20	Upgrade to 17" Panasonic PanaSync TX-D1733 Monitor (0.27mm DP)	£275
P5-Tr21	Upgrade to 17" Panasonic PanaSync 17MM TX-D1733F with Built-in TopDome Sound & Microphone	£325
P5-Tr22	Upgrade to 20" Panasonic PanaSync TX-D2051 Monitor	£840
P5-Tr23	Upgrade to 21" Panasonic PanaSync TX-D2131 Monitor	£1180
P5-Tr24	Upgrade to Aries 17" Monitor	£199
P5-Tr30	MS Office - Manuals & Disks	£49

Case design may vary from that shown

LOW COST CREDIT APR 18.6%
Available on all Perfecta PC's. See example on previous pages

QUAD SPEED MULTIMEDIA KIT
See MultiMedia Panel
£169

SIX SPEED MULTIMEDIA KIT
See MultiMedia Panel
£199



UPGRADE ANY Perfecta PC TO A COMPLETE MULTIMEDIA SYSTEM

Perfecta MultiMedia Kits MM4 & MM6

- ◆ Quad Speed (MM4 Kit) or Six Speed (MM6 kit) CD ROM Drive
- ◆ Creative Sound Blaster 16 Sound Card
- ◆ Aries HiFi Speaker Set (10W per channel)
- ◆ Microsoft CD Bundle Pack (see panel)

Quad Speed Kit MM4 **£169**
Six Speed Kit MM6 **£199**

Optional Speaker Upgrades

(only available with Multimedia MM4 & MM6 kits)

Part No.	Description	Price
P-Spk01	Aries HiFi Plus (15W per channel)	£9
P-Spk02	Aries Digital (25W per channel)	£18
P-Spk03	Aries Digital Plus (80W per channel)	£29
P-Spk04	Aries Ultra Power (80W per channel)	£39

Genuine Sound BLASTER



Complete Bundle Software Pack Included

- MS Encarta 1995
- MS MultiMedia Works
- MS Dangerous Creatures
- MS Money
- MS Golf
- MS Scenes (3.5" disks)

MultiMedia Kit prices only applicable when purchased with a Perfecta PC

Microsoft Office 4.2 Includes:

- ◆ MS Office Manager
- ◆ MS Word for Windows v6
- ◆ MS Excel for Windows v5
- ◆ MS Powerpoint for Windows v4
- ◆ MS Mail (Licence)

Supplied when you purchase disks & manuals
Office Software supplied pre-loaded for your convenience with built-in tutorial. Disks & manuals available as an optional extra.

All prices, specifications and offers subject to change without notice. Please ensure suitability with manufacturer before ordering. All returns subject to handling charge. Goods not sold on a trial basis. Sales subject to our Terms & Conditions available on request. E & OE.

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FAX: 01582 488588

All Prices exclude Carriage & VAT @ 17.5%

Credit Card/Sales Order Line: 01582 745555 • Technical Support: 01582 745500 • Switchboard: 01582 487777

Aries Perfecta® 7000 Series

More features than most desktop PC's

FREE
MoneyBox[®] Finance Organiser
& 16 bit Soundcard (fitted)
Worth £98
with any purchase of a
Notebook this month

Aries introduce you to a new range of beautifully designed notebooks that genuinely give you the power and facilities you expect from your desktop PC. The Aries Perfecta 7000 is packed with intelligent energy-saving features that ensure you get longer life and safer data. With a choice of processors up to DX4 100MHz and RAM expandable to a mammoth 32Mb, the 7000 packs the power to run your Windows applications, and an ergonomic design to make them easier to use.

ADVANCED POWER MANAGEMENT

Complete with a comprehensive set of 16 features that will allow you to customise the operation of the machine to your benefit. Suspend to memory or suspend to disk ensures data is never lost when you leave the notebook.

FLEXIBLE PCMCIA

Compartment for two type I/II or one type III PCMCIA slot with removable cover.

LOW POWER 3.3V

All the components in the notebook run at 3.3V, giving up to three times longer life.

BUILT-IN-SOUND

Built-in Speaker/Microphone. Stereo 16 bit Sound System

SUPERB PERFORMANCE

CPU Upgrade up to Intel DX4-100. External connectivity enhanced by use of 16C550 Serial Port and Parallel Port with support for EPP/ECP.

EXTERNAL STATUS INDICATOR

"At a glance" multi colour Indicator on the top cover shows if machine is charging, charged, suspended with battery charging or charged.

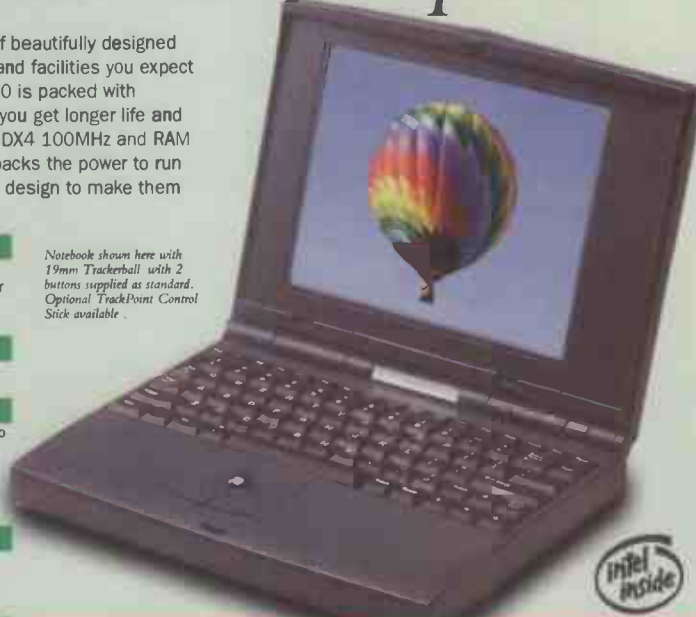
INTERNAL STATUS INDICATOR PANEL

12 distinct icons will display, flash or change appearance to give you a complete report on the state of the machine including a 5 step graduated remaining charge gauge.

REMOVABLE HARD DISK DRIVE

Security conscious? Remove the Hard Disk easily and be sure that your data is safely out of reach of unauthorised users.

Notebook shown here with 19mm Trackball with 2 buttons supplied as standard. Optional TrackPoint Control Stick available.



DOCKING STATION WITH 4x CD-ROM

- ◆ Inc quad-speed CD-ROM drive
- ◆ Two expansion slots and drive bays (one expansion slot and drive bay remaining with CD ROM installed)
- ◆ Built-in Parallel, Serial, PS/2 Mouse, keyboard and VGA ports.

£399

OFFICE COMMS UPGRADE

Turn your Aries 7000 notebook into a complete voice mail system with the Aries Office Comms Workstation Kit.

Suitable for home or business, supporting multiple mail boxes, Fax on Demand, and data communications. Contains high speed V32bis (14400

FREE INTERNET CONNECTION 30 DAY TRIAL

baud) Voice/Fax Modem and software package, providing users with remote access to voice, fax and data messages.

ONLY £125

All prices are for standard 340Mb Hard Disk, Supplied with FREE Carrying Case

7000 Series Display	7100 10" Mono 64 Grey Scale	Finance per month from	7300 10" Colour Dual Scan	Finance per month from	7400 10" Colour TFT Active Matrix	Finance per month from
SL i486SX™-33	£939	£37	£1239	£49	£1789	£68
SL i486DX4™-75	£949	£38	£1249	£51	£1799	£69
SL i486DX4™-100	£999	£42	£1299	£53	£1849	£72

ADDITIONAL OPTIONS

4 to 8Mb RAM Upgrade*	£159
4 to 16Mb RAM Upgrade*	£525
4 to 32Mb RAM Upgrade*	£1089
Trackpoint device	£25
16 bit Internal Sound Card	£49
Aries HiFi Speakers	£29
PCMCIA Game Card	£45
PCMCIA 9600 Fax/Modem	£59
PCMCIA US Robotics Worldport 14400 Fax/Modem	£165

PCMCIA Ethernet Card	£99
Spare NiMH Battery Pack	£69
Spare AC Mains Adaptor	£49
Car Lighter Adaptor	£29
External Keyboard	£25
Internal V32bis 14.4K Fax/Modem (non-approved) with software	£125
*Requires module exchange	

1 YEAR SUPPORT

All Perfecta Notebooks are covered by a FREE 12 Months Warranty in mainland UK.

APR **18.5%**

Finance calculation example: Cash Price: £969 + Carriage and VAT = £1152.68 Deposit 10% £115.27 and 36 equal monthly payments of £37.07 Total Price £1334.52. Finance is available subject to status. Be sure you can afford the payments prior to entering into an agreement

7000 Notebook Hard Disk Upgrades (Prices valid when purchasing Notebooks only)

UGA0530/A	340Mb to 540Mb HDD	£125
UGA0540/A	340Mb to 800Mb HDD	£249

Aries Perfecta MediaBook

The Ultimate Portable MULTIMEDIA Solution

The Aries MediaBook brings true multimedia capabilities to the notebook platform. Running a high performance Intel Pentium processor, MediaBook is the ideal presentation tool, with an optional MPEG module for video playback, a standard UHF output enabling you to display on any standard TV and PCMCIA slots for adding network adapters, etc.

Model	RAM	HDD	Cache	Dual Scan	TFT
Pentium P75	8Mb	510Mb	256K	£1749	£2178
Pentium P90	8Mb	510Mb	256K	£1849	£2248

ADDITIONAL OPTIONS

8Mb to 16Mb RAM Upgrade	£279	Docking Station	£345
8Mb to 32Mb RAM Upgrade	£759	Port Replicator Module	£125
510Mb to 1.0Gb Hard Drive	£198	Carry Case	£29
Dual Speed CD ROM Drive	£168	3yr Return-2-Base warranty (D/S)	£99
Quad Speed CD ROM Drive	£215	3yr Return-2-Base warranty (TFT)	£189



Processor	Intel Pentium processor (75/ 90/100MHz)
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Video	1Mb PCI bus video simultaneous display on LCD and external monitor/TV. Dual Scan Colour LCD : 10.4" 800 x 600 @ 256 colours. Active Matrix Colour LCD 10.4" 800 x 600 @ 64K colours
Storage	Removable Enhanced IDE hard disk drive - capacities from 340Mb to 1.0Gb. Integral 2X or 4X CD ROM drive (optional), can be replaced with a 3.5" floppy disk drive or secondary battery
PCMCIA	Built-in PCMCIA - two type 2 or one type 3 card.
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Power	Autosensing (110-240v) mains adaptor. Removable rechargeable NiMH battery. Second battery option (replaces CD or floppy drive)
Pointing	Built-in touchpad
Audio	Built-in 16-bit stereo sound, with integral speakers. Ports for external speakers and mic
Other...	EPA compliant Power Management System. Security lock feature.

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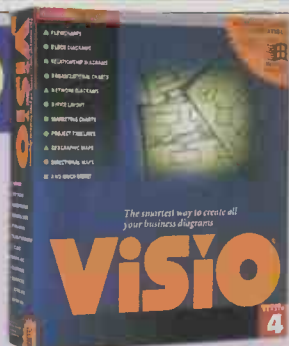
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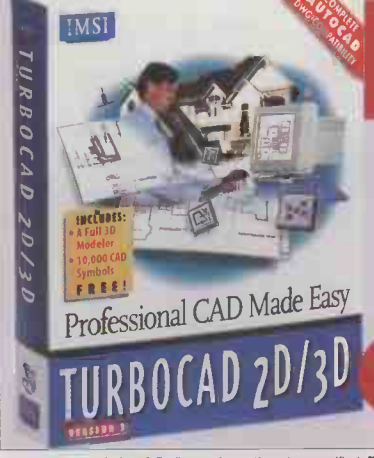
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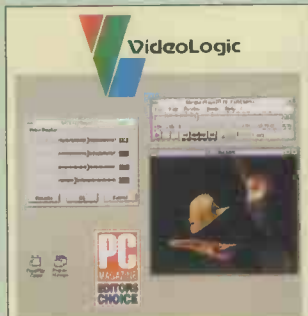
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3ft Six Pak	£15	Corel Photo CD Beautiful Women	£18	Dream Vacations in Hawaii	£6	Just Grandma And Me	£13	Pentonimo	£10	Time Table Of Arts Letter & Entertainment	£15
3ft Atlas	£29	Corel Photo CD Caribbean	£18	Education Platform	£8	Karaoke Macbeth	£15	Peter & The Wolf	£15	Time Table:Bus, Politics & Media	£11
5 Star Education Games	£11	Corel Photo CD Bonny Scotland	£18	Electronic Home Library	£12	KGB World Fact Book	£6	Pirates Gold (Microprose)	£12	Time Table:Science & Innovation	£14
7th Guest	£7	Corel Photo CD Brds I	£18	Encyclopaedia of Sound 2	£6	Kids Farm	£9	Pixel Gardens	£15	Tornado & Falcon 3	£15
20th Century Video Almanac	£29	Corel Photo CD Christmas	£18	EZ internet	£24	Kids Games	£9	Plant Doctor (Urban	£15	Total Baseball 1994	£6
Advanced Games	£5	Corel Photo CD English Countryside	£18	Family Doctor v3	£15	Kids Rhymes	£9	Phytonarian Handbook)	£15	Transport Tycoon (Microprose)	£15
Advanced Spelling Tricks	£19	Corel Photo CD Exotic Cars	£18	Font Elegance	£12	Lawnmower Man	£15	Putt Putt's Fun Pack	£14	Tropical Rainforest	£9
Americans in Space	£12	Corel Photo CD Fighters Jet	£18	Font Heaven	£15	Learning Adventure	£6	Putt Putt Joins The PARADE	£12	Twain's World	£20
Anecdotes Vol.1	£9	Corel Photo CD Fireworks	£18	Forever Growing Garden	£15	Learning Language through Games - French	£16	Quantum Gate	£12	US Air Power	£9
Anecdotes Vol.2	£9	Corel Photo CD Interior Design	£18	Full Bloom	£6	Learning Language through Games - German	£16	Railroad Tycoon (Microprose)	£9	US Fighter Jets	£9
Animals (San Diego Zoo)	£9	Corel Photo CD Ireland	£18	Game Arena	£6	Learning Language through Games - Spanish	£16	Rainbow Childrens Pack	£9	US Presidents	£15
Animation Tour	£12	Corel Photo CD Military Aircraft	£18	Game Jamboree	£9	Leaming Windows 3.1	£12	Return to Zork	£15	USA Wars - Civil war	£15
Apogee Games	£12	Corel Photo CD Oil Paintings	£18	Games '94	£6	Leaming Windows 3.1	£12	Russian Air Power	£9	USA Wars Korea	£9
Audubon's Birds	£6	Corel Photo CD Orchids of the World	£18	Games Pack I (Challenge Pack)	£9	Legend of Kyranida (Virgin)	£15	Secret Weapons of the Luftwaffe	£15	USA Wars - Operation Desert Storm	£19
Audubon's Mammals	£8	Corel Photo CD Ski Scenes	£18	Games Pack II	£12	Library of the Future 1st Ed.	£25	Russian Air Power	£9	USA Wars - World War II	£11
Author's Teacher Trouble	£19	Corel Photo CD Steam Trains	£18	Games Platinum	£5	MacMillan Children's Dictionary	£15	Russian Air Power	£9	Windows 1993: Corel Draw Util, BMP & CADs, Games, Clip Art & more	£15
Barney Bear Goes To School	£9	Corel Photo CD Underwater Life	£18	Gardening	£12	Mad Dog McCree 2	£8	Sherlock Holmes, Constig Det I	£15	World of Flight (Plane Pictures)	£10
Barney Bear Goes To Space	£9	Corel Photo CD Underwater Reefs	£18	GIGA Games (1K + Games)	£6	Mad Dog McCree 2	£8	Sherlock Holmes, Constig Det II	£15	World of Flight Simulators	£15
Berlitz Think & Talk French	£85	Corel Photo CD World War II	£18	Godzilla vs Megalon	£6	Magic Death 2	£8	Sing N Storytime	£15	World of Games	£15
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Berlitz Think & Talk Spanish	£85	Deathstar Arcade Battles	£8	Great Cities of the World I	£11	Mario Teaches Sums	£8	Software Vault Collection 2	£6	Wrath of the Demon	£8
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DRIVES - For full specification see chart below

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CPA2470

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Part No.	Read Only CD Drives	Read	Write	Access	Transfer	Loading	Interface	Int.	Ext.	
										ms
CPA2290	Aztech CDR1411	Six	-	190	900	Tray	IDE	£124	-	
CPA1990	Aztech 4X IDE	Quad	-	250	600	Tray	IDE	£88	-	
CPA0840	BackPack 4S	Quad	-	250	600	Tray	Parallel	-	£245	
CPA2650	Creative CD620e	Six	-	150	900	Tray	IDE	£116	-	
CPA1770	Goldstar GCDR540B	Quad	-	250	600	Tray	IDE	£88	-	
CPA0710	Mitsumi FX400	Quad	-	230	600	Tray	IDE	£86	-	
CPA0830	Nakamichi MBR-7 7CD Juke Box	Dual	-	380	330	Cart	SCSI	-	£239	
CPA0620	NEC 4X-IDE	Quad	-	190	600	Tray	IDE	£103	-	
CPA1870	NEC 6Xi	Six	-	150	900	Tray	SCSI 2	£259	-	
CPA1880	NEC 6Xe	Six	-	150	900	Tray	SCSI 2	-	£356	
CPA0910	Panasonic Travelspin	Dual	-	350	300	n/a	PCMCIA	-	£269	
CPA2370	Panasonic Quad IDE	Quad	-	200	600	Tray	IDE	£85	-	
CPA1790	Pioneer DRUA124X	Quad	-	150	600	Tray	IDE	£109	-	
CPA2110	Plextor 6Plex	Six	-	150	900	Caddy	SCSI	£275	-	
CPA2240	Teac CD56e	Six	-	190	900	Tray	IDE	£174	-	
CPA2390	Toshiba XM3701B	Six	-	150	900	Tray	SCSI	£249	-	
CPA0890	Toshiba XM5302B	Quad	-	195	600	Tray	IDE	£99	-	
CPA0720	Toshiba XM3601B	Quad	-	150	600	Tray	SCSI	£201	-	
CD Recorders/Writable CD's										
	Yamaha CDR100 CD Recorder	Quad	Quad	500	600	Caddy	SCSI 2	£1439	£1569	
	Yamaha CDR102 CD Recorder	Quad	Dual	500	614	Caddy	SCSI 2	£799	£899	
	HP SureStore 4020i	Quad	Dual	400	800	Tray	SCSI	£724	-	
	Panasonic LF1004 PD Optical	Quad	Quad	220	600	Caddy	SCSI	£488	-	

Sound Cards

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- Creative Blasterkeys £105
 - Creative MIDI Blaster £89
 - Creative Wave Blaster II £69
 - Sound Blaster 16 IDE Value £59
 - Sound Blaster 32 IDE £106
 - Sound Blaster AWE 32 IDE Value £95
 - Sound Blaster AWE 32 IDE PnP £149
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- UltraSound Max £125
 - UltraSound MIDI Kit £25
 - UltraSound PnP £104
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- Performance 32 6X £279
- Game Blaster AWE32 2X Value £149
- Multimedia Home CD 4X £265
- Discovery 2X £139
- Discovery 4X £189
- Game Blaster AWE32 Kit 4X £238
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- Creative Sound Blaster 16 Sound Card
- Stereo Speakers (upgrade to Hi-Fi £15)
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- Grolier's Encyclopedia ♦ MegaRace
- Aldus Photostyler SE
- National Geographic Spiders

CPA2900 Quad Speed .. £158
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AMAZING Networking Offers

GENIUS ETHERNET PRODUCTS

GE2000 II Ethernet Adapter

The GE2000 II is a 16-bit Ethernet card which is 100% Novell NE2000 compatible. Installation is simple - just plug in and run the easy to use setup software.

- ◆ BNC and UTP connections (AUI optional)
- ◆ 35% faster than Novell NE2000 card
- ◆ Supports NetWare, WFWG & TCP/IP

Single: £26 5 pack: £133

Personal NetWare & GE2000 Card
Genius GE2000 II Ethernet card and Novell Personal NetWare software*
SPECIAL OFFER PRICE £42

£55



E3000 II Parallel Port Adapter

The E3000 II is a parallel port Ethernet adapter offering higher performance than any similar priced model available.

- ◆ BNC and UTP connections as standard
- ◆ Through connection for local printer
- ◆ Simultaneous printer & LAN connectivity
- ◆ PS/2 mouse port power lead or mains PSU

Single: £55 5 pack: £260

NE3000 II PCMCIA Ethernet Card
A high performance Ethernet adapter for use in notebooks with a PCMCIA slot. Has both BNC and UTP connections.
SPECIAL OFFER PRICE £75

GE2500 PCI Ethernet Adapter

The GE2500 is a new high performance Ethernet adapter for use in PCI based computers. Uses bus mastering for low CPU & Bus utilization, thus improving overall performance.

- ◆ BNC and UTP connections (AUI option)
- ◆ Software configurable & auto media detect
- ◆ Supports NetWare, WFWG, PCNFS & TCP/IP

Single: £59 5 pack: £279



GH4080/GH4160 Ethernet Hubs

The GH4080 and GH4160 are compact, stylish UTP Ethernet hubs, providing either 8 or 16 ports. The units are ideal for small to medium size workgroup applications.

- ◆ 8 or 16 UTP ports, 1x BNC connection
- ◆ Compact size and very lightweight
- ◆ Daisy chain port for stacking hubs together
- ◆ LED indicators display port status

GH4080: £79 GH4160: £149

GE2000 PnP Ethernet Adapter

The GE2000PnP is a 16-bit NE2000 compatible Ethernet adapter which support the new Plug & Play standard, and is ideal for use with MS Windows 95 operating system.

- ◆ Plug & Play NE2000 compatible card
- ◆ BNC and UTP connectors as standard
- ◆ Supports NetWare, WFWG, PCNFS & TCP/IP
- ◆ Full duplex transmission

Single: £33 5 pack: £157



£33

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ETHERNET CABLING

Length	1m	3m	5m	10m	15m	20m	30m	50m	100m	300m
Thin Ethernet	£3	£5	£6	£9	£12	£15	£22	£27	£32	£115
UTP	£3	£6	£9	£11	£13	£16	£19	£27	-	£122

UPS SYSTEMS

BackUPS Series (Offline)

BK280 - 280VA	£95
BK600 - 600VA	£157

SmartUPS Series (Line Interactive)

SU250 - 250VA	£168
SU700 - 700VA	£225
SU1000 - 1KVA	£388
SU1400 - 1.4KVA	£597
SU2200 - 2.2KVA	£995

PowerChute Plus software (state OS) from £45

Hewlett Packard

PowerWise L600 - 600VA Backup UPS	£249
PowerWise L900 - 900VA Backup UPS	£389
PowerWise 1000VA Smart UPS	£629
PowerWise 2100VA SmartUPS	£949
PowerWise Assistant software	from £89

TOOLS & CONNECTORS

Connectors	1-9	10+
50ohm BNC Male Crimp Plug	£0.95	£0.85
50ohm BNC T-connector	£1.70	£1.60
50ohm BNC In-line Coupler	£1.65	£1.60
50ohm BNC Terminator	£0.90	£0.80
50ohm BNC Terminator & Earth	£1.20	£1.10
RJ45 Male Crimp Plug	£0.35	£0.30

Thin Ethernet Socket Systems

Safertap Outlet - surface or flush mount	£18
Safertap 2.5m drop lead	£17
Safertap Outlet & 2.5m drop lead	£33
AMP Thinnest Tap Outlet	£17
AMP Thinnest Tap 2.5m drop lead	£15

UTP Cabling Accessories

Dual RJ45 Outlet - flush mount	£14
24way 19" RJ45 Patch Panel	£124

Tools and Accessories

Thin Ethernet BNC Crimp Tool	£12
Thin Ethernet Cable Stripper	£7
RJ45 Crimp Tool	£12
Round Cable Stripper	£11

Note: above are for use with Novell NetWare only

NOVELL NETWARE

No of Users	5	10	25	60	100	250	Manuals
NetWare 3.12	£385	£945	£1351	£1940	£2540	£4575	£155
NetWare 4.1 CD	£420	£952	£1436	£2033	£2865	£5950	£135

Education and Upgrade Packs available - call 01582 745555 for details

ETHERNET ADAPTERS

16-bit ISA Ethernet Adapters	Connections	SingleCard Pack	Five Card Pack
3Com Etherlink III - 3C509B	BNC	CNA0610 £64	CNA1900 £305
3Com Etherlink III - 3C509B-Combo	BNC/UTP/AUI	CNA0630 £73	CNA1920 £315
Aries NE2000 II	BNC/UTP	CNA0040 £22	CNA1710 £104
D-Link DE-220CT	BNC/UTP	CNA1570 £65	CNA1730 £379
Genius GE2000 II	BNC/UTP	CNA1130 £26	CNA0940 £123
Genius GE2000 Plug & Play	BNC/UTP	CNA2130 £33	CNA2140 £157
Intel EtherExpress Pro 10	BNC/UTP	CNA1260 £62	CNA1270 £289
Intel EtherExpress Pro 10 Flash	BNC/UTP	CNA1280 £69	CNA1290 £319
Novell NE2000+	BNC	CNA1510 £48	CNA1200 £215
Novell NE2000+	UTP	CNA1250 £48	CNA2080 £344
SMC Elite 16C Ultra	BNC/UTP/AUI	CNA0890 £62	CNA1210 £344
SMC EtherZ	BNC/UTP	CNA2620 £62	CNA2660 £335
32-bit EISA Ethernet Adapters			
3Com Etherlink III - 3C579B	BNC/AUI	CNA0710 £139	CNA1950 £675
3Com Etherlink III - 3C579B-TP	UTP/AUI	CNA0720 £139	CNA1960 £675
Genius E1320	BNC/UTP/AUI	CNA1370 £145	CNA0980 £759
Intel EtherExpress 32C Flash	BNC/UTP	CNA1420 £155	
SMC EtherPower	BNC/UTP	CNA2160 £179	CNA2170 £799
MCA (PS/2) Ethernet Adapters			
3Com Etherlink III - 3C529B	BNC/AUI	CNA0730 £139	CNA1930 £709
3Com Etherlink III - 3C529B-TP	UTP/AUI	CNA0740 £139	CNA1940 £709
Genius E1162M	BNC/UTP/AUI	CNA1360 £129	CNA0960 £699
32-bit PCI Ethernet Adapters			
3Com Etherlink III - 3C590B-Combo	BNC/UTP	CNA0430 £98	CNA0440 £439
D-Link DE-530CT	BNC/UTP	CNA2710 £78	
Genius GE2500	BNC/UTP	CNA2110 £59	CNA2120 £279
Intel EtherExpress Pro/10	BNC/UTP	CNA2180 £109	
SMC EtherPower	BNC/UTP	CNA1240 £89	CNA2700 £425
Parallel Port Ethernet Adapters			
D-Link DE-620CT	BNC/UTP	CNA1660 £89	
Genius E3000 II	BNC/UTP	CNA1145 £55	CNA1230 £260
SMC EliteNote	BNC/UTP	CNA1630 £149	
PCMCIA Ethernet Adapters			
3Com Etherlink III - 3C589B-Combo	BNC/UTP	CNA1490 £124	
D-Link DE-650CT	BNC/UTP	CNA2720 £95	
Genius ME3000 II	BNC/UTP	CNA1620 £72	CNA1770 £352
SMC EliteCard	BNC/UTP	CNA2630 £123	

HUBS/REPEATERS

3Com	TP	BNC	AUI	SNMP	Price
LinkBuilder TP12	12	-	1	-	£229
LinkBuilder FMS II	12	opt	1	opt	£389
Aries					
EH-8	8	1	-	-	£119
EH-16	16	1	1	-	£279
EH-32	32	1	1	-	£435
Genius					
GH4080 Palmtop	8	1	-	-	£79
GH4160 19" rack	16	1	-	-	£149
GH1000 19" rack	12	1	1	opt	£249
GR5050 Palmtop	-	3	1	-	£115
ER5020 19" rack	-	2	2	-	£122
ER5040 19" rack	-	4	4	-	£225
Hewlett Packard					
AdvanceStack 8U	8	opt	opt	opt	£135
AdvanceStack 12U 12	12	opt	opt	opt	£349
AdvanceStack 24U 24	24	-	1	-	£589
SMC					
Elite 3812TP	12	1	1	opt	£399
Tiger TP6	6	-	1	-	£145
Tiger TP12	12	-	1	-	£244
Tiger CX3	-	3	1	-	£219

PEER TO PEER NETWORKING

MS Windows 95 Networking Kits

Thinking of upgrading to the new Windows 95 and also networking your PCs? Why not take advantage of these special packs we have put together at very special prices.

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Net95 Kit 3 - 5 User Upgrade Kit	£399
Net95 Kit 4 - Additional User Upgrade Kit	£85

All kits include Ethernet card, software, 5m cables and connectors

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Link up to 30 PCs with Novell's low cost peer-to-peer software, and have shared access to hard disks, printers, CD ROM all at the click of a mouse button. With support for both DOS and MS Windows, it is the ideal solution for small scale installations.

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NePW Kit 2 - 5 User Kit	£210
NePW Kit 3 - Additional User Kit	£49
NePW Kit 4 - 1 User Notebook Kit	£109

All kits include Ethernet card, software*, 5m cables and connectors

ETHERNET TRANSCEIVERS

Excel 10base2 BNC Transceiver	£22
10baseT RJ45 Transceiver	£22
Genius	
E6000 10baseT RJ45 Transceiver	£22
E6001 10base5 "N" Transceiver	£26
E6002 10base2 BNC Transceiver	£22
E6003 10base5 Tap Transceiver	£38

PRINTER SERVERS

Genius GPS300 Print Server

The GPS300 Pocket Print Server is the ideal solution to your NetWare printing requirements. It is a compact pocket sized unit which plugs directly into the Centronics port on your printer and connects directly to your network via BNC or RJ45 UTP connections.

Special Offer Introductory Price: £99

Hewlett Packard	
JetDirect - Internal for LJ4/4SI	£277
JetDirect - External	£225
D-Link	
DE950 External	£285
Intel	
NetPort Express EL	£245
NetPort Express XL	£285

Note: above are for use with Novell NetWare only

NETWORKING SOFTWARE

Lotus cc:Mail R2.0 Mobile WIN	£109
Lotus cc:Mail R2.0 Desktop WIN	£65
MS Windows for Workgroups v3.11	£89
MS Windows for Workgroups Add-On WIN	£41
MS Windows for Workgroups Add-ON DOS	£43
MS Windows NT v3.5 Server	£595
MS Windows NT v3.5 Workstation	£225
MS Mail v3.2 PC Server	£299
Novell Personal NetWare - 1 User	£45
Sage MainLan v4 - 1 User	£49



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Brother HL660	6ppm	£315	
Brother HL631	6ppm	£338	
Brother HL 1260*	12ppm	£875	
Canon LBP430W	4ppm	£354	
Canon LBP460	4ppm	£275	
Canon LBP1260	12ppm	£885	
Epson EPL3000*	4ppm	£335	
Epson EPL5500*	5ppm	£359	
Epson EPL9000	8ppm	£1179	
Epson EPL9000PS	8ppm	£1486	
HP LaserJet 4MV	16ppm	£2046	
HP LaserJet 4V	16ppm	£1412	
HP LaserJet 4+	12ppm	£965	
HP LaserJet 4M+	12ppm	£1284	
HP LaserJet 5L	4ppm	£344	
HP LaserJet 5P	6ppm	£590	
HP LaserJet 5MP	6ppm	£738	
HP LaserJet 5Si	24ppm	£2075	
HP LaserJet 5Si MX	24ppm	£2989	
HP LaserJet Colour	8ppm	£4175	
Kyocera FS400 S/Bin	4ppm	£346	
Kyocera FS400 D/Bin	4ppm	£489	
Kyocera FS1550		£852	
Kyocera FS1600		£1045	
NEC SuperScript 610+*	6ppm	£265	
NEC SuperScript 6601*	6ppm	£555	
NEC SuperScript Colour 3000*		£655	
OKI OL600ex*	6ppm	£296	
OKI OL610ex*	6ppm	£372	
OKI OL810ex*	8ppm	£649	
OKI OL850 PS*	8ppm	£1125	
OKI OL1200ex*	12ppm	£966	
Panasonic KX-P4430**	5ppm	£450	
Panasonic KX-P4440**	10ppm	£685	
Panasonic KX-P6100	5ppm	£269	
Panasonic KX-P6150	6ppm	£305	
Panasonic KX-P6500	6ppm	£346	
Star Win Type 4000	4ppm	£286	

On-site warranty: * = 1 Year ** = 2 Years

LASER RAM UPGRADES

Type	1M	2M	4M	8M
Brother HL630	£85	-	-	-
Brother HL631	£70	-	-	-
Canon LBP4j	£115	£279	-	-
Canon LBP8 IV	£115	£299	-	-
EPL4100/4300	£69	£120	£225	-
EPL5200/5600	£49	£115	£199	-
HP III/IIIP/IIID	£65	£112	£145	-
HP II/IID	£70	£115	£125	-
HP IIISi	-	£85	£129	£229
HP 4/4M/4P/4MP	-	-	£109	£215
HP 4L/4ML	£59	-	-	-
HP 5L	£65	£110	£155	-
KX-P4410/4430	£99	£199	-	-
KX-P4420/4450i	£65	£109	£165	-
KX-P4400/5400	£75	£110	£165	-
OKI OL400e	£108	£118	-	-
Star LPS	£138	£225	-	-
Star LS5	£75	-	-	-

LASER CONSUMABLES

Type	Toner	Drum	Dev
Brother HL600 Series	£22	£99	-
Canon/Star 4s	£51	-	-
Canon LBP-8 IV	£85	-	-
Canon LBP-8III	£46	-	-
EPL4000/4100/4300	£89	£117	-
EPL5200	£105	-	-
EPL7100/7500/8100	£147	-	-
Fujitsu VM600	£85	-	-
Fujitsu VM800	£115	-	-
Fujitsu VM4	£29	£149	£89
HP III/IIIP/IIID	£47	-	-
HP IIP/IIIP	£51	-	-
HP IIISi/4Si/MX	£75	-	-
HP 4/4+/4M	£65	-	-
HP 4L/4ML/4P/4MP	£45	-	-
HP 4V/MV	£109	-	-
HP 5L	£39	-	-
HP 5P/5MP	£54	-	-
Kyocera FS400	£16	-	-
NEC 610	£69	-	-
NEC S60/60P/62P/90/95	£105	-	-
OKI OL400/800	£19	£165	-
OKI OL400e	£17	£129	-
KX-P4410/30	£27	£89	£90
KX-P4440	£32	£108	£115
KX-P4420	£24	£57	£57
KX-P4450/50i/51/55	£19	£75	£80
KX-P4400/5400	£10	£55	-
KX-P6100/6150	£11	£98	-
Qume Crystalprint	£99	£189	-
Star LS-5	£83	-	-
Star Wintype	£68	-	-

LASER ACCESSORIES

Postscript Upgrade for LaserJet 4	£270
Postscript Upgrade for LaserJet 4P	£225
LaserJet 4 Lower Paper Cassette	£205
LaserJet 4 JetDirect Ethernet Card	£339
Ozone filter for KX-P4420	£9
Ozone filter for KX-P4450/4455	£20
Envelope Feeder for LaserJet 4	£199
LaserJet III FX/IBM Emulation Cart	£79

9PIN MATRIX PRINTERS

Citizen 1200+Parallel	80col	£98
Citizen 120D+Serial	80col	£109
Epson LX300	80col	£95
Epson LX1050+	132col	£181
Epson FX870	80col	£237
Epson FX2170	132col	£371
Epson DFX5000+	132col	£1145
Panasonic KX-P1150	80col	£89
Panasonic KX-P3696	80col	£259
Star LC15	132col	£189
Star LC100C	80col	£95
Star LC90	80col	£78
Star ZA200	80col	£268
Star ZA250	132col	£335

24 PIN MATRIX PRINTERS

Citizen ABC Mono	80col	£101
Citizen ABC Colour	80col	£123
Citizen Swift 200 Mono	80col	£138
Citizen Swift 200 Colour	80col	£146
Citizen Swift 330X	132col	£309
Epson LQ300	80col	£123
Epson LQ570+	80col	£209
Epson LQ870	80col	£370
Epson LQ1070+	132col	£291
Epson LQ1170	132col	£425
Epson LQ2170	132col	£465
Epson DLQ3000	132col	£779
NEC P3Q	132col	£188
NEC P62	80col	£315
NEC P72	132col	£385
Panasonic KX-P2023	80col	£110
Panasonic KX-P2124	80col	£191
Panasonic KX-P2135 Colour	80col	£124
Panasonic KX-P3626	132col	£258
Star LC24-15 II	132col	£230
Star LC240 Mono	80col	£89
Star LC240 Colour	80col	£108
Star XB24-200 Colour	80col	£332
Star XB24-250 Colour	132col	£399

RIBBONS/INK CARTRIDGES

Manufacturers Original Ribbons Only

Type	Black	Colour
Canon BJ10ex/BJ10sx	£13	-
Canon BJ30	£10	-
Canon BJ200/BJ230	£15	-
Canon BJ300/BJ330	£11	-
Canon BJC70	£9	£14
Canon BJC600	£9	£6.50
Canon BJC800	£14	£18
Canon BJC4000 Ink Tank	£7	£13
Citizen 120D+	£4	-
Citizen Swift 200/240/ABC	£4	£11
Citizen Swift 24X	£8	£18
Epson LX100	£4.45	-
Epson LX400/LX850/FX870	£3.95	-
Epson LX1050/FX1170	£4.95	-
Epson LQ100	£5.35	-
Epson LQ150	£5.35	£15.25
Epson LQ570/870	£4.50	-
Epson LQ1070/1170	£5.40	-
Epson LQ2550	£8	£16.20
Epson SQ870/SQ1170	£26	-
Epson Stylus Colour	£12.10	£25
Epson Stylus Colour II/III	£13.95	£19.80
Epson Stylus 800/1000	£9	-
Epson Stylus 820	£13.95	-
Fujitsu B100/B200	£18	-
HP DeskJet 500 Series	£19	£21
HP DeskJet 600/660	£20	£23
HP DeskJet 850	£22	£20
HP DeskJet 310/320	£13	£21
HP DeskJet 1200C	£19	£23
HP DeskJet 1600	£22	£23
HP PaintJet	£16	£18
HP PaintJet XL300	£16	£18
Kaga/Taxan KP810/815	£5	-
NEC P3Q/P32Q	£8	-
NEC P62/72/90	£8	£14
Panasonic 1150/1170/1180	£7	-
Panasonic 2180/2324/35	£7	£14
Panasonic 1624/2624	£8	-
Panasonic KXP3626/3696	£11	-
Star LC10/LC20/LC100	£5	£9
Star LC100/200	£5	£11
Star LC24-20/24-100/24-200	£5	£12
Star LC24-30	£8	£12
Star XB24/ZA200/ZA250	£5	£12
Star SJ48	£15	-
Star SJ144 Thermal	£6	£8

INKJET PRINTERS

Canon BJ30	80col	£139
Canon BJ230	132col	£237
Canon BJ300	80col	£349
Canon BJ330	132col	£388
Canon BJC70	80col	£217
Canon BJC600e	80col	£310
Canon BJC610	80col	£313
Canon BJC800	32col	£969
Canon BJC820	32col	£1195
Canon BJC4000	80col	£217
Citizen ProJet IIC	80col	£205
Citizen Printiva 600C	80col	£310
Epson Stylus 820	80col	£164
Epson Stylus Colour Pro A4	80col	£418
Epson Stylus Colour Pro XL	132col	£829
Epson SQ1500	132col	£90A
Epson Stylus 1500	132col	£553
Epson Stylus Colour IIs	80col	£189
Epson Stylus Colour II	80col	£251
HP DeskJet 340 Mono	80col	£169
HP DeskJet 600 Mono	80col	£184
HP DeskJet 660C	80col	£243
HP DeskJet 850C	80col	£330
HP DeskJet 1200C	80col	£628
HP DeskJet 1200C PS	80col	£984
HP DeskJet 1600	80col	£830
HP OfficeJet LX	80col	£493
Lexmark ExecJet IIC	80col	£199
Lexmark WinWriter 100	80col	£265
OKi OJ300 Colour	80col	£226
OKi OL2010 Colour	80col	£255
Star SJ144	80col	£178
Star Wintype 800C Thermal	80col	£592

SHEET FEEDERS

Canon BJ10ex/BJ10sx	£40
Canon BJ300	£86
Canon BJ330	£96
Citizen Swift 24/200/240	£75
Epson LX400	£69
Epson LQ570/LQ870	£47
Epson LQ1070/LQ1170	£89
HP DeskJet 310/320	£88
NEC P20/P220	£59
NEC P3Q/P32Q	£85
Panasonic 1170/1180/1123	£59
Panasonic 1124i/1124/2124	£79
Panasonic 1824/2824	£128
Panasonic KX-P2135	£30
Star LC100	£69
Star LC240	£69
Star LC220/LC24-200	£69

INKJET REFILL PACKS FOR

◆ Canon BJ10ex/BJ10sx - 2 pack	£10
◆ Canon BJ10ex/BJ10sx - 5 pack	£24
◆ Canon BJ10ex/BJ10sx 1 Original Cart & 3 refills	£36
◆ Canon BJ200 2 refills	£34
◆ Epson SQ870/1170 - 2 refills	£9
◆ HP DeskJet Std capacity - 2 pack	£8
◆ HP DeskJet Std capacity - 5 pack	£20
◆ HP DeskJet Std capacity black Cart +3 Std capacity refills	£30
◆ HP DeskJet Hi-capacity - 2 pack	£17
◆ HP DeskJet Hi-capacity - 5 pack	£35
◆ HP DeskJet Colour Cart & 1 each (3) colour refills	£39

ACCESSORIES

Citizen Swift 200/240/ABC Colour Kit	£32
Canon BJ10sx Battery Pack	£32
Epson OK Serial Interface	£29
Epson 8K Serial Interface	£75
Epson 32K Serial Interface	£95
Epson LQ100 Tractor Unit	£29
Epson LX300 Colour Kit	£29
Epson Stylus 820 Colour Kit	£75
HP DeskJet FX Emulation Cartridge	£49
HP DeskJet IBM Emulation Cartridge	£57
HP DeskJet 500 256K RAM Cartridge	£75
HP DeskJet 320 Battery Pack	£33
HP DeskJet 320 Carry Case	£49
HP DeskJet 320/540 Colour Kit	£28
HP DeskJet 320 Parallel Cable	£12
HP DeskJet 600 Colour Kit	£29
HP DeskJet Prestige Elite Fonts	£55
HP DeskJet Letter Gothic Fonts	£56
Panasonic Serial Interface	£49
Panasonic 32K Buffer	£18
Panasonic 2180/2123 Colour Kit	£30
Star 8K Serial Interface - LC Range	£52
Star 8K Serial Interface - XB Range	£39
Star 32K Buffer - LC24/XB24	£52
Dustcovers for 80col printers	£6
Dustcovers for 132col printers	£9

SPECIAL OFFERS

◆ 80 col Perspex Printer Stand	£7
◆ 132 col Perspex Printer Stand	£10
◆ 80 col Printer Stand	£8
◆ 132 col Printer Stand	£12

LUTON STORE

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Tel: 01582 745555

WATFORD STORE

250 Lower High Street, Watford, Herts.
Tel: 01923 237774

HP On-Site Warranty Packs

Model	1yr	3yr
Mono DeskJet/Deskwriter	£32	£40
Colour DeskJet/Deskwriter	£45	£65
LaserJet 4L/ML DJ1200/1600	£78	£90
LaserJet 4+/4M+	£135	£160
LaserJet 4V/4MV	-	£200
LaserJet 5P/5MP	-	£130

PRINTER SHARER/BUFFER

Manual Printer Sharers

Type	Serial	Parallel
2In/1out	£12	£13
2In/2out	£28	£29
3In/1out	£15	£17
4In/1out	£24	£26

Auto Parallel Printer Sharer Buffers

Type	OK	256K	1Mb
2In/1out	£29	-	-
2In/2out	-	£105	£134
4In/1out	£45	-	-
4In/2out	£89	£124	£149
8In/1out	£79	-	-

Auto Serial Printer Sharer Buffers

Type	OK	256K	1Mb
2In/1out	£27	-	-
2In/2out	-	£124	-
4In/1out	£44	-	-
4In/2out	£69	£147	-
8In/1out	£62	-	-

RAM Expansion for above Auto Sharers

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256K SVGA Card	ISA	£18
512K SVGA Card	ISA	£24
1Mb Super VGA	ISA	£41
1Mb SuperVGA	VLB	£49

Diamond		
1Mb Stealth SE		£65
1Mb Stealth 64 Video DRAM		£85
2Mb Stealth 64 Video DRAM		£124
2Mb Stealth 64 Video VRAM		£189
4Mb Stealth 64 Video VRAM		£299

Please specify PCI or VL Bus when ordering

1Mb Edge 3D 2120XL DRAM	PCI	£215
2Mb Edge 3D 2200XL DRAM	PCI	£255
2Mb Edge 3D 3240XL VRAM	PCI	£309
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- | | | |
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| 2Mb Millennium | PCI | £205 |
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2Mb 9FX Vision 330 DRAM		£119
1Mb 9FX Motion 531 DRAM		£118
2Mb 9FX Motion 531 DRAM		£155
2Mb 9FX Motion 771 VRAM		£218
4Mb 9FX Motion 771 VRAM		£315
4Mb Imagine 128 1280 VRAM		£469
4Mb Imagine 128 1600 VRAM		£605
8Mb Imagine 128 1600 VRAM		£1029

Please specify PCI or VL Bus when ordering

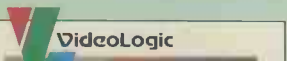
Orchid		
1Mb Kelvin EZ	VLB	£76
1Mb Kelvin 64	PCI	£86
2Mb Kelvin 64	ISA	£119
2Mb Kelvin 64	PCI	£113
1Mb Fahrenheit 64	PCI or VLB	£119
2Mb Fahrenheit 64	PCI	£130
2Mb Fahrenheit Pro 64	PCI or VLB	£205
4Mb Fahrenheit Pro 64	PCI	£289

Please specify PCI or VL Bus when ordering

STB		
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2Mb Powergraph 64 DRAM		£145
2Mb Velocity 64 MPEG VRAM		£208
4Mb Velocity 64 MPEG VRAM		£319
2Mb Nitro 64 DRAM PCI		£143

ATI		
1Mb Graphic Expression DRAM		£95
2Mb Graphic Expression DRAM		£129
2Mb Graphic Expression VRAM		£175
4Mb Graphic Expression VRAM		£299

Please specify ISA, VL or PCI when ordering



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<i>Graphics 700</i>		
WINDOWS '95 COMPATIBLE		
1Mb GrafixStar 300		£97
2Mb GrafixStar 300		£135
1Mb GrafixStar 500		£132
2Mb GrafixStar 500		£185
2Mb GrafixStar 700		£235
4Mb GrafixStar 700		£359
VMC Controller		£38

Please specify PCI or VL Bus when ordering

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Aries VGA Monitors

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EnergyPro 14" LR SuperVGA
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Aries EnergyPro 17" Monitors
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CTX Multiscan Monitors		
1451LR	14"	£169
1565GN	15"	£235
1765GM	17"	£435
1785GM	17"	£495

Hitachi Multiscan Monitors		
17MXV	17"	£468
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XV17	17"	£549
XE17	17"	£676
XE21	21"	£1315

Panasonic Monitors - 2yr On-site warranty		
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TX-D1733	17"	£449
TX-D1733F	17"	£520
TX-D1751	17"	£599
TX-D2051	20"	£869
TX-D2151	21"	£1149

Philips Multiscan Monitors		
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15B	15"	£255
17C	17"	£415

Sony Multiscan Monitors		
CPD-15SF1	15"	£299
GDM-17SE1	17"	£783
GDM-20SE1VT	20"	£1295
GDM-20SE1	20"	£1395

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EV 410LR	14"	£189
EV 580LR	15"	£259
EV 895LR	17"	£795
EV 1080LR	20"	£869
EV 2100LR	21"	£1489

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1Mb	£188		

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512K	£64	1Mb	£88
2Mb	£138		
4Mb	£255		

Parallel Interface Link	£23
Psi Win RS232 Serial Link	£62
RS 232 Serial Link for Mac	£55
Fax Modem for Series 3A	£158
Mains Adapter 9V AC	£11
Professional Finance	£38
Spelling Checker/Thesaurus	£29
Spreadsheet	£24
Finance Pack	£49
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Desk Stand	£14
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DJ-50 1.4Gb Internal	£169
T1000 800Mb Internal	£99
JT-35 350Mb External	£139
JT-25 680Mb External	£193
T1000e 800Mb External	£125

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KE-10 ISA External Kit	£59
KE-15 PC/2 External Kit	£77
FC-20 Fast Tape Controller	£46
TC-15 Fast Cont. with H/Ware Comp	£109
SK7 Windows Backup Software	£39
SK1 OS/2 Backup Software	£59

Iomega Storage Solutions

Tape700 680Mb Internal	£114
Tape700 680Mb External	£185
Ditto800 800Mb Internal	£114
Ditto800 Easy 800Mb Parallel Port	£129
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Ditto3200 3.2Gb External	£295
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HP SureStore Tape Drives

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SureStore 2000 2Gb External	£598
SureStore 5000 5Gb Internal	£604
SureStore 5000 5Gb External	£679

Conner TapeStar Tape Drives

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TST800 800Mb Travan-Internal	£109
TST800 800Mb Travan-Parallel	£184
TST3200 3.2Gb Travan-Internal	£184

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DC6250	£16	DC2120XL	£10
MC3000 XL	£15	Travan TR1	£23
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4mm 2Gb 5pk	£47	100Mb ZIP	£14
D8-112 2.3Gb 8mm	£9		

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CDA0040 3.5" 1.44Mb Floppy Drive	£21
CHA0060 5 head Floppy Drive cable	£5
CGA0550 5.25" Fixing Kit	£5

3.5" EXCEL DISKS

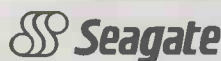
Pre-formatted Lifetime Warranty		
High Quality (65 Clip Rate Disks)		
10 x DSHD Black	£4	
10 x DSHD Multicolour	£5	
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EZ135	135Mb IDE Internal	£145
EZ135	135Mb SCSI External	£175
	Cartridge for EZ135	£17
SQ3270A	270Mb IDE Internal	£252
SQ3270S	270Mb SCSI Internal	£245
SQ327	270Mb Cartridge	£51

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Single 40w Internal IDE cable	£6
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ST9816AG	810Mb	2.5"	16ms	£275
ST3630A	630Mb	3.5"	14ms	£POA
ST51080A	1.0Gb	3.5"	10ms	£179
ST51270A	1.2Gb	3.5"	10ms	£165
ST32140A	2.1Gb	3.5"	10ms	£POA

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ST32430N	2.1Gb	3.5"	12ms	£535
ST32550N	4.2Gb	3.5"	12ms	£999

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Conner				
CFS635A	635Mb	12ms	3.5"	£128
CFS850A	850Mb	12ms	3.5"	£136
CFS1275A	1.27Gb	11ms	3.5"	£176
CFS1621A	1.6Gb	11ms	3.5"	£229

Fujitsu				
M1606T	1.08Gb	12ms	3.5"	£159

Maxtor				
7850AV	850Mb	12ms	3.5"	£135
71626A	1.6Gb	11ms	3.5"	£229
71084A	1.08Gb	11ms	3.5"	£159

MxWE850				
MxWE850	850Mb	12ms	3.5"	£158
MxWE1600	1.6Gb	11ms	3.5"	£259

Quantum				
Trailblazer	850Mb	12ms	3.5"	£139
1208AT	1.2Gb	11ms	3.5"	£179

Western Digital				
AC2635	635Mb	10ms	3.5"	£127
AC2850	850Mb	10ms	3.5"	£139
AC31200	1.2Gb	10ms	3.5"	£179
AC31600	1.62Gb	10ms	3.5"	£275

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IBM				
DPRA20810	810Mb	11ms	2.5"	£329
DPRA21215	1.2Gb	11ms	2.5	

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Motorola
3400 On-Line Internet Solution £168
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Netlink V.32 £79
Netlink Gold V.34 £164

Please state internal or external when ordering
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GOA0780Linnet 34 FX £157
GOA1020Microlin FX34 Pocket £155
GOA1070Microlin FX34 Internal £155
GOA1030Microlin NB34 PCMCIA £195
GOA0260Ultalink 32 £329



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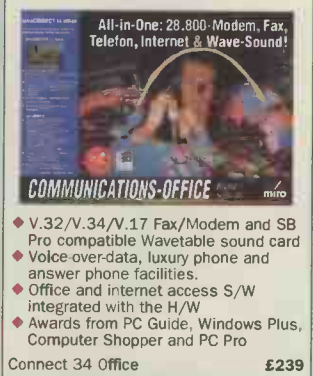
Sportster Vi14,400 Fax/Modem £95
Sportster 28,800 Internet Special £157 £157
Courier V.34 £238 £238
Sportster 28800 Xjack PCMCIA £156 £156

Modem Connecting Cable
25 Male - 25 Female 2m £7
25 Male - 9 Female 2m £8

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Mini Tower Case with PSU £33
Midi Tower case with PSU £58
Full Tower Case with PSU £74
Slim Line (Desk) Case with PSU £44
Desk Top Std Case with PSU £33
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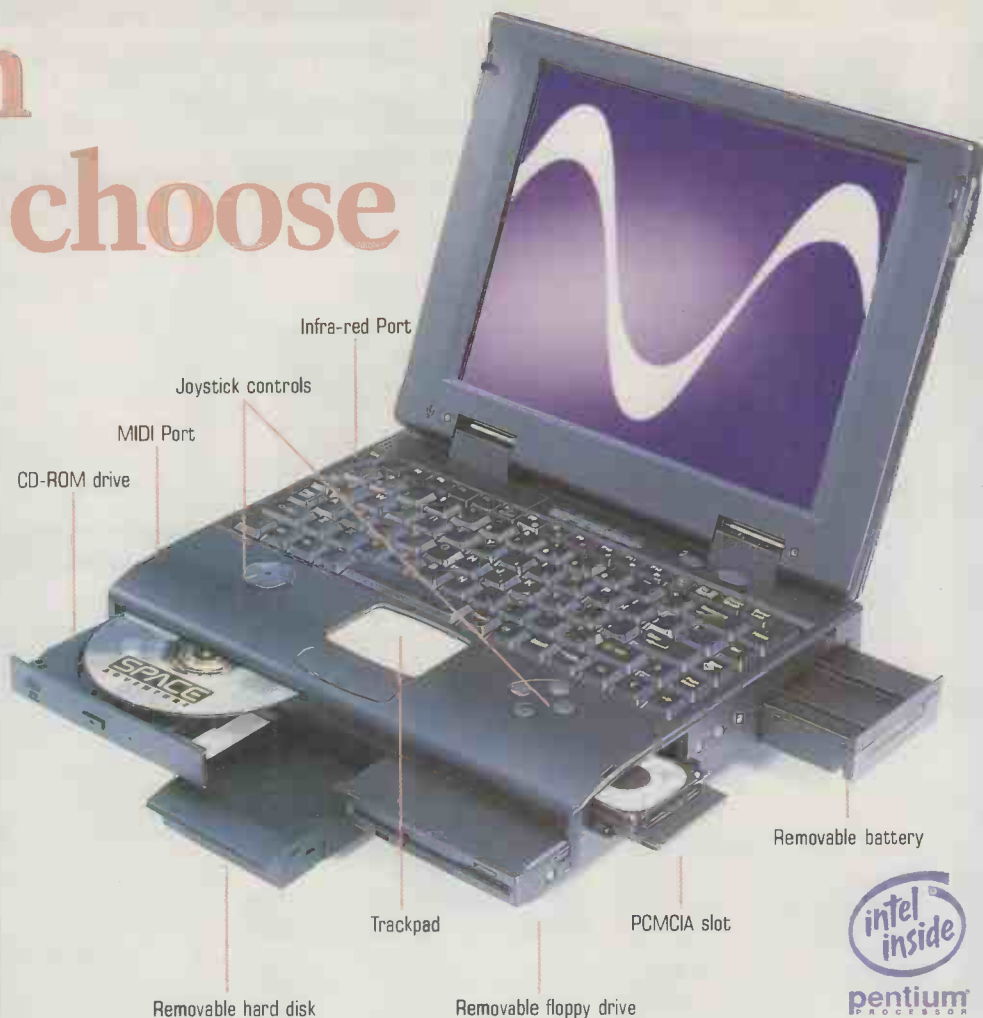


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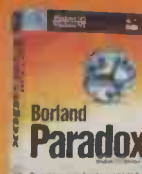
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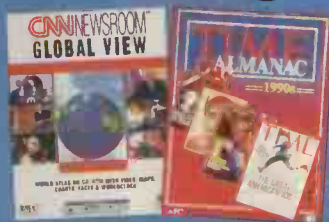
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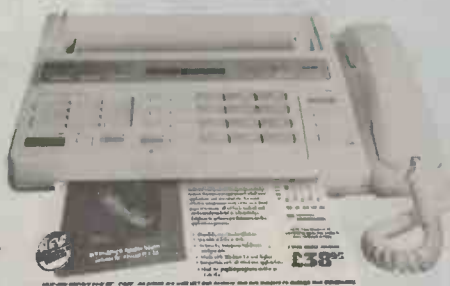
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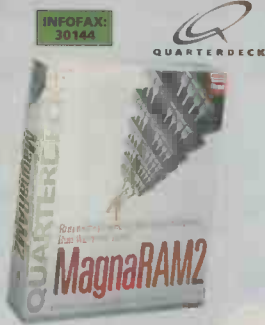
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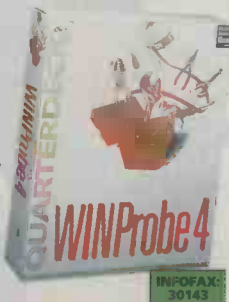
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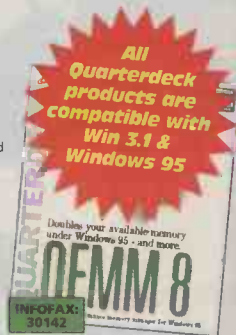
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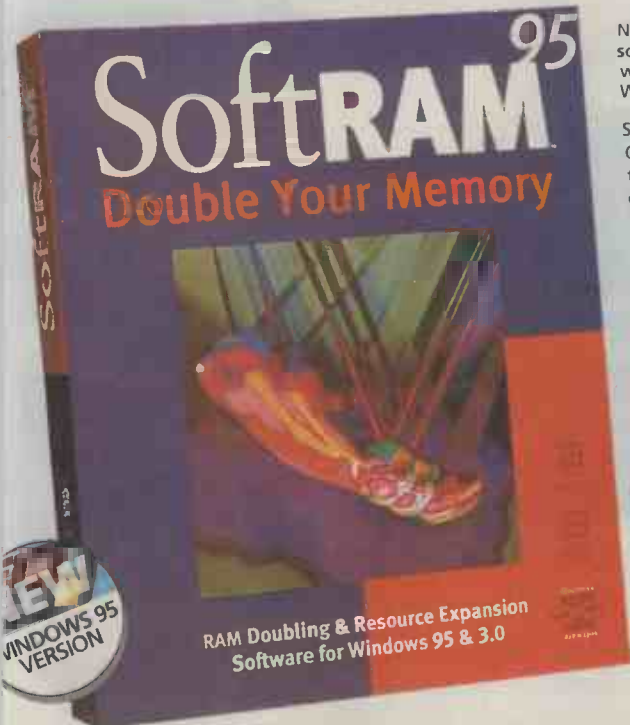
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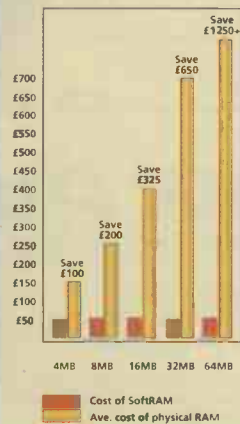
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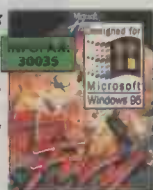


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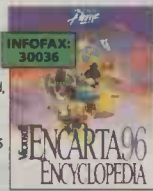
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MIC269 Home Cooking with Master Chefs **£22**

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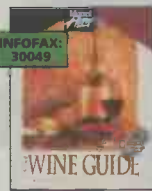
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This powerful companion to Windows 95 adds a whole new range of utilities like intelligent "Agents", disk compression, exciting fonts and backgrounds, internet browser and much more.



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Money 4.0

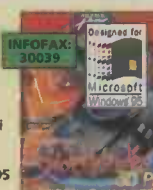
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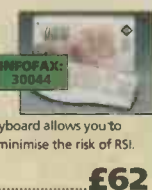
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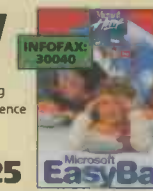
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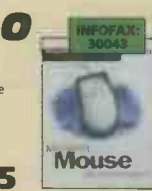
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Discover the easy to use pointing device that gives kids the confidence to use a computer. Includes Microsoft Explorapedia.



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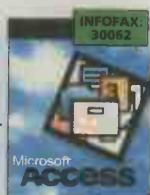


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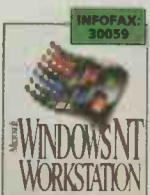


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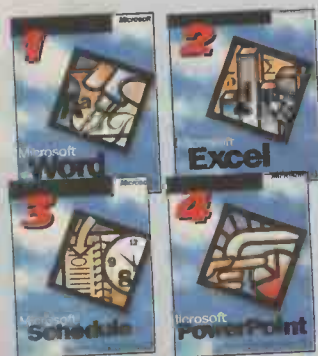
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- Take meeting notes and assign action items on the spot with the Meeting Minder
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For Office 4.2 & 4.3 See Page 28

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Stunning NEW features!

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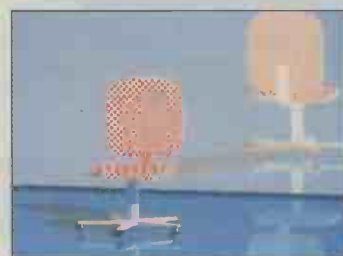
NEW Object property sheets make editing your drawings fast and easy!



Use the "virtual trackball" to view your drawings at any angle for the maximum benefit.



Rendering and Ray Tracing enable you to see precisely what your creations will look like in reality



New TurboCAD V3 Outclasses the Competition!

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	£99 ^{95*}	£329 ^{95*}	£99 ^{95*}
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Drag-And-Drop Symbols	YES	NO	YES
Intuitive, MS Office-Compatible Interface	YES	NO	NO
User-Selectable Scale & Drawing Size	YES	NO	YES
Local, Context-Sensitive Menus	YES	NO	NO
World And Paper Units Instant Toggle	YES	NO	YES
Associated Crosshatching	YES	NO	YES
Select By Entity Type Or Attributes	YES	NO	NO
CAD Edit Bar With Constraints	YES	NO	NO
OLE 2.0 Client, Server & In-Place Editing	YES	NO	NO
Parametric Macro Language	YES	YES	NO
AutoCAD DWG/DXF Compatibility	YES	YES	YES
FREE Technical Support	YES	NO	YES
Symbols Included	10,000+	MINIMAL	500+

TURBOCAD's 3D MODELLER

	YES	NO	NO
One Step 3D Shape Tools	YES	NO	NO
"Virtual Trackball" for 3D rotations	YES	NO	NO
Add, Subtract, Combine Shapes	YES	NO	NO
3D Dimensioning	YES	NO	NO
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The Easiest Way to Create Forms and Automate Your Business.

FormTool Gold for Windows from IMSI offers the easiest way to create, fill and print any type of form. With over 550,000 users worldwide, FormTool for Windows is now available in the UK for the first time. Version 2 brings an enhanced user interface that is Microsoft Office compatible, with powerful design and editing tools to create sophisticated and professional forms. With built-in database creation and support, users can extract data and merge databases quickly and easily. Forms can be filled automatically on-screen, making workflow quick and easy, and each form is automatically saved to the database for later retrieval - all in one simple process. Includes ODBC support for use with FoxPro, dBASE, Clipper, Paradox and more. Fields can be added to any form which allow for automatic filling, including things such as date, time, calculations etc.

Includes floating toolbars, drag-and-drop editing, radio buttons, check boxes, automatic word-wrap, OLE 2.0 support, draggable rulers, definable grids, fountain fills, zoom, preview and much more. New Wizards create reports and mailing labels after a few simple questions.

FOR018 FormTool Gold..... **£49⁹⁵**

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Step 1: Design and edit any form with ease

Whether you are modifying one of the pre-designed forms or creating one from scratch, FormTool Gold's powerful design and edit tools make it easy for you every step of the way. Import bitmap or vector images, insert text fields, create tables with the command duplicator and much more.



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Includes 50 pre-designed forms and over 200 clipart images



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WinDelete V2

No other un-installer is safer or more thorough than WinDelete!

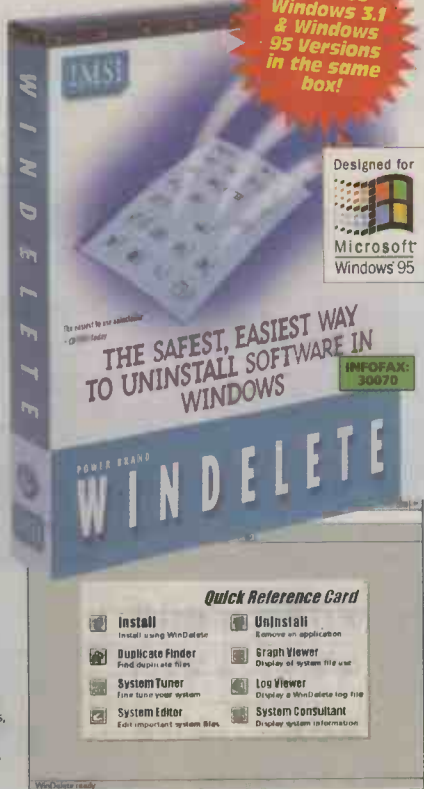
New WinDelete Version 2 is the latest version of this award winning Un-Installer program. This release offers new features and enhancements that is easier and safer to use, with a lot more power. Market research shows that today's users want a product that is safe and simple, without accidentally deleting files it shouldn't. WinDelete stands out in its ability to meet these needs.

Application installations are monitored to enable better removal, covering every type of application and system support file. Comprehensive installation logs are maintained to ensure thorough removals. Changes are previewed before being executed, and the new range of tools facilitates better system management.

It's Green-Yellow-Red "traffic light" colour coding helps prevent accidental deletion of vital files, but allows all the dross to be removed, with an Undo/Restore option when you change your mind.

Features include:

- Intelligent un-installing of virtually every file type including Windows and DOS applications CD-ROM and display device drivers, unused system support files, fonts, temporary files, backup files, duplicate files, orphan files etc;
- Direct access to INI files with View, Edit, Backup, and Save;
- System Consultant that analyses your system and suggests changes to improve performance.
- System Tuner with hundreds of tips for optimising Windows performance and much more.



Includes Windows 3.1 & Windows 95 Versions in the same box!

Designed for Microsoft Windows 95

Quick Reference Card	
Install Install using WinDelete	Uninstall Remove an application
Duplicate Finder Find duplicate files	Graph Viewer Display of system file size
System Tuner Tune your system	Log Viewer Display of WinDelete log file
System Editor Edit important system files	System Consultant Display system information

WIN050 WinDelete Version 2..... **£29⁹⁵**
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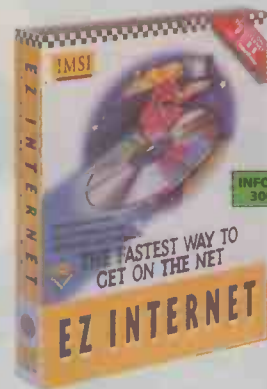
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News



Our new Internet Site goes live in January. Using our new service you will be able to get the latest information and pricing which will be updated daily.

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Key Kids makes learning fun!

Softkey's first line of children's entertainment products initially includes four titles for children aged from three to eight years old. All titles feature loveable characters, animation, music, video, interactive games and learning tools to help children read, write and problem solve whilst having fun.

Pocket And Tails Go Exploring

Two kangaroos go exploring learning about people, plants, animals and many more exciting parts of the world. Skills learnt include: colour recognition, letter and sound matching, shape and size identification, listening and speaking.

SOF127 Pocket & Tails Go Exploring **£12⁶⁵**

Pocket And Tails Go To Town

Together with the two kangaroos wander through a busy town. There are hidden surprises to uncover and exciting places to explore. Skills enhanced include: counting, the alphabet, numbers, sound matching, and computer navigation.

SOF128 Pocket & Tails Go To Town **£12⁶⁵**

Otters Adventure

Join Ozzie the Otter as he and his friends have exciting adventures. With five colourful environments and three difficulty skill levels. Skills learnt include: problem solving, observation, memory skills, ecology awareness, computer navigation skills and much, much more.

SOF125 Otters Adventure **£12⁶⁵**

Tales of Digby the Dog

An interactive children's story about the adventures of Digby, a loveable Yorkshire Terrier. Digby goes beyond the garden wall to a world of adventures - led by you. Digby the Dog's story enhances decision making, problem solving, reading skills, memory, reasoning and much more.

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Help Hyperman save the universe from total destruction.

Our planet is in danger! Join Superhero Hyperman and Emma C. Squared, kid genius, as they set out to save the universe from whacky extraterrestrial villains. Along the way, you explore scientific puzzles, using what you learn to help Hyperman capture the aliens. The adventures of Hyperman is a completely interactive, full motion, animation game and comes with 9 cool trading cards and a puzzle-filled adventure book.

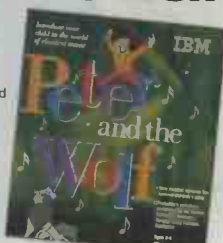


IBM014 The Adventures of Hyperman..... **£27⁹⁵** INFOFAX: 30014

Peter and the Wolf Kid Riffs

Introduce your child to the world of classical music.

Peter and the Wolf opens the world of symphonic music for children, setting the stage for a lifetime of enjoyment. Including music appreciation games, interactive escapades and easy program navigation, this classic children's tale is made both educational and fun. Young viewers can start, stop or select the segments and characters they wish to see while being taught music appreciation and instrument sound recognition.



IBM018 Peter and the Wolf..... **£19⁹⁵** INFOFAX: 30015

Make music! Cut loose!

Kid Riffs allows your children's natural creativity to lead the way, even if they don't have any musical training. With Kid Riffs you can experiment with any of over 100 instruments, compose, record and playback tunes you create, combine your compositions with prerecorded riffs and create hundreds of musical effects providing endless possibilities. Now it's easy for children of all ages to make music without having to spend years mastering an instrument or sound mixing techniques.



IBM016 Kid Riffs **£19⁹⁵** INFOFAX: 30016

Quest For Fame

Jam with Aerosmith in the ultimate rock'n'roll game.

Quest for Fame will take you from obscurity to rock'n'roll superstardom! You don't have to be a musician to be a star in this virtual music game. Along with the software you get an electronic spectrum that has a thin cable to connect to your serial port. As the music plays up and down the string, moving the spectrum up and down either in thin air, against guitar strings or even a tennis racket and you will hear the results. Play along with a moving image that shows you the correct timing to improve your guitar playing. Play well and earn a once in a lifetime stadium gig with Aerosmith. Quest for Fame has four skill levels, stunning graphics, digitised sound.



IBM019 Quest for Fame..... **£29⁹⁵** INFOFAX: 30017

Rapid Assault

The enemy is out there!

The United World Council will release you from prison but there's a catch. You have to track down Spectre, a ruthless criminal who's massing an arsenal of weapons to overthrow the government. The risks are high but it's your only way out. There are 20 missions and multiple game scenarios to provide endless playing opportunities. If you succeed, you win your freedom, if you fail no-one's coming to help you. Starting 3D graphics, 16 viewing angles, digitised sound effects and music add to the realism and suspense in this fast-paced combat environment.



IBM017 Rapid Assault..... **£19⁹⁵** INFOFAX: 30018

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3 explosive combat games on 1 CD.

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F-18 No Fly Zone: You're caught in a life and death battle as you attempt to neutralise enemy aircraft in the "No Fly Zone"

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IBM015 Triple Threat - An Arcade Adventure..... **£19⁹⁵** INFOFAX: 30019

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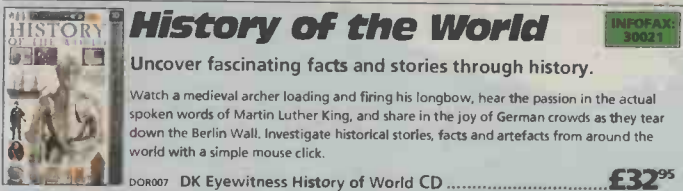


DKR009 DK Encyclopedia of Nature..... **£32⁹⁵** INFOFAX: 30020

History of the World

Uncover fascinating facts and stories through history.

Watch a medieval archer loading and firing his longbow, hear the passion in the actual spoken words of Martin Luther King, and share in the joy of German crowds as they tear down the Berlin Wall. Investigate historical stories, facts and artefacts from around the world with a simple mouse click.

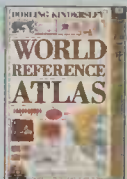


DKR007 DK Eyewitness History of World CD..... **£32⁹⁵** INFOFAX: 30021

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A remarkable geographical reference for on-screen use.

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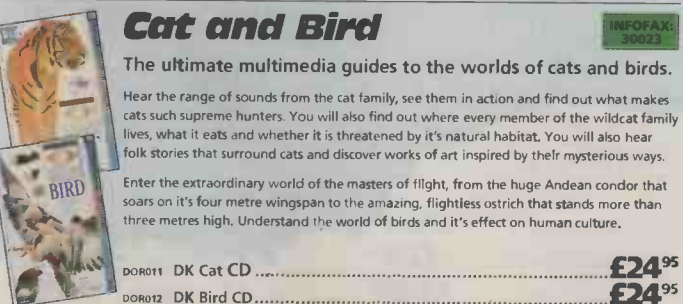
DKR006 DK World Reference Atlas CD..... **£44⁹⁵** INFOFAX: 30022

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DKR012 DK Bird CD..... **£24⁹⁵** INFOFAX: 30023

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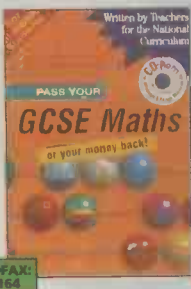
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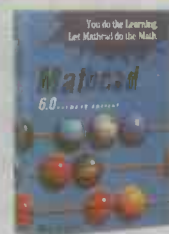
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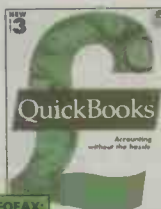
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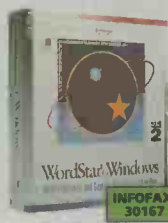


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PFS009 PFS Job Search **£29**

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FAS016 3D Landscape CD **£39.95**

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The fast and easy way to find the perfect selection from any plant group. With more than 1,000 varieties, each with a colourful photograph, create, save and print customised plant lists for shopping at nurseries. Also complete multimedia How-to resource that shows you how to select and care for plants. Also available on floppy disk.

FAS017 Garden Encyclopedia CD **£34.95**

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Procomm Plus for Windows V2.1 I.E

Procomm for Windows has long been the No.1 selling Comms. package. This latest edition now includes fax software and many new features: Full support for Prestel and other terminal emulators; Dialling directories including group support; Fax from within applications; Fax mode supports standard and fineresolution and includes host mode for 'fax on demand'. The new easy-to-use interface makes Procomm the ideal package for all PC users!

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German / English	✓	✓	✓	✓	✓	✓	✓
English / Italian	✓	✓	✓	✓	✓	✓	✓
Italian / English	✓	✓	✓	✓	✓	✓	✓
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ZO0005 ZOOM 28.8 Int..... **£146⁹⁵** ZO0006 ZOOM 28.8 Ext..... **£167⁹⁵**

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PAC015 Pace NetLink **£98⁹⁵**
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ONL001 3400 (with On-line)..... **£155⁹⁵**
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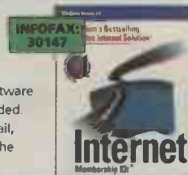


Internet Membership Kit™ V2.0

The No.1 Selling All-in-One Internet Solution!

Ventana Mosaic™ - a fully licensed and commercially supported version of Enhanced Mosaic™ from Spyglass™ Inc. the most widely recognised World Wide Web browser. Newsreader - enables users to read and post to newsgroups anywhere in the world; software highly acclaimed for ease of use and custom capabilities. Complete documentation included. Easy Graphical E-mail and Browsing - simple point and click software with built-in e-mail, Gopher, FTP, Telnet and more. Includes an elite shareware selection for Macintosh and the popular Chameleon Sampler™ from NetManage™ for Windows. Special Access Offer with easy one button sign-on - instant access to IBM Internet Connection service provided by IBM Global Network, with local phone numbers as well as 800-line service. Sign-up takes only a few minutes, via a customized Ventana user interface.

INT 014 Internet Membership Kit™ V2.0 **£39⁹⁵**



FREE GUIDE WORTH £29!

Internet Roadside Attractions

Innovative, interactive listings guide featuring full text on CD-ROM and hyper-linked for instant connections on-line.

CompuServe Value Pack for Windows

Get on the information superhighway with the world's premier on-line information service

CompuServe is the world's premier online information service with over 3 million members worldwide and over 2000 services including Internet connections - offered online. CompuServe offers a full range of easy-to-use Internet services including e-mail, FTP, USENET Newsgroups, Telnet, and World Wide Web access. Other services include online shopping, travel information, news, weather, sport information, company information, games, leisure and much more... Connection to CompuServe is usually no more than a local telephone call away via your modem. Within each CompuServe Value Pack is everything a PC and modem owner needs to help them get started, understand and enjoy the new and existing world of online services, including the Internet.



com012 CompuServe Value Pack **£22⁹⁹**

With each pack you get:

- CompuServe Software
- Quick Start Guide
- Comprehensive guides to the CIM software and the CompuServe Information Service
- Comprehensive 'Internet Made Easy' Guide
- A complete directory of CompuServe services
- CompuServe CD
- UK product quick reference card
- FREE subscription to the monthly CompuServe member magazine

Norton Utilities

Norton Utilities includes new features specifically designed to prepare your system for the transition to Windows 95. It includes the most advanced, comprehensive tools available for system protection and data recovery - true 32-bit utilities with proven award winning technology that recovers data when others can't. Norton Utilities optimises and defragments your disks to improve access times and enhance the chance of full recovery in the event of a crash. Norton System Doctor runs in the background, constantly monitoring vital system resources and data integrity to ensure stability and reliability, and automatically taking corrective action when needed. If a crash occurs, a rescue disk gets you up and running quickly, automatically repairing and restoring damaged resources.

Pre-installation tune-up

Norton Utilities provides an easy, systematic way of diagnosing, repairing and fine-tuning your Windows 3.x system to prepare it for the installation of Windows 95 or any new application.

New! Norton System Doctor

Runs in the background monitoring resources and makes your Windows 95 system self-tune.

Exclusiv! Emergency Rescue Disk

Includes a ready-made bootable disk that will restart and repair your system even when Windows 95 won't load.

Norton Disk Doctor

Provides diagnosis and repair of standard or compressed files.

NOR031 Norton Utilities for Windows 95 3.5" **£83⁹⁵**
 NOR033 Norton Utilities for Windows 95 CD **£83⁹⁵**
 NOR032 Utilities Trade-Up **£48⁹⁵**

A massive 39,000 items in stock across 4,000 different product lines. Nobody delivers faster!

Norton AntiVirus

The right cure, right now!

Norton AntiVirus provides complete virus protection for Windows 95 in one simple, easy to use package that detects, destroys and prevents virus infections. It works automatically in the background, watching for suspicious disk activity and detecting viruses before they can damage your files.

NOR034 Norton AntiVirus **£53⁹⁵** NOR035 AntiVirus Trade-Up **£27⁹⁵**

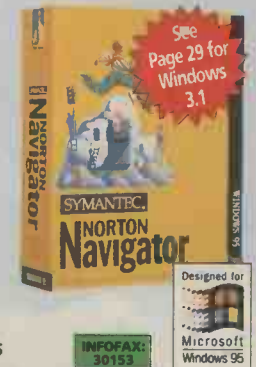
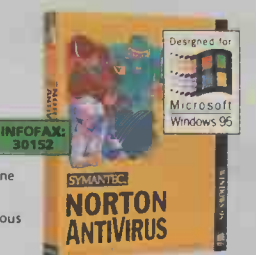
Norton Navigator

One click to go anywhere!

Norton Navigator puts file management at your fingertips, making Windows 95 significantly faster and easier. You can zip or unzip any file in one third of the time that it would take to use a separate application, simply by dragging and dropping.

You can access Navigator's file management tools from the Open/Save dialog box of almost any application or from the Windows 95 explorer. You can even access Internet FTP sites directly from the file manager.

NOR037 Navigator Trade-Up **£33⁹⁵**



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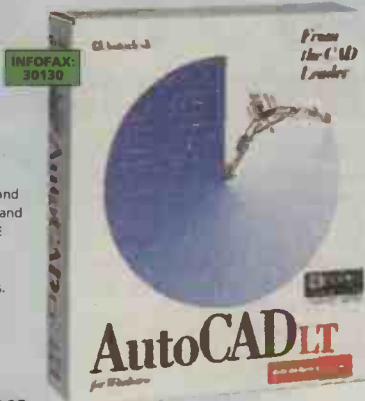
EVERYTHING FOR YOUR PC - NEXT DAY!

AutoCAD LT Rel. 2 for Windows

Fully-featured and easy to use, it's ideal for architects, engineers, designers and contractors.

AutoCAD LT Release 2 for Windows is a 2D design and drafting package that offers extensive 2D drawing and editing tools, associative hatching, Aerial View, OLE and Clipboard support. Use 3D CAD tools such as 3D extrusion, hidden line removal and shading to create or view 3D drawings. OLE and Clipboard support lets you copy and paste drawings into other Windows programs for higher quality reports and presentations.

AUT025 AutoCAD LT Release 2 for Win **£352⁹⁵**



AutoSketch 2 for Windows

AutoSketch for Windows combines CAD precision, drawing flexibility and Windows simplicity in one!

Produce concept sketches, technical diagrams, architectural layouts, electrical drawings, patterns, illustrations, presentations, and information graphics. Freehand curve tools and line options give you the versatility to meet any need. Easy view features let you choose drawings, symbols and fonts with simple icons, allowing you to create professional illustrations quickly.

AUT027 AutoSketch 2 Win **£89**
 AUT019 AutoSketch 3 DOS **£87**

AutoSketch Libraries

AutoDesk have introduced two specific libraries for AutoSketch for Windows to aid designers, architects and electrical engineers to produce high quality drawings and diagrams as quickly and accurately as possible. Both libraries contain industry standard drawings and symbols.

AUT013 AutoSketch Electrical Library **£65**
 AUT014 AutoSketch Architectural Library **£65**



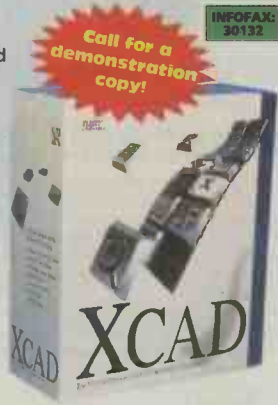
XCAD 3.0 for Windows

The first and only CAD product for Windows and Windows NT to offer fully integrated advanced 2D and 3D for under £400

The latest version of XCAD features more drawing tools than ever before with several notable additions. 3D Cube allows you to create cubes with one command, Extrude Surface gives you a powerful method for transforming 2D shapes into 3D surfaces, plus Surface Fillet, Chamfer, Offset and more. You can now use XCAD files with a much wider variety of third party products, including renderers, modellers and CAM systems. It supports the major file standards. The XCAD Development System adds a whole new level of flexibility. It allows you to create your own commands, add your commands to the pull-down menus and incorporate your C programs into XCAD.

XCAD allows you to shade and view your 3D objects from any point. Its advanced rendering features allow you to see what your designs will look like in real life with Pan, Zoom and Hidden Line Removal features.

XCAD01 XCAD V3 **£368⁹⁵**



MathCAD V6 Standard Edition

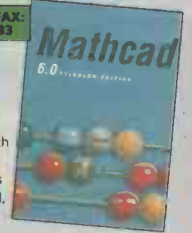
The powerful calculation software package for technical professionals!

MathCAD V6 is the powerful calculation package that solves problems using real math notation. The ideal package for engineers, scientists, mathematicians, and more. Combine your advanced math work with text and graphics - quickly and easily. This is the first complete problem-solving environment that lets you explore, analyse, model, test, refine and document even the most complex problems.

MathCAD's Many Features Include:

- Windows 95 compatible, runs on 3.1 or NT
- World Wide Web aware
- Find all roots of a polynomial
- Simultaneous equation solver
- Polar, contour and parametric plots
- Fast Fourier Transform
- Complex numbers
- Symbolic algebra
- Animation
- Trace and Zoom

MAT004 MathCAD V6 Standard Edition **£169**



Auto Addressing System

The Auto Addressing System is a database that holds 1.6 million postcodes, covering all of UK, (including Northern Ireland)

With this unique Windows-based program you simply input a postcode and it will tell you the road name, town, city and county, which can then be directly pasted into most Windows applications. In the system are 24 million individual addresses across 1.6 million postcodes. You can load the whole of the UK (taking up just 10Mb of hard disk space) or one of ten regions.

ADD004 Auto Addressing System **£149⁹⁵**



Labels Unlimited

The easiest way to create great labels - any size or style.

Whether you're creating labels for addresses, file folders, audio/visual, or inventory stickers, Labels Unlimited has the label format that you need. Choose from over 80 A4 size labels for Avery, TENZA, Stampiton and others. Alternatively, you can custom design any format of your own.

LAB003 Labels Unlimited for Windows **£26⁹⁵**
 LAB001 Labels Unlimited for DOS **£26⁹⁵**



Toplevel

"Forms look like being stormed by Toplevel" - PC Direct

Powerful, professional-looking form design and filling with contact database.

Invoices, orders, expenses, B55750, time sheets, quality control... your business needs professional-looking printed forms. Both Toplevel FastForms and Forms save money on printing costs and give you the flexibility to update form layouts as often as you like. Design your own attractive forms using logos, pictures, text, calculated fields, borders and shading. Great looking forms make small businesses look big and give big businesses control of big administration problems. Whether you're printing blank forms, filling out and

printing or filling our pre-printed stationery, this software will make sure it all lines up perfectly, and help prevent staff filling it incorrectly. What's the difference? Toplevel Forms contains a database to store addresses and other information ready to fill in forms electronically. It also offers power features like spreadsheet functions in calculations and standard phrase support. Toplevel is a British company and is an international leader in forms software. The entry-level forms software, FastForms, is the market leader in the USA with a 40% market share, so you can be confident of a world-beating product backed by first class technical support.



TOP003 Forms **£68⁹⁵**
 TOP004 FastForms **£24⁹⁵**
 TOP009 Forms /Win95 **£68⁹⁵**
 TOP008 FastForms /Win95 **£24⁹⁵**

Performance Now!

Employee appraisal - what to write and how to write it!

If you've ever put off writing an employee review because you didn't have the time, or you just plain hate writing them, Performance Now! is for you. Evaluating employee is one of the most difficult tasks for a manager or superior, but a sensible employee review process is essential for improving communication and helping your employees become more productive. Features include dozens of performance elements, Intelli-Text to write text for you, Language checker, built-in expert advice and much more.

PER022 Performance Now! **£108⁹⁵**



Alpha 5 Home & Business Edition.

Fully-featured Windows database.

Alpha 5 goes much further than other Windows databases because it comes with common database functions already pre-built! With Alpha 5 you can create powerful database applications without the need for any programming knowledge.

ALP010 Alpha 5 Home and Business Edition (Win) **£39⁹⁵**



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How to use & charges see page 2



EVERYTHING FOR YOUR PC - NEXT DAY!

FileMaker Pro 3.0 - Easier to use and more powerful!

When it comes to managing, presenting and sharing information, you won't find a more versatile database program than FileMaker™ Pro software. It's the network-ready, easy-to-use relational database for workgroups and end-users with built-in support for relational tables.

With FileMaker Pro 3.0, an array of sophisticated graphics tools gives you access to powerful layout and organisational features without having to learn complicated programming commands. You can instantly sort

and search through your data by any criteria you choose - to create and update mailing lists, prepare invoices and purchase orders, and manage a host of other functions from inventory to sales reports and project tracking. FileMaker Pro 3.0 makes it easy for anyone to design visually appealing, professional-looking custom reports and forms. Or you can use its pre-designed templates to get productive even more quickly. Then easily share files across a network with colleagues with having to make file translations.

New features in V3.0 include:

- **International Enhancements:** Use system format alert, additional script steps and functions, index and sort individual fields

- using different languages
- **Relational capabilities:** Ability to place a field on a layout from another file, allows multiple fields from multiple related records to be displayed in a section of layout
- **Object Linking and Embedding (OLE):** Picture fields renamed Container fields, support for OLE 2.0, OLE objects can be stored in Container fields or placed on layouts
- **Networking:** TCP/IP network plug-in, integration with FM Server allows indexing to be performed on the host, choose the network interface from a Network Interface Panel, peer-to-peer - 50 files, 50 guests
- **Error Capture:** Ability capture errors and handle them in the script



NEW VERSION

INFOFAX: 30091

CLA011 FileMaker Pro 3.0..... **£179**

CLA002 FileMaker Pro 2.1..... **£89**

NEW! ClarisWorks 4.0 for Windows

ClarisWorks 4.0 is the all-in-one choice for every business, home and education project, providing unparalleled power for all the things you do - letters, reports, budgets, presentations, proposals, flyers, mailing labels, term papers, newsletters and more.

New ClarisWorks 4.0 has an all-in-one design that completely integrates word processing, spreadsheet, database, drawing, painting and presentation functions. So you learn just one program - not half a dozen separate ones. You'll also appreciate the way it works, from its consistent menus to the effortless way it combines words, graphs, tables, images and even video on a single page.

ClarisWorks 4.0 is full of time-saving features that help you get your work done fast. Expert Assistants guide you through complex tasks and documents in a flash - from creating footnotes and mailing labels to formatting envelopes and laying out a newsletter. ReadyArt™ Libraries, pushbutton Shortcuts and FastReport™ capabilities automate your work. And the ExpressStyle™ feature formats anything - text, paragraphs, outlines, tables and graphics - in a single click.



CLA012 ClarisWorks 4.0..... **£93** INFOFAX: 30089

NEW! ClarisDraw for Windows

ClarisDraw gives you a graphics program that's powerful, yet amazingly easy to use.

You don't have to be a graphics professional to get the results you want with ClarisDraw! Its breadth of drawing, painting, image editing and text tools can bring to life any graphic you can visualise - from technical drawings and schematics to newsletters, posters and logos. ClarisDraw has comprehensive drawing tools, colours, fills, shadows and gradients, plus full-colour painting and dazzling image editing effects to enhance drawings, scanned images or photos.

You can also work more productively thanks to a host of smart features that automatically maintain alignment, size and connections between objects, even if you move or edit your drawing. And pull-down menus and keyboard shortcuts let you quickly access frequently-used features. Then there's its smart clip art libraries that put thousands of professionally-designed maps, figures and form elements, plus engineering, scientific and architectural art, at your fingertips. All you have to do is drag and drop an object onto the page. The result is much faster creation and editing than with traditional drawing packages.



CLA013 ClarisDraw..... **£39** INFOFAX: 30090

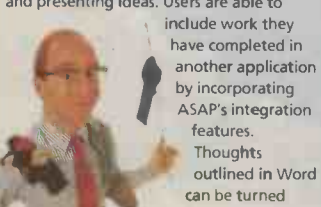
ASAP! Great looking reports and presentations quickly!

Imagine... The boss called just before noon: "The Big Guy wants you to present your proposal to the Executive Committee. Tomorrow 9AM. Be there. With handouts. Bye." Now, I'm pretty good on my feet, but good-looking presentations can take hours. And the software is scary! But new ASAP is amazing. I typed the whole concept into ASAP's outliner. I clicked to preview a beautifully laid out presentation. I presented - and it flowed. So they bought it - smiles and handshakes all round!

- ✓ **Create Presentations Quickly and Easily**
- Simple user interface**
With a simple user interface and Intelligent Formatting, ASAP is easy to learn and easy to remember. The interface is laptop-friendly - a great tool for mobile presenters.
- Total integration**
ASAP is especially adept at handling text and presenting ideas. Users are able to include work they have completed in another application by incorporating ASAP's integration features. Thoughts outlined in Word can be turned

- into an ASAP presentation in a single click using the ASAP button on the Word toolbar.
- Performance**
ASAP lets users be more productive because it always gets the job done fast. ASAP has minimum system requirements (3.5Mb of disk space and 1Mb of free RAM). ASAP will run on any PC capable of running Windows 3.1 or Windows 95.

- place the title, body and other elements on the page, ensuring each presentation has consistency. This allows the user to concentrate on the content and not worry about the look and feel of their presentation.



- ✓ **Enhancing Creativity and Communication**
- Intelligent Layouts & Designs**
By offering different ways of presenting text, ASAP offers a pardon from death by bullets. ASAP comes with 22 Intelligent Layouts to arrange ideas in a variety of ways such as Orbits, Pyramids, Cycles and Flows. Intelligent designs automatically

- Intelligent Colour Schemes**
With a variety of pre-formatted Intelligent Colour Schemes, ASAP guarantees a great looking presentation. You no longer have to worry about choosing the correct colour combination. With intelligent Colour Schemes, you will never see light text on a light background, and last minute changes are a snap and you get it right every time.

confidence and any presentation can be delivered in multiple forms.

Quick Editing & Arrangement
With ASAP users can edit quickly and effectively to make the presentation appropriate for today's audience. Logos can be changed. Customers names can be placed on each page. A last minute chart can be included to show the quarter's performance.

- Who is ASAP for?**
 - Busy professionals currently using their word processor or spreadsheet for presentations.
 - Presentations Graphics users lost in features and detail.
 - Computer users who need to create professional presentations quickly.

- ✓ **Presenting with Confidence**
- Output Flexibility**
ASAP satisfies almost every need - acetates, electronic projection, hardcopy or electronic distribution can be all used with

STOCK CODE: HAR024

£99

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News

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EVERYTHING FOR YOUR PC - NEXT DAY!

Complete Virus Protection With Dr. Solomon's Anti-Virus Toolkits

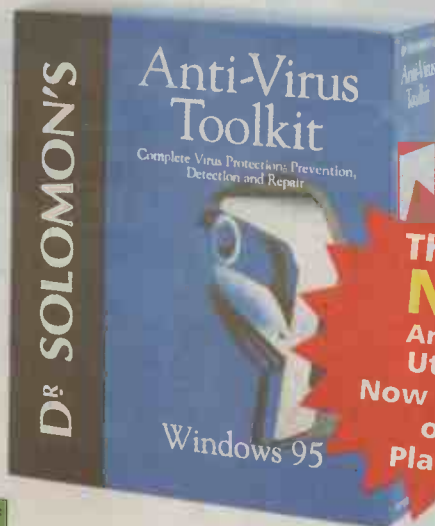
Dr. Solomon's Anti-Virus Toolkits are the UK's Number One anti-virus utilities. They are industry-renowned for combating all known viruses in DOS, OS/2, Windows, Netware and now Windows 95 systems.

Dr. Solomon's range of Anti-Virus Toolkits provide the best answer to the serious problems posed by viruses. Each toolkit is made up of basic programs geared to locate, identify and destroy existing viruses and then protect your system.

- WINGUARD** - on-access scanner to check all files and disks before access is allowed.
- FINDVIRUS** - on-demand scanner with the ability to carry out a more extensive check - even inside compressed files.
- VIRUS GUARD** - memory resident TSR only requires 9k of memory and can be loaded high. Checks every program for viruses before it is opened or copied.

Why choose Dr Solomon's Anti-Virus Toolkit?

- Widely recognised as the most effective anti-virus product
- Award winning technology • Finds more viruses and finds them faster
- Simple to install and easy to use
- Comes complete with both on-line and paperback Virus Encyclopedia containing detailed information on hundreds of viruses and what they do.
- Restores boot and partition sectors and CMOS after known and unknown infections
- Scans archived or compressed files, those downloaded from bulletin boards and CD-ROM collections
- FREE technical support - 7 days a week, 24 hours a day
- Monthly or quarterly updates via post, CompuServe, CIX, Internet or BBS



The UK's **NO.1** Anti-Virus Utilities! Now Available on All Platforms

INFOFAX: 30113

Dr Sol Antivirus v7 DOS Qtrly	£58⁹⁹
Dr Sol Antivirus Win + DOS Qtrly.....	£69⁹⁹
Dr Solomons Antivirus Toolkit Win 95	£74⁹⁹
Dr. Sol Virus Guard 5 User Str Pack	£174⁹⁹
Dr. Sol Antivirus For Netware Server	£239⁹⁹
Dr. Sol Antivirus Toolkit for OS/2.....	£98⁹⁹

Uninstaller V3.5

The No.1 selling Windows utility just got better!

Uninstaller is a simple utility that you can trust to clean up your system. Most Windows application place bits of itself hidden throughout your system. This takes up memory and can lead to rather a catastrophe if not dealt with effectively. Uninstaller 3.5 can uncover hidden files lurking in your system and remove them whenever you want to. Not only does Uninstaller 3.5 safely clean Windows, it goes beyond just deleting applications - its unique technology allows you to:

Move applications and supporting data files
Move controls unruly directory structures by relocating applications to new directories or drives. Keeps all related files intact and updates all Windows settings. Put stuff where you want it. Take advantage of a second hard drive. Organise your system.

Archive seldom-used applications and restore them quickly with a single click.

Archive saves disk space by compressing and storing the programs you only use once in a while on your hard drive or floppies. The program's icon stays on your desktop marked as an archive - just click to restore.

Transport applications to other PCs with no re-install hassle.

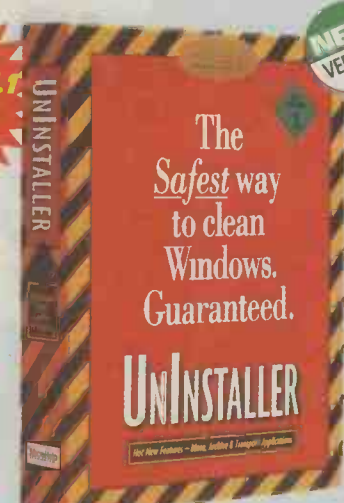
Need to take office work home? No problem. Transport replicates the applications and data you need to your home PC or laptop with a click. All preferences stay intact - no need to reinstall. True application portability, finally.

Uninstaller 3.5 also includes two new modules, 'Disk Data' and 'Windows Cleanup'. Keep tabs on your hard drive space with Disk Data, a colour-coded graphical display that shows which files and applications are eating up disk space. And with Windows Cleanup you can remove Windows files, fonts, drivers, wallpaper, sounds and screen savers. Before deciding to delete or not, you can view or do a trial run.

Unneeded Files Are Multiplying On Your Hard Drive

Uninstaller's Windows Cleanup roots out hundreds of unneeded files, including fonts, help files, clip art, backup files, temp files, sounds, screen savers and more. You can view, hear or try out every one before delete or archive it. Saves dozens of megabytes of disk space on the average PC.

Get Both Windows 3.1 & 95 In Same Box

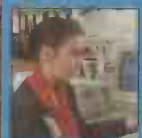


The Safest way to clean Windows. Guaranteed.

UNINSTALLER

NEW VERSION

Fast Delivery



Order before 4pm and get your order next day
Subject to terms on page 2 of advert

Features, Functions and Fail-Safes

- Duplicate File Finder - Duplicate File Finder discovers wasteful duplicated files throughout your system. Also, filters find all files with by type, date, size and location.
- Orphan Finder - Tracks down and eliminates "orphan" files left behind by applications you deleted manually before you got Uninstaller. You'll be amazed at the megabytes you discover!
- INTClean - Scrubs unneeded entries from Windows INT files to enhance your system's performance.
- Backups - A safe and simple backup and restore option in case you accidentally uninstall something you need.
- Disk Data - Your map through the jungle. Colour-coded graphics reveal which drives and directories are hogging disk space.
- Network Version - Uninstaller is available in a network version too, to root out waste throughout your LAN.

How Much Disk Space Will I Save?

Typical System	Savings
Delete Unwanted Applications	10 - 15 MB
Archive Seldom Used Applications	10 - 15 MB
Discover Wasteful Duplicate Files	5 - 10 MB
Remove Unneeded Windows Components	2 - 3 MB
Clean Out Help and ReadMe Files	8 - 15 MB
Archive Unused Clip Art and Sound Files	5 - 9 MB
Scrub Backup and Temp Files	3 - 7 MB
Your Total Savings	43 - 74 MB

INFOFAX: 30114

UN006 Uninstaller 3.5

£35⁹⁵

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For ordering information and terms & conditions, see page 2. CompuServe Address: 102354,1150 Infotax Number 0891 518 060⁹⁵ How to use & charges see page 2



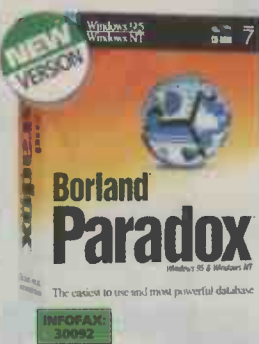
EVERYTHING FOR YOUR PC - NEXT DAY!

Borland Paradox 7

Paradox 7 is the relational database for Windows 95 and Windows NT.

Paradox 7 delivers what database users need most - ease of use, superior integration with other applications, query speed, reporting speed and a smooth transition to Windows 95. All types of users will benefit from Paradox's new experts that make common tasks simpler than ever.

Database developers will find Paradox's powerful application language and integrated development tools provide the best environment for creating and delivering powerful applications. And since Paradox 5.0 for Windows can share applications and data with Paradox 7, you can start using Paradox today and be ready for the future.



- Borland Paradox 7 for Windows 95 **£99**
- Borland Paradox 7 Suite Upgrade (Upgrade any integrated suite) **£79**
- Borland Paradox 7 Upgrade from earlier versions **£69**

Borland Delphi

RADical Windows application development.

Delphi - BYTE's Best Technology of Comdex 1994 - facilitates Rapid Application Development (RAD), letting you progress from prototype to production. The only Windows development tool that combines a high-performance optimising native code compiler with a visual design environment and integrated database access.



- DEL006 Borland Delphi CD **FROM £119⁹⁵**
- DEL006 Delphi RAD Pack CD **£124⁹⁵**

trueSpace V1!

Computer Shopper Editor's Choice 94

An award-winning, revolutionary package that integrates professional 3D modelling, rendering and broadcast quality animation within an easy-to-use, "natural" interface.

Until now, 3D modelling, rendering and animation was really 2D, enhanced with orthogonal views.

- Model, Render and Animate! 3D design couldn't be easier, painting and drawing expand into 3D modelling. Draw 3D, paint on 3D, shape objects like clay and use real-time preview to direct your 3D characters like actors on a film set. Render final slides or video animation at workstation speed. Most 3D formats such as DWG, 3D Studio, Wavefront, Lightwave, Image and others are supported. Import BMP, TGA or TIF for texture and bump mapping. Output BMP, TGA or AVI/Video for Windows with alpha channel.

- Welcome to the 3rd Dimension trueSpace is the first PC-based animation package that makes adding materials to your objects enjoyable, rather than something to be dreaded! Simply grab a paintbrush, touch the areas you want to colour and watch as they are instantly rendered with the combination of colour, bump and texture mapping you selected. trueSpace is the only 3D graphics package with a natural user interface, fully integrated modelling, broadcast-quality animation and photorealistic rendering that also won't blow a hole in your pocket!



- TRU003 trueSpace **£148⁹⁵**

Macromedia Director V4

The most powerful authoring tool for multimedia production.

Only **£749⁹⁵**

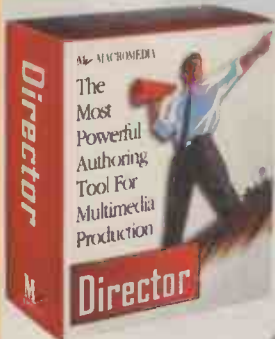
Director 4 for Windows is the tool of choice for all your multimedia needs. This popular program includes powerful features that let you easily combine, text, graphics, animations, sounds, digital video and interactivity to create dynamic multimedia productions. Use Director to create entertainment and education CD-ROMs, simulations, visualisations, digital publications, multimedia corporate presentations, electronic reference materials, software demonstration disks and more!

The uses of Director are virtually unlimited. Artists, Creative Directors, Corporate Presentation Specialists, students and publishers - in fact, more than 100,000 people currently use Director.

Director gives you precise control of virtually every element in your multimedia production. Import elements from digital video (AVI), sound files, graphic files (BMP, DIB, WMF, EPS, PIC, PCT, PNT, GIF, TIF), and much much more. Use these imported elements to cast, paint and score Windows to create and sequence your production and then use Lingo to add interactivity to your multimedia production.

- AC009 Director... **£749⁹⁵**

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Macromedia Freehand

For Powerful Design & Illustration



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MAC011



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Freehand 5.0 - More new features make it number one for designers, illustrators and artists.

Freehand is the most powerful and easiest-to-use software for design and illustration. Its comprehensive feature set, customisable work environment, and superior performance make it the tool of choice for graphic designers, creative directors, production artists and illustrators worldwide.

Freehand has everything you need to develop simple illustrations or complex designs with the minimum of hassle. Its open architecture allow you to take advantage of drop-in interactive tools and palettes. In addition to Illustrator plug-ins. With extensive text handling capabilities, including style sheets, spelling checker, search and replace, text on a path, copyfitting, columns, and linked text blocks, Freehand's features surpass those found in any other design and illustration package. No other application has the features or the flexibility.

- MAC010 Macromedia Freehand 5.0 **£399⁹⁵**

Freehand 5.0 Features include:

- Calligraphy Pen and Pressure-sensitive Pen let you create natural strokes.
- Draw Starbursts, Polygons and Spirals right on the screen without using dialog boxes!
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- Unique Eyedropper actually pulls colours from placed TIFFs for further use in the work.
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- Import and Export EPS, PICT, PICT2, TIFF etc.

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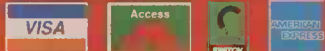
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CorelDraw! 4

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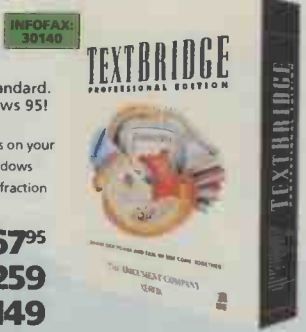


XEROX TextBridge

Windows-based OCR that redefines the industry standard. Buy now and receive a FREE upgrade to the Windows 95!

Textbridge lets you convert paper documents to electronic files on your PC. You can then edit, store and distribute the text within Windows applications. It features the highest level of accuracy, and at a fraction of the cost of other OCR. Requires scanner.

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- TEX003 TextBridge Professional..... **£259**
- TEX001 TextBridge Upgrade **£149**



CorelXARA!

Fast, Easy & Amazing 32-bit Graphics!

CorelXARA is an ultra-fast vector and bitmap illustration program for the beginner and professional alike. The easy-to-use interface, online tutorial, dynamic fill editing, colour styles and linked colours make creating graphics quick and easy. Optimize your productivity with lightning-fast redraw and powerful drag and drop colours, fills, line styles, fonts, clipart, textures, smooth dithering of graduated fills, graduated transparency and anti-aliasing to create a realistic rendered image. Including over 10,000 clipart images, 300 textures, 500 photos plus 500 TrueType and Type 1 fonts, CorelXARA is the perfect complement to any graphics package or DTP application.



NEW!

Some of CorelXARA's many features include:

- Anti-aliasing for Internet graphics
- Interactive graduated transparency
- Stepless graduated fills for photo-realistic images
- Change colours of artwork in one easy step

Incredible value!

- 10,000 + clipart images
- 500 + photos
- 500 TrueType® and Type 1 fonts
- 250 textures

The perfect complement to:

- CorelDRAW®3
- CorelDRAW®4
- CorelDRAW®5
- CorelDRAW®6
- Corel Ventura®...and all other DTP and graphics software!

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- Ultra-fast redraw
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cor133 CorelXARA **£158⁹⁵**

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Instant 3D for Windows 95

An amazing new way to add stunning 3D, words and clip-art to Microsoft Word, Powerpoint, Excel or any other Windows 95 word processor, graphics or presentation package. With Instant 3D you can turn any text into a 3D object, right on the page.

Instant 3D comes with catalogues of hundreds of objects for everything from business graphics to 3D buttons for your World Wide Web home page - and it all happens in an instant! Instant 3D adds tremendous value to your suite of productivity applications.

Drag and drop simplicity!

Simply drag objects, textures or light settings from a convenient on-screen catalogue into your document. Using an intuitive control you can clip, rotate and scale text and objects in a 3D window, whilst remaining in your original document page.

Instant 3D's advanced text editor uses standard Windows TrueType fonts that can be extruded and deformed using a wide selection of pre-defined shapes.

Takes full advantage of Windows 95!

Instant 3D takes full advantage of Windows 95 thanks to OLE 2.0 support. Instant 3D works inside your application adding a user-friendly button bar menu option to your favourite word processor, presentation or spreadsheet package. Alternatively, you can choose to use Instant 3D in a standalone mode and save your images in popular graphic file formats for use at a later date.



v15064 Instant 3D for Windows **£39⁹⁵**

Next-day delivery only £6⁹⁵ E&OE. All prices are plus VAT and delivery and are subject to change and availability.

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EVERYTHING FOR YOUR PC - NEXT DAY!

The smart way to create all your business diagrams and much more!

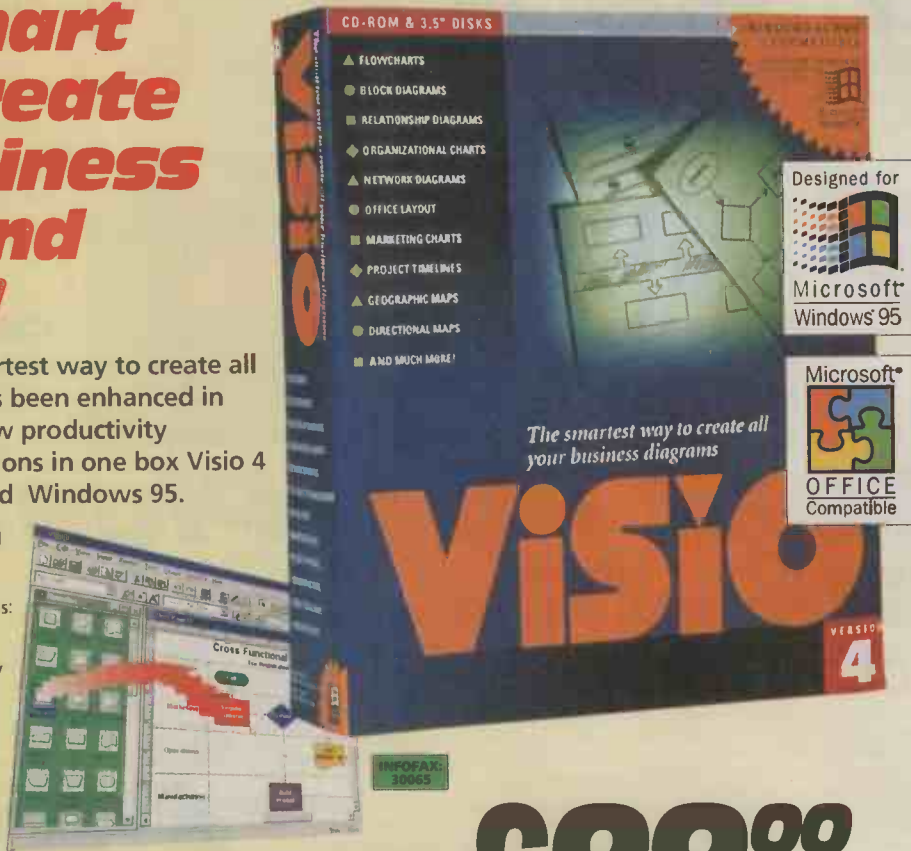
Now more than ever, Visio is the smartest way to create all your business diagrams. Version 4 has been enhanced in almost every area, boasting many new productivity features. With both 16 and 32bit versions in one box Visio 4 is optimised for both Windows 3.1 and Windows 95.

The new optimised 32-bit Visio exploits the advanced capabilities of Windows 95 and will also run on Windows NT 3.51 systems. It offers you significant productivity gains, including these great new features:

- Faster 32bit performance
- Descriptive, long file names make locating files easy
- 'QuickView' lets you preview diagrams before opening them
- Drag work from a diagram to the desktop to create a Scrap file, then easily incorporate it into different documents by simply dragging and dropping
- More efficient mouse button menus and actions
- Use Windows 95's new multitasking to continue working while other tasks are done simultaneously in the background

Visio's new Wizards make creating new diagrams a snap. They set up pages, numbering, headers and any number of document features. An 'Organisational' Wizard automatically generates a chart from your data - either a text file or Excel spreadsheet. You can even generate a project timetable with the 'Timeline' Wizard.

Thanks to new smart data management Visio 4 will automatically connect to Microsoft Office and Lotus Notes. Its compatibility with Office toolbars means that you are already familiar with Visio from the start.



Designed for
Microsoft
Windows 95

Microsoft
OFFICE
Compatible

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STOCK CODE: VIS060

Extra Visio Shapes & Ideas

In addition to the SmartShapes™ Included in Visio, you can select one or more of 15 Add-On SmartShape products for your own particular diagramming tasks or projects. Visio SmartShapes™ are more than static clip art or symbol libraries, because they anticipate how you'll use them and then behave in a useful way. SmartShapes™ resize without distorting, connecting lines stay glued and reroute automatically, and text goes where it should in a format that makes sense. There are more than 3,000 shapes to choose from. Simply add the shapes you need, when you need them!

- Advanced Flowcharts£39
More than 260 shapes for flowcharting
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Design and model detailed data networks

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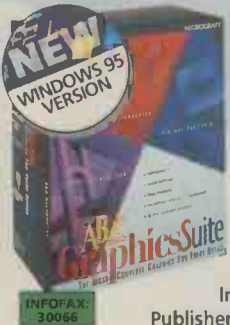
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ABC Graphics Suite

The complete graphics package for Windows 95 and Office 95 users.



Micrografx has merged ABC FlowCharter, Designer, Picture Publisher and the revolutionary new ABC Media Manager into the ABC Graphics Suite. It combines superior diagramming, flowcharting, drawing, image editing, painting and clipart whilst using the familiar MS Office 95 interface. Because it's a true 32-bit Windows 95 application, its performance is up to four times that of 16-bit applications. It features award-winning diagramming, imaging, and illustration tools to let you work with greater productivity and let your ideas gain shape speedily. The Drag-and-Drop Clipart Manager allows you to easily incorporate clipart into your work.

Includes: ABC FlowCharter, Micrografx Designer, Micrografx Picture Publisher & Media Manager, Visual Clipart Libraries and Fonts

- ABC006 ABC Graphics Suite£239⁹⁵
- ABC007 Comp. Upgrade£99⁹⁵

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Windows Draw 4.0

The complete Graphics suite.

This Windows 95 graphics suite for the home and office includes drawing, diagramming, photo-editing, painting and a drag-and-drop clipart manager, plus more than 10,000 clipart and photo images, and 250 fonts. More than 150 quick-start templates are provided for all the common graphics projects - charts, banners, certificates, business cards, newsletters and more.



- MIC386 Micrografx Windows Draw 4.0.....£39

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Animate it all with Visual Reality 2.0!

The latest and greatest release of the leading 3D graphics and animation package from Visual Software.

Visual Reality 2.0 adds a new Universal Animation System which allows you to animate quite literally anything - cameras, objects, lights, materials and more - all with just a few mouse button clicks. Objects can be twisted, stretched and even morphed in 3D, videos can be played in the background or projected to create animations to broadcast quality and beyond. Visual Models new "munge" facilities allow you to deform any object - including morphing between shapes - and it has an essential unlimited undo feature.

Visual Font is the most powerful 3D text building system yet created! It includes automatic 3D bevels, bending of text along a 3D path, and solid shaded preview. Data from popular drawing and CAD packages can also be imported, rendered and animated. All of this functionality is complemented by over 2Gb of 3D data including 500 3D objects for business use, 1500 textures, 9 3D virtual worlds - including The Northern Castle, Pacific Beaches, Orbit City and Jurassic Adventure, 10 3D scenic UniSpheres™, 100 AVI video clips from a Hollywood film library, and 100 high resolution still background images.

vis055 Visual Reality 2.0 (7 CD set) **£199**

Visual Reality 2.0 Features include:

- 2Gb data library
- 500 3D objects
- 800 textures • 700 seamless textures
- 9 3D worlds • 10 unispheres
- 100 time-lapse video clips • 100 photographic backgrounds



Simply 3D SuperPack!

The Simply 3D SuperPack features everything you need to explore exciting 3D computer graphics.

The Simply 3D SuperPack consists of three programs and hundreds of megabytes of 3D worlds. Simply 3D is a complete multimedia 3D graphics program for enthusiasts, artists and business presenters. Use 2D drawing from popular drawing applications, make them 3D and use the 120 seamless textures and 100 3D objects to create photo-realistic images and animations.

The Simply 3D SuperPack also includes three volumes of Simply Scenes 3D virtual worlds (Starter Pack, The Northern Castle and Jurassic Adventure) Plus, Double Vision which lets you create 3D images and animations, just like those old Hollywood movies, from scanned photographs and then view them with the 3D glasses (included). WinBlob makes 3D modelling easy and fun, using "meatballs" to create organic shapes which can then be rendered in Simply 3D.

vis057 Simply 3D SuperPack **£69⁵⁰**



More Great Products from Visual Software

- vis008 Simply 3D **£39**
- vis056 Double Vision **£29⁹⁵**
- vis054 Visual Reality V1.5 - Pro 3D **£95⁹⁵**



Ray Dream Studio The Cutting Edge of 3D Illustration & Animation



Whether you're a graphics professional or budding digital artist, Ray Dream Studio is the perfect synergy of cutting-edge 3D tools and effortless ease of creation... of awe-inspiring 3D illustrations and dramatic animations... of the drag and drop simplicity of hundreds of fully-realised 3D models and the limitless power of application extensions. Ray Dream Studio™ - four seamlessly integrated components that together create the most powerful and affordable 3D imaging suite available for the Macintosh and Windows: Ray Dream Designer™ 4, Ray Dream Animator™, Dream Models™ and Extensions Portfolio.

Ease of Creation

• Scene Wizard™ - Automatically creates professionally designed indoor/outdoor and logo scenes complete with lighting effects, backgrounds and props. Or create your own virtual photo studio. Intuitive and Easy-to-Use

• Seamlessly Integrated Environment - all the tools you need to create and animate 3D illustrations; no switching from one application to another.

Cutting-Edge 3D Tools

• Unlimited Cameras - All the tools a photographer uses: isometric perspective and zoom cameras with dolly, pan and track control. View your scene from any camera at any time.

3D Animation

• Total Control Timeline Animator - A fully editable score with user control of keyframe events, object attributes, cameras, lights and scenes.

Rendering Controls

• Ray Tracing Rendering Engine - Highest quality rendering option generates pixel perfect images and animations.

Special Effects

• 3D Paint - Brush brilliant colours, wild patterns, extraordinary textures onto the surface of your 3D model - even bump and transparency maps. Every brush stroke automatically conforms to even the most complex object surface.

Added Value

• Over 500 fully-textured Dream Models - Created in Ray Dream Designer format by leading 3D model vendors Acuris, Inc. and Viewpoint Datalabs. Fully editable, these "smart" 3D models are animation ready.

Ray Dream Designer 4

The world's leading 3D illustration program enables graphics users of all types to easily create digital images with the visual impact and photorealism of 3D.

Ray Dream Animator

Bring your 3D scenes to life! Easily animate your objects to add another dimension to your portfolio. Ray Dream Animator includes high-end features such as inverse kinematics, movies as textures and deformations that give your animations unbelievable realism. Ray Dream Animator puts you in the director's chair.

Dream Models

Over 500 fully-textured models in Ray Dream Designer format. These drag-and-drop models, created by some of the world's best 3D modellers, feature fully-editable textures and shapes.

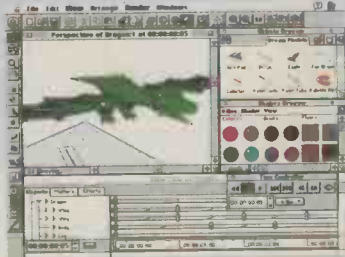
Extensions Portfolio

Ray Dream Studio comes with its own documentation for creating custom add-ons. The Extensions Portfolio includes some amazing extras such as a beam light and star-shaped objects.

Build and arrange objects in the perspective window

3D Paint: Brush colours and textures directly on your 3D object

Total Control Timeline: full editable animation score



Customisable Tear-off Tool Palettes

Over 500 fully editable 3D Dream Models created in Ray Dream Designer format

Integrated Animation: 3D illustration and animation in one program

RAY002 Ray Dream Studio **£189**

RAY001 Ray Dream Designer **£89**



Import/Export

• Import CorelDRAW™, Adobe Illustrator™, Macromedia FreeHand™, WMF, CGM and PICT files directly into Ray Dream Designer's modeler

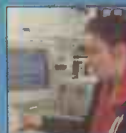
• Import texture maps in TIFF, PICT, BMP, TGA, PCX, Adobe Photoshop™, or any file format for which you have a Photoshop acquire plug-in

• Import/Export DXF models

• Export TIFF, PICT, JPEG, BMP, TGA, Adobe Photoshop, or any file format for which you have a Photoshop acquire plug-in

• Animation output: QuickTime™ and AVI (Microsoft Video)

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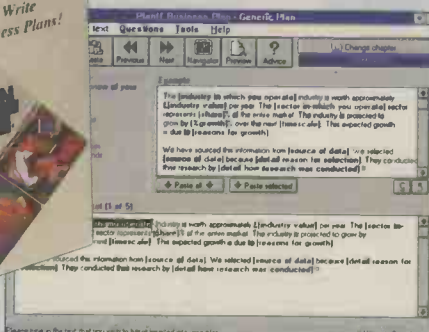
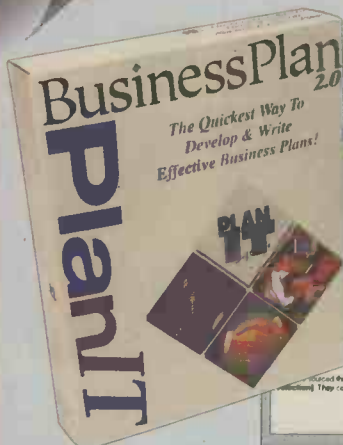
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PlanIT Business Plan

Business Plan 2.0 is an easy to use package that creates structured business plans for any size of company. It provides users with relevant questions and sample answers from which to create a business plan. It automatically formats it with headlines and subheads, even inserting your company details throughout. Simply answer the questions and fill in the blanks - Business Plan 2.0 does the rest!

You can preview your plan at any stage - Business Plan 2.0 files are compatible with practically all Windows Word Processor packages or you can print directly from within Business Plan 2.0.

Market Analysis

Business Plan 2.0 helps you identify opportunities and threats to your business through an in-depth analysis of your company, products, competition and industry.

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Business Plan 2.0 helps you to develop effective sales and marketing strategies and present them in a coherent manner.

which both potential investors and employees will easily grasp. Business Plan 2.0 will provide the right marketing plan and information for you to cross check as your business starts to grow.

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Much valuable time is wasted collecting and collating information when developing and writing business plans. Business Plan 2.0 has done this work for you, providing information in a number of ways, namely:

- On-Line Help & Advice
- Contact Database
- On-Line Business Forum

Over 70 Sources of UK Funding

With over 70 sources and methods of gaining funding, Business Plan 2.0 is an invaluable source of information, advising you on how to effectively secure vital funds necessary for any successful business. Sources include venture capital, factoring, private financing, government and EC grants, and many more.

3 Year Plans... Instantly!

Financials include:

- 1-3 Year Projected Balance Sheets
- 1-3 Year Projected Profit & Loss
- 1-3 Year Projected Cash Flows
- Break-even Analysis
- Ratios

Business Plan 2.0 removes the drudgery of creating financials from scratch, endlessly copying the same information between spreadsheets. Business Plan 2.0 features pre-structured financial templates ready for use, simply type in your income and expenditure details and Business Plan 2.0 will automatically calculate totals, percentages and ratios, creating your projected financials for 3 years. Numbers flow from one financial statement to another and you can use your spreadsheet to graph any item in your financials.

Reference Database

Business Plan 2.0 features an on-line database containing thousands of useful names and addresses - including MPs, ombudsmen, research institutes, trade and consumer associations, institutes and societies. These details can be copied and pasted into other packages.

Business Information Forum (BIF)

Users of Business Plan 2.0 are entitled to 90 days to free access to Plan-IT's on-line business forum, B.I.F., which contains extensive information on business subjects. It covers topics such as:

- Funding & Debt Collection
- Exporting
- Tax, Law & Accountancy
- Marketing Research & P.R.

- Direct Marketing & Advertising
- Employment and Health & Safety

All of the information provided on B.I.F. is compiled by a panel of experts from across a wide range of industries. BusinessPlan 2.0 users will automatically be kept up to date.

What you say about PlanIT Business Plan

"This is an excellent example of business productivity software which will make the user's life easier as well as the intended recipient of the business plan, for example, bank managers like myself!"

Bank Manager, Small Business Loans Dept.

"I found this an intuitive package that lead me through the process of writing a business plan in an easy to follow, step by step process."

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"This package will save me hours of time when developing business plans for my clients!"

Richard Wall, Management Consultant

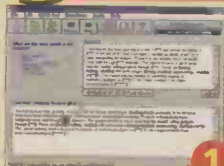
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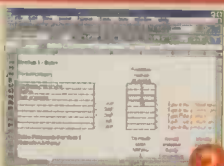


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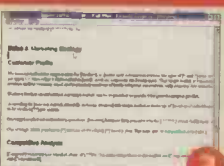
5 EASY STEPS TO PRODUCING EFFECTIVE BUSINESS PLANS OR YOUR MONEY BACK!



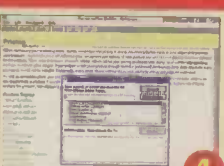
PlanIT Business Plan
Provides relevant questions and sample answers from which to create a business plan. Automatically formats your business plan with headlines, subheadings, and company details. Plus, QuickText allows you to insert recurring phrases, names and dates.



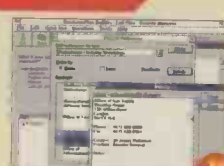
Projected Financials
Pre-structured financial templates are ready to use - simply type in your company income and expenditure details and Business Plan 2.0 will calculate totals, percentages and ratios, creating your projected financials for three years ahead.



Print Preview
View your plan at any time in Print Preview mode. Your plan is automatically formatted with all the headers and sub-headers in place. You can print directly from Business Plan 2.0 or use your favourite Word Processing package.



On-Line Help
Extensive on-line expert advice is available on the subject of writing business plans. Context-sensitive help ensures that all business reference information is available with a single mouse click, and comprehensive search options make it all easy.



Reference Database
On-line database of thousands of useful names and addresses. Includes MPs, ombudsmen, research institutes, trade and consumer associations, institutes and societies, and health & safety organisations. All information can be copied into other packages.

A massive 39,000 items in stock across 4,000 different product lines. Nobody delivers faster!

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News



We have just doubled our warehousing capabilities by expanding into the next unit allowing us to hold even more stock.

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EVERYTHING FOR YOUR PC - NEXT DAY!

First Aid 95 for Windows 95

Fixes Windows crashes, automatically fixes over 1,000 known problems in Windows 3.11 and Windows 95 and cleans your Windows system to remove clutter and improve performance.

It can take hours to track down even a simple problem in your Windows system. When you call Technical Support you're put on hold for ages and when you finally get to speak to someone, it's difficult to explain the problem accurately, let alone implement a solution.

To create First Aid we analysed thousands of Windows problems and then built the exclusive "AutoFix" technology to automatically sense and actually fix thousands of problems in your Windows system. Running in the background, First Aid pops up when it senses a problem and tells you what the problem is in plain English. Then, a click on "AutoFix" corrects the problem. No other product available can do this!

Works with Windows 3.11 and 95

First Aid V2 works with both Windows 3.11 and Windows 95! So, before you upgrade to Windows 95, make sure your system is ready with First Aid. Once you've installed Windows 95, First Aid will continue to monitor your system to assure optimal performance.

Fixes Windows crashes

When a program on your PC crashes it means frustration and a complete loss of work. With First Aid 95, you won't see cryptic messages or lose all your work since the last time you saved it. First Aid 95 actually intercepts most crashes and lets you save your work in all open applications!

Automatically fixes over 1,000 problems in Windows 3.11 & 95
It's maddening when you can't get the spell checker to work or the multimedia system to play. There are so many configuration files, drivers and settings to mess around with that it's virtually impossible to try and fix the problem. With First Aid, you won't have to because it uses a built-in extensive knowledge base to fix problems.

Cleans your Windows system to improve performance

It's easy for your Windows system to become cluttered with unwanted applications, icons and fonts. These not only take up disk space, they also slow down your PC. First Aid can: Uninstall applications, Clean Up configuration files, Tune Up the PC for optimal performance, and FIX problems.

FREE On-Line Updates!

As newer applications are released and more problems and remedies are identified, CyberMedia continually enhances the knowledge base to support these.

Now includes uninstaller!

First Aid now comes complemented by a powerful uninstaller application to keep your system uncluttered.



WHAT THE PRESS ARE SAYING ABOUT FIRST AID 95

"...takes the headaches out of installing multimedia peripherals."
Erica Schroeder, PC Week

"I put First Aid to the test by hiding a common DLL file... Predictably, Windows balked. But First Aid came to the rescue, searching my hard disk, finding the misplaced DLL, and copying it to where it belonged. Pretty amazing."
Steve Bass, PC World

"...easy to use, comprehensive, and efficient... First Aid would be an excellent addition to any PC system."
Daniel Brown, Info World

RR007 First Aid for 95 on 3.5" **£38⁹⁵**

RMG015 First Aid for 95 on CD **£38⁹⁵**

£38⁹⁵
RRP £49.00

Dashboard 95 for Windows 95



Dashboard can be used vertically or horizontally

INFOFAX: 30003



It's The Simplest Way to organise Windows 95!

Like the dashboard in your car, the new native 32bit Dashboard 95 for Windows 95 helps you to get to where you want to go by keeping everything close at hand. Launch applications, check your system's memory usage, disk space and resources and at last - Windows printing made easy! Dashboard 95 makes choosing and using a new printer simple, just click on an icon of the new printer and Dashboard does the rest. New for 95 are Dashboard's Virtual Screens. This innovative and useful feature allows you to open applications on up to 9 virtual screens and then switch between them with a simple mouse click.

STOCK CODE: DAS004

DASHBOARD 95 ONLY
£28⁹⁵
RRP £49.00

DA5002 Dashboard for Windows 3.1 **£27**



Price Pledge



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- 3 Order before 4pm and use tomorrow
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- 5 Buy mail order or retail
- 6 Always lowest prices
- 7 No hidden surcharges
- 8 Free technical support
- 9 Award-winning service
- 10 8am-8pm (Mon-Fri)

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Sidekick 95 for Windows 95

It's The Simplest Way to Stay Organised!

Simple to use, easy to learn and incredibly powerful - Sidekick is already the best-selling personal organiser ever. The new 32-bit Sidekick 95 uses the power and flexibility of Windows 95 to get you organised quicker. Taking up a fraction of the memory other PIMs use, you can keep it running all the time without affecting your system's performance.

Sidekick 95 helps simplify your life - not complicate it. With the Improved drag-and-drop Interface, there's no need to enter information twice or complete complicated import / export procedures. Sharing information between the Calendar, Cardfile, Wordprocessor, Expenses Tracker and Contact Manager is as easy as moving your mouse across the desktop. Sidekick 95 will even dial your phone! Using Windows 95's new "Plug-and-Play" technology, Sidekick automatically looks for and configures any installed modem.

New for Sidekick 95 is an integrated word processor with all the features you need for day-to-day letter writing and document production. What's more it's linked directly to the Cardfile database, so writing properly addressed letters or even mail merging is just a mouse click away. To make life easy, Sidekick automatically prints letters, schedules, notes, names and addresses in over 70 different formats including labels, envelopes and popular paper organiser formats like Filofax™.



Starfish UK

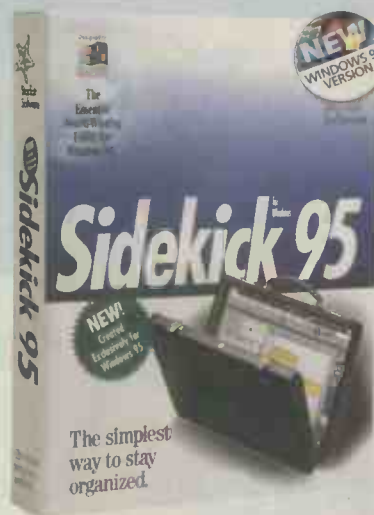
INFOFAX: 30004

SIDEKICK 95

STOCK CODE: SID004

£28⁹⁵
RRP £49.00

510002 Sidekick 2.0 for Windows 3.1 **£27**



Next-day delivery only £6* E&OE. All prices are plus VAT and delivery and are subject to change and availability.

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For ordering information and terms & conditions, see page 2.

CompuServe Address: 102354,1150

Infofax Number **0891 518 050**

How to use & charges see page 2



EVERYTHING FOR YOUR PC - NEXT DAY!

Touchstone WINCheckIt 4.0

WinCheckIt 4.0 from Touchstone is the all-in-one Windows problem solver for Windows 3.1 and 95!

WINCheck It 4.0 provides optimum performance while keeping problems to a minimum.

Here are some reasons why you need the all-in-one Windows problem solver!

Be Sure You Don't Have a Hardware Problem!

When something goes wrong, the first question is: Is it Hardware or Software? If you've got a hardware failure, you'll need to have someone repair it. But if the problem is a setup or compatibility issue, you can often fix it yourself, perhaps with a little technical help over the telephone.

- Tests Main System Board
- Tests Serial and Parallel I/O Ports
- Test Hard Drive • Test Floppy Drive
- Tests Memory (RAM)

Make Room for More Programs & Data Files!

Let WINCheck It help you with your housekeeping. Over time, every hard drive accumulates a lot of unnecessary files - like temporary files, duplicates, old versions of applications, and setup programs that are no longer needed. Use WINCheck It to quickly identify unwanted files and clean up disk space. WINCheck It finds unnecessary files.

- Duplicate Files • Empty Files
- Empty Directories • Files by Extension
- Files by Size • Files by Date & Time

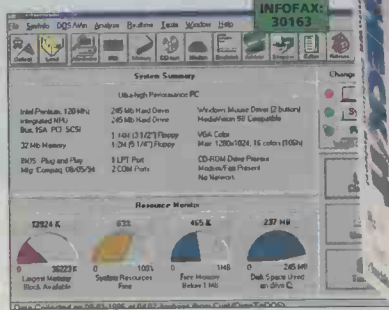
Recovery That Works Even When Windows Won't!

Not all change is good. Sometimes installing a new application, updating the operating system, or even the changes YOU make, just don't work. WINCheck It will help you undo these changes:

- Restore WIN.INI and other system files from Windows or DOS
- Find Hardware Changes • Restore CMOS Settings
- Find DOS or Windows Setup Changes
- Cut & Paste Between INI Files

WINCheck It features :

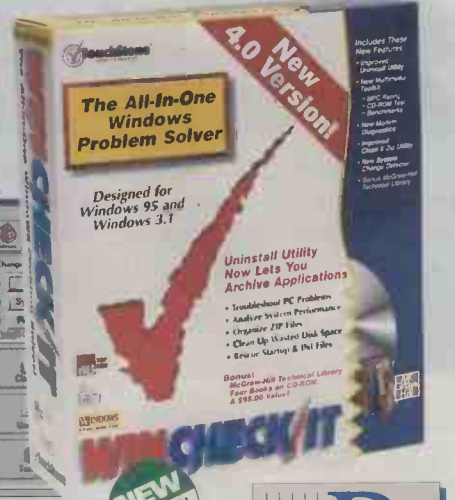
- Improved Uninstaller with program archiving options for safer uninstalls
- New One-of-a-kind CD-ROM diagnostic
- Improved Clean & Zip utility
- New comprehensive Modern Diagnostic
- Windows 3.1 and Windows 95 compatible
- New multimedia benchmarks for thorough system performance testing



Get Rid of Unwanted Windows Applications!

Everyone has them - Windows applications that don't work right, or that you just don't use any more. But getting rid of them isn't easy because the programs and their related files may be scattered throughout several directories! WINCheck It presents you with a list of your current program groups, then helps you identify and delete the following files for any program item, with your permission, of course!

- Program Item Icon
- Program Executable
- Files in Related Program Directory
- Related INI Files
- Files in Related Working Directory



STOCK CODE: WIN093

£38⁹⁵



FastMove!

Copies files from one PC to another, FastMove! Includes all necessary software and cables. More than ever people are using multiple PCs - a system at work, a PC at home, a notebook for travelling.

With all this increased mobility, users need a fast but safe, powerful but easy to use, feature rich but inexpensive way to keep their files up-to-date across multiple PCs.

FastMove! shows you which files need to be updated, then allows you to select just the ones you want and preview the exchange of files before it occurs.

The graphic interface lets you synchronise PCs and drag - and drop selected files without leaving the main screen. A state of the art virus remover scans each file as it's transferred, keeping your PC safe from contamination. Despite the virus scan, the transfer across FastMove's PC-to-PC parallel port cable still averages over 20% faster than other transfer methods.



The Fast, Easy Way to Transfer Files

- Shows You Which Files Need to be Updated
- Scans Each File for Viruses
- Synchronises PCs with Up-to-Date Files
- Simple Interface for Problem-Free Transfers
- Selects Just the Files You Want
- Includes Windows and DOS versions
- Plus: PC-to-PC Transfer Cable

INCLUDES FREE CABLE!

FAST MOVE!

FastMove Features Include :

- Supports simple one-way transfers or full two-way synchronisation
- As you transfer, FastMove! scans each file for viruses
- Free nvirus scan updates available on Touchstone's BBS and on-line forums
- 20% faster than Laplink™ (parallel)

STOCK CODE: FAS005

£39⁹⁵

A massive 39,000 items in stock across 4,000 different product lines. Nobody delivers faster!

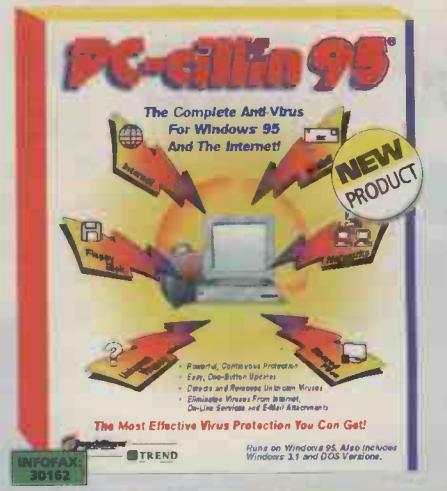
PC-cillin 95

The protection you need! Windows 95's sophisticated communication and multi-tasking capabilities have created a virtual breeding ground for viruses - demanding that you must have powerful, continuous protection.

PC-cillin 95 is the only anti-virus package that has what it takes to guard your Windows 95 system.

Advance features Include powerful internet defense, one-button virus pattern updates and total protection throughout all your shared folders.

Don't leave your system's defense open for attack - get the protection you need with PC-cillin 95.



INFOFAX: 30162

Runs on Windows 95. Also includes Windows 3.1 and DOS Versions.

RMG009 PC-cillin £39⁹⁵

PC-cillin 95

WIN '95 Advisor

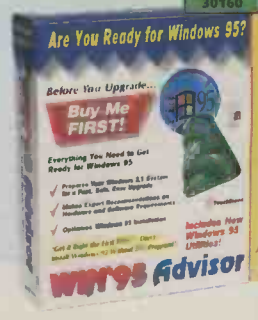
Are you ready for Windows 95?

WIN '95 Advisor is designed to take all the guesswork out of installing Microsoft Windows 95 and prepare your Windows 3.1 system for a fast, safe and easy upgrade.

Make the right decisions with Win 95 Advisor and install Windows 95 right the first time.

Primarily a Windows 3.1 application, the program will rate your current system then, based on the results of the rating, help you plan for key installation options. Don't try to install Windows 95 without it!

WIN '95 Advisor £14⁹⁹



INFOFAX: 30160

Free Gift!

"When you buy from Software Warehouse you get a FREE gift with every order. Don't forget to ask when you call."

See page 2 of advert for details.

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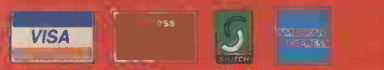
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Lotus

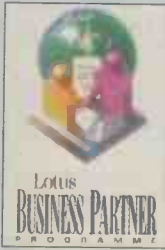
Lotus supplies its products and services through the reseller channel only. As a Lotus Premium Business Partner, Software Warehouse plc receives our full support for its marketing initiatives, staff training and the promotion of new Lotus products. Software Warehouse plc will be playing a key role in the distribution of our products to a diverse market and we will continue to work closely with them to ensure that our customers get what they want, when they want it.



LOTUS BUSINESSES OPTIONS

Lotus License Pack (LLP)

If more than one copy of a Lotus application or comms package is needed, then you must buy one regular copy of the product which will include full documentation and master disks. For every other machine that you wish to install the product on, you can purchase a Lotus License for that machine (LLP). These can be purchased as a single license or in 20 packs.



Unit Values:
Organiser and CC Mail = 0.50 point
Single Applications = 1 point
SmartSuite = 2 points

Lotus Passport

Designed for organisations that require large numbers of licenses for Lotus products. With an initial order of just 50 points, you can enrol into the passport scheme, and benefit from preferential pricing on the Lotus range of Software. The minimum reorder level is only 20 points. Passport licenses can be used on different sites, even in different countries, and are available for DOS, Windows, Unix or Macintosh. Passport is probably the versatile license programme available today.



This is just a sample of Lotus' products.

LOTUS LLPs

Word Pro Single LLP	£73
Word Pro 20 User LLP	£1360
Approach Single LLP	£73
Approach 20 User LLP	£1420
Lotus 1-2-3 Single LLP	From £78
Lotus 1-2-3 20 User LLP	From £1540
SmartSuite Single LLP	From £149
SmartSuite 20 User LLP	From £2849
Lotus Notes	£POA

LOTUS Passport

entry level pricing i.e. 50 points	
Word Pro	£32 per user
Approach	£54 per user
Lotus SmartSuite	From £117 per user
Lotus 1-2-3	From £54 per user
Lotus Notes	£POA

Call our Corporate team now and let them work out the best solution for your companies needs!!

Word Pro 96 - Productivity for Teams, Power for Individuals!

Lotus Word Pro 96 rethinks word processing, revolutionising the way people create, review and edit text and documents.

Lotus Word Pro 96 is a new breed of word processor - designed for the way you work today. The first and only Team Word Processor, it combines powerful writing and editing features with breakthrough ways to collaborate and share ideas.

Lotus Word Pro 96 Key features:

- Easy to create, revise and edit shared documents with revolutionary Team Word Processing features.
- Breeze through everyday word processing tasks and get great-looking output with Smart Word Processing features
- Get the most out of Working Together with Lotus Word Pro 96 and its rich integration with Lotus SmartSuite and Lotus Notes. You can even share work over the Internet.
- Exceptional filters bring in all your current word processing files - without losing your formatting.
- Team Computing features bring in all the contributions of the team while providing the individual with control over documents.

LOT113 Lotus Word Pro '96 **£89⁹⁵** INFOFAX: 30007

Lotus SmartSuite 4.0 is now even better value!

If you own ANY competing software suite, ANY competing spreadsheet, word processor, database, or graphics program, or ANY other Lotus product - Call us now, you qualify for the Lotus SmartSuite upgrade. No proof needed, we trust you!

Full boxed product inc. manuals and disks. No vouchers, etc.

All five leading applications from Lotus are available individually (see features) or in this new release of Lotus SmartSuite Version 4.

SmartSuite 4 includes the Lotus 1-2-3 Release 5 spreadsheet, the Approach 3.0 database, the Word Pro 96 word processor, Lotus Organizer V2 and the Freelance Graphics presentation package. All are specifically designed to take advantage of Notes/FX 1.1, the Lotus facility for exchanging data bidirectionally between desktop applications and Lotus Notes.

SmartSuite V4 now also includes Lotus' multimedia screen and sound-capture utility, ScreenCam 1.1. The SmartCenter Icon Palette is included and allows easy switching and drag-and-drop copying between applications.



LOT016 SmartSuite V4 CD **£168⁹⁵** INFOFAX: 30008
LOT016 SmartSuite V4 3.5

Lotus SmartSuite 96

It's the new desktop solution for your team

Lotus SmartSuite 96 is the best suite available for you and your team, bringing together your five most important desktop tools: the Lotus 1-2-3 spreadsheet, the Lotus Approach database, the Freelance graphics presentation package, the Lotus Organizer personal information manager and the new WordPro 96 word processor.

Lotus SmartSuite 96 Key features:

- Its unique Team Computing features enable you to easily communicate and collaborate with other colleagues and SmartSuite users.
- Lotus' innovative interface is consistent throughout all the SmartSuite 96 applications. If you're familiar with one, you're familiar with them all!
- The new and exclusive SmartMasters and Lotus Assistants give users an easy and quick way to increase productivity.
- SmartSuite 96 is truly integrated so it works the same way that you do - moving from one task to the next, whether you're working in one application or between them.
- Lotus SmartSuite 96 takes full advantage of the new Windows 95 operating system.

INFOFAX: 30005 LOT140 Lotus SmartSuite 96 CD **£168⁹⁵**
LOT143 Lotus SmartSuite 96 3.5



Lotus 123 is the spreadsheet that has everything you need to make your everyday tasks easier. With multiple spreadsheets now available under one file name, it's even easier to transfer data from one spreadsheet to another within a group of spreadsheets.

LOT108 Lotus 1-2-3 V5 From **£84⁹⁵**

Lotus Approach makes managing data as easy as Lotus 123! And you don't have to be a programmer.

LOT062 Lotus Approach V96 **£82⁹⁵**

Lotus Organizer is a full-feature PIM that allows you to manage your time and work.

LOT078 Organizer V2.1 **£89**

Lotus ScreenCam V2 is the full-featured application for all your multimedia needs.

SCR003 Lotus ScreenCam V2 **£82⁹⁵**

Lotus Freelance Graphics lets you influence, persuade or inform at your next meeting.

LOT108 Freelance V96 From **£84⁹⁵**

INFOFAX: Lotus 123 - 30010

INFOFAX: Lotus Approach - 30011

INFOFAX: Lotus Organizer - 30012

INFOFAX: Lotus ScreenCam - 30013

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EVERYTHING FOR YOUR PC - NEXT DAY!

Paintshop Pro V3.12

Fast and fully-featured photo-editing and graphics conversion in one program! Now you get the Windows 95 and Windows 3.1 versions in the same box!

Paintshop Pro is a highly popular graphics conversion program that now includes full photo-editing facilities. New tools include clone brush, crayon, chalk and user-definable brushes. Special effects and filters include Contrast, Emboss, Wind, Perspective, plus support for Adobe plug-ins. Paintshop Pro offers the features of packages many times its price! You can quickly convert between image formats either singly or in batches. Paintshop Pro supports all major graphics formats including PCX, IFF, TGA, PNG, PSD, PhotoCD, CDR and WMF-licensed to use patented GIF and TIF format images. You can capture Windows screens as a whole or as a selection. Supports TWAIN scanners, and includes free browser and sample photos.



PA1003 Paintshop Pro V3.0..... **£49⁹⁵**

Paintshop Pro V3 & Kai's Power Tools SE Bundle

You can now get two great award-winning graphics programs in one amazing value package.

Paintshop Pro is now available with award-winning Kai's Power Tools plug-in filters. Your creativity will soar with these famous graphics effects tools which work within Paintshop Pro to offer fantastic effects for photoimages with amazing flair. Create your own Plug-in filters or use the ready made ones supplied. Ideal for beginners and professionals alike. Includes KPT Gradient Designer and a useful range of ready-made effects (Pixel Storm, Glass Lens Normal, Find Edges Charcoal, Diffuse More etc.)



PA1004 Paintshop Pro V3.0 & Kai's Power Tools..... **£69⁴⁵**

Illuminatus V3

Illuminatus features everything you need to make multimedia work for you!

Illuminatus gives you everything you need to create your own edutainment programs for kids, catalogues and newsletters on disk, computer-based training, special material for special needs, interactive curriculum vitae, multimedia encyclopedias, audio visual greetings cards, multimedia scrapbooks and more without the need for any programming skills.

Quickly and easily combine text and graphics!

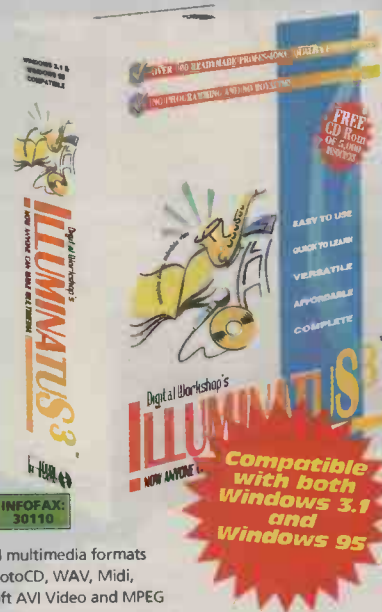
You can quickly and easily combine text, graphic, sound, animation, video and actions onto screen-sized pages. Publish interactive multimedia documents on all kinds of floppy disk and CR-ROM. It's as easy to use as a DTP program but as powerful as an authoring tool.

Supports industry standard multimedia formats

Illuminatus v3 supports industry-standard multimedia formats including PCX, BMP, TGA, TIFF, Kodak PhotoCD, WAV, Midi, AutoDesk Animator FLC/FLI files, Microsoft AVI Video and MPEG motion video.

Includes Free CD-ROM!

Illuminatus includes over 5,000 clipart images, sound files, animations, icons and buttons plus over 100 professional-quality multimedia publications for you to adapt for highest-quality interactive programs in moments. Full tutorials are included.



ILL001 Illuminatus v3 **£99⁹⁵**

Hauppauge!

Hauppauge TV Cards are the easiest way to turn your PC into a TV!

Hauppauge introduces the Win/TV celebrity and Prisma cards, 16 bit multimedia PC cards that run under Windows 3.1X, Windows NT, Windows 95 and DOS 6.X. They display full motion television in a resizable overlay window on a PC Screen, and can capture 24 bit colour still images. Both cards feature on board teletext, which can be viewed on your desktop PC.



HAP002 Hauppauge Prisma **£149**
 HAP001 Hauppauge Celebrity **£269**
 HAP009 Hauppauge Celebrity & FX/T **£409**

SuperPrint 4.0

Recommended for printing Windows documents.

SuperPrint 4.0 allows you to print your documents lightning fast. Works with all popular laser, ink jet and dot matrix printers. Improves your output quality by sharpening greyscale and colour images. Includes 10 new printing tools not found in Windows 95, also works with Windows 3.1 and Windows NT.



SUP019 SuperPrint 4.0 **£39⁴⁵**

Pressworks V.2

The award winning DTP and Graphics program in a 'once-in-a-lifetime' bundle.

GSP have long been the leaders in graphics and DTP. This award winning bundle, includes the latest versions of both Pressworks & Designworks. Both of these packages make drawing and designing simple. With their easy to use interfaces, producing even the most complex DTP document is easy. And for a limited period get three additional CDs, containing 5000 Clipart Images, 1000 fonts and 1500 photos. This bundle has a suggested retail price of over £150.



GSP011 GSP Graphics & DTP Ultimate Bundle **£59⁹⁹**

Gift Voucher
 With every order you will automatically receive a voucher book with over £600 of genuine savings provided by the manufacturers that we closely work with. It pays to shop at Software Warehouse!

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Graphic Artpad II from Wacom

Professional graphics tablets for designers, illustrators and Graphic Artists.

ArtPad II has all the features of a mouse and more but needs less space than an average mousemat. It functions as easily as using paper, pencil and an eraser by just pointing, clicking, dragging, freehand drawing, painting or writing becomes simple.

ArtPad II includes the lightweight UltraPen Eraser which is pressure sensitive and operates without cords or batteries. With drawing and painting applications like CorelDRAW! Dabblier and Painter you can vary line thickness, colour intensity or other tool properties by pressing harder with the pen.

The Wacom ArtPad is a high-tech product from the leading manufacturer of graphics tablets for DTP.

WAC001 Wacom ArtPad II	£149 ⁹⁵	WAC002 A5 Tablet	£349
WAC004 Wacom ArtPad II + Dabblier	£179 ⁹⁵	WAC005 A5 Tablet + Painter 3	£499
WAC003 Wacom ArtPad II + Painter 3.0	£389 ⁹⁵	WAC006 A4 Tablet	£469
		WAC007 A3 Tablet w/Menu Overlay	£599
		WAC008 A3 Tablet w/Electrostatic	£689

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SOFTWARE WAREHOUSE

HOT PERIPHERALS

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PRIMAX *The leaders in scanners!*

Primax are the largest suppliers of mice, pointing devices and scanners that you've probably never heard of - and they've chosen Software Warehouse as its first business partner to market their range in the UK.

Primax are one of the world's leading manufacturers in mice, game pads, sound cards, speakers, scanners, cables, printer-share devices, and communications hardware. The extensive range of scanners includes handscanners (colour & black and white), flatbeds, mobile scanners and pen scanners so whatever your needs may be, Primax will have something for you.

All Primax products are supplied with a two-year warranty and are backed by years of intensive research and development. Software Warehouse will be stocking the leading products from the Primax range in both our retail outlets and through our mail-order operation.

Primax Scanners

This exciting new range of Primax scanners are ALL supplied with Finishing Touch photo-styling software and ReadIRIS text recognition software (OCR). ALL are TWAIN compatible and come with UK support and warranty.

Primax Greyscale Hand Scanners

The Primax greyscale scanners scan at 100/200/300 and 400 dpi and have a wider than normal scan width of 105mm. The 32 greyscale scanner will actually scan up to 256 using software emulation. The 256 greyscale scanner scans at true 256 greyscales via its hardware.

- PR1101 Primax 32 Greyscale.....**£39⁹⁵**
- PR1102 Primax 256 Greyscale.....**£49⁹⁵**

Primax Colour Mobile Scanners

The mobile version includes all the features as the handscanners, but also includes motorised rollers. This unique feature allows a hand scanner to perform at the same accuracy as a flatbed scanner. You simply place the scanner on the image to be scanned and press the start button on-screen, and the scanner automatically moves itself across the image. It determines the speed of scanning with reference to computer speed and image complexity. This is absolutely essential for colour or greyscale images.

It also connects to your parallel port, making it ideal for use with portables or in offices where more than one person needs to scan images and documents.

- PR1104 Primax Colour Mobile.....**£129⁹⁵**
- PR1120 Primax Colour Office.....**£169⁹⁵**
- PR1127 Primax Flatbed Scanner.....**£269⁹⁵**

Primax Paperease

A True A4 Scanner

The Primax Paperease scanner also offers the functions of a photocopier and fax machine. Just scan the document you wish to fax into your fax software.

If you want a hard copy of your document, just drag it into the print icon...it's as easy as that to print! And this at a rate of up to 10 full pages per minute.

- PR1129 Primax Paperease.....**£119⁹⁵**



INFOFAX: 30117

Primax DataPen

Simply the fastest way of entering text and, on average, 20-30 times faster than using the keyboard. Run the DataPen over the text and it will input text from where the cursor lies. The OmniFont OCR software runs in the background and allows it to recognise any font between 8pt and 22pt text size. It can be used in all applications running under Windows. There's even a spell checker in 11 languages. The DataPen is easy to install and connects to your standard parallel port.

- PR1105 Primax DataPen.....**£119⁹⁵**



INFOFAX: 30116

Vista Colour Scanner

High performance budget colour scanners from the world's largest digital imaging manufacturer.

An outstanding specification at an incredible price! The UMAX T630 gives you 600x300dpi optical scan resolution for up to 4800dpi output, via a triple pass scanning mechanism. Comes with Photoshop LE software, SCSI interface and all cables. The T-630 was awarded PCW Editor's Choice in July 1995 - "...Raw colour scans are accurate, bearing a great resemblance to the originals and easily corrected. This is our budget best buy, putting many more expensive scanners to shame."

All UMAX scanners come with Presto productivity Suite which consists of OCR, Archiving, Fax, E-Mail and Image Editing software.

- vis050 UMAX Vista T630.....**£297⁹⁵**



INFOFAX: 30115

PageOffice

A single solution for transforming piles of paper into useful information on your PC.

The PageOffice hardware/software combination is capable of importing printed documents whether text or graphics, into your computer - processing them and then delivering each to its appropriate location. This great value bundle comes complete with all the software you need for scanning text, graphics and all the utilities you need to file your documents, E-mail your documents, fax them, print them or even edit them. The PageOffice is an easy to use input device that acts as the electronic equivalent of an in-tray for your personal computer. The PageOffice comes complete with SCSI interface and cable, a ten-sheet automatic document feeder and scans at 300dpi. This revolutionary scanner scans a full A4 page in just 6.4 seconds. All UMAX scanners come with Presto productivity Suite which consists of OCR, Archiving, Fax, E-Mail and Image Editing software.

- PAG030 UMAX PageOffice.....**£238⁹⁵**



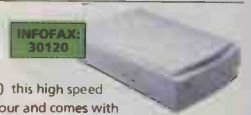
INFOFAX: 30121

Vista S8

High image quality, single pass A4 colour scanner.

With an optical resolution of 400x800dpi (interpolated up to 6400x6400dpi) this high speed scanner brings out the richness and detail of originals. It captures 24-bit colour and comes with powerful scanning software that includes auto-density, descreening and network scanner sharing facilities. All UMAX scanners come with Presto productivity Suite which consists of OCR, Archiving, Fax, E-Mail and Image Editing software.

- vis052 UMAX Vista S8.....**£537⁹⁵**



INFOFAX: 30120

SICOS Colour Page Scanner

Scanning, faxing and copying

The SICOS 24 bit colour A4 page scanner allows you to scan pictures and it also recognises text so that you can convert documents into text files without retyping. Improve your business presentations and reports with coloured images and start a paperless office by filing, retrieving and faxing images and documents.

- Compatible with HP Scanjet II driver (necessary for multiple page scanning) and TWAIN driver.
- Software - Photo Plus for image processing, Textbridge V.2 for OCR and Sicos Fax/Copy utility.
- Scanning modes: 16.8 million true colours and 256 greyscale, dither (half tone) and line art. • Resolution: up to 1200dpi
- Scan width: up to 216mm - full A4 page. • Scan speed: 3.5 ppm (lineart mode).
- Scans in a single pass. • Scanner automatically calibrates colour.
- Auto sheet feeder supplied: up to 50 pages.
- Interface card supplied: 16 bit ISA with 6 IRQs - 3, 4, 5, 10, 11, 12.
- No power cable required - power is supplied through interface card and 25 pin cable is supplied.
- 3.5" Driver disk supplied with full User's Guide and Test photograph.
- Dust cover supplied.
- Compact size: 335 x 240 x 95mm (LxWxH).
- Weight: 4.5K.



New low price!

INFOFAX: 30118

- sic001 SICOS Colour Page Scanner.....**£199⁹⁵**

Price Pledge

"We will beat any advertised price."

Subject to terms on page 2 of advert.

MICROTEK ScanMaker II - The best value A4 flatbed around?

MICROTEK has spent 10 years investing in scanner research and development, resulting in a comprehensive range of high quality scanners for both beginners and professional users.

The economical ScanMaker II is an all-rounder that is probably the best value A4 flatbed scanner on the market today. It reproduces your hard copy in 16.7million colours at a maximum resolution of 1200 x 1200dpi. It can even be specially equipped to meet your specific needs. For instance, if most of your scanning is text-based just add an ADF-600 50-page document feeder; or for film scanning, choose the backlit TMA-II transparency attachment.

All MICROTEK scanners include a TWAIN-Module for TWAIN-compliant Windows software plus an additional ASPI driver and a SCSI card.

- sca001 Microtek ScanMaker II.....**£294**

Next-day delivery only £6⁹⁵ E&OE. All prices are plus VAT and delivery and are subject to change and availability.



Microtek ScanMaker II only £299

INFOFAX: 30115

MICROTEK ScanMaker II Specifications

Type: 24-bit colour flatbed scanner
 Maximum resolution: 1200 x 1200dpi (Interpolated)
 Scanning area: 21.6 x 35.6cm (approx. A4)
 Optical resolution: 600 x 300dpi
 Scanning modes: 1-bit / 64 greyscales simulated
 8-bit / 256 greyscales; 24-bit / 16.7million cols.
 Scanning method: 3-pass with RGB filter

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- 5 Buy mail order or retail
- 6 Always lowest prices
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- 9 Award-winning service
- 10 9am-6pm (Mon-Fri)

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For ordering information and terms & conditions see page 25. **WAREHOUSE** How to use 8 discs see page 2.

EVERYTHING FOR YOUR PC - NEXT DAY!

Intel Pentium® OverDrive® Processor Upgrades

Better Performance For Today's and Tomorrow's Applications!

Today's software applications - both at the office or in the home - are demanding greater processing power than ever. Spreadsheets can never calculate fast enough and graphics always redraw too slowly. If you attempt to run Windows 95 on your Intel486™ processor-based PC, you'll find that features such as multitasking will tax your system beyond belief. That's why you need to consider the Intel Pentium® OverDrive® Processor Upgrade.

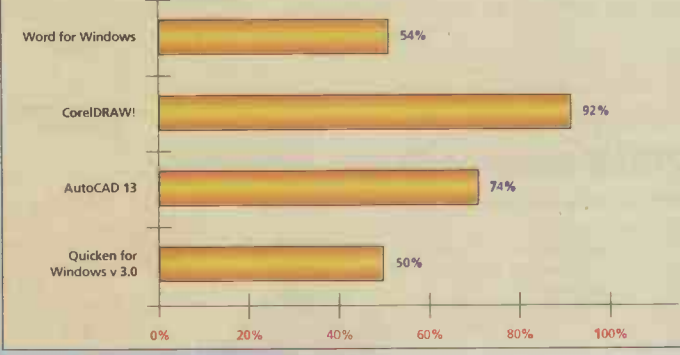
The Advantage of Pentium-Based Performance

The Pentium OverDrive processor is the highest-performance OverDrive processor upgrade available. It features Pentium processor superscalar architecture, enhanced on-chip cache and faster floating point, a 32-bit bus interface, and an on-package voltage regulator and fan heatsink. It also offers a 3:2 bus ratio, that operates the OverDrive processor at two and a half times the speed of the system bus. A system upgrade with a Pentium Overdrive processor delivers a substantial performance increase to most Intel 486 CPU-based systems. For example, an upgraded IntelDX2 66-MHz CPU-based system will realise more than a 50% performance increase in most typical applications (performance results depends on your system configuration and the applications used).

Upgrade Your PC to run Windows 95 more effectively!



Software Performance Increase After Upgrading



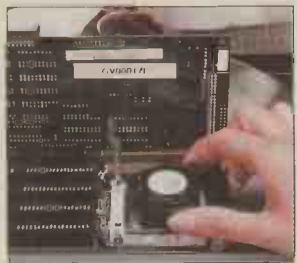
Frequently Asked Questions About the Intel Pentium® OverDrive® Processor

What is a Pentium® OverDrive® processor?

The Pentium OverDrive processor is the highest-performance OverDrive processor upgrade available today. It provides a simple, inexpensive performance upgrade for most IntelSX2™ and IntelDX2™ systems, as well as a superior upgrade option for many Intel486™ SX and DX CPU-based systems.

Is the Pentium OverDrive processor really a Pentium® processor?

Yes, it is a true Pentium processor. It is based on 3.3 volt, 6 micron Pentium processor technology, the same used by the range of 75-120MHz Pentium processors available today. In addition to featuring Pentium processor superscalar architecture, enhanced on-chip cache and faster floating point, it also offers a 32-bit Interface, an on-package voltage regulator and fan heatsink, and a 5:2 core:bus ratio that operates the OverDrive processor at two-and-a-half times the speed of the system bus.



How much of a performance increase will be gained with a Pentium OverDrive processor?

In comparing the relative performance of the Pentium Overdrive processor with an Intel DX2-66MHz CPU-based system, the Pentium Overdrive processor has an iCOMP (Intel Comparative Microprocessor Performance) index of 581, representing a 96 percent increase over the Intel DX2-66MHz system (iCOMP index 297). The Pentium OverDrive processor delivers a substantial performance increase for many of today's applications (see table above left). For example, an upgraded Intel DX2-66MHz CPU-based system will realise more than a 50 percent performance increase across most typical applications like Word for Windows, CorelDRAW and Quicken for Windows (depending upon the system configuration and applications used).

News



We will be exhibiting at the Windows 96 Show at Olympia at the end of February 1996. For the best deals at the show please visit our stand.

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Upgrading an IntelDX2 66-MHz System

In addition to providing improved performance for today's software applications, upgrading with a Pentium OverDrive processor gives your system enough power for more demanding operating systems like Windows 95 and emerging communications and video applications. Increased processing power also makes games more fun. By upgrading your CPU, keyboard and control, responsiveness improves as well as the quality and detail of the graphics. In fact, many of today's games are designed to offer different levels of detail based on the performance of your systems CPU. These games will recognise your system's Pentium OverDrive processor upgrade and automatically turn on key graphic features without sacrificing performance.

IntelDX2 and IntelDX4 Overdrive processor upgrades

Also available are these OverDrive upgrades. The IntelDX4 OverDrive processor is a mainstream CPU upgrade for Intel486 SX and DX-based CPU-based systems. It features "speed tripling" technology, a larger 16K cache and an on-chip math coprocessor, as well as an on-package voltage regulator and heatsink.

The IntelDX2 OverDrive processor is the entry-level CPU upgrade designed for Intel486 SX and DX CPU-based systems. It features "speed doubling" technology, an on-chip math co-processor, and an attached heatsink.

The Pentium OverDrive processor is available in two versions, based on your system's bus speed

Present System	Pentium® OverDrive® Processor Upgrade	Stock Code	Price
33-MHz Intel486 - or - 66 MHz IntelDX2™	83-MHz Pentium OverDrive Processor	INT019	£187⁹⁵
25-MHz Intel486 - or - 50 MHz IntelSX2™ - or - IntelDX2	63-MHz Pentium OverDrive Processor	INT018	£174⁹⁵



Call for DX2 and DX4 OverDrive® Processor® Upgrades

PRICES FROM

£174⁹⁵

INT018 63-MHz Pentium OverDrive Processor.....

INFOFAX: 30005

A massive 39,000 items in stock across 4,000 different product lines. Nobody delivers faster!

To Order By Telephone Call 01675 466 467



For ordering information and terms & conditions, see page 2.



EVERYTHING FOR YOUR PC - NEXT DAY!

Super Desktop Video Editing!

Miro Video DC1 Plus

The ultimate desktop video editing system for Windows!



The ideal video solution for real-time capture and play back of video sequences comes with Adobe Premier or VideoStudio software. Capture digital VHS video to your hard disk and add transitions, titles and special effects, then print to tape in full-size NTSC or PAL, with SVHS and VHS quality, and up to 16.7 million colours. Comes complete with MJPEG hardware compression. There are no jumpers or dip switches to set and you get a two year warranty. DC1 Plus includes Premier 4.0 LE, Photoshop LE & Asymetrix 3DFX Complete.

MIR015 DC1 Plus	£299	INFOFAX: 30027
MIR013 Miro PCM10 Sound Card	£79	
MIR014 Miro PCM1 Pro Sound Card	£129	
20TD Live 2Mb VLB or PCI	£295	
12PD Live 1Mb VLB or PCI	£89	
12PD Live 2Mb VLB or PCI	£129	

miroCONNECT 34 Wave

miroCONNECT is not just a fast Fax/Modem or a high quality DSP sound card but an integrated H/W & S/W solution.



With 100% Word and Excel compatible S/W totally integrated into the miroCONNECT 34 office provides you with seamless communications. At work or at play miroCONNECT 34 Office will play your favourite sounds at high quality. The communications feature brings complete telephone capabilities to your home or office in an easy one-slot solution. With no jumpers to set and a complete suite of communications and audio software, you'll be productive within minutes.

This card is the ultimate in communications solutions for your PC, surf the 'Net, graze CompuServe, listen to your latest CD whilst it deals with your telephone calls... all in one card!

MIR012 MiroCONNECT 34 Wave	£239	INFOFAX: 30028
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Movie Machine Pro - Video Digital Centre

Editing with Movie Machine Pro is easier than anything you've ever done. Use Movie Studio to choose your video sources, mix or cut and then use the T-Bar to add real-time digital effects: fades, zooms, flips, colour reversals, mosaic, luma and chroma keying, etc. Of course, you can also set the speed and direction of the effects.



FAS011 Movie Machine Pro	£275⁹⁵	INFOFAX: 30023
FAS005 Movie Machine II (includes tuner)	£485⁹⁵	
FAS006 MJPEG Extension Card for MM II	£289⁹⁵	
FAS007 MPEG Extension Card for MM II	£234⁹⁵	
FAS008 Movie Machine II Power Pack (Includes MJPEG & MPEG)	£984⁹⁵	
Fast FP/5 60	£484⁹⁵	
FAS009 MJPEG Extension Card for MM Pro	£284⁹⁵	

CyberRomCD from IC

The portable CD ROM drive for AutoRoute Express.

Plan all your trips while on the move using the CyberRomCD and Microsoft AutoRoute Express. There are over 100,000 miles of road and more than 33,000 place names to access on CD-ROM making this the complete portable solution for travelling, using the CyberRomCD.

cyb005 Microsoft AutoRoute Express/CyberRomCD Promotion	£279⁹⁵	
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Portable Sound Plus

A true plug and play Windows 95 sound solution.

The Portable Sound Plus is a parallel port-based 16bit sound card which has its own printer pass through point. It comes with a high fidelity speaker and a built-in microphone with line-in/out jacks for use with CD-ROM drives and external speakers.

cyb010 Portable Sound Plus	£109⁹⁵	INFOFAX: 30033
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Quad Speed PC Card CD-ROM

The first quad speed drive available for plug and play under Windows 95!

This plug and play compatible CD-ROM drive gives the ultra-fast speed required for use with large applications, video and animation. With the CyberRomCD Quad you will find no rivals on the road to multimedia.

cyb011 Quad Speed PC Card CD-ROM	£379⁹⁵	
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Panasonic Quad Pro IDE



Includes everything you need to upgrade your PC.

- New quad speed CD ROM drive
- PowerIDE™ software to eliminate conflict with hard disk drive
- Complies with MPC level 3
- 32-bit disk access
- Video-CD and CDI movie
- Includes all accessory parts for quick, trouble free installation
- Optional IDE interface card available

PAN008 Quadro Kit IDE	£115⁹⁵	
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Panasonic PD System

- Quad speed CD-ROM drive and 650Mb rewritable optical disk drive. Removable 650Mb optical
- SCSI-2 interface for Mac or PC
- Core! 5C311™ supports most SCSI host adapters
- CD-ROM function supports video CD and CDI movie
- Includes all accessory parts for quick trouble-free installation

PAN007 PD Kit w/out I/F card	£475	
PAN009 PD Kit with I/F card	£525	
PAN010 650Mb Optical disc	£35⁹⁵	



INFOFAX: 30031

Fast Delivery



Order before 4pm and get your order next day
Subject to terms on page 2 of advert

Western Digital Drive Kits

The Western Digital range of hard drive kits offer, the highest level of quality backed by a three year warranty.

A major step forward in upgrading your PC - these drive kits contain everything you need to easily extend the storage capabilities of your PC; A Caviar 3.5" quick access time drive, rails, screws, 5 1/4" chassis, manuals and installation disk. The Western Digital Installation disk will even get around the limitations on drive partition sizes, set by DOS, allowing your new drive to be configured as one large partition (no need for separate drive letters). The cost per megabyte of these new storage devices, is in fact now cheaper per megabyte than a floppy!

WES006 Western Digital 540MB IDE Kit	£139
WES0007 Western Digital 850MB IDE Kit	£149
WES008 Western Digital 1.2 GB IDE Kit	£209
WES010 Western Digital 1.6 GB IDE Kit	£299

Please note: Before buying bare drives, please check you have the necessary cables and fixings, as they do not come with individual drives. You will also need a screwdriver and remember to power down your PC before removing the cover.

Pictured above right are the Western Digital Caviar drives (without top cases!). These high quality drives come with a 3 year manufacturers warranty.



WES003 IDE Western Digital AC2850A 850Mb	£149
WES005 IDE Western Digital AC3312 1280Mb	£195
WES010 IDE Western Digital 1.6Gb	£269

Next-day delivery only £6* E&OE. All prices are plus VAT and delivery and are subject to change and availability.

Order by telephone 01675 466 467 Order by fax 01675 466 460

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CompuServe Address: 102254 1150

Internet Number: 0891 518 060*

How to use & charges see page 2

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PERIPHERALS LISTINGS

SOFTWARE WAREHOUSE

How to use our listings

Over the next four pages are a selection of our best selling products. If you don't see what you are looking for please call our sales team who will be more than happy to help. Don't forget these prices were correct at the time of going to print, so please call before ordering and we will ensure that you get the lowest possible price in the UK. If you see a product highlighted in blue then the number in brackets indicates the page number where the product is featured.

Key NOR031 Norton Utilities (P12)£83

All products highlighted in blue are featured earlier in our catalogue - the page number is shown in brackets



With any order get UFO CD-ROM for Windows for only £3.99!



PRICE PLEDGE
If you find it cheaper CALL US!
We will beat ANY advertised price.
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PERIPHERALS LISTINGS

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INTD18 Intel 486 to Pentium 63Mhz (Page 26)£75
INTD19 Intel 486 to Pentium 83Mhz£198

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COL006 Colorado DJ35/350Mb Int£79
COL008 Colorado Jumbo DJ50 1400Mb Int£195
COL011 Colorado Trakker 700Mb Ext£199
COL012 Colorado T1000 800Mb Int£149
EKA001 Exabyte 2501C 2Gb Ext£559
EKA002 Exabyte FS1Ge 2 Gb Ext£689
EKA003 Exabyte 4200C Int 4mm Dat£865
EKA004 Exabyte 4200C Ext 4mm Dat£1235
IOM005 Iomega Tape250 Parallel£149
WAN001 Tanberg Panther 250MegInt£543
TAN002 Tanberg Panther 250Mg Ext£640
WAN002 Wangdat 3100 2Gb Internal SCSI£365
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WAN004 Wangdat 3100 2Gb Ext SCSI£643
WAN009 Wangdat 3200 4Gb Ext SCS£685
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MULTIMEDIA KITS

SOU019 Gameblaster Cd Kit 4X£288
SOU030 S/Blast Cd16 Discovery 4X£265
SOU100 Soundblaster Home Cd Kit£279

SOUND CARDS

SOU018 Creative S/Blaster Awe32 IDE£159
SOU027 Creative S/Blaster Awe32 Value IDE£122
SOU015 Creative S/Blaster 16 Value IDE£160
SOU017 Creative S/Blaster 16 Pro Adsp£108
GRA013 Gravis Ultrasound Max£133
MIR010 MiRo Pcm 1 Pro£128
MIR011 MiRo Soundwave 16 Bit VVV£88
MIR014 MiRo PCM10 Sound Card£81
MIR012 Microconnect 34 Wave£239
POR001 Portable Sound Plus£129
PRI116 Primax Bravo 16 Bit Fm£63
PRI117 Primax Wavetable 32£95

SPEAKERS

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SPK005 Altec Ac150 Subwoofer£87
LAB002 Labtec Power Speakers£19
MIC099 Microphone£24
PRI053 Primax 60W Pmpo£29
PRI054 Primax 120W Pmpo£43
PRI055 Primax 240W PMPO Speakers£49
PRO008 Pro Digital Speakers£29
SBE001 Screenbeat Speakers£12
YAM002 Yamaha M10 Speakers£44
YAM001 Yamaha 103 with Sub Woofer£79
SPK001 Zy-Fi Stereo Speakers£25
SPK002 Zy-Fi Prof. Speakers£39

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CHF002 CH Flightstick Pro£48
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GRA011 Gravis Analogue Pro£31
SOU101 Joystick Splitter Cre/Lab£12
LOG025 Logitech Wingman£24
LOG026 Logitech Wingman Extreme£34
MAC026 Mach 1 Plus Joystick£17
MIC349 MS SideWinder (Page 4)£40
MIC350 MS SideWinder X Fury£54
PRI052 GamePad 2 Player - Infa Red£34
PRI121 Game Controller 1 Player£27
JOY002 Quickshot Warrior 5 Pc£12
QUO107 Quickshot Apache 1£9
QUO108 Quickshot Starfighter 5£9
QUO109 Quickshot Super Warrior 5£14
JOY003 Suncom FX 2000 For Pc£15
TOR002 Tornado Analogue Joystick£9

GRAPHICS CARDS

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928002 928 Movie & Sound ISA 1Mb£169
928003 928 Movie 1 Meg Ram U/G£69
928004 928 Movie Vid/Log ISA 1Mb£139
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BAH002 Bahamas VLB 64Bit 1MbDram£105
BAH003 Bahamas PCI 64Bit 2MbDram£154
BAL001 Ball Card 32Bit PCI 1Dram£79
BAL002 Ball Vesa 32Bit 1Mb Dram£79

BAR001 Barbados PCI 64Bit 2Vram£210
CAP001 Captivator Pro£169
CAP002 Captivator Pro & Tv£219
SOU022 Creative Tv Coder£119
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DIA015 Dia/Stealth 64Vram 2Mb PCI£199
DIA016 Dia/Stealth 64Video 2Mb Vram VLB£199
ORC012 Fahrenheit 64 VLB or PCI 1Mb£139
ORC034 Fahrenheit 64 VLB or PCI 2Mb£139
ORC035 Fahrenheit Pro VLB or PCI 2Mb£225
ORC036 Fahrenheit Pro VLB or PCI 4Mb£295
Due Dec Fahrenheit Pro Video 2Mb VLB NewL£Call
Due Dec Fahrenheit Pro Video 4Mb VLB NewL£Call
Due Dec Fahrenheit Pro Video 2Mb PCI NewL£Call
Due Dec Fahrenheit Pro Video 4Mb PCI NewL£Call
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FAS012 Fast Mjpeg Option£289
FAS014 Fast FPS 60£489
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GRA02X Grafixstar 300 VLB or PCI 2Mb£139
GRA01K Grafixstar 500 VLB or PCI£135
GRA016 Grafixstar 700 VLB or PCI 2Mb£269
GRA02X Grafixstar 700 VLB or PCI 4Mb£389
GRA01X Grafixstar 300/500 1Mb UG£59
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HAPO02 Hauppauge Win/Tv Prisma (Page 24)£148
HER011 Hercules Term. VLB-64 or PCI 2Mb£249
HER01X Hercules Term. VLB-64 or PCI 4Mb£379
ORC01X Kelvin 64 VLB, ISA or PCI 1Mb£95
ORC01X Kelvin 64 VLB, ISA or PCI 2Mb£119
MAT010 Matrox Impr. Plus PCI 2Mb£269
MAT011 Matrox Impr. Plus ISA 2Mb£287
MAT008 Millennium/21 2Mb/Wram PCI PnP£349
MAT009 Millennium/41 4Mb/Wram PCI PnP£349
MIR004 MiRo Video 20T VLB or PCI£315
MIR004 MiRo Video Dc1 +Premier£399
MIR004 MiRo Video Dc1 + Studio£299
MIR005 MiRovideo 12P 2Mb Dram VLB or PCI£134
MIR002 MiRovideo12PD 1Mb Dram VLB£99
FAS006 MJPEG Extension For MM II£289
FAS009 MJPEG Extension For MM Pro£289
FAS005 Movie Machine II Incr Tuner£489
MOV008 Movie Machine II Power Pk£989
MPE001 MPEQ Player - Videologic£209
FAS007 MPEQ Extension For MM II£239
FAS015 MPEQ Extension For FP/560£239
STB016 Nitro Cirrus 5434 1Mb ISA£95
STB01X Nitro Cirrus 5434 2Mb PCI or ISA£139
ROM003 Rombo Media Pro Plus£189
ROM004 Rombo Media Pro Hi - Res£209
STB01X STB P/Graphics PCIorVLB-64 2Mb£149
STB01X STB Veloc. VLB or PCI -64 Mpeg 2Mb£219
STB01X STB Veloc VLB or PCI 64 Mpeg 4Mb£329

CD-ROM DRIVES

AZT001 Aztech 6X Int Speed Drive£139
PCM011 CD 952 Pcmda Drive£220
NEC055 Enhanced IDE I/F For Cd's£29
GOL002 Goldstar Dual Speed I_de£69
GOL003 Goldstar Quadspeed Cd Rom£119
KOD002 Kodak Pcd225 Cd Recorder£1496
NEC040 Nec 4X Speed E/IDE Drive£119
NEC044 Nec 4X External Quad Spd£399
NEC045 Nec 6X Internal£259
NEC046 Nec 6X External£365
PAN001 Panasonic CR 562 Dualspeed£49
PAN008 Panasonic 4X Internal full kIt (P 27)£148
PAN007 Panasonic 4X PD (Page 27)£475
PAN009 Panasonic 4X PD with SCSI I/F (P 27)£525
COR020 Phillips CDD 521 CD Recorder£2657
COR010 Pioneer DRM-624X Dual 6Disk£489
COR011 Pioneer DRM-604X 4Spd 6Disk£997
COR012 Pioneer DRM-1804X 4Spd 18Disk£1428

MICE

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SYS001 IMSI System Mouse£15
STY002 IMSI Stylus (Serial)£29
MOU005 IMSI Mini Trackball£25
MOU006 IMSI Serial Pebble Mouse£25
LOG02K Logi Mouseman Sensa Wood or Pearl£38
LOG02K Logi Mouseman Sensa Leopard or Black£38
LOG03K Logi Mouseman Sensa Black£38
LOG03K Logi Chroma Mouse Orange or Blue£24
LOG03K Logi Chroma Mouse Blue or Green£24
LOG030 Logitech Cordless Mouse£53
LOG010 Logitech Trackman II£402
LOG020 Logitech Pilot Mouse II£17
LOG022 Logitech Pilot II Ps/2£18
LOG015 Logitech Pilot Trackball£29

LOG035 Logitech My Mouse£22
LOG036 Logitech Trackman Voyager£48
LOG037 Logitech Trackman Vista£43
LOG038 Logitech Trackman Live£99
LOG011 Logitech Trackman Portable£32
LOG039 Logitech Mouseman Combo£34
MIC002 Ms Home Mouse (Serial) '95£21
MIC003 Ms Mouse Ps2/Serial Comb '95£35
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MAI007	Mathcad 6 Student Edition £35
MAI006	Mathcad Personal £43
MAI013	Mathcad V6.0 Plus £339
MAI012	Mathcad V6.0 Standard £169
PLA001	Planix (Office Space Planning) £86
PLA003	Planix Home Architect £39
SOF001	Softkey Key Draw! Plus V3 £28
TUR017	Turbocad 10 User License £159
TUR018	Turbocad For Windows V2 £53
TUR021	Turbocad U/G To V2 £29
VIS038	Visual Cadd Comp Upgrade £189
XCA001	Xcad 3.0 (P22) £369
XCA002	Xcad Demonstration Disks £9

DOS VERSIONS	
AUT019	Autodesk V3 For Dos £65
FAS003	Fastcad (Dos) 3D £355
TUR019	Turbocad V3.2 (Dos) £53

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WINDOWS VERSIONS	
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CAR005	Carbon Copy V3 £82
COM002	Commworks £99
COM012	Compuserve Value Pack (Page 12) £28
CRO001	Cross Talk £89
DIA017	Dial Pro £99
NOV005	Groupwise 5 User License £299
INT011	Internet In A Box £95
INT012	Internet Members Kit V2.0 £40
INT014	Internet Members Kit Win CD £40
LOI070	Lotus cc. Mail Grp Pk 10 Use. £446
LOI055	Lotus cc. Mail Mobile Rel 2.2 £115
LOI123	Lotus Notes Server Win V3.3 £249
LOI051	Lotus cc Mail 10 User Lic £287
LOI067	Lotus Notes Win Client 3.3 £289
LOI089	Lotus cc Mail Desktop £70
LOI092	Lotus Notes Express £133
LOI114	Lotus Notes Starter Pack £579
LOI115	Lotus Notes Desktop Lic £139
LOI131	Lotus Notes Server for NT 3.3.1 £262
LOI130	Lotus Notes Client full for Windows £275
MIC315	Ms Mail Server/ Net V3.5 £299
MIC336	Ms Mail Pk Serv. 10Us V3.5 £299
MIC198	Ms Mhs Gateway £412
MIC199	Ms Post Office W/G U/G £220
NCR016	PC Anywhere Win V2 £99
NCR030	PC Anywhere Lan. £389
NCR023	PC Anywhere Host 2 £67
NCR024	PC Anywhere Remote £67
PRO003	Procom Plus For Windows £56
QAO001	Qmodem Pro (Win) £59
QQA021	Quarterdeck Internet Suite £69

REA002	Reachout Host/View v 5 £79
REA003	Reachout Host For Modems £59
REA004	Reachout Modems Viewer £57
REA006	Reachout 10 User Lan Lic £139
REA007	Reachout/Network 5 User Lan £145
REF001	Reflections 4 / V4 Win £238
REF004	Reflections 1 / V4 (Win) £249
EAA003	Remote Winmail £109
SMA001	Smart Term 340Emulator V4 £176
TER001	Termite 3 Asynch Win/Dos £169
TER004	Termite 3.0-Net For Win £239
TER006	Termite 6 Single User £169
TER007	Termite V3 Async Comp U/G £99
WE6001	Web Author (3.5) £70
DEL022	Win/Pro V4.1 by Delrina Net St Kt Ug £129
DEL017	Wincomm Pro By Delrina £56
WIN039	Winfax Pro V4 £55
WIN040	Winfax Pro V4 U/G £32
WIN049	Winfax Net Start Kit V4.1 £176
WIN090	Winfax Scanner New User £239
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DEL023	Winfax Pro Server V4.1 £97
WIN066	Winmail Network 5 User £229
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WIN068	Winmail Network 50 User £1299

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ACT004	Act For Windows V2 £138
ACT007	Act V2 Lan Pack (4 Node) £379
ACT008	Act V2 10 User License £129
ACT005	First Act £65
ALP004	Alpha 5 For Windows New!! £69
ALP010	Alpha 5 Home & Bus. Edt £40
ASK001	Askam £93
ASK002	Askam V1 - V2 Upgrade £54
BOR023	Borland ReportSmith V2.5 £59
CLA002	Clarifilemaker Pro V1.1 (Page 14) £80
CLA005	Clarifilemaker Pro 2.1 5 User £559
DAT005	Database Express (Win) £199
DAT011	Database Developer £199
DAT025	Database V5 £98
MIC038	Fox Pro 2.5 Mlp £214
MIC039	Foxpro 2.5 20Mlp £3699
KEY005	Key Database £29
KEY008	Key Database Plus £29
LOT062	Lotus Approach V3 £81
LOT063	Lotus Approach V3 U/G £76
MIC076	Ms Access Dev Tool Kit V2 £225
MIC148	Ms Access V2 £218
MIC174	Ms Access V2 Ccp U/G £81
MIC282	Ms Access Solutions Pack £36
MIC285	Ms Access V2 Educational £129
MIC305	Ms Access For Windows 95 £225
PAR015	Paradox Runtime (Win) V5 £239
BOR021	Paradox V5. Devel Tools £149
PAR018	Paradox V5 £95
PAR019	Paradox V5 U/G & Comp Ug. £59
PAR020	Paradox 7 for 95 £99
PAR021	Paradox 7 for 95 upgrade £69
Q&A002	Q & A For Windows £142
Q&A004	Q&A For Nworks 3 User Lic £259
ADD004	Rapid Address Program £149
BOR026	ReportSmith Sql £169
SID004	Sidkick For Win '95 £29
SUP002	Superbase 4 V2 Developer £499
SUP005	Superbase V2.0 £159
SUP007	Superbase V2 Dev Edition £606
TRA008	Tracker (Stand Alone) £189
TRA009	Tracker 5 User Network £599
TRA010	Tracker 10 User Network £1106
BOR105	Visual Dbase For Win £209
MIC322	Visual Fox Pro V3.0 Prof £312
MIC324	Visual Fox Pro V3.0 Stan. £139

DOS VERSIONS

ACT003	Act Server 5User £598
ACT002	Act! for Dos £189
REF002	Borland Reflex V2.0 £172
CLI003	Clipper Tools £289
CLI005	Clipper Release 5.2 £289
DAT024	Database V5 £376
DBA010	Dbase V5 For Dos £370
FOX014	Fox Pro V2.6 Std. (Dos) £71
FOX016	Fox Pro V2.6 Prof. Dos £79
PAR013	Paradox V4.5 Comp/Ug Dos £128
PAR014	Paradox Runtime (Dos) £99
PAR017	Paradox Engine £99
Q&A001	Q&A V4.0 (Dos) £215

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COR006	Corel Ventura V5 CD £199
COR047	Corel Ventura V5 Floppy £289
CRE020	Creator £79
FIR003	First Press For Windows £19
FON001	Fonts Windows £9
GST001	GST Publishing Partners £79
GST002	GST Pressworks 2 £25
HAR024	Harvard Asap (Page 14) £89
ILL001	Illuminatus V3.0 £85
INT016	Internet Publishing Kit Cd £72
MIC022	Micrografix Designer V4.1 £287
MIC073	Ms Publisher V2 £65
MIC165	Ms Publisher Design Pack £29
MIC317	Ms Publisher V3.0 3.5" £67
MIC318	Ms Publisher V3.0 CD £65
PAG032	Page Plus for '95 £30
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PAG023	Page Plus Photo Plus £29
PAG027	Page Plus 3 Pub Suite CD £75
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PAG005	Pagemaker V5 20Usr Edu Ec £1654
PAG014	Pagemaker V5 Educational £199
PAG018	Pagemaker Classic £55
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QUA014	Quark Express V3.3 (Win) £559

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FAN001	Fanatasia £179
TIM012	Timeworks V3 Dos £55

GRAPHICS

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FIR002	1st Design £23
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COR033	Corel Draw 5 CD U/G from V4 £115
COR032	Corel Draw 5 3.5" U/G from v4 £145
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COR031	Corel Draw 5 CD U/G from v3 £195
COR122	Corel Draw 6 '95 CD (Page 17) £260
COR123	Corel Draw 6 U/G from 3 or 4 £220
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COR054	Corel Photopaint 5 Plus Cd £48
COR133	CorelDRAW New! (Page 17) £159
COR040	Corel Sampler £8
DES012	Designer Powerpack C/U CD £139
DES014	Designer Powerpack Cd £345
DES013	Designer Powerpack U/G CD £154
DES009	Designworks V2 Win £59
DES015	Designworks V3.0 £29
VIS056	Double Vision (Page 19) £80
DRAP007	Drawplus V2.0 (CD) £36
EAO011	Elastic Reality £249
FLY003	Flying Fonts Win CD £153
FRA007	Fractal Painter 3.0 £296
IMA001	Imagepals 2 £143
JAG001	Jaggies Are Gone £69
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LOT069	Lotus Smartpics Windows £84
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MED003	Media Studio £199
PAG029	Monster Cd From Serif £9
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MOR010	Morph Movies On Cd £37
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PAI001	Perform For Windows £47
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PHO001	Photofinish V3 £29
RAY001	Ray Dream Designer 3 (Page 19) £89
SIM009	Simply 3D & Corel 3 Bundle £62
SIM008	Simply 3D 1.0 (Page 19) £43
VIS057	Simply 3D Superpack £70
HAR012	Softlight £89
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TOP004	Topview Fast Forms £25
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TRU003	TrueSpace By Caligari (Page 16) £449
TRU004	TrueSpace V2.0 £369
VIS054	Visual Reality V1.5 (Page 16) £100
VIS055	Visual Reality V2.0 (Page 16) £199
WAL003	Walk Through Pro - Pc £149

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ABC001	ABC Flowcharter V4 £215
ABC005	ABC Flowcharter V4 Lic £189
ABC002	ABC Flowcharter V4.0 C/U £99
ABC003	ABC Flowcharter V4.0 U/G £99
ABC007	ABC Graphics Suite C/U '95 (Page 18) £239
ABC006	ABC Graphics Suite Win'95 £239
COR034	Corel Flow £37.25
NowDer	Corel Flow v3 for '95 New! £CALL
HAR023	Harvard Chart Xl V2 £143
VIS040	Visio 4 (Page 18) £99
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VIS035	

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OFF003	Ca Office.....	£99
OFF002	Ca Super Office.....	£99
FRA004	Frameworks V4.....	£349
LOT006	Lotus Works V3.....	£85
SYM002	Lotus Symphony V3.....	£405
MIC061	Ms Works 3.0 For Dos.....	£84
PF5007	PFS 151 Choice.....	£29

LANGUAGE

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ASY003	Asymetrix Toolkit V3.....	£119
ASY002	Asymetrix Multimedia Tool.....	£489
BOR101	Borland C++ & D/Base Tool U/G CD.....	£149
BOR098	Borland C++ & V4.5 CD Rom.....	£187
BOR016	Borland C++ V4.5 CD.....	£222
BOR017	Borland C++ V4.5 C/U CD.....	£99
BOR020	Borland C++ V4 Assembler.....	£54
TUR060	Borland Turbo Assembler.....	£58
BOR099	Borland C++ 4.5 U/G CD.....	£98
DEL006	Delphi By Borland CD.....	£155
DEL007	Delphi Client Server.....	£679
DEL008	Delphi C/U.....	£119
DEL009	Delphi Rad Pack.....	£125
MIC188	M.S. Visual Tools Suite.....	£175
MIC236	Ms Sql Server 421A Win Nt.....	£658
MIC222	Ms Visual C++ V2 Cd Rom.....	£265
MIC225	Ms Visual Control Pack.....	£69
MIC240	Ms Visual C++ V2 Mips.....	£465
MIC326	Ms Visual Basic V4 U/G.....	£39
MIC327	Ms Visual Basic V4 Std.....	£68
MIC328	Ms Visual Basic Pro V4 CD.....	£298
MIC185	Ms Visual Test 4.0 New!.....	£440
MIC329	Ms Vis/Basic Pro V4 U/G.....	£108
MIC330	Ms Vis/Basic Pro V4 U/G CD.....	£107
MIC331	Ms Vis/Basic Pro V4 C/U.....	£199
MIC332	Ms Vis/Basic Pro V4 U/G CD.....	£199
MIC333	Ms Vis/Basic Enterprise.....	£607
MIC334	Ms Vis/Bac Enterprise U/G.....	£359
SYM006	Symantec C++ V7.....	£149
TUR003	Turbo Pascal V1.5.....	£79
TUR064	Turbo C++ V4.5 For Win.....	£61
VIS039	Visual Express by CA.....	£243

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MAC004	Ms Macro Assembler V6.11.....	£95
MIC071	Ms Visual Basic 1.0 Std.....	£79
TUR005	Turbo C++ V3.0.....	£55
TUR008	Turbo Pascal V7.0.....	£75

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KEY010	Key Spreadsheet Plus.....	£25
LOT017	Lotus Improv.....	£92
LOT029	Lotus 123 V2.4 Lan Server.....	£387
LOT030	Lotus123 Adt License.....	£199
LOT061	Lotus 123 V5.....	£219
LOT108	Lotus 123 Trade Up.....	£88
EXC004	Ms Excel V5 Win.....	£224
MIC141	Ms Excel V5 Upgrade.....	£85
MIC286	Ms Excel For Windows 95.....	£225
MIC287	Ms Excel For Win 95 C/U.....	£107
MIC288	Ms Excel For Win 95 U/G.....	£82
QUA017	Quattro Pro V6.....	£149
SUP012	Supercalc (Win).....	£68
SUP014	Supercalc Dos To Win U/G.....	£49

DOS VERSIONS

LOT060	Lotus 123 V4.....	£287
QUA011	Quattro Pro V5.5 (Dos).....	£45
SUP004	Supercalc For Dos.....	£68

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ECO002	Ecco Professional.....	£148
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ARC002	Arcserve V5.01 Net 5 User.....	£165
ARC003	Arcserve V5.01 Net 10User.....	£337
ARC005	Arcserve V5.01 Net 50User.....	£643
ARC010	Arcslo For Windows.....	£80
ACE002	Asymmetric Media Blitz.....	£49
BUB003	Bubblehelp.....	£14
CLA002	Calendar Creator Win.....	£25
CLE009	Cleansweep.....	£27
CLE010	Cleansweep 95.....	£35
COR016	Corel Cd Power Pack.....	£25
COR062	Corel Cd Creator.....	£103
DAS004	Dashboard P5 For Win 95 (Page 21).....	£29
SOL002	Dr Solomans Av (14/Ly).....	£70
SOL010	Dr Sols Antivir Monthly.....	£145

SOL008	Dr Solomans Audit/Manager.....	£298
FAR001	Farside Daily Planner.....	£49
FAS013	Fastnovae (Page 21).....	£30
FIR006	First Aid For Windows.....	£35
FIR007	First Aid 95 For Win 95 (Page 21).....	£30
FOR018	Form Toolgold For Win.....	£50
FRA006	Franklin Ascend.....	£132
GAM002	Game Runner (V2).....	£39
LAR003	Labels Unlimited.....	£27
LAP007	Laplink For Windows.....	£88
LOT078	Lotus Organizer V2.1.....	£88
MAG020	Magnaram.....	£29
MAG021	Magnaram 95.....	£35
MAP010	Mapvision Gb.....	£139
MAP011	Mapvision Central London.....	£139
MIC192	Microsoft Test.....	£399
MIC193	More Pc Tools.....	£45
MIC223	MS Office Assistant.....	£59
MIC160	MS Multimedia.....	£89
MIC161	MS Schedule+1.0 5Pack Win.....	£189
MIC162	MS Schedule+1.0 20Pack.....	£597
MIC298	MS Schedule + For Win 95.....	£69
MIC120	MS Windows Sound System 2.....	£46
NOR032	Norton Utilities/95 Trade Up.....	£49
NOR035	Norton AntiVirus 95 Trade Up (P.12).....	£28
NOR037	Nor/Navigator 95 Trade Up (Page 12).....	£34
NOR018	Norton Backup V3 Win.....	£89
NOR020	Norton Desktop (Win) V3.0.....	£88
NOR021	Norton Antivirus V3 Win/D.....	£94
NOR022	Norton Utilities V8 W/Dos.....	£85
NOR031	Norton Utilities / Win 95 (Page 12).....	£84
NOR033	Norton Utilities Win 95CD.....	£84
NOR034	Norton Antivirus Win 95.....	£59
NOR036	Norton Navigator Win 95 (Page 12).....	£67
NOR038	Norton Navigator Win 95CD.....	£72
NOR039	Norton Disklock.....	£64
ONF001	On File.....	£39
PKZ001	P.K. Zip.....	£189
PAC001	Pack Rat V5.0.....	£29
PER012	Personal Calendar.....	£9
PF5009	PFS CV & Job Search Pro.....	£29
SPID01	Power Album.....	£29
RAM020	Ram Doubler For Windows.....	£49
RSI001	RSI Monitor. (Amp).....	£39
SCR003	Screenam Win V2 (Lotus).....	£85
SID004	Sidetrack 95 For Win 95 (Page 21).....	£29
RMG002	Softmram '95 Memory Doubler.....	£49
MIC242	Sourcesafe V3.1.....	£259
SPE005	Spellwrite.....	£14
STA013	Stacker V4 Universal.....	£59
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STA022	Stacker V4 + Qemm V7.5.....	£69
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SUP016	Superqueue Ver 3.1.....	£49
SWI001	Swimsuit Calendar.....	£22
UNIO05	Uninstaller 3.....	£36
VID002	Video Director.....	£29
VID038	Video Director V2.....	£79
WIN089	Win'95 Advisor (Page 22).....	£3
WIN061	Wincheckit.....	£39
WIN050	Windows 95 V2 3.1 & 95 (Page 7).....	£30
WIN019	Windows Printing System.....	£79
WIN060	Winprobe V3.....	£49
WIR002	Wired For Sound Pro 3.5.....	£29
XTR006	Xtree Gold For Windows V4.....	£64
XTR008	Xtree Tools For Network.....	£379

DOS VERSIONS

MIX004	386Max V7.....	£29
ARC009	Arcslo For Dos.....	£80
BLU001	Blue Max (Memory Manager).....	£54
CAL001	Calendar Creator Plus V4.....	£25
COR005	Corel Scsi.....	£59
DES005	Desqview 386 V2.7.....	£74
SOL001	Dr Solomans Av 1/4Ly Dos.....	£62
FOR004	Form Tool Gold V4.....	£27
LAB001	Labels Unlimited.....	£29
QEM005	Qemm V8.....	£55
QEM003	Qemm V7.5.....	£44
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LOT113	Lotus Wordpro (Page 23).....	£90
MIC024	Ms Truetype Fontpack 2.....	£49
MIC114	Ms Word V6 (Win).....	£224
MIC135	Ms Word V6 Ccp Upgrade.....	£85
MIC299	Ms Word For Win 95.....	£229
MIC300	Ms Word For Win 95 C/U.....	£107
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WOR003	Wordperfect V5.2.....	£189
WOR116	Wordperfect 6.1.....	£165

WOR117	Wordperfect 6.1 Comp U/G.....	£85
WOR118	Wordperfect 6.1 U/G.....	£62
WOR077	Wordstar V2.....	£28

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OXF001	Oxford Engl. Dict. Cd.Rom.....	£349
NOV064	Wordperfect 6.0 C/U V/LA.....	£69
WOR130	Wordperfect 6.0C New!.....	£189
WOR131	Wordperfect 6.0C U/G.....	£76
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GLO022	Global P/T German Deluxe.....	£99
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GLO007	Globalink Pt German Win.....	£90
GLO008	Globalink Pt Spanish Win.....	£90
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VCI001	Learning French Gcse.....	£15
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GLO005	Globalink Pt Spanish Dos.....	£55

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KEY003	Key Form Designer.....	£29
KEY007	Key Organiser Chart.....	£29
MIC309	Ms Electronic Form Design.....	£89
PER004	Perform Pro Filler.....	£74
PER005	Perform Pro Filler 10Pk.....	£1207
TOP003	Toplevel Forms.....	£69

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NOV032	Novell 3.12 10 User.....	£962
NOV003	Novell 3.12 25 User.....	£1143
NOV037	Novell 3.12 50 User.....	£1940
NOV035	Novell 3.12 100 User.....	£2540
NOV033	Novell 3.12 250 User.....	£4575
NOV046	Novell 4.1 5 User.....	£440
NOV038	Novell 4.1 25 User.....	£1687
NOV039	Novell 4.1 50 User.....	£2300
NO		

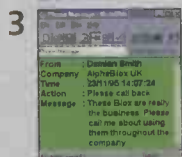
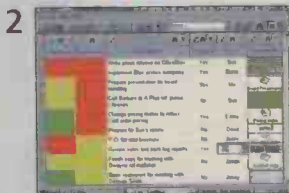
NEW PRODUCTS

SOFTWARE WAREHOUSE

EVERYTHING FOR YOUR PC - NEXT DAY!

OfficeBlox for Windows 95 and NT

Four powerfully simple and essential applets you'll use every day and all day!



CalcBlox - The fastest, easiest, smartest and most flexible calculator ever built
CalcBlox combines the speed and ease of a hand held calculator with the power and flexibility of a full Windows 95 software application. With 16 different calculator types to choose from, 21 pre-defined calculation templates and the revolutionary CalcSheet, CalcBlox gives you everything you need right out of the box and, guarantees you get the right result every time.

ListBlox - The quickest and simplest way to make manage and work lists
ListBlox lets you create lists as quickly and as easily as writing them on paper but with the power and flexibility of an ODBC database. Create any list you need in seconds from scratch, or use the 48 pre-defined templates. Multiple views and single click sorting, filtering and colour highlighting mean analysing and managing your data has never been easier.

NoteBlox - The fastest and easiest way to take notes and annotate your work
Create notes in seconds. Jot down an idea or take a phone message. Share it by e-mail, or use it to annotate another document by simply dragging and dropping it straight onto the page.

MWorkBlox - The smartest and most intuitive way to organise your work
Never worry about losing files or about file names and paths ever again. Simply store and manage all of your documents and objects in visual tabbed electronic folders by dragging and dropping.

Plus ToolBlox - The fastest and easiest way to launch and embed Blox and applications

WHY YOU SHOULD BUY OFFICEBLOX..

All the Blox are tiny (less than 300K), so they're incredibly fast

Over 100 pre-defined templates make it easy to:

- Calculate mortgage payments, return on investment, break even analysis, declining balance depreciation, no claims bonus...
- Create to-do lists, address lists, project schedules, guest lists, home contents insurance lists, flight itineraries...
- Write phone messages, recipes, reminders, ideas, notes, annotations...

Blox can be dragged and dropped into other documents and Blox:

- For sales quotations, business proposals, financial agreements or letters
- As annotations or to explain a point in detail
- To act as bookmarks and tags

You can organise your work in whatever way is best for you:

- Action item documents in your to-do list
- In monthly, weekly or daily folders
- In project or customer specific folders

They combine with each other, and your other Windows 95 or NT applications, to provide comprehensive business solutions



INFOFAX: 30179

WHAT THE PRESS SAY

"Groundbreaking software... represents a step forward in the way software will be viewed"
PC Magazine

"OfficeBlox is a truly innovative and particularly useful piece of software"
Personal Computer Magazine

"The simplicity of the design makes advanced functionality child's play"
Personal Computer World

"Small but perfectly formed... quick and simple, it's a surprisingly important product, offering not only brilliantly designed functionality, but a far more efficient way of working"
Computer Life

Cabrio

A versatile and fully-editable calculator for converting and comparing across a wide range of units from pounds to dollars, inches to centimetres, scruples to drams, from the capacity of concordo to the passengers on the QE2. Update data quickly and easily import data from other applications. Over 70,000 conversion and comparisons built in. "...brilliantly useful..." The Sunday Observer

PAI006 Cabrio

£19⁹⁹



INFOFAX: 30184

VFX 1 HEADGEAR™

- Be A Player - Not A Spectator

Get inside the game with VFX 1 HEADGEAR™. Experience the thrill of games like Looking Glass Technologies™ Flight Unlimited™, Electronic Arts® Magic Carpet™, Interlay's Descent™ and many more.

VFX 1 HEADGEAR is ergonomically designed, comfortable to wear and easy to install. And it's loaded with awesome features.

- 7" dual active-matrix colour LCDs screen Works with existing, standard VGA applications and games. LCD resolution 789 x 230 (181,470 pixels).
- Virtual orientation system (VOST™) head tracker Patented technology provides three degrees of freedom - with the VFX 1 HEADGEAR™ your head acts as the joystick. Tilt your head and through the monitor see your movements.
- Software compatibility Supports all the latest, hottest games and applications.



INFOFAX: 30180

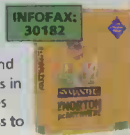
VFX001 VFX1 Headgear™

£764⁵⁰

Norton pcAnywhere V2

pcAnywhere is invaluable to anyone who runs a network and demands the highest standards in productivity. pcAnywhere gives remote end users instant access to critical data and applications at their home, office or indeed, anywhere!

- NOR016 pcAnywhere V2 £94
- NOR023 pcAnywhere V2 Host .. £58
- NOR016 pcAnywhere V2 Remote £58



INFOFAX: 30182

The Ultimate Image Bundle

Key Clip Art™ This versatile collection features over 5001 hand-picked images from the renowned Metro Graphics clip art collection.



Key Fonts Plus™ More than 1200 of the most popular typefaces in scalable PostScript and WYSIWYG TrueType formats.

£12⁹⁹

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Free Gift!



"When you buy from Software Warehouse you get a FREE gift with every order. Don't forget to ask when you call."

See page 2 of advert for details.

SSEYO®

Koan™ Pro V1.1:

The Hottest music product on the market

Brian Eno, founder of Ambient Music and producer of U2 and David Bowie has described SSEYO Koan™ Pro as "the most promising idea in musical technology for many years. I've been dreaming of something like this for ages".

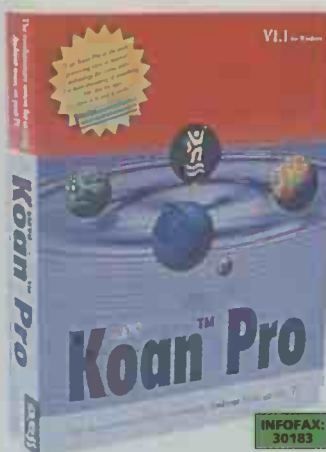
All users of Multimedia PCs can take advantage of the range of features available in this intriguing and far reaching music creativity software package. No musical keyboard is required and it comes with a wide range of templates.

The powerful and advanced 2 in 1 music software tool for both musicians and non-musicians. Use it to set free your creativity and imagination and realise brilliant new musical ideas. This unique new system will allow you to surround your life with endless, beautiful music.

SSEYO Koan Pro is a Windows music authoring package that lets you create truly beautiful ambient and techno music and MIDI files for pleasure, for content and for business presentations. The fascinating music it produces can be configured to be never-the-same twice.

Brian Eno, founder of Ambient Music and producer of U2 and David Bowie has described SSEYO Koan Pro as "the most promising idea in musical technology for many years. I've been dreaming of this for ages. Here it is and it works."

SEY001 Koan™ Pro V1.1 £99



INFOFAX: 30183

A massive 39,000 items in stock across 4,000 different product lines. Nobody delivers faster!

To Order By Telephone Call 01675 466 467

For ordering information and terms & conditions, see page 2.



Page 32





PC Buyer

TIME
Computer Systems Ltd.

The UK's Best Deals

Issue 96/2
All Offers End 9th March

- ◆ 486DX2-66 or 75MHz Pentium® processor
- ◆ 8Mb RAM (4Mb on DX2)
- ◆ 540Mb hard disk
- ◆ 14" SVGA colour screen
- ◆ £1000 worth of software including Lotus SmartSuite and 100 Hours FREE Internet access with Best Buy models



486DX2-66 MT

486DX2-66 with 540Mb hard disk and 4Mb RAM

£499 + VAT

Best Buy Multimedia Model

With software suite £598

75MHz Pentium® MT

75MHz Pentium® with 540Mb hard disk and 8Mb RAM

£699 + VAT

Best Buy Multimedia Model

With 850Mb hard disk and software suite £799



P75 Multimedia PowerStation



£899 + VAT

See inside for full details

Multimedia Time Machine '95



£39

Per Month
Interest Free Credit

See inside for full details

Ultimate Time Machine



£99

Per Month
Interest Free Credit

COLOSSUS 133MHz PENTIUM®

£999 + VAT

P133.1Gb 8Mb 14" SVGA screen

LASER PRINTER PACKS FROM

£16

Per month



0% INTEREST FREE CREDIT

Interest Free Credit is available subject to status only on certain bundles. Written quotations are available on request. Be sure you can afford the payments before entering into a credit agreement. See page ii for Interest Free example

APR

BGIB

Time Services

Long established as a standard-setter in the computer market, Time Computers has always been the first choice of customers who demand quality products at competitive prices with reliable service and back-up.



Time Computers HQ site is situated in the Ribble Valley near the M65 & M66 motorway network.

As well as achieving soaring sales and rapid growth to become the UK's leading direct PC supplier, we have also established an excellent reputation for our professional approach to supplying quality computer solutions to small businesses and home users. We have the

resources, know how, and financial strength to keep us ahead with all the latest advances in computer technology and to respond quickly to market trends and the needs of our customers.

We were the first company to offer complete bundled solutions at affordable prices, the first to offer Interest Free Credit in the direct PC market

and the first to successfully develop the direct retail showroom concept.



The sales team are fully trained and will guide you through the selection process.

To ensure the quality of our products and to provide you with the latest technology, we have forged strong working relationships with the giants of the industry. Our direct relationships with the

world's leading hardware and software manufacturers coupled with the strength of our volume buying and our efficient centralised operation with its low overheads also means that we are able to offer the keenest prices on the very latest products.

We believe Time Computers' success story is a direct result of our commitment to listening to our customers needs, and most important of all, delivering those needs promptly. In our book the customer comes first.

It is our overall commitment to exceptional customer support programmes and high quality solutions that has put us where we are today - in a unique position of being able to offer the keenest priced solutions with the best service in the industry.



Upgrade service enables you to keep your system future-proof



Pre-sales Advice

Our knowledgeable sales staff are fully trained with what is available in the PC industry and are happy to give you free advice on the most suitable make and model for your requirements.



Configuration and Testing

Remember when you buy from Time Computers you are not limited to the standard configurations. Any options such as additional RAM, multimedia products, fax modems and extra drives that you may require will be installed in your PC system to make a solution tailored to your needs. The system will then be fully tested so that you can start using it immediately. On many systems bundled software may be pre-installed thus saving you many hours of time.



Customer Service

Customer Services staff liaise closely with your sales contact, and will act as your representatives within the company, and ensure that your queries are speedily resolved.



Your representatives within Time Computers - Some members of the Customer Service team.



Hardware and Technical Support

One of the main advantages of dealing directly with Time Computers is the facility to seek help from trained PC experts. Our technical support staff will provide free hotline support should your system ever malfunction, or if you wish to upgrade.



Warranty

All goods carry 12 month's return-to-base warranty except where otherwise indicated. In addition, Time Cover offers a valuable extended 3 or 5 year warranty on PC systems, covering all parts, labour and carriage costs to ensure long term trouble-free-use. Please ask for details when placing your order.



Repair and Upgrade Facilities

We have in-house fully equipped facilities to repair the vast majority of products we sell. This means that you have very fast turn around should your system ever go faulty. Our upgrade service will enable you to keep your system future-proof by installing new processors, RAM and larger storage devices.

Buying from Time



Direct is Best

There is no doubt that the customer gets better value in terms of price, specification and support when they buy PC systems direct. When you buy from Time Computers you not only have all the advantages of buying direct but also advantages of having a wider range to choose from and flexible payment terms including interest free credit.



Wider Range

Time Computers is a multi-vendor direct company. Unlike other direct suppliers who are usually limited to one brand of PC (usually their own brand), Time Computers offers the best value products with the world's leading PC manufacturers (such as IBM, Compaq, Toshiba, Colossus, Omega, Texas Instruments and Mitac) thus giving you more choice.



Complete Solutions

Unlike other vendors, we are able to offer you a complete solution comprising of PC systems, Software for all applications, Printers and after sales support with extended warranty options. Now you can source all of your PC requirements from one supplier and be confident that everything works without any incompatibility problems. With Interest Free Credit on many of our systems you can afford a complete solution from day 1.



Latest Technology

Our huge buying power, centralised resources with their low overhead and direct relationship with the worlds leading PC manufacturers means that we are able to offer the latest specifications at very aggressive prices. When you buy direct from Time you get a lot more for your money. Compare our specifications, prices and service with any other major company and you will quickly see why we are the UK's leading PC supplier.



How to Order

Look through the offers and decide on the solutions which interest you most. Then call our sales team on (01282) 777 111. They can provide further advice and clarify any points. You can place your order directly with your sales contact over the phone and give details of the system you require. Payment can be made using Access, Visa, Switch or American Express. You can also send your order by fax, or post, if more convenient, including a cheque for the full amount made payable to "Time Computer Systems Ltd" (please allow 5 working days for cheques to clear).



Credit Facilities

Interest Free Credit (APR 0%) is also available on some solutions and options (subject to status). All solutions advertised with Interest Free Credit can also be paid for in full by credit card or cheque. If you wish to take out Interest Free Credit, please let your sales contact know when placing your order. Systems which are not available on Interest Free Credit may be purchased on credit at a competitive APR (Annual Percentage Rate) of 19.8% over a 24 month period, subject to status. Please ask for further details.



Finance Department, where the most popular customer request is for Interest Free Credit.



Delivery

After your order is placed and payment cleared (or credit agreement approved), your system will be tested and then despatched by courier to your preferred address. However, if any payment has been made by credit card, the delivery will be made to the address registered on the card, (unless otherwise advised in writing). If you are not in to receive the system, the courier will leave a message for you to contact the local depot and re-arrange delivery.

Goods are normally despatched within 7 to 10 days from cleared payment. All orders will be fulfilled within 28 days unless otherwise specified. Mainland insured courier delivery rates are listed as follows.

£19 plus VAT (£22.33) for PC systems

£15 plus VAT (£17.63) for printers and peripherals

£10 plus VAT (£11.75) for smaller items

purchased separately



Prices

System prices are shown without VAT (17.5%) and delivery. All Interest Free Credit prices include delivery & VAT. Please note that prices are subject to change and that these offers in this current advert are limited whilst current stocks last. Please order early to avoid disappointment. All trademarks are acknowledged. Prices, specifications and offers are subject to change, availability and subject to our conditions of sale copies of which are available on request. Please contact our sales staff for the latest up to date details. Intel Inside and Pentium logos are trademarks of the Intel Corporation. E&OE.



INTEREST FREE EXAMPLE

The following example shows a typical purchase.

All these interest free prices include delivery & VAT

Cash Purchase	Credit Purchase		
	Deposit	24 Monthly Payments	Total
Multimedia Time Machine B £1431.15	£159.15	£53.00	£1431.55
NEC Laser Pack £404.20	£44.20	£15.00	£404.20
Totals (Inc. Del & VAT) £1835.35	£203.35	£68.00	£1835.35

TOTAL CASH PRICE = TOTAL CREDIT PRICE

Interest Free Credit is available subject to status. Written quotations are available on request. Be sure you can afford the payments before entering into a credit agreement.

The deposit may be paid by credit card or cheque. Most customers also purchase other options (e.g. floppy disks, 3 year extended warranty, Multimedia kit etc). Most of these are also available on Interest Free Credit whilst others can be paid for by increasing the deposit. Please call for details.



August 95
Time MM Power PC2

Your Guide To Model Selection

Time offer a wide selection of systems to give customers more choice. Systems are differentiated by two main criteria - Payment Option and whether or not they are 'Pre-configured' or are 'Tailor Made' to your individual specification.

PAYMENT OPTION

Many systems shown are sold by immediate payment (credit card, cheque, bank transfer, draft, switch or cash). These "cash" systems can also be transferred to a credit option with a low APR of 19.8% over a period of usually 2 years. Most systems are however sold on Interest Free Credit. These systems usually have a higher specification with more software or printer included and are available with Interest Free Credit over 2 years, two and a half years or 6 months.

PRE-CONFIGURED OR TAILOR MADE

Most of the popular configurations or bundles are pre-configured and 'Ready to Ship' normally within 7 days. These usually provide the best value and are our recommended configurations. However, we do appreciate that some customers wish to have a particular specification and we can build systems tailored to their needs. These tailor-made systems usually add some extra days to the delivery time and are not available on Interest Free Credit.

MODEL SELECTION

Once you have selected the payment method, you can select the appropriate model by considering your preferences for the following:

Processor

Models are available with the following processors (with increasing power) 486DX2-66, 486DX4-100, C5x86-100, Intel® 75, 100, 120, 133MHz Pentium®, C6x86-100 and 166MHz Pentium® processors. At present the best value is offered by 75MHz Pentium® based multimedia systems.

RAM

We recommend a minimum of 8Mb RAM. Many of our models now include 16Mb RAM as standard. A 16Mb 100MHz Pentium® system will cost less and outperform an 8Mb P133 system. Speed of RAM makes very little difference.

Hard Disk

850Mb, 1Gb or 1.6Gb are the popular sizes. All disks used are enhanced IDE with onboard cache.

Multimedia Hardware

Over 90% of systems are purchased with multimedia which is now becoming essential for most applications. As many programs run from the hard disk, the speed of the CD-ROM drive is less critical. Double speed CD-ROM drives are the most popular because of their low cost and are almost as good as the more expensive but faster quad or six speed drives.

Modem

A modem is recommended. It can be used as a fax machine, used to transfer programs and data, link to on-line services and to the Internet. 2496 is adequate for fax but slow for Internet use. 14.4 speed is the most popular with the fastest being at 28.8 speed.

Brand or Make

Despite all the attention to specification, latest technology and expandability, the brand or make is still important. We would recommend the Compaq Presario, IBM Aptiva and Colossus as our top brand multimedia models. IBM are the world's largest computer company and the Compaq Presario is the world's best selling PC. Colossus Computer Corporation are famous for producing the highest specification products and Omega, Toshiba, Apple and Texas Instruments provide incredible quality and value. With printers Hewlett Packard, Epson and NEC are our top selling brands.

Case Style

An expandable case with plenty of drive bays (at least 5) is recommended. Most popular models are desktop or midi-tower style.

Screen

We would recommend a 14" NI .28dp screen as a minimum although a .39dp (slightly dotty) screen may be available at lower cost. Most of the high end systems come with a 15" .28dp NI screen.

Software Bundle

Models are available bundled with different applications. Lotus software suite is the most popular and provides everything you are ever likely to need. Microsoft® Office or Novell PerfectOffice is available as an optional extra with all systems. Various CD multimedia titles are included with many systems. Most systems come with Windows® 95 which is the most popular operating system. We also offer attractively priced DOS & OS/2 systems.



Immediate Payment

Payment can be made by credit card, cheque, bank transfer, draft, switch or cash. These "cash" systems can also be transferred to a credit option with a low APR of 19.8% over a period of usually 2 years.

PRE-CONFIGURED SYSTEMS

Internal options are not available for these systems which are normally 'Ready to Ship'.

Page 4/5 Best-Buy Omega OS/2 Multimedia Tower A, B, C & E -OS/2 based multimedia mini-tower systems with plenty of software and very low prices.

Page 6/7 Omega Win 95 Multimedia Powerstations B, C, D & E I -Windows® 95 based multimedia desktop systems.

Page 10/11 Compaq, IBM, Colossus Best Buys
Selected hot selling models from these leading brands arranged in different price brackets to make your selection easier.

Page 12/13 Multimedia Powerstations
The best selling high performance Windows® 95 based multimedia systems. Include models from Omega and Colossus.

TAILOR MADE SYSTEMS

Pages 4 to 7 standard models (excluding best buys) are listed without multimedia and basic configurations for you to select the most appropriate options. In practice, it may be better value to select a ready to ship multimedia system near to your desired configuration.

Page 4 Omega 486 mini-tower Range.

Page 5 Omega 586 and 686 mini-tower range.

Page 6 Omega 486 desktop range.

Page 7 Omega 586 and 686 desktop range.



Interest Free Credit

These high specification systems are available with Interest Free Credit over 2 years, 2½ years or 6 months. Please note that Interest Free Credit is available subject to status.

PRE-CONFIGURED SYSTEMS

All Interest Free Credit systems are 'pre-configured' and normally 'ready to ship'.

Page 2 Buy Now Pay Later: Multimedia Power PC

Popular Windows® 95 based multimedia models from Omega and Colossus available on a 'buy now pay 6 months later' offer.

Page 8/9 Multimedia Time Machines

Our most popular range. These systems offer a high specification with additional software, larger screens and are available with a low deposit and payments spread over 2 years.

Page 12/13 Multimedia PC/Printer Solutions

These systems offer very high specifications and come complete with the largest collection of software and a choice of printer included in the price. These are very popular as you pay a small deposit and get a fully functional PC set-up including printer with nothing more to pay for 6 months. After 6 months you can spread your payments over 2 more years on Interest Free Credit.

Page 12/13 Multimedia Business PC

The Multimedia Business PC is basically the above PC/Printer solutions shown on these pages but without the printer (with some price saving). These too are available on deferred 2½ years Interest Free Credit terms.

Page 22 Ultimate Time Machine

The most powerful system you can buy at £99 per month.

CALL NOW!

Sales Lines Open
Mon-Fri 8.30am-7.00pm
Sat 9.00am-5.00pm

01282 777 111

TIME
Computer Systems Ltd.

Granville House,
Blackburn Rd,
Simonstone,
Burnley, BB12 9GT

Buy Now....Pay Later

System Specification

- ◆ 486 Models: 486DX2-66 or 486DX4-100 processors
- ◆ Pentium® Models: 75MHz Pentium® or 100MHz Pentium® processor with PCI local bus and 64-bit PCI graphics
- ◆ 8Mb or 16Mb RAM expandable to 64/128Mb
- ◆ 540Mb, 850Mb or 1.08Gb fast enhanced IDE hard disks with 256K cache
- ◆ 1.44Mb floppy drive.
- ◆ 14" or 15" SVGA low radiation colour screen
- ◆ Omega desktop case with 7 drive bays and 7 slots (models B, C & D). Model A features Omega mini-tower with 5 drive bays. Model E features Colossus desktop case with 7 drive bays.
- ◆ 102 keyboard and deluxe Microsoft® compatible mouse
- ◆ Microsoft® Windows® 95
- ◆ 12 months warranty extendable to 5 years

Multimedia Hardware

- ◆ Double speed or quad speed IDE CD-ROM drive
- ◆ 16-bit high quality stereo sound card
- ◆ Twin stereo speaker system
- ◆ PC joystick

Fax & Internet Packs

- ◆ Model D & D2 only
- ◆ 14.4 BABT approved fax & data modem
- ◆ Easy to use fax software



- ◆ Communications software
- ◆ Introductory subscription to CompuServe with Internet mailbox.

Software**

Included with all systems. See software section for details

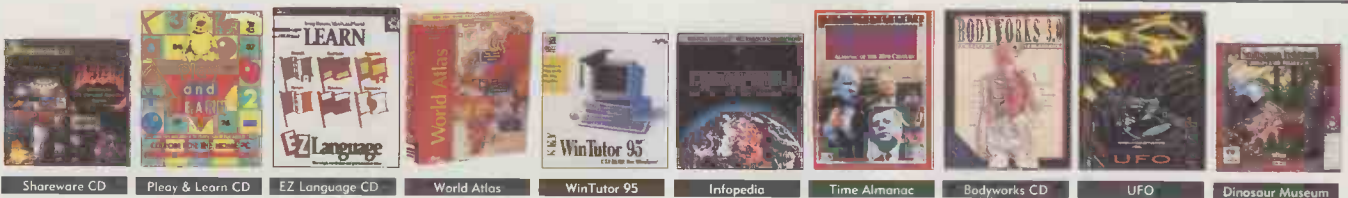
- ◆ Lotus 1-2-3 v5 spreadsheet
- ◆ Lotus Ami Pro v3.1 word processor
- ◆ Lotus Approach v3 Database
- ◆ Lotus Organizer v2
- ◆ Lotus SmartPics Graphics
- ◆ Lotus Training for 1-2-3, Ami Pro and Approach
- ◆ Intuit Quicken v4 Personal Finance Pack
- ◆ Pacioli 2000 Business Accounts

Multimedia Software

- ◆ Bodyworks v3 Multimedia CD
- ◆ Infopedia Multimedia Encyclopaedia CD
- ◆ WinTutor 95 Multimedia CD
- ◆ Time Almanac CD
- ◆ EZ Language Multimedia CD - Learn French, German, Spanish and more
- ◆ Play & Learn Educational CD
 - ◆ UFO for Windows CD
 - ◆ Dinosaur Museum CD
 - ◆ Shareware CD including Doom, Raptor, Pinball and many other games.

6 Months Interest Free Credit

Pre-Configured Ready To Ship Systems



The new Multimedia Power PC systems from Time feature a range of popular high specification Best Buy configurations from Omega and Colossus which represent the best value in the UK today. These 486 and Pentium® systems have a high specification which has been optimised for Windows® 95 and includes a minimum of 8Mb or 16Mb RAM, large hard disks, latest chipsets, fast controllers and plenty of expansion potential.

All are fully multimedia ready with fitted fast CD-ROM drives, 16-bit sound cards, PC joystick and an excellent range of educational and leisure CD

titles including full feature multimedia encyclopaedia, WinTutor 95 and EZ Language.

Also included is a range of excellent business software from Lotus and others which will handle all your requirements for word processing, filing, number crunching, organising, graphics and accounts. At these excellent prices with our INTEREST FREE CREDIT Buy Now, Pay Six Months Later offer, these systems are unbeatable.

APPROVED for companies and telecommunication systems specified in the conditions for use subject to the conditions set out in them

*APR

0%

INTEREST FREE CREDIT

Example: Multimedia Power PC B - Cash purchase £899 +VAT = £1078.65 inc. delivery & VAT. Credit Purchase - £107.87 deposit, then pay nothing for 6 months. After six months pay the rest. Total price £899 +VAT = £1078.65 inc. delivery & VAT, APR 0%. Interest Free Credit is available subject to status. Written quotations are available on request. Be sure you can afford the payments before entering into a credit agreement.

Multimedia Power PC A 486DX2-66

486DX2-66 Mini tower with 8Mb RAM, 850Mb hard disk, double speed CD-ROM and 14" screen

£849

+VAT

Pay just £101.99 deposit

Multimedia Power PC B 486DX4-100

486DX4-100 desktop with 8Mb RAM, 850Mb hard disk, double speed CD-ROM local bus graphics and 14" sharp 0.28 Ni screen

£899

+VAT

Pay just £107.87 deposit
14" to 15" upgrade.....+£99

Multimedia Power PC C 75MHz Pentium®

75MHz Pentium® desktop with 8Mb RAM, 850Mb hard disk, double speed CD-ROM, 64-bit PCI graphics and 14" sharp 0.28 Ni screen

£999

+VAT

Pay just £119.62 deposit
14" to 15" upgrade.....+£99

Multimedia Power PC D 75MHz Pentium®

75MHz Pentium® desktop with 8Mb RAM, 850Mb hard disk, quad speed CD-ROM, 14.4 modem, 64-bit PCI graphics and 14" sharp 0.28 Ni screen

£1149

+VAT

Pay just £137.24 deposit
14" to 15" upgrade.....+£99

Multimedia Power PC D2 100MHz Pentium®

100MHz Pentium® Colossus mid-tower with 8Mb RAM, 1.08Gb hard disk, quad speed CD-ROM, 14.4 modem, 64-bit PCI graphics and 14" sharp .28 Ni screen

£1299

+VAT

Pay just £154.87 deposit
14" to 15" upgrade.....+£99

Multimedia Power PC E1 133MHz Pentium®

133MHz Pentium® Colossus desktop with 16Mb RAM, 1.08Gb hard disk, 64-bit PCI graphics, 256K cache, quad speed CD-ROM and 14" sharp 0.28 Ni screen

£1499

+VAT

Pay just £178.37 deposit
14" to 15" upgrade.....+£99

CALL NOW!

Sales Lines Open
Mon-Fri 8.30am-7.00pm
Sat 9.00am-5.00pm

01282 777 111

TIME
Computer Systems Ltd.

Granville House,
Blackburn Rd,
Simonstone,
Burnley, BB12 7GT



Expandable Tower Systems at the UK's Best Prices

Our incredible buying power coupled with our direct relationships with leading manufacturers allows us to offer you these incredible mini-tower systems at the best prices in the UK.

These expandable mini-tower systems from Omega are also available with our massive collection of the best business, educational and leisure software (including Lotus SmartSuite) - applications that would cost over £1000 if

bought individually! - Available FREE with our Best Buy models, and at a small extra charge with all other systems

Models shown here are Tailor made systems. Multimedia and other options can be added to the basic configurations to your individual specifications. Best buy multimedia models shown in the boxes at the bottom are pre-configured and 'ready to ship'.

**ALL
OFFERS
END 9th
MARCH**



486DX2-66 540 MT

- ◆ 486DX2-66 processor
- ◆ 4Mb or 8Mb RAM expandable to 64Mb
- ◆ Pentium® technology upgradeable
- ◆ 540Mb IDE hard disk
- ◆ 3.5" 1.44Mb floppy drive
- ◆ 14" SVGA colour screen with 16-bit SVGA card
- ◆ IDE hard and floppy controller
- ◆ Parallel, 2 serial and keyboard ports
- ◆ Expandable mini-tower case
- ◆ 5 Drive bays and 7 expansion slots (2VESA)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double speed CD-ROM drive, 16-bit sound card and twin stereo speakers
- ◆ Software bundle including Lotus SmartSuite worth over £1000 (see below) and 100 Hours Internet access worth over £300 (modem required) available at a small extra cost - FREE with our Best Buy models

£499 +VAT

486 DX2-66, 850Mb model £529
Multimedia models +£99
14" crisp sharp 0.28dp NI screen +£40

Best Buy - Multimedia Tower A

486DX2-66, 540Mb 4Mb system with double speed CD-ROM, 16-bit sound card, stereo speakers and Lotus SmartSuite software bundle shown below with 850Mb disk & 14" 0.28dp screen ..£627 +VAT

£598



486DX4-100 850 8Mb MT

- ◆ 486DX4-100 processor
- ◆ Faster than most P60 systems
- ◆ 8Mb RAM expandable to 64Mb
- ◆ Pentium® technology upgradeable
- ◆ 850Mb IDE hard disk with 256K cache
- ◆ 3.5" 1.44Mb floppy drive
- ◆ 14" SVGA colour screen with 16-bit SVGA card
- ◆ IDE hard and floppy controller
- ◆ Parallel, 2 serial and keyboard ports
- ◆ Expandable mini-tower case
- ◆ 5 Drive bays and 7 expansion slots (2VESA)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double or quad speed CD-ROM drive, 16-bit sound card and twin stereo speakers
- ◆ Software bundle including Lotus SmartSuite worth over £1000 (see below) and 100 Hours FREE Internet access worth over £300 (modem required) available at a small extra cost - FREE with our Best Buy model

£649 +VAT

Multimedia models +£99
14" crisp sharp 0.28dp NI screen +£40

Best Buy - Multimedia Tower B

486DX4-100, 850Mb 8Mb system with double speed CD-ROM, 16-bit sound card, stereo speakers and Lotus SmartSuite software bundle shown below with 14" 0.28dp screen £739 +VAT

£699



75MHz Pentium® 850 MT

- ◆ Intel® 75MHz Pentium® processor
- ◆ 8Mb or 16Mb RAM expandable to 128Mb
- ◆ 850Mb enhanced IDE (fast ATA) hard disk
- ◆ 3.5" 1.44Mb floppy drive
- ◆ PCI bus with 4 PCI slots
- ◆ Integrated 64-bit PCI bus graphics
- ◆ 14" SVGA colour screen (15" optional)
- ◆ Enhanced PCI IDE hard and floppy controller
- ◆ Parallel, 2 fast serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 5 Drive bays and 7 expansion slots (4 PCI)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double speed CD-ROM drive, 16-bit sound card and twin stereo speakers.
- ◆ Software bundle including Lotus SmartSuite worth over £1000 (see below) and 100 Hours FREE Internet access worth over £300 (modem required) available at a small extra cost

£729 +VAT

P75, 540Mb, 8Mb model £699
Multimedia models +£99
14" 0.28dp NI screen +£40
15" 0.28 dp NI screen +£110
Cyril 586-100 model £Call

Best Buy - Multimedia Tower C

75MHz Pentium® processor, 850Mb 8Mb system with double speed CD-ROM, 16-bit sound card, stereo speakers and Lotus SmartSuite software bundle shown below with 14" 0.28dp screen £839 +VAT

£799

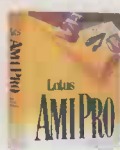
Please Note: Mouse is not included with this range as a choice of different mice is available from as low as £9 + VAT

Software Applications**

This superb range of pre-loaded and ready to use software applications includes, the superb multi-tasking 32-bit version of Lotus SmartSuite for OS/2, IBM OS/2 Warp, Paciosi 2000 Business Accounts, Fun School, the best shareware games and other programmes. It is included FREE with our Best Buy systems. Best buy models also include additional Fun School titles and five Infoware Encyclopaedias.



Lotus 1-2-3 spread sheet is the worlds best spread sheet package



Lotus Ami Pro word processor with advanced features



Lotus Freelance Graphics presentation and drawing package



Lotus CC-Mail single user electronic mail licence



IBM Works is a superb easy to use collection of 5 great programs inc. WP, spread sheet, charting, database & reporting



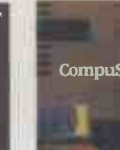
FaxWorks allows you to send and receive faxes easily (modem required)



IBM Person to Person (via telephone or network) allows collaborative working on your PC



Personal Information Manager allows you to manage your time more effectively



CompuServe Information Manager and Internet Connection provide graphical interfaces to these services (modem required)

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Finance from under

£33*
Per Month

100 Hours FREE Internet access worth over £300 with Best Buy Systems

Omega



Please Note: Mouse is not included with this range as a choice of different mice is available from as low as £9 + VAT



100MHz Pentium® 850 MT

- ◆ Intel® 100MHz Pentium® processor
- ◆ 8Mb or 16Mb RAM expandable to 128Mb
- ◆ 850Mb or 1.08Gb enhanced IDE (fast ATA) hard disk with 256K hard disk cache
- ◆ 3.5" 1.44Mb floppy drive
- ◆ PCI bus with 4 PCI slots
- ◆ Integrated 64-bit PCI bus graphics
- ◆ 14" SVGA colour screen (15" optional)
- ◆ Enhanced PCI IDE hard and floppy controller
- ◆ Parallel, 2 fast serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 5 Drive bays and 7 expansion slots (4 PCI)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double speed CD-ROM drive, 16-bit sound card and twin stereo speakers.
- ◆ Software bundle including Lotus SmartSuite worth over £1000 (see below) and 100 Hours FREE Internet access worth over £300 (modem required) available at a small extra cost - FREE with our BestBuy models

£799 +VAT

1.08Gb models £849
16Mb RAM models £Call
Multimedia models +£99



133MHz Pentium® 850 MT

- ◆ Intel® 133MHz Pentium® processor
- ◆ 8Mb or 16Mb RAM expandable to 128Mb
- ◆ 850Mb or 1.08Gb enhanced IDE (fast ATA) hard disk with 256K hard disk cache
- ◆ 3.5" 1.44Mb floppy drive
- ◆ PCI bus with 4 PCI slots
- ◆ Integrated 64-bit PCI bus graphics
- ◆ 14" SVGA colour screen (15" optional)
- ◆ Enhanced PCI IDE hard and floppy controller
- ◆ Parallel, 2 fast serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 5 Drive bays and 7 expansion slots (4 PCI)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double or quad speed CD-ROM drive, 16-bit sound card and twin stereo speakers.
- ◆ Software bundle including Lotus SmartSuite worth over £1000 (see below) and 100 Hours FREE Internet access worth over £300 (modem required) available at a small cost

£899 +VAT

1.08Gb models £949
16Mb RAM models £Call
Multimedia models +£99



686 - 100 MT

- ◆ Cyrix 686-100 processor (faster than P133)
- ◆ 8Mb or 16Mb RAM expandable to 128Mb
- ◆ 850Mb or 1.08Gb enhanced IDE (fast ATA) hard disk with 256K hard disk cache
- ◆ 3.5" 1.44Mb floppy drive
- ◆ PCI bus with 4 PCI slots
- ◆ PCI bus graphics
- ◆ 14" SVGA colour screen (15" optional)
- ◆ Enhanced PCI IDE hard and floppy controller
- ◆ Parallel, 2 fast serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 5 Drive bays and 7 expansion slots (4 PCI)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double or quad speed CD-ROM drive, 16-bit sound card and twin stereo speakers.
- ◆ Software bundle including Lotus SmartSuite worth over £1000 (see below) and 100 Hours FREE Internet access worth over £300 (modem required) available at a small cost

£939 +VAT

1.08Gb models £989
16Mb RAM models £Call
Multimedia models +£99

Best Buy - Multimedia Desktop D
New desktop model with 75MHz Pentium® processor, 850Mb, 8Mb, quad speed CD-ROM, 16-bit sound card, stereo speakers and Lotus SmartSuite. Software bundle shown below, includes 14" .28dp screen

£899 +VAT

Best Buy - Multimedia Tower E
New midi tower model with 100MHz Pentium® processor with 256k cache, 1.08Gb hard disk, 8Mb RAM, quad speed CD-ROM, 16-bit sound card, stereo speakers and Lotus SmartSuite. Software bundle shown below, includes 14" .28dp screen

£999 +VAT

Finance from under **£33*** Per Month See example

Finance Example Multimedia Tower A: Cash Purchase: £598 +VAT = £724.98 inc. delivery & VAT. Credit Purchase: 10% (£72.50) deposit and 24 equal monthly payments of £32.63. Total Price £855.62 including delivery & VAT. Finance is available subject to status. Written details are available on request. Be sure you can afford the payments before entering into a credit agreement.

*APR **19.8%**



Pacioli 2000 Business Accounts is a full-feature package that outperforms many packages costing over £500



IBM OS/2 Warp v3 is the latest and most powerful 32-bit, multitasking operating system



PC DOS 7 (full version) is the latest version of DOS and gives you upto 40K more RAM than version 6.22



Fun School 4 covers the essential elements of the national curriculum



Fun School Maths educational package covering all the essentials



Doom virtual reality graphics game - the world's most popular game



Raptor Flight simulator / Warship shoot'em up action crazed guns blazing game



Blake Stone graphics adventure game set in a high tech space station



Epic Pinball professional arcade game with all the usual features

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When it comes to providing the latest PC technology and specification at down to earth prices, no-one gives you better value than Time. As the UK's leading direct PC supplier, we have the resources and buying power to offer you truly incredible deals on top quality high specification 486, Intel® Pentium® and Cyrix 686 processor based systems.

These great new systems from Omega feature ergonomic designs and provide excellent expansion potential with a total of seven drive bays. Simply tailor the models shown to your individual requirements.

Our pre-configured Best Buy multimedia powerstation models come complete with a superb Windows 95 software suite that includes five top Lotus applications, Quicken personal finance pack and other programs.

These systems are incredible value for money and with our popular finance option are affordable by virtually everyone from an amazing £30 per month*!



486DX2-66 850 DT

- ◆ 486DX2-66 processor
- ◆ 4Mb or 8Mb RAM expandable to 64Mb
- ◆ Pentium® technology upgradeable
- ◆ 850Mb IDE hard disk
- ◆ 3.5" 1.44Mb floppy drive
- ◆ 1Mb local bus graphics with Windows® accelerator
- ◆ 14" SVGA colour screen
- ◆ IDE hard and floppy controller
- ◆ Parallel, 2 serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 7 drive bays and 7 expansion slots (2 VESA)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double (or quad speed option) CD-ROM drive, 16-bit sound card and twin stereo speakers
- ◆ Windows® 95 software bundle including Lotus software suite available at extra cost with 8Mb models only

£549 +VAT

Multimedia models +£99
Crisp sharp 14" .28dp NI screen +£40
486DX4-100 models +£20



486DX4-100 850 8 DT

- ◆ 486DX4-100 processor
- ◆ 8Mb RAM expandable to 64Mb
- ◆ Pentium® technology upgradeable
- ◆ 540Mb or 850Mb IDE hard disk with 256K cache
- ◆ 3.5" 1.44Mb floppy drive
- ◆ 1Mb local bus graphics with Windows® accelerator
- ◆ 14" SVGA colour screen (15" optional)
- ◆ IDE hard and floppy controller
- ◆ Parallel, 2 serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 4 drive bays and 7 expansion slots (2 VESA)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double (or quad speed) CD-ROM drive, 16-bit sound card and twin stereo speakers
- ◆ Windows® 95 software bundle including Lotus software suite available at extra cost

£669 +VAT

Multimedia models +£99
Crisp sharp 14" .28dp NI screen +£40



75MHz Pentium® DT

- ◆ Intel® 75MHz Pentium® processor
- ◆ 8Mb or 16Mb RAM expandable to 128Mb
- ◆ 850Mb enhanced IDE (fast ATA) hard disk
- ◆ 3.5" 1.44Mb floppy drive
- ◆ Integrated 64-bit PCI bus graphics
- ◆ 14" SVGA colour screen (15" optional)
- ◆ Enhanced PCI IDE hard and floppy controller
- ◆ Parallel, 2 fast serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 7 drive bays and 7 expansion slots (4 PCI)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double or quad speed CD-ROM drive, 16-bit sound card and twin stereo speakers
- ◆ Windows® 95 software bundle including Lotus software suite available at extra cost

£739 +VAT

1.08Gb 8Mb model £789
16Mb RAM models Call
Multimedia models +£99

Best Buy - Multimedia Powerstation B

486DX4-100, 850Mb, 8Mb model with double speed CD-ROM, 16-bit sound card, stereo speakers, 14" .28dp NI screen and Windows® 95 software bundle including Lotus software suite and 8 CD titles - mouse and joystick included

£799 +VAT

Best Buy - Multimedia Powerstation C

75MHz Pentium®, 850Mb, 8Mb model with double speed CD-ROM, 16-bit sound card, stereo speakers, 14" .28dp NI screen and Windows® 95 software bundle including Lotus software suite and 8 CD titles - mouse and joystick included

£899 +VAT

Please Note: Mouse is not included with this range as a choice of different mice is available from as low as £9 + VAT

All offers
end 9th
March
1996

Software Applications

The following Windows® 95 based software suite is included with our best buy multimedia powerstation models and is also available as an option with all other 8Mb systems. Best Buy powerstation models also come with 8 CD titles.



Microsoft Windows 95 is the latest and best 32-bit operating system



Lotus 1-2-3 for Windows is the world's most popular spreadsheet



Lotus Ami Pro word processing package for professional documents and reports



Lotus Approach v3 database filing system managers your data with ease

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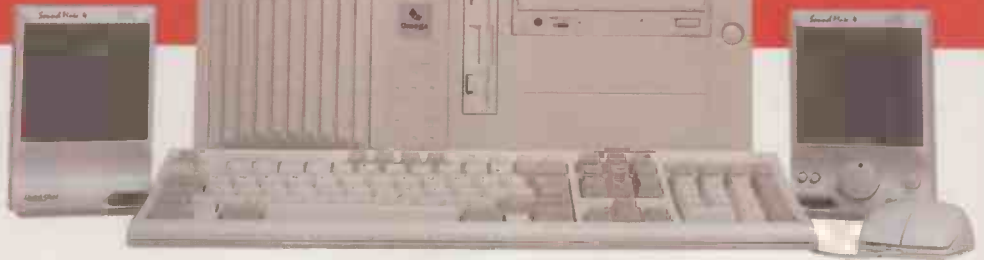
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Finance from under

£29*
Per Month



Omega



100MHz Pentium® DT

- ◆ Intel® 100MHz Pentium® processor
- ◆ 8Mb or 16Mb RAM expandable to 128Mb
- ◆ 850Mb enhanced IDE (fast ATA) hard disk
- ◆ 3.5" 1.44Mb floppy drive
- ◆ Integrated 64-bit PCI bus graphics
- ◆ 14" SVGA colour screen (15" optional)
- ◆ Enhanced PCI IDE hard and floppy controller
- ◆ Parallel, 2 fast serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 7 drive bays and 7 expansion slots (4 PCI)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double or quad speed CD-ROM drive, 16-bit sound card and twin stereo speakers
- ◆ Windows® 95 software bundle including Lotus software suite available at extra cost



133MHz Pentium®

- ◆ Intel® 133MHz Pentium® processor
- ◆ 8Mb or 16Mb RAM expandable to 128Mb
- ◆ 1.08Gb enhanced IDE (fast ATA) hard disk
- ◆ 3.5" 1.44Mb floppy drive
- ◆ Integrated 64-bit PCI bus graphics
- ◆ 14" SVGA colour screen (15" optional)
- ◆ Enhanced PCI IDE hard and floppy controller
- ◆ Parallel, 2 fast serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 7 drive bays and 7 expansion slots (4 PCI)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double or quad speed CD-ROM drive, 16-bit sound card and twin stereo speakers
- ◆ Windows® 95 software bundle including Lotus software suite available at extra cost



686 - P100 DT

- ◆ Cyrix 686-100 processor
- ◆ Faster than P133
- ◆ 8Mb or 16Mb RAM expandable to 128Mb
- ◆ 1.08Gb enhanced IDE (fast ATA) hard disk
- ◆ 3.5" 1.44Mb floppy drive
- ◆ Integrated 64-bit PCI bus graphics
- ◆ 14" SVGA colour screen (15" optional)
- ◆ Enhanced PCI IDE hard and floppy controller
- ◆ Parallel, 2 fast serial and keyboard ports
- ◆ Expandable desktop case
- ◆ 7 drive bays and 7 expansion slots (4 PCI)
- ◆ 102 Enhanced keyboard
- ◆ Multimedia models include double or quad speed CD-ROM drive, 16-bit sound card and twin stereo speakers
- ◆ Windows® 95 software bundle including Lotus software suite available at extra cost

£809 +VAT

1.08Gb 8Mb model£909
16Mb RAM modelCall
Multimedia model+£99

£959 +VAT

14" .28dp NI screen+£40
PC joystick+£19
8 multimedia CD titles+£69

£999 +VAT

14" .28dp NI screen+£40
PC joystick+£19
8 multimedia CD titles+£69

Best Buy - Multimedia Powerstation D

75MHz Pentium®, 850Mb, 8Mb model with 14.4 BABT fax/data modem, quad speed CD-ROM, 16-bit sound card, 14" .28dp NI screen, stereo speakers and Windows® 95 software bundle including Lotus software suite and 8 CD titles - mouse and joystick included

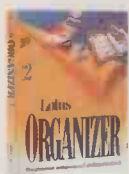
£1049 +VAT

Best Buy - Multimedia Powerstation E1

133MHz Pentium® Colossus desktop with 1.08Gb hard disk, 16Mb RAM, quad speed CD-ROM, 16-bit sound card, 14" .28dp NI screen, stereo speakers, Windows 95 software bundle and 8 CD titles - mouse and joystick included

£1399 +VAT

Please Note: Mouse is not included with this range as a choice of different mice is available from as low as £9 + VAT



Lotus Organizer allows you to schedule your appointments and manage your workload



Lotus SmartPics provides excellent clipart graphics that can be used in any document



Pacioli 2000 is a full feature accounts package that outperforms many packages costing over £500



Quicken v4 personal finance package is the fastest and easiest way to organize your home finances

Finance from under

£29
Per Month

Finance Example:-
Cash Purchase: £519
+VAT =£632.15 inc. delivery & VAT. Credit Purchase: 10% (£63.22) deposit and 24 equal monthly payments of £28.45. Total price £746.02 inc. delivery & VAT. APR 19.8%

*APR

19.8%

Finance is available subject to status. Written details are available on request. Be sure you can afford the payments before entering into a credit agreement.

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Multimedia '95 Time Machine

The new enhanced Multimedia Time Machine 95 systems now all come with superb 15" and 17" SVGA NI colour screens and our top of the range systems feature fast 28.8 modems, minimum of 16Mb RAM, six speed CD-ROM drives, PC TV with Teletext, massive 2.0Gb disks and the fastest Intel® chipsets and Pentium® processors.

These pre-configured systems are the ideal future-proof purchase for home and small office users looking for powerful Windows® 95 optimised hardware and a plethora of leading software applications.

All are fully multimedia ready with fitted fast CD-ROM drives, 16-bit sound card, PC microphone, PC joystick and an excellent range of educational and leisure titles including WinTutor 95 multimedia tutorial,

Infopedia full feature multimedia encyclopaedia, World Atlas Multimedia Edition, Fun school Educational suite, and much more.

Remember a computer is useless without software and the software included with these systems enables their use for virtually any application. As well as our standard Lotus software suite, we include leading applications such as TurboCAD for home designs and CAD, Pressworks desktop publisher, Designworks drawing pack, PC Paintbrush paint program and more!

All systems are available on Interest Free Credit with a low deposit and payments spread over two years. Add a quality printer pack or scanner pack (available on Interest Free credit) for a complete solution.



System Specification

- ◆ 486 model: 486DX4-100 processor
- ◆ Pentium® models: 75, 100, 120, 133 or 150MHz Pentium® processor with PCI local bus and 64-bit PCI graphics
- ◆ 8Mb or 16Mb RAM expandable to 64/128Mb
- ◆ 850Mb, 1.08Gb, 1.6Gb, or 2.0Gb fast enhanced IDE hard disks with 256K cache
- ◆ Superb 15" or 17" SVGA NI low radiation colour screen
- ◆ 1.44Mb floppy drive.
- ◆ Omega desktop case with 7 drive bays and 7 slots (models B, C & D). Model E features Colossus desktop with 7 drive bays. Model D2 and F feature Colossus midi-tower case with 8 drive bays. Model G features Colossus full-tower case with 9 drive bays.
- ◆ 102 keyboard and deluxe Microsoft® compatible mouse
- ◆ Microsoft® Windows® 95
- ◆ 12 months warranty extendable to 5 years

Multimedia HardWare

- ◆ Double speed, quad speed or six speed IDE CD-ROM drive
- ◆ 16-bit high quality stereo sound card (3D orchid Nu-sound on models F2 & G2)
- ◆ Twin stereo speaker system
- ◆ PC joystick
- ◆ PC microphone

Fax & Internet Packs -Models D, D2, E2, F2, G and G2

- ◆ 14.4 or 28.8 BABT approved fax & data modem
- ◆ Easy to use fax software
- ◆ Communications software
- ◆ Introductory subscription to CompuServe with Internet mailbox.
- ◆ Model G and G2 also features PC-TV with Teletext and 3.2Gb tape back-up

APPROVED for credit by the telecommunications systems specified in the advertisement for use subject to the conditions set out therein

*APR

0%
INTEREST
FREE
CREDIT

Interest Free Credit is available subject to status. Written quotations are available on request. Be sure you can afford the payments before entering into a credit agreement. See page 11 for Interest Free example.

Novell Perfect Office Plus Models

These systems are available with everything listed plus the following additional Novell/Wordperfect titles at a small extra cost:-

- ◆ WordPerfect for Windows word processor
 - ◆ Quattro Pro for Windows spread sheet
 - ◆ Presentations Graphics Pack
 - ◆ InfoCentral Organizer
 - ◆ GroupWise Electronic Mailing System
 - ◆ Envoy Document System
- Microsoft® Office 95 is also available at a small extra cost.



Multimedia Time Machine 95/B 486DX4-100

486DX4-100 desktop with 8Mb RAM, 850Mb hard disk, double speed CD-ROM, local bus graphics and 15" sharp .028 NI screen

£39 Per Month

£159.15 deposit and 24 monthly payments of £53 OR
£495.15 deposit and 24 monthly payments of £39.
Total price £1199 +VAT = £1431.15 inc. delivery and VAT. APR 0%



Multimedia Time Machine 95/C 75MHz Pentium®

75MHz Pentium® desktop with 8Mb RAM, 850Mb hard disk, double speed CD-ROM, 64-bit PCI graphics and 15" sharp .28 NI screen

£49 Per Month

£156.65 deposit and 24 monthly payments of £58 OR
£372.65 deposit and 24 monthly payments of £49.
Total price £1299 +VAT = £1548.65 inc. delivery and VAT. APR 0%



Multimedia Time Machine 95/D 75MHz Pentium®

75MHz Pentium® desktop with 8Mb RAM, 850Mb hard disk, 64-bit PCI graphics, quad speed CD-ROM, 14.4 modem and 15" sharp .28 NI screen

£59 Per Month

£178.15 deposit and 24 monthly payments of £62 OR
£250.15 deposit and 24 monthly payments of £59.
Total price £1399 +VAT = £1666.15 inc. delivery and VAT. APR 0%

Model D2: 100MHz Pentium® Colossus midi-tower, with 1.08Gb drive, 256K cache, 14.4 modem and above spec £69 per month - call for details

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Interest
Free Credit**

**Pre-Configured
'Ready To Ship'
Systems.**



Software

Included with all systems. Pre-loaded or on CD's

Business Software

- ◆ Lotus 1-2-3 v5 Spreadsheet
- ◆ Lotus Ami Pro v3.1 Word processor
- ◆ Lotus Approach v3 Database
- ◆ Lotus Organizer v2
- ◆ Lotus SmartPic Graphics
- ◆ Lotus Training for 1-2-3, Ami Pro and Approach
- ◆ GSP Pressworks 2 Desktop Publisher
- ◆ GSP Designworks 3 Graphics Pack
- ◆ TurboCAD for Windows CAD Pack
- ◆ Organize your way organiser

- ◆ CV & Job Search Pro
- ◆ MasterClips SE Clipart
- ◆ Picture This Graphics system
- ◆ Intuit Quicken v4 Personal Finance Pack
- ◆ Pacioli 2000 Business Accounts

Educational/Leisure Software

- ◆ Fun School 4
- ◆ Fun School Maths
- ◆ Fun School 5 in Time
- ◆ Fun School Spelling
- ◆ Fun School Paint & Create
- ◆ EZ Language French, German & Spanish
- ◆ Computerworks, Bodyworks & Autoworks
- ◆ Flying Fingers keyboard & typing tutorial

- ◆ Dinosaurs for Windows
- ◆ Doom, Blake Stone, Raptor and Pinball Shareware games

CD Multimedia Software

- ◆ Wintutor 95 Multimedia CD
- ◆ Infopedia Multimedia Encyclopaedia CD
- ◆ World Atlas Multimedia CD
- ◆ BodyWorks V4 Multimedia CD
- ◆ Time Almanac CD
- ◆ EZ Language Multimedia CD
- ◆ Play & Learn Educational CD
- ◆ UFO for Windows CD
- ◆ Dinosaur Museum CD
- ◆ Shareware CD



Multimedia Time Machine 95/E1 133MHz Pentium®

133MHz Pentium® Colossus desktop with 256K cache, 16Mb RAM, 1.08Gb hard disk, 64-bit PCI graphics, quad speed CD-ROM, and 15" sharp .28 NI screen

£79 Per Month

£240.15 deposit and 24 monthly payments of £79
Total price £1799 +VAT = £2136.15 inc. delivery and VAT.
APR 0%

Model E2 Intel 100MHz Pentium processor, 14.4 modem, six speed CD, Trinton chipset and 2Mb video RAM £200 extra



Multimedia Time Machine 95/F2 133MHz Pentium®

133MHz Pentium® Colossus midi-tower with Triton chipset, 256K burst mode cache, 16Mb EDO RAM, 2.0Gb hard disk, 64-bit PCI graphics with 2Mb VRAM video RAM, soft MPEG, six speed CD-ROM, 28.8 modem, 3D Orchid NuSound and 15" sharp .28 NI screen

£89 Per Month

£318.65 deposit and 24 monthly payments of £110 OR
£822.65 deposit and 24 monthly payments of £89. Total price
£2499 +VAT = £2958.65 inc. delivery and VAT. APR 0%

Model F Intel 120MHz Pentium processor, 1.6Gb hard disk, 2Mb 'DRAM' video card, 16-bit soundcard £300 Less



Multimedia Time Machine 95/G2 150MHz Pentium®

150MHz Pentium® Colossus full tower with Triton chipset, 256K burst mode cache, 16Mb EDO RAM, 2.0Gb hard disk, 64-bit PCI graphics with 2Mb VRAM video RAM, soft MPEG, six speed CD-ROM, 28.8 modem, 3.2Gb tape backup, PC TV with Teletext 3D Orchid NuSound and 15" sharp .28 NI screen

£99 Per Month

£394.65 deposit and 24 monthly payments of £146 OR
£1522.65 deposit and 24 monthly payments of £99.
Total price £3299 +VAT = £3898.65 inc. delivery and VAT. APR 0%

Model G Intel 133MHz Pentium processor, 1.6Gb hard disk, 2Mb 'DRAM' video card, 16-bit soundcard £400 Less

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Compaq, Colossus, IBM & Omega

Our most popular multimedia systems from these leading brands are listed here for you to make your selections easier. All systems are full-feature multimedia systems and are ready for use.

**Under
£1000**

Ideal For Home Use

Our Choice

Compaq Presario CDS 528

Although this system is not as expandable as others and features a slower 486DX2-66 processor, it does include a full feature PCTV & integral fax/data modem!

Omega Multimedia Powerstation 95B

- ◆ 486DX4-100 processor
- ◆ 8Mb RAM
- ◆ 850Mb hard disk
- ◆ CD-ROM, sound card & speakers
- ◆ PC joystick
- ◆ 7 drive bay desktop
- ◆ 14" .28dp SVGA screen
- ◆ Windows® 95
- ◆ Lotus Software Suite including 1-2-3, Ami Pro, Approach, SmartPics & Organizer Quicken v4 & Pacioli 2000 Business Accounts
- ◆ 8 CD Titles: Encyclopaedia, Bodyworks, UFO, Time Almanac, Dinosaurs, Play & Learn, Shareware CD & EZ Language



£799
+VAT

Aptiva 914

- ◆ 486DX2-66 processor
- ◆ 8Mb RAM
- ◆ 540Mb hard disk
- ◆ CD-ROM, sound card & speakers
- ◆ 3 drive bay desktop
- ◆ 14" .28dp SVGA screen
- ◆ PC DOS, Windows® 3.1 & OS/2 Warp
- ◆ Lotus Software Suite including 1-2-3, Ami Pro, Approach, Freelance & Organizer MS Works & Aptivaware



£849
+VAT

**£1000 to
£1199**

**Ideal For Home &
Business Use
Our Choice**

Omega Multimedia Powerstation D

This system from Omega is very expandable and features a fast 75MHz Pentium® system with large hard disk, 64-bit graphics, quad CD-ROM, modem and plenty of software- all at just £1049

Aptiva 921

- ◆ 486DX4-100 processor
- ◆ 8Mb RAM
- ◆ 540Mb hard disk
- ◆ Quad CD-ROM, sound card & speakers
- ◆ 3 drive bay desktop
- ◆ 14" .28dp SVGA screen
- ◆ PC DOS, Windows® 3.1 & OS/2 Warp
- ◆ Lotus Software Suite including 1-2-3, Ami Pro, Approach, Freelance & Organizer MS Works & Aptivaware



£999
+VAT

COMPAQ

Presario CDS 7110

- ◆ 486DX4-100 processor
- ◆ 8Mb RAM
- ◆ 540Mb hard disk
- ◆ Quad CD-ROM, sound card & speakers
- ◆ 14.4 fax/data modem
- ◆ 4 drive bay desktop
- ◆ 14" .28dp SVGA screen
- ◆ 32-bit PCI graphics
- ◆ Dos 6.2 & Windows® 3.1
- ◆ Novell Perfect Works for Windows
- ◆ Microsoft® Money 3, Sim City, Lode runner, Kids corner & Compaq Software,
- ◆ 2 CD Titles: Cromptons Encyclopaedia & Kings Quest 7



£1049
+VAT

**Over
£1199**

**Ideal For Power Users
Our Choice**

Colossus Multimedia Powerstation 95 E1

Although not the cheapest this system from Colossus is very expandable and features a fast 133MHz Pentium® CPU with 16Mb RAM, large 1Gb hard disk, 64-bit graphics, quad speed CD-ROM, and plenty of software.

Aptiva 931

- ◆ Intel® 75MHz Pentium® processor
- ◆ 8Mb RAM
- ◆ 540Mb hard disk
- ◆ Quad CD-ROM, sound card & speakers
- ◆ 6 Drive bay mini-tower
- ◆ 14" .28dp SVGA screen
- ◆ PC DOS, Windows® 3.1 & OS/2 Warp
- ◆ Lotus Software Suite including 1-2-3, Ami Pro, Approach, Freelance & Organizer MS Works & Aptivaware



£1299
+VAT

COLOSSUS

Multimedia PowerStation 95 D2

- ◆ Intel® 100MHz Pentium® processor
- ◆ 8Mb RAM; 256K cache
- ◆ 1.08Gb hard drive
- ◆ Quad CD-ROM, sound card & speakers
- ◆ PC joystick
- ◆ 14.4 fax/data modem
- ◆ 8 drive bay midi-tower
- ◆ 64-bit PCI graphics
- ◆ 14" .28dp SVGA screen
- ◆ Windows® 95
- ◆ Lotus Software Suite including 1-2-3, Ami Pro, Approach, Smartpics & Organizer Quicken v4 & Pacioli 2000 Business Accounts
- ◆ 8 CD Titles: Encyclopaedia, Bodyworks, UFO, Time Almanac, Dinosaurs, Play & Learn, Shareware CD & EZ Language



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COMPAQ

Presario CDS 528

- ◆ 486DX2-66 processor
- ◆ 8Mb RAM
- ◆ 420Mb hard disk
- ◆ CD-ROM, sound card & speakers
- ◆ 3 drive bay desktop
- ◆ 14" integral SVGA screen
- ◆ 2496 fax/data modem
- ◆ PCTV card
- ◆ Dos 6.2 & Windows® 3.1
- ◆ Works for Windows®
- ◆ Microsoft® Money & MS Entertainment pack
- ◆ 2 CD Titles: Encanto® 95 & Ultimate Human Body



£949
+VAT

COMPAQ

Presario CDS 7106

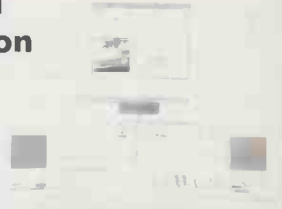
- ◆ 486DX4-100 processor
- ◆ 8Mb RAM
- ◆ 420Mb hard disk
- ◆ CD-ROM, sound card & speakers
- ◆ 4 drive bay desktop
- ◆ 14" .28dp SVGA screen
- ◆ Dos 6.2 & Windows® 3.1
- ◆ Novell Perfect Works for Windows®
- ◆ Microsoft® Money 3, Sim City, Lode runner, Kids corner & Compaq Software
- ◆ 2 CD Titles: Cromptons Encyclopaedia & Kings Quest 7



£959
+VAT

Omega Multimedia PowerStation 95 C

- ◆ Intel® 75MHz Pentium® processor
- ◆ 8Mb RAM
- ◆ 850Mb hard disk
- ◆ CD-ROM, sound card & speakers
- ◆ PC joystick
- ◆ 7 drive bay desktop
- ◆ 14" .28dp SVGA screen
- ◆ Windows® 95
- ◆ Latus software Suite including 1-2-3, Ami Pro, Approach, Smartpics & Organizer
- ◆ Quicken v4 & Pocioli 2000 Business Accounts
- ◆ 8 CD Titles: Encyclopaedia, Bodyworks, UFO, Time Almanac, Dinosaurs, Play & Learn, Shareware CD & EZ Language



£899
+VAT

Omega

Multimedia PowerStation 95D

- ◆ Intel® 75MHz Pentium® processor
- ◆ 8Mb RAM
- ◆ 850Mb hard disk
- ◆ Quad CD-ROM, sound card & speakers
- ◆ PC joystick
- ◆ 14.4 fax/data modem
- ◆ 7 drive bay desktop
- ◆ 64-bit PCI graphics
- ◆ 14" .28dp SVGA screen
- ◆ Windows® 95
- ◆ Lotus Software Suite including 1-2-3, Ami Pro, Approach, SmartPics & Organizer
- ◆ Quicken v4 & Pocioli 2000 Business Accounts
- ◆ 8 CD Titles: Encyclopaedia, Bodyworks, UFO, Time Almanac, Dinosaurs, Play & Learn, Shareware CD & EZ Language



£1049
+VAT

COLOSSUS

Multimedia 1 with Perfect Office

- ◆ Intel® 75MHz Pentium® processor
- ◆ 8Mb RAM
- ◆ 850Mb hard disk
- ◆ Quad CD-ROM, sound card & speakers
- ◆ 14.4 fax/data modem
- ◆ 8 drive bay mini-tower
- ◆ 14" .28dp SVGA screen
- ◆ 64-bit PCI graphics
- ◆ Windows® 95
- ◆ Novell PerfectOffice with Wordperfect, Quattro Pro, Presentations, Envoy, InfoCentral & Groupwise,
- ◆ 8 CD Titles: Infopaedia Encyclopaedia, Bodyworks, UFO, Time Almanac, Dinosaurs, WinTutor 95, World Atlas & EZ Language



£1039
+VAT

COMPAQ

Presario CDS 7150

- ◆ Intel® 75MHz Pentium® processor
- ◆ 8Mb RAM
- ◆ 540Mb hard disk
- ◆ Quad CD-ROM, sound card & speakers
- ◆ 14.4 fax/data modem
- ◆ 4 drive bay desktop
- ◆ 32-bit PCI graphics
- ◆ 14" .28dp SVGA screen
- ◆ DOS 6.2 & Windows® 3.1
- ◆ Novell Perfect Works for Windows
- ◆ Microsoft® Money 3, Sim City, Lode runner, Kids corner & Compaq Software
- ◆ 2 CD Titles: Cromptons Encyclopaedia & Kings Quest 7



£1199
+VAT

COMPAQ

Presario CDS 7170

- ◆ Intel® 90MHz Pentium® processor
- ◆ 8Mb RAM
- ◆ 840Mb hard disk
- ◆ Quad CD-ROM, sound card & speakers
- ◆ 14.4 fax/data modem
- ◆ 4 drive bay desktop
- ◆ 32-bit PCI graphics
- ◆ 14" .28dp SVGA screen
- ◆ Dos 6.2 & Windows® 3.1
- ◆ Novell Perfect Works for Windows
- ◆ Microsoft® Money 3, Sim City, Lode runner, Kids corner & Compaq software
- ◆ 2 CD Titles: Cromptons Encyclopaedia & Kings Quest 7



£1299
+VAT

Aptiva 932

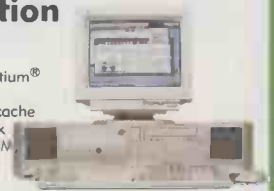
- ◆ Intel® 75MHz Pentium® processor
- ◆ 8Mb RAM
- ◆ 540Mb hard disk
- ◆ Quad CD-ROM, sound card & speakers
- ◆ 28.8 fax/data modem
- ◆ 6 drive bay mini-tower
- ◆ 15" .28dp SVGA screen
- ◆ PC DOS, Windows® 3.1 & OS/2 Warp
- ◆ Lotus Software Suite including 1-2-3, Ami Pro, Approach, Freelance & Organizer
- ◆ MS Works & Aptivaware



£1349
+VAT

COLOSSUS Multimedia PowerStation 95 E1

- ◆ Intel® 133MHz Pentium® processor
- ◆ 16Mb RAM; 256K cache
- ◆ 1.08Gb hard disk
- ◆ Quad speed CD-ROM, sound card & speakers
- ◆ PC joystick
- ◆ 14" .28dp SVGA screen
- ◆ 7 drive bay desktop
- ◆ 64-bit PCI graphics
- ◆ Windows® 95
- ◆ Lotus Software Suite including 1-2-3, Ami Pro, Approach, SmartPics & Organizer
- ◆ Quicken v4 & Pocioli 2000 Business Accounts
- ◆ 8 CD Titles: Encyclopaedia, Bodyworks, UFO, Time Almanac, Dinosaurs, Play & Learn, Shareware CD & EZ Language



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Multimedia PowerStation '95

The new multimedia Powerstation '95 systems from Time feature a range of popular high specification Best Buy configurations from Colossus and Omega and represent the best value in the UK today. These 486 and Pentium® systems have a high specification which has been optimised for Windows® 95 and includes a minimum of 8Mb or 16Mb RAM, large hard disks upto 2.0Gb, latest chipsets, fast controllers and plenty of expansion potential.

All are fully multimedia ready with fitted fast CD-ROM drives, 16-bit sound cards, PC joystick and an excellent range of educational and leisure CD titles including full feature multimedia encyclopaedia, Bodyworks, EZ Language and games such as Doom. Most models also include fast fax & data modems with Internet pack.

Also included is a range of excellent business software from Lotus and others, which will handle all your requirements for word processing, filing, number crunching, organizing, graphics and accounts. At these special introductory prices, with the finance option from under £44 these systems are a great buy.



System Specification

- ◆ 486 Models: 486DX2-66 or 486DX4-100 processors
- ◆ Pentium® models: 75, 100, 120, 133 or 150MHz Pentium® processor with PCI local bus and 64-bit PCI graphics
- ◆ 8Mb or 16Mb RAM expandable to 64/128Mb
- ◆ 540Mb, 850Mb, 1.08Gb, 1.6Gb or 2.0Gb fast enhanced IDE hard disks with 256K cache
- ◆ 1.44Mb floppy drive.
- ◆ 14", 15" or 17" SVGA low radiation colour screen
- ◆ Omega desktop case with 7 drive bays and 7 slots (models B, C & D). Model A features Omega mini-tower with 5 drive bays. Model E1 & E2 features Colossus desktop with 7 drive bays. Model D2 & F2 features Colossus midi-tower case with 8 drive bays
- ◆ 102 keyboard and deluxe Microsoft® compatible mouse
- ◆ Microsoft® Windows® 95
- ◆ 12 months warranty extendable to 5 years

Multimedia Hardware

- ◆ Double, quad or six speed IDE CD-ROM drive
- ◆ 16-bit high quality stereo sound card
- ◆ Twin stereo speaker system
- ◆ PC joystick

Fax & Internet Packs -Models D, D2, E2, F, F2 & G

- ◆ 14.4 or 28.8 BABT approved fax & data modem
- ◆ Easy to use fax software
- ◆ Communications software
- ◆ Introductory subscription to CompuServe with Internet mailbox.

APPROVED for use in telecommunications systems specified in the contract for use subject to the conditions in them.



Pre-Loaded Software

Included with all systems. See software section for details

- ◆ Lotus 1-2-3 v5 Spreadsheet
- ◆ Lotus Ami Pro v3.1 word processor
- ◆ Lotus Approach v3 database
- ◆ Lotus Organizer v2
- ◆ Lotus SmartPics graphics
- ◆ Lotus Training for 1-2-3, Ami Pro and Approach
- ◆ Intuit Quicken v4 Personal Finance Pack
- ◆ Pacioli 2000 Business Accounts

Multimedia Software

- ◆ BodyWorks v4 multimedia CD
- ◆ Multimedia Encyclopaedia CD
- ◆ Time Almanac CD
- ◆ EZ Language multimedia CD - Learn French, German, Spanish and more
- ◆ Play & Learn Educational CD
- ◆ UFO for Windows CD
- ◆ Dinosaur Museum CD
- ◆ Shareware CD including Doom, Raptor, Pinball and many other games.

Microsoft Office 95 Plus Models

These systems are only £149 extra and include everything listed plus the following Microsoft titles:-

- ◆ Microsoft Works
- ◆ Microsoft Word 95
- ◆ Microsoft Excel 95
- ◆ Microsoft Schedule 95
- ◆ Microsoft PowerPoint 95

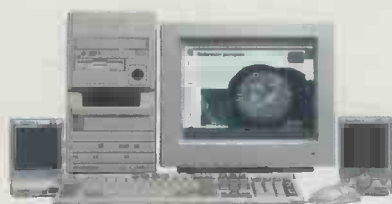


Word 95

Excel 95

PowerPoint 95

Schedule 95



Multimedia PowerStation 95/A 486DX2-66

486DX2-66 mini-tower with 8Mb RAM, 540Mb hard disk, double speed CD-ROM and 14" screen

£699 +VAT

850Mb model with 14" sharp 0.28dp screen£749+VAT



Multimedia PowerStation 95/B 486DX4-100

486DX4-100 desktop with 8Mb RAM, 850Mb hard disk, double speed CD-ROM, local bus graphics and 14" sharp 0.28 NI screen

£799 +VAT

14" to 15" upgrade+£99



Multimedia PowerStation 95/C 75MHz Pentium®

75MHz Pentium® desktop with 8Mb RAM, 850Mb hard disk, double speed CD-ROM, 64-bit PCI graphics and 14" sharp .28 NI screen

£899 +VAT

14" to 15" upgrade+£99

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APR 19.8%



CompuServe is only available with fax & Internet packs



Multimedia PowerStation 95/D 75MHz Pentium®

75MHz Pentium® desktop with 8Mb RAM, 850Mb hard disk, 64-bit PCI graphics, quad speed CD-ROM, 14.4 modem and 14" sharp .28 NI screen

£1049 +VAT

MODEL D2: features 100MHz Pentium® processor, Colossus midi-tower with 1.08Gb drive, 256k cache, 14.4 modem and above spec+£1199 +VAT



Multimedia PowerStation 95/E1 133MHz Pentium®

133MHz Pentium® Colossus desktop with 256K Cache, 16Mb RAM, 1.08Gb hard disk, 64-bit PCI graphics, quad speed CD-ROM and 14" sharp .28 NI screen

£1399 +VAT

MODEL E2: 100MHz Pentium® model with six speed CD, Triton Chipset, 2Mb Video RAM and 14.4 modem£1499 +VAT



Multimedia PowerStation 95/F2 133MHz Pentium®

133MHz Pentium® Colossus midi-tower with Triton chipset, 256K burst mode cache, 16Mb EDO RAM, 2.0Gb hard disk, 64-bit PCI graphics with 2Mb VRAM video RAM, six speed CD-ROM, 28.8 modem, 3D Orchid NuSound and 15" screen

£2099 +VAT

MODEL F: 120MHz Pentium® with 1.6Gb, call for details£1699 +VAT
MODEL G: 150MHz Pentium® full tower.£Call

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Tel: 01282 777 111 Fax: 01282 77 07 01. All prices exclude delivery (£19) and VAT (17.5%). *Finance prices include delivery and VAT. **All software applications are pre-loaded or on CD. Pack shots shown for illustration purposes only. Printed manuals and back-up media are available as options. E&OE.



13 13HC

Multimedia PC/Printer Solutions

Buy Now.....Pay Later

These amazing Multimedia PC & printer solutions come complete with everything you need for serious home or business use. All PC systems include a high specification similar to the Time Machines and include extra software. You can choose from a choice of 3 leading printers from Hewlett Packard, Epson or NEC.

All systems are available on Interest Free Credit with a low deposit with nothing more to pay for 6 months. After 6 months payments can be spread over another 2 years on Interest Free Credit.



System Specification

- ◆ 486 Model: 486DX4-100 processor
- ◆ Pentium® models: Intel® 75, 100, 120 or 133MHz
- ◆ Pentium® processor with PCI local bus and 64-bit PCI graphics
- ◆ 8Mb or 16Mb RAM expandable to 64/128Mb
- ◆ 850Mb, 1.08Gb, 1.6Gb or 2.0Gb fast Enhanced IDE hard disks with 256K cache
- ◆ Superb 15" or 17" SVGA NI low radiation colour screen
- ◆ 1.44Mb Floppy drive.
- ◆ Omega desktop case with 7 drive bays and 7 slots (models B, C & D). Model E1 & E2 features Colossus desktop with 7 drive bays. Model D2, F & F2 features Colossus midi-tower case with 8 drive bays.
- ◆ 102 Keyboard and deluxe Microsoft® compatible mouse
- ◆ Microsoft® Windows® 95
- ◆ 12 months warranty extendable to 5 years

Multimedia Hardware

- ◆ Double speed, quad speed or six speed IDE CD-ROM drive
- ◆ 16-bit high quality stereo sound card
- ◆ Twin stereo speaker system
- ◆ PC joystick
- ◆ PC microphone

Fax & Internet Packs -Models D, D2 E2, F & F2

- ◆ 14.4 or 28.8 BAPT approved fax & data modem
- ◆ Easy to use fax software
- ◆ Communications software
- ◆ Introductory subscription to CompuServe with Internet mailbox.

APPROVED for communications systems specified in the agreement for use subject to the applicable terms in them

Multimedia Business PC

These systems are identical to the Multimedia PC/Printer Solutions but do not include the printer. They are available on similar buy now pay later terms with two and a half years Interest Free Credit. Please call for details on Multimedia Business PC Models B, C, D, D2, E and F

*APR

Printer Specifications

Select any ONE of the following 3 printers. All printers include shielded PC printer cable.

NEC Laser Printer

The new NEC SuperScript 610 Plus printer with virtual 600dpi resolution, fast 6 page per minute speed and full Windows 95 compatibility. Ideal for business and professional use.



HP Deskjet 660C Colour Inkjet Printer

The popular colour inkjet printer with resident black and colour cartridges 600dpi resolution and built-in automatic sheet feeder.



Epson Stylus Colour 2

The best colour inkjet with 720dpi resolution producing the best mono and colour output. Includes built-in automatic sheet feeder.



0%
INTEREST
FREE
CREDIT

Interest Free Credit is available subject to status. Written quotations are available on request. Be sure you can afford the payments before entering into a credit agreement. See page 11 for Interest Free example.



Multimedia PC/Printer Solution B

486DX4-100

Printer of your choice plus 486DX4-100 desktop with 8Mb RAM, 850Mb hard disk, double speed CD-ROM, local bus graphics and 15" sharp 0.28 NI screen

£75 Per Month

£217.48 deposit, then nothing to pay for 6 months. After 6 months pay 24 monthly payments of £75. Total price £1698 +VAT = £2017.48 inc. delivery and VAT. APR 0%



Multimedia PC/Printer Solution C

75MHz Pentium®

Printer of your choice plus 75MHz Pentium® desktop with 8Mb RAM, 850Mb hard disk, double speed CD-ROM drive, 64-bit PCI graphics and 15" screen

£79 Per Month

£238.97 deposit and then pay nothing for 6 months, after 6 months pay 24 monthly payments of £79. Total price £1798 +VAT = £2138.98 inc. delivery and VAT. APR 0%



Multimedia PC/Printer Solution D

75MHz Pentium®

Printer of your choice plus 75MHz Pentium® desktop with 8Mb RAM, 850Mb hard disk, quad speed CD-ROM, 14.4 modem and 15" screen

£83 Per Month

£260.47 deposit and then pay nothing for 6 months, after 6 months pay 24 monthly payments of £83. Total price £1898 +VAT = £2252.48 inc. delivery and VAT. APR 0%

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Software

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section for details*

Business Software

- ◆ Lotus 1-2-3 v5 spreadsheet
- ◆ Lotus Ami Pro v3.1 word processor
- ◆ Lotus Approach v3 database
- ◆ Lotus Organizer v2
- ◆ Lotus SmartPics graphics
- ◆ Lotus Training for 1-2-3, Ami Pro and Approach
- ◆ GSP Pressworks 2 desktop publisher
- ◆ GSP Designworks 3 graphics pack
- ◆ TurboCAD for Windows CAD Pack
- ◆ Organize your way organiser
- ◆ CV & Job Search Pro
- ◆ MasterClips SE Clipart

- ◆ Picture This graphics system
- ◆ Intuit Quicken v4 Personal Finance Pack
- ◆ Pacioli 2000 Business Accounts

Educational/Leisure Software

- ◆ Fun School 4
- ◆ Fun School Maths
- ◆ Fun School 5 in Time
- ◆ Fun School Spelling
- ◆ Fun School Paint & Create
- ◆ EZ Language French, German & Spanish
- ◆ Computerworks, Bodyworks & Autoworks
- ◆ Dinosaurs for Windows
- ◆ Doom, Blake Stone, Raptor and Pinball Shareware games

CD Multimedia Software

- ◆ WinTutor 95 Multimedia CD
- ◆ Infopedia Multimedia Encyclopaedia CD
- ◆ World Atlas Multimedia CD
- ◆ Bodyworks Multimedia CD
- ◆ Time Almanac CD
- ◆ EZ Language Multimedia CD
- ◆ Play & Learn Educational CD
- ◆ UFO for Windows CD
- ◆ Dinosaur Museum CD
- ◆ Shareware CD
- ◆ 5 Infoware Encyclopaedias CD

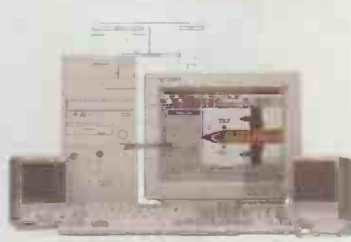


**Multimedia PC/Printer
Solution D2
100MHz Pentium®**

Printer of your choice plus 100MHz Pentium® Colossus midi-tower with 8Mb RAM, 256K cache, 1.08Gb hard disk, quad speed CD-ROM, 14.4 modem and 15" screen

£92 Per Month

£279.47 deposit and then pay nothing for 6 months, after 6 months pay 24 monthly payments of £92. Total price £2098 +VAT = £2487.48 inc. delivery and VAT. APR 0%



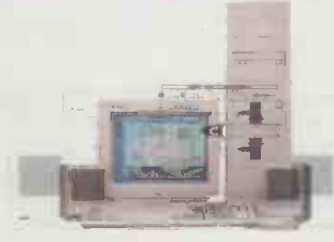
**Multimedia PC/Printer
Solution E1
133MHz Pentium®**

Printer of Your Choice Plus 133MHz Pentium® Colossus desktop with 256K cache, 16Mb RAM, 1.08Gb hard disk, 64-bit PCI graphics, quad speed CD-ROM, and 15" sharp .28 NI screen

£101 Per Month

£298.47 deposit and 24 monthly payments of £101. Total price £2298 +VAT = £2722.48 inc. delivery and VAT. APR 0%

Model E2: 100MHz Pentium® with six speed CD & Modem£Call



**Multimedia
PC/Printer Solution F2
133MHz Pentium®**

Printer of Your Choice Plus 133MHz Pentium® Colossus midi-tower with Triton chipset, 256K burst mode cache, 16Mb EDO RAM, 2.0Gb hard disk, 64-bit PCI graphics with 2Mb VRAM video RAM, six speed CD-ROM, 28.8 modem 3D Orchid NuSound and 15" sharp .28 NI screen

£136 Per Month

£398.47 deposit and 24 monthly payments of £136. Total price £3098 +VAT = £3662.48 inc. delivery and VAT. APR 0%

Model F: 120MHz with 1.6Gb hard disk ...£Call

CALL NOW!

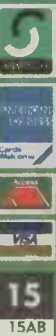
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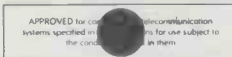
Texas Instruments TFT Colour Notebook

Time announce incredible deals on the top of the range Texas Instruments TFT and dual scan colour multimedia notebooks. These systems come complete with the best software applications including:- Lotus 1-2-3, Lotus Ami Pro, Lotus Organizer 2, Lotus Approach, Lotus SmartPics, Quicken v4 and AutoRoute Express.

All 486 systems also come with a complete fax & Internet Pack including a BABT

approved Intel® PCMCIA modem with appropriate fax and comms software. Fax your documents to anyone and connect to your PC to your base and many other on-line services with ease.

At just £49 per month on Interest Free Credit, these Mobile Comms Office Solutions are going fast. Hurry place your order today!



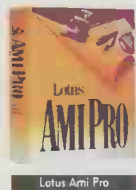
*APR

0% INTEREST FREE CREDIT

Interest Free Credit is available subject to status. Written quotations are available on request. Be sure you can afford the payments before entering into a credit agreement. See page 11 for Interest Free example.



Lotus 1-2-3



Lotus Ami Pro



Lotus Approach



Lotus Organizer



Lotus SmartPics



AutoRoute



Quicken

Notebook Specification

Texas Instruments latest 4000M models with built-in multimedia, Intel® modem and pre-loaded software. The Portable CD-ROM dock & mega bundle is also available as an option on Interest Free Credit.

- ◆ Intel® 486DX2-50, 486DX4-75 or 486DX4-100 processor
- ◆ 4Mb or 8Mb RAM
- ◆ 455Mb or 520Mb IDE hard disk
- ◆ Superb large 10.5" VGA TFT or dual scan colour screen
- ◆ 1Mb VESA video
- ◆ Built-in 16-bit sound card, microphone and speakers
- ◆ Built-in point mouse
- ◆ Adaptec fast SCSI-II port
- ◆ Optional CD-ROM drive clips on
- ◆ 1.44Mb floppy drive
- ◆ PCMCIA II/III and all standard ports
- ◆ MS DOS 6.2 and Windows 3.1 (Free Windows 95 voucher)
- ◆ Intel PCMCIA fax & data modem with software on all 486 models

Portable CD ROM & Mega CD Bundle

This is available on IF credit at extra cost (£26* per month) and includes the following:

- ◆ Double speed CD-ROM drive
- ◆ Larger speaker system with controls for volume, balance and mix
- ◆ Microsoft headphones and external microphone
- ◆ NiMH battery giving option of AC or battery power
- ◆ SCSI II connector and SCSI II bay option
- ◆ Additional Software on Mega CD:- GSP Pressworks 2 and Designworks 2, TurboCAD for Windows, Pacioli 2000 Business Accounts, Computerworks, Bodyworks and Autoworks plus many more educational and leisure programs

Software**

See software section for details

- ◆ Lotus 1-2-3 v5 Spread sheet
- ◆ Lotus Ami Pro v3.1 Word processor
- ◆ Lotus Approach v3 Database
- ◆ Lotus Organizer v2
- ◆ Lotus SmartPics Graphics
- ◆ Intuit Quicken v4 Personal Finance Pack
- ◆ AutoRoute Express UK v3 for Windows (not on model 7)



TI COMMS OFFICE 4A
486DX2-50 340Mb, 4Mb, dual scan

£39* Per Month

£178.15 deposit and 24 monthly payments of £62 OR £730.15 deposit and 24 monthly payments of £39. Total price £1399 +VAT = £1666.15 inc. delivery & VAT. *APR 0%

8Mb model£149+VAT Extra

TI COMMS OFFICE 5
486DX4-75 520Mb, 4Mb, TFT

£69* Per Month

£259.15 deposit and 24 monthly payments of £88 OR £715.15 deposit and 24 monthly payments of £69. Total price £1999 + VAT = £2371.15 inc. delivery & VAT *APR 0%

8Mb model£149+VAT Extra

TI COMMS OFFICE 6
486DX4-100 520Mb, 8Mb, TFT

£79* Per Month

£275.65 deposit and 24 monthly payments of £102 OR £827.65 deposit and 24 monthly payments of £79. Total price £2299 + VAT = £27 inc. delivery & VAT *APR 0%

**New 75MHz Pentium® model
TI OFFICE 7**

P75 520Mb, 8Mb dual scan with built-in CD-ROM and sound card

£99* Per Month

£337.65 deposit and 24 monthly payments of £119 or £817.65 deposit and 24 monthly payments of £99 Total price £2699 +VAT = £2723.65 inc delivery & VAT

CD-ROM DOCK BUNDLE with 486 models £147.65 deposit and 24 monthly payments of £26. Total price £599 +VAT = £843.65 inc delivery & VAT. *APR 0%

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Mobile Office

All Offers End 9th March

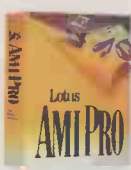
If you are looking for the ultimate notebook systems, take a look at our special deals on the incredible Colossus range of power notebooks. These systems come with fast 486DX4 processors, massive hard disks and ample RAM and are pre-loaded with the best software applications

including Lotus 1-2-3, Lotus Ami Pro, Lotus Organizer 2, Lotus Approach, Lotus SmartPics, Quicken v4 and AutoRoute Express.

They are completely modular and have a full range of docking facilities.



Lotus 1-2-3



Lotus Ami Pro



Lotus Approach



Lotus Organizer



Lotus SmartPics



AutoRoute



Quicken



Notebook Specification

- ◆ Intel® 100MHz 486DX4 processor
- ◆ 8Mb RAM expandable to 32Mb
- ◆ Removable 1.44Mb 3.5" floppy drive
- ◆ Removable 540Mb IDE disk
- ◆ 9.4" STN VGA mono, 10.4" dual scan colour or 9.4" TFT colour screens
- ◆ 2 PCMCIA Type II/1 Type III slot
- ◆ Built-in stereo speakers (optional sound card)
- ◆ 32-bit VESA local bus graphics with 1 Mb
- ◆ One advanced bi-directional parallel port, 9 pin fast serial ports with 16550 UART, keyboard, external monitor, PS/2 mouse ports
- ◆ The latest NiMH rechargeable battery is removable. There is full advance power management
- ◆ Built-in TouchPad mouse - the best pointing device on any notebook
- ◆ LCD status display
- ◆ Dim: 287x200x47mm: Weight 6.2lbs
- ◆ 1 Year warranty extendable to 3 years



Software**

See Software Section for details

- ◆ Microsoft® Windows 95
- ◆ Lotus 1-2-3 v5 spread sheet
- ◆ Lotus Ami Pro v3.1 word processor
- ◆ Lotus Approach v3 database
- ◆ Lotus Organizer v2
- ◆ Lotus SmartPics graphics
- ◆ Intuit Quicken v4 personal finance pack
- ◆ AutoRoute Express v3 road atlas



Free Intel® Modem

Claim your FREE Intel® PCMCIA modem whilst stocks last

Best Buy 1B
Colossus mono notebook
486DX4-100

with 540Mb hard disk, and 8Mb RAM

£ **1199**

+ VAT

Best Buy 2
Colossus dual scan colour notebook
486DX4-100

with 540Mb hard disk, and 8Mb RAM

£ **1399**

+ VAT

Best Buy 3
Colossus TFT colour notebook
486DX4-100

with 540Mb hard disk, and 8Mb RAM

£ **1799**

+ VAT

Other Options

RAM upgrade per 4Mb.....	£140
Sound card module.....	£80
Carry case.....	£25
Port replicator (mini docking station).....	£95
NiMH battery.....	£67
Intel PCMCIA modem.....	£99

Finance from under

£ **54** * **19.8%** APR

Per Month

Finance Example: Cash Purchase: £999 + VAT = £1196.15 inc. delivery & VAT. Credit Purchase: 10% (£119.62) deposit and 24 equal monthly payments of £53.83 Total Price £1411.54 inc. delivery & VAT.

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Ultimate Time Machine

The PC you have always wanted. Now affordable at just £99 per month at APR 0%!

The Ultimate Time Machine is the most powerful PC system you can buy today. This system, manufactured for Time by Colossus, comes with a truly incredible specification and high quality components that are ideal for the power user.

Take a closer look at the specification which includes the fastest Intel® 150MHz Pentium® processors, 1.6Gb enhanced IDE hard disk, a minimum of 16Mb EDO RAM, the fastest 64-bit PCI graphics with 4Mb VRAM video RAM, superb 17" screen, super fast 28.8 modem, 3.2Gb tape back-up, advanced PC TV system with Teletext and six speed full-feature multimedia with Orchid 3D NuSound card

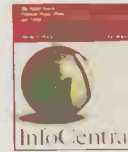
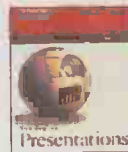
What makes the system truly unbeatable is the powerful range of Lotus and CD Multimedia titles - virtually everything you are ever likely to need is included.

If you could afford it, this is the machine you would buy. Now at just £99 per month on an incredible Interest Free Credit Offer, you can afford it!



PC TV
READY

APPROVED for certain telecommunication systems specified in the conditions for use subject to the conditions set out in them.



System Specification

- ◆ Intel 150MHz Pentium® processor
- ◆ Intel Triton Chipset with 256K burst mode cache
- ◆ 16Mb EDO RAM expandable to 128Mb
- ◆ 2.0Gb fast enhanced IDE hard disk with 256K cache
- ◆ The fastest PCI local bus SVGA graphics controller with 4Mb VRAM video RAM & free software MPEG
- ◆ 17" SVGA low radiation colour screen
- ◆ Colossus full-tower case with 9 drive bays and heavy duty power supply
- ◆ 1.44Mb floppy drive
- ◆ 102 Keyboard and Microsoft® compatible mouse
- ◆ Microsoft Windows 95
- ◆ 12 months warranty extendable to 5 years

Multimedia Hardware

- ◆ Six speed IDE CD-ROM drive
- ◆ Orchid 3D NuSound Plug n' Play sound card with hardware wave table
- ◆ Twin premium stereo speaker system
- ◆ PC joystick
- ◆ PC microphone

Fax & Internet Pack

- ◆ BABT approved 28.8 data and fax modem
- ◆ Easy to use fax software
- ◆ Communications software
- ◆ Introductory subscription to CompuServe with Internet mailbox
- ◆ Advanced PC TV system with Teletext
- ◆ 3.2Gb tape back-up system with software

Software**

See software section for details

Business Software

- ◆ Lotus Software suite including Lotus 1-2-3, Ami Pro, Approach, Organizer, SmartPics and Lotus Training
- ◆ Novell PerfectOffice suite with Word Perfect, Quattro Pro, Presentations, Envoy, GroupWise and InfoCentral
- ◆ GSP Pressworks and Designworks
- ◆ TurboCAD for Windows
- ◆ Organize Your Way
- ◆ CV & Job Search Pro
- ◆ Paololi 2000 Business Accounts
- ◆ Masterclips SE and Picture This!

Educational Software

- ◆ Fun School 4, Fun School Maths and Typing Tutor
- ◆ Computerworks, Bodyworks and Autoworks
- ◆ EZ Language French, German and Spanish

Leisure Software

- ◆ PC Paintbrush
- ◆ Doom, Blake Stone, Pinball and Raptor Games

CD Multimedia Software

- ◆ Infopedia Encyclopaedia CD
- ◆ WinTutor 95
- ◆ World Atlas CD
- ◆ Bodyworks CD
- ◆ EZ Language Multimedia CD
- ◆ Time Almanac CD
- ◆ UFO for Windows CD
- ◆ Dinosaur Museum CD
- ◆ Play and Learn CD

Ultimate Time Machine 5

£99 Per Month

£435.15 deposit and 24 monthly payments of £159 OR
£1875.15 deposit and 24 monthly payments of £99.
Total price £3599 +VAT = £4251.15 inc delivery & VAT.
*APR 0%

Ultimate Time Machine 4

133MHz Pentium, 1.6Gb, 2Mb Video . . .£300 less
Call for details

*APR

0% INTEREST FREE CREDIT

Interest Free Credit is available subject to status. Written quotations are available on request. Be sure you can afford the payments before entering into a credit agreement. See page 11 for Interest Free example.

Just Look At The Spec !

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> 150MHz Pentium® CPU | <input checked="" type="checkbox"/> 16Mb EDO RAM | <input checked="" type="checkbox"/> Six speed CD & 3D Orchid NuSound |
| <input checked="" type="checkbox"/> 2.0Gb enhanced IDE hard disk | <input checked="" type="checkbox"/> 256K burst mode Cache | <input checked="" type="checkbox"/> 9 bay Colossus tower |
| <input checked="" type="checkbox"/> 17" NI MPRII screen | <input checked="" type="checkbox"/> 4Mb VRAM video card with MPEG | <input checked="" type="checkbox"/> 3.2Gb tape back-up |
| <input checked="" type="checkbox"/> 28.8 Fax/data modem | <input checked="" type="checkbox"/> Advanced PC TV with Teletext | <input checked="" type="checkbox"/> The best software bundle in the UK |

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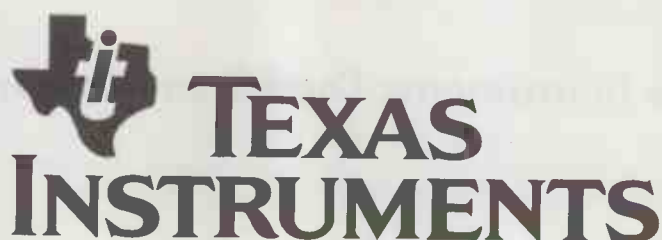
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Multimedia Colour Notebooks from Texas Instruments with Intel® Pentium® Processors

The new multimedia notebooks from Texas Instruments feature fast Intel 75MHz Pentium® processors, large 520Mb hard disk and a minimum of 8Mb RAM. Our most popular model (Extensa 550CD) also includes a superb dual scan colour screen, full-feature multimedia including sound card and double speed CD-ROM drive and excellent business software from Novell at just £2199.



System Specification

- ◆ Intel 75MHz Pentium® processor
- ◆ 8Mb RAM expandable to 40Mb
- ◆ 525Mb IDE hard disk
- ◆ 1.44Mb floppy drive
- ◆ 10.4" dual scan colour screen
- ◆ 1Mb local bus graphics
- ◆ Double speed internal CD-ROM drive (interchangeable with floppy)
- ◆ All standard interfaces including enhanced parallel, 16550 serial, external VGA, PS/2 keyboard, mouse port, PCMCIA type III slot, audio in/out, microphone in, serial infra-red port and 16-bit PCI bus
- ◆ 16-bit stereo sound card
- ◆ NiMH battery
- ◆ Built-in touchpad
- ◆ Microsoft® Windows® 95
- ◆ Novell PerfectOffice software suite (only with CD models)
 - WordPerfect word processing package
 - Quattro Pro for Windows Spread sheet
 - Presentations graphics package
 - Envoy document system
 - InfoCentral organizer
 - GroupWise electronic mailing system



£2199

Extensa 550

P75, 525Mb, 8Mb, dual scan

No multimedia, CD-ROM drive or PerfectOffice

£1899

330-11-029

Extensa 550CD

P75, 525Mb, 8Mb, dual scan

With multimedia and PerfectOffice software

£2199

330-30-015

Extensa 550CDT

P75, 525Mb, 8Mb, TFT colour

With multimedia and PerfectOffice software

£2599

330-30-016



WordPerfect



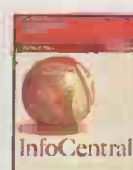
Quattro Pro



Presentations



Envoy



InfoCentral



GroupWise

TMMCN1A

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Multimedia Colour Notebooks at £999

Texas Instruments is one of the world's leading notebook manufacturers. We have slashed the prices on these top quality multimedia notebooks which are available with superb dual scan colour or TFT colour screens.

Texas Instruments Dual Scan Colour

This amazing 4000M notebook provides fast 486DX2-50 processor with superb dual scan colour screen, built-in sound and the option of adding the portable CD-ROM Dock for full-feature multimedia.



System Specification

- ◆ Intel 486DX2-50 processor
- ◆ 4Mb or 8Mb RAM
- ◆ 340Mb IDE hard disk
- ◆ 1.44Mb floppy drive
- ◆ Superb 9.5" dual scan colour screen
- ◆ Local bus graphics with 1Mb video RAM
- ◆ Standard interfaces including parallel, serial and keyboard / mouse
- ◆ Multimedia features with stereo sound card, internal microphone, speakers, audio in, audio out, 16-bit midi with games port
- ◆ NiMH long life battery (3-5 hours)
- ◆ SCSI II port with Adaptec SCSI software
- ◆ Intel Indeo video playback
- ◆ Integral mousepoint pointing device
- ◆ 2.9Kg weight, 21.6 x 27.9 x 5.1cm
- ◆ MS DOS and Windows for Workgroups 3.11



£999

330-11-024

8Mb model£1149

Texas Instruments TFT Colour Notebooks

These 4000M notebooks come with fast 486DX4-75 or 486DX4-100 processors with large TFT colour screen, built-in sound and the option of adding the portable CD-ROM Dock for full-feature multimedia.



System Specification

- ◆ Intel 486DX4-75 or 486DX4-100 processor
- ◆ 4Mb or 8Mb RAM
- ◆ 520Mb IDE hard disk
- ◆ 1.44Mb floppy drive
- ◆ Large TFT colour screen
- ◆ Local bus graphics with 1Mb video RAM
- ◆ Standard interfaces including parallel, serial and keyboard / mouse
- ◆ Multimedia features with stereo sound card, internal microphone, speakers, audio in, audio out, 16-bit midi with games port
- ◆ NiMH long life battery (3-5 hours)
- ◆ SCSI II port with Adaptec SCSI software
- ◆ Intel Indeo video playback
- ◆ Integral mousepoint pointing device
- ◆ 2.9Kg weight, 21.6 x 27.9 x 5.1cm
- ◆ MS DOS and Windows for Workgroups 3.11



£1399

- 486DX4-75 520Mb / 4Mb (330-11-022) **£1399**
- 486DX4-75 520Mb / 8Mb (330-30-017) **£1499**
- 486DX4-100 520Mb / 4Mb (330-11-021) ... **£1599**
- 486DX4-100 520Mb / 8Mb (330-30-018) ... **£1699**



Portable CD-ROM Dock

This simply attaches to the notebook providing a double speed CD-ROM drive, larger speakers, headphones and external microphone and extra bay.

£399

330-04-001

TMMMCIA

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Compaq & Toshiba TFT Colour Notebooks at Sensational Prices



Compaq Contura TFT

Save over £2000 on this top brand TFT colour notebook from Compaq. This excellent notebook comes with one of the best colour screens you can buy, 25MHz 486DX processor and 120Mb or 209Mb hard disk. At just £899, it has to be a bargain.

- ◆ Intel® 25MHz 486DX processor
- ◆ Low power consumption SL technology
- ◆ 4Mb RAM upgradeable to 20Mb
- ◆ 3.5" 1.44Mb floppy drive
- ◆ 120Mb IDE hard disk (209Mb £100 Extra)
- ◆ Superb 8.4" VGA TFT active matrix colour screen with 256 colours (the best colour screen you can buy on a notebook)
- ◆ Parallel, mouse, serial, extended keyboard and extended SVGA ports
- ◆ Integral Compaq Trackball mouse
- ◆ Powered by NiMH battery with advanced power management or AC/power adaptor
- ◆ Dimensions: 22.6cm x 4.8cm x 29.7cm. Weight 3Kg.
- ◆ DOS 6 & Microsoft® Windows® 3.1 pre-loaded
- ◆ Compaq Tabworks software

**SAVE
£2000!**

~~R.R.P. £2999~~

£899



Compaq Contura TFT 120Mb Model

£899

320-11-020

Compaq Contura TFT 209Mb Model

£999

320-11-021



Toshiba T4850CT TFT

This top selling TFT colour notebook is now available at this unique price. As well as all the standard features such as large 810Mb hard disk and 8Mb RAM, it has further expansion capability with Toshiba's Deskstation IV docking system.

- ◆ Intel® 75MHz 486DX4 processor
- ◆ 8Mb RAM expandable to 40Mb
- ◆ Massive 810Mb IDE hard disk
- ◆ 1.44Mb floppy drive
- ◆ Superb 10.4" TFT colour screen
- ◆ Local bus graphics with 1Mb video RAM
- ◆ Standard interfaces including parallel, serial and keyboard/mouse
- ◆ PCMCIA type II and Type III slots
- ◆ NiMH long life battery (3-5 hours)
- ◆ Microsoft® ballpoint mouse
- ◆ 3.2Kg weight. 11.7 x 8.3 x 2.2"
- ◆ MSDOS and Windows for Workgroups 3.11

£1999

233-11-041

LIMITED OFFER PRICE



TANOTIA

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Talk to the specialists in and ensure the right

Why HandHeld?

Have it with you at all times for extended use.

- 30-40 hrs. battery use
- Pocket sized
- Easy link to PC
- Built-in software
- PCMCIA Compatible
- Use straight out of box
- Fully expandable



Psion Series 3a

- 80 Characters x 17 Lines
- Zoom into built-in applications
- Voice recording
- Graphic User Interface

- Link to your PC
- Built-in Time Management, Calendar, Database, Word Processor, Calculator, World Data, Programming Language, Spreadsheet
- Fax Modem £154.95

256KB £199
512KB £209
1MB £249
2MB £299

Bundle Package
• Psion Series 3a 512KB
• PC Serial Link
• Leather Case
£269
1MB Bundle-£313
2MB Bundle-£363

AC Adaptor	£11.95	Paint and Compose	£54.95
PC Comms Link	£54.95	Agenda 3 Link	£42.95
Leather Wallet	£18.95	Aluminium Desk Stand	£14.95
Spreadsheet	£24.95	1MB RAM SSD	£188.95
Spellcheck Thesaurus	£34.95	128KB Flash	£26.95
Personal Accounts	£34.95	512KB Flash	£84.95
Garnes Pack 3	£24.95	1MB Flash	£88.95
Mac Comms Link	£59.95	2MB Flash	£138.95
Parallel Cable	£24.95	4MB Flash	£255.95
Fax Modem	£154.95	Timebase Solo	£94.95
Chess	£24.95	VT100 Emulator	£49.95
Prof Finance	£33.95	Data View	£48.95
Berlitz Interpreter	£28.95	Wine Guide	£32.95
Finance Pack 3	£34.95	PaiWin	£54.95
Series 3 Tools	£41.95	Autoroute	£50.95

Why Sub Notebooks?

When you want portability but don't want to compromise on power.

- Windows loaded
- A5 size with full PC power
- Up to 9 hours working power
- Immediate use
- Mainstream performance
- Data security



HP OmniGo 100 Plus
£214

NEW

HP OmniGo 100 Organiser Plus

- Enter data using pen or keyboard
- Access schedules + personal information + financial tools
- 1MB RAM, PCMCIA Type II slot, 16MHz, Serial Interface
- Rotatable display, portrait & landscape Modes
- Appointment/Phone, Notepad, Database, Worldtime
- 15.3 x 9.5 x 2.6CM / 350g
- Two AA Batteries
- GEOS Pen-OS
- QWERTY Keyboard / 5 function keys
- Digitising overlay with pen



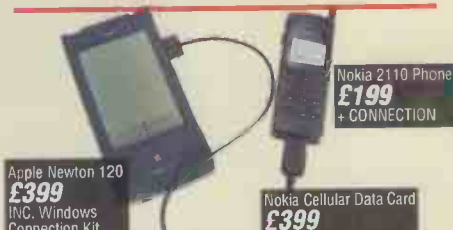
1MB £389.95
2MB £429.95

Bundle Deal
200LX + 1MB Memory Card
£499

HP200LX Palmtop PC

- 1MB & 2MB versions available
- 11oz of PC Power in Your Pocket
- 80 columns by 25 lines
- MS DOS 5.0
- Complete suite of built-in applications - CC Mail, Database, Lotus 1-2-3 & Pocket Quicken
- PCMCIA Version 2 Type II
- HP Financial Calculator
- 40 hours on 2 x AA alkaline batteries

PC Cable	£18.95	Leather Case	£24.95
Mac Cable	£18.95	PC Adaptor	£28.95
Connectivity Pack	£89.95	ALSO SEE PCMCIA MEMORY CARDS	



Apple Newton 120
£399
INC. Windows Connection Kit

Nokia 2110 Phone
£199
+ CONNECTION

Nokia Cellular Data Card
£399

Apple Newton MessagePad 120

The Newton MessagePad 120 puts easy-to-use communications, productivity, and desktop connectivity solutions in the palm of your hand so you can work away from your office.

- Can turn printed or cursive handwriting into typed text.
- Can use a wired or wireless modem to send faxes or use built-in NewtonMail™ software to tap into electronic mail and on-line services.
- Offers a large selection of productivity, finance, time, billing, management, reference and entertainment software.

Connection Kit	£54.95	Print Pack	£39.95
Recharge Cradle	£49.95	TapWorks	£54.95



600C 4/50 260MB
£1299
600C 4/75 170MB HD
8MB RAM
£1649

HP Omnibook 600

SUPERPORTABLE PC

Technology for freedom. No other PCs are as ready to go or as easy to use right out of the box.

- Desktop capability in your hand
- Intel DX2 50/DX4 75
- MS DOS 6.2, Windows 3.11
- 170MB PCMCIA Type III Hard disk
- Smallest notebook PC available (11.1x7.28x1.57")
- 4MB and 8MB RAM, Upgradeable
- VGA-Out Port
- Comes with external 3.5" Floppy disk drive
- Infra red data transfer
- 3 year warranty
- Up to 4 hours battery life
- 1.72kg (3.8lb) weight

MODELS & CONFIGURATIONS

MODEL	PROCESSOR	HARD DISK	RAM	SCREEN	PRICE
260	486 DX2/50	260MB	4MB	8.5 DSTN	£1359
260	486 DX4/75	260MB	8MB	8.5 DSTN	£1799
260	486 DX4/75	260MB	8MB	8.5 TFT	£1949



HP Omnibook 4000/5000

- 486, up to 100MHz DX4
- 4 or 8MB RAM. Up to 32Mb
- Up to 520MB HDD
- Built-in stereo sound
- 10.3" DSTN or 10.4" TFT
- Centered Trackball
- Infra-red port, serial, parallel, audio
- PCMCIA Type II Slot
- Enhanced Port Replicator
- 3 year warranty
- Full PC functionalities

- Modularity & flexibility
- Connectivity convenience
- Up to 3.5 hours battery life
- Sleep & hibernation mode
- MS-DOS 6.2, Windows 3.11
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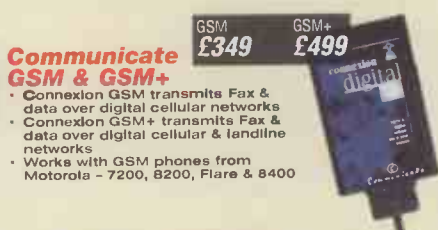
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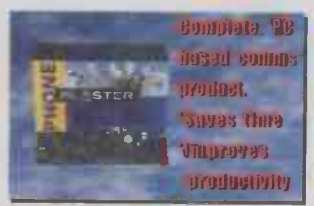
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- Soundblaster DISCOVERY 4X £199
- Soundblaster SHAREVISION PC3000 .. £899



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- PC/TV HOME VIDEO CARD £149
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- MULTIMEDIA SPEAKERS 80W Active. £31
- MULTIMEDIA SPEAKERS 25W Active. £23
- MULTIMEDIA SPEAKERS 15W Active. £17
- LABTEC CS550 SPEAKERS £19

CD-ROM DRIVES

MITSUMI

- MITSUMI FX-400 Quad Speed £89
- GOLD STAR RS40B Quad Speed £89
- PANASONIC 551B Quad Speed £95
- PIONEER DR-UA124X Quad Speed £109
- SONY CDU-76E Quad Speed £109
- TOSHIBA XM5302B Quad Speed £109
- CREATIVE Hex Six Speed NEW £139

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- AEGIS GUARDIAN OF FLEET OR OUTPOST .. £14
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- DRACULA UNLEASHED £12
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- MAD DOG MCCREE PART 1 OR 2 £12
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- THE SEVENTH GUEST £9
- GROLIER ENCYCLOPEDIA RELEASE 6 £9
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- M/S ENCARTA 95,WORKS & MONEY £39
- MS FAMILY CD(BUNDLE)+ENCARTA £49

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- MS WINDOWS 95 (inc. Registration) £75
- DOS 6.22 AND WINDOWS 3.11 WFWG £59
- MICROSOFT WINDOWS SOUND SYSTEM £29

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CANON BUBBLE JET

- Canon BJ-30W Portable £155
- Canon BJ-70W Portable COLOR £235
- Canon BJ-200EX Desktop £175
- Canon BJ-230 A3 Desktop £255
- Canon BJC-600E Desktop COLOR £345

EPSON INK JET

- Epson STYLUS EPS 820 INKJET 720X360E205
- Epson STYLUS EPS COLOUR 2S £275
- Epson STYLUS COLOUR EPS 2 £305



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PANASONIC DOT MATRIX

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TEKNIK SYSTEMS



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- 486 PCI Motherboard (Winbios)
- P-24T Pentium Ziff socket
- 4MB RAM (EDO +£10)
- Maximum 64Mb
- Write-back cache
- 1MB PCI Cirrus Logic 5430 SVGA
- 14" Non-interlaced 0.28 Monitor
- Enhanced IDE Hard Drive
- Supports up to 4 ATA mode 4 drives
- 1.44 Mb 3.5" Floppy Drive
- 2 Fast serial (UART 16550) ports
- EPP/ECP Printer port
- M/S compatible serial mouse.
- Windows 95 keyboard (105 keys)
- Desktop or Minitower case

T5 OBSERVER (Pentium Triton Powerhouse)

- Intel Pentium Processor
- Triton Chipset with socket 7
- Support P-54C & P-55C CPU
- 8Mb RAM (EDO+£20)
- Maximum 128Mb
- Write-back cache
- 1Mb PCI Cirrus Logic 5430 SVGA
- 14" Non-interlaced 0.28 Monitor
- Enhanced IDE Hard Drive
- Supports 4 ATA MODE 4 drives
- 1.44 Mb 3.5" Floppy Drive
- 2 Fast serial (UART 16550) ports
- SPP/EPP/EPC Printer port
- M/S compatible serial mouse.
- Windows 95 keyboard (105keys)
- Desktop or Tower case (CE approved)

486	850MB	1.08MB	1.28MB	1.60GB
DX2-66	£529	£554	£579	£609
DX4-100	£559	£584	£609	£639
DX4-120	£589	£614	£639	£669
586-100	£599	£614	£639	£679

PENTIUM	850MB	1.08MB	1.28MB	1.60GB
75 Mhz	£739	£764	£789	£819
100 Mhz	£839	£864	£889	£919
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150 Mhz	£1029	£1054	£1079	£1109
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 - 256k pipeline cache (Pentium) £29
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 - Diamond Stealth 64 Video £ 55
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 - Hex six Speed CD drive £135
 - Sound Blaster 16 (full version) £ 65
 - AWE 32 Value £105
 - AWE 32 P&P (full version) £165
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 - WINDOWS 95 £ 69
 - M/S Office pro 95 £250



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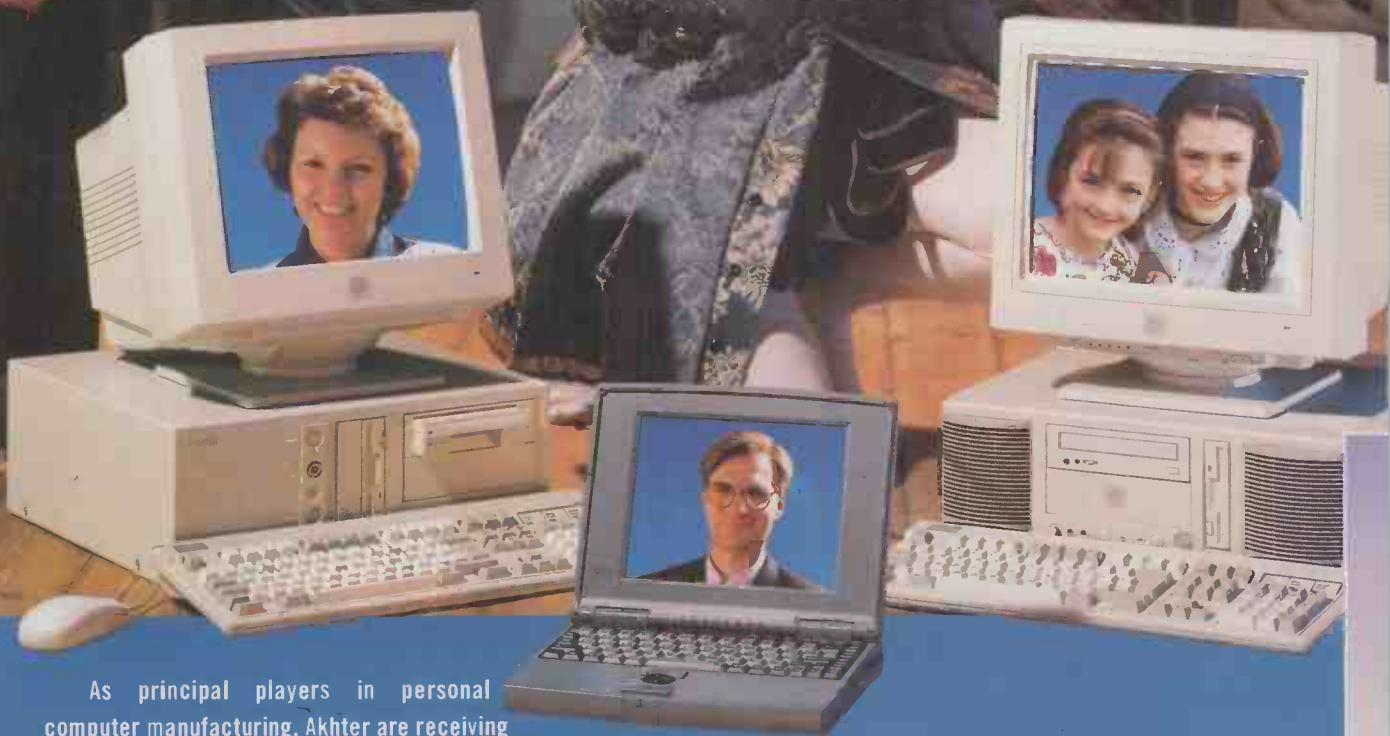


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- Weight 5.7lbs approx., size 286mm (w) x 224mm (d) x 44mm (h) Mono or 49mm (h) Colour
- 12 months Warranty



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Includes 14" MPRII NI Colour Monitor	525Mb	850Mb	1Gb	1.6Gb
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MITSUMI 4 SPEED IDE	£100.00
TOSHIBA 4 SPEED IDE	£139.00
PIONEER 4 SPEED IDE	£139.00
ACER 5 SPEED IDE	£139.00
TOSHIBA 4 SPEED SCSI	£150.00
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1 GIG	£175.00	£299.00
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DIAMOND STEALTH SE 2MB	£99.00
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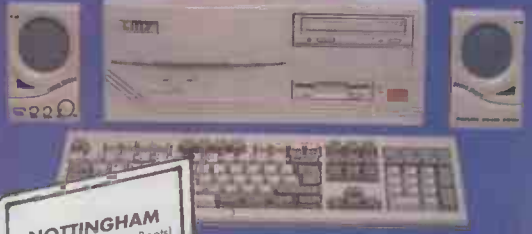
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V32bis INTERNAL VOICE FAX MODEM £69 VC1414I



The VC series includes high specification modem supporting hardware error correction and data compression plus the latest software from Cheyenne Communications - we believe one of the best voice packages available today! You can now send and receive faxes, create your own voice mail system, retrieve faxes and voice messages from any touch-tone telephone, exchange files and explore the world of on line computing including the Internet.

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Data Communications: This module connects your PC to the world of online computing. You can send and receive files, exchange electronic mail and connect to online services. This full-featured program features popular file transfer protocols, including Y-modem-G, Zmodem, and Kermit. A powerful script language automates connections and routine tasks. Host mode lets you run a mini bulletin board system.

Full duplex speaker phone (14.4 version). Autodial Hands free conversation if you use optional microphone and speaker.

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View Fax: Zoom in and out and rotate received images, rotate faxes that were sent upside down. Enhance the readability of faxes with anti-aliasing. Export faxes as BFX, BMP, DCX, PCX and TIFF files

- V32bis/32/22/21/bell
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- 16 bit ADC / DAC Voice
- MNP 2-4 V42 Error Correction
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- 14400/9600/2400/300bps
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- MNP 5 V42bis Compression
- On-board speaker monitor
- Hayes compatible commands
- IRQ 2-5 COM 1-4 supported

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through on noisy telephone lines where other modems fail. - Ideal for heavy use situations.

Supports the latest error correction standards including MNP10 on the V34 version, ideal for cellular use and where line conditions are very poor.

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Supplied with Winfax, Dostax, COMIT LITE Windows, DOS comms., and fax software.
Free 9 & 25 pin serial cable and AC power supply.

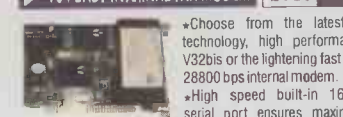
- V34/VFAST/32bis/32/22/bis/22/21/bell/212A/103
- 28800, 14400/9600/2400/1200/300 bps
- V17 - 14400 bps S/R Fax
- Group 3 Class 1 & 2 Fax
- V42 / MNP 2-4/10 error correction
- V42bis / MNP 5 data compression
- Asynchronous Synchronous
- Lease line operation 2 wire
- Auto self test modes
- Auto dial / Auto answer
- Pulse and tone dialling

V32bis INTERNAL FAX MODEM £64 1414CI

V34 INTERNAL FAX MODEM £99 2834CI

V32bis BAPT INTERNAL FAX MODEM £87 DS1414I

V34 BAPT INTERNAL FAX MODEM £139 DS2834I



Choose from the latest in technology, high performance V32bis or the lightning fast V34 28800 bps internal modem.

High speed built-in 16550 serial port ensures maximum data throughput even on "old technology" computers. A maximum of 57,600 bps throughput is achieved on the V32bis version while the V34 boasts 115,200 bps!

Designed for continuous use operation ensures that this unit will perform in any situation - ideal for bbs, Internet, travel agents, hobby and support services.

Error correction and data compression is hardware based. Some cheaper modems rely on the software to perform this function making them slower and less reliable.

Support for independent IRQ and COM port settings enables you to install sound cards, CD's etc and still be able to use your modem, unlike some modems that only support two IRQ's and fixed COM port settings.

Continuous line monitoring automatically drops the data speed to allow error free communications and unlike some other modems automatically increases the line speed when conditions improve.

- V34/VFAST/32bis/32/22/bis/22/21/bell/212A/103
- 28,800/14,400/9600/2400/1200/300 bps
- V17 - 14400 bps S/R Fax
- Group 3 Class 1 & 2 Fax
- V42 / MNP 2-4 MNP 10 error correction
- V42bis / MNP 5 data compression
- Lease line operation 2 wire
- 16C550 Buffered UART
- Auto dial / Auto answer
- Pulse & tone adaptive dial

THE DATATECH ADVANTAGE

You can be confident when purchasing a modem from Datatech - modem specialists since 1989. Our service includes excellent pre-sales consultation, the very latest in communications technology, the keenest prices, free after sales technical support, plus if you are not totally satisfied with your purchase you can return it within 14 days for a refund (as long as it's sent back in "new condition").

You can be safe in the knowledge that we supply the U.K.'s leading establishments including BT, M.O.D., BBC, Home Office, Red Cross, National Westminster Bank, British Gas, British Rail, ICL, Schools, Colleges, Universities, Police Forces, Fire Brigade, H.M. Treasury, and the list goes on.....

Leading, reliable technology at the right price! Computer Shopper said "If what you want is a value for money solution, then the all round winner is from Datatech (5/91) - "extremely good value for a high-speed modem" (5/93) while PC Direct recommended the Datatech modem in its 10 modem review "for those planning to access BBS's and transfer files" (1/96) - PC Format was so impressed it gave it's gold award and commented "You can change COM ports and IRQ settings separately - a flexibility not found on many modems. - Packaging, presentation and manuals are excellent." Need we say more!

Datatech Modems support Hardware error correction and data compression. Some cheaper modems support this important standard only in software. Not all communication software supports this standard, this can lead to slower transfers and random characters appearing on your screen - not very good for controlling your bank account!

All our modems are supplied with a free starter pack which includes free CompuServe membership and AMEOL off-line-reader software for Windows (worth £25), free quick start guide and free access to the Datatech BBS service for the latest software updates and drivers.

We do not impose a credit card surcharge or charge high carriage tariffs. Please remember to check the TOTAL amount when comparing prices!

THE DATA EXCHANGE BBS £9 BBS

FREE HTML WWW SOFTWARE!

Access using your standard comms software using ANSI colour setting or use the FREE HTML INTERACTIVE MULTIMEDIA SOFTWARE

12+ GIGS of data on-line!

The latest shareware, public domain, updates and demo software from all over the world including: DOS applications, games, game cheats, Windows applications, utilities, images, flight, Doom, Internet, ham radio, clipart, GIF, fonts, accounting, multi-media, database, CAD, communications, DTP, education, health, OS/2, religious, word processing, etc, etc...

FULL V.34 CONNECTION 0116 2340008

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MULTI LINE CHAT! ELECTRONIC MAIL

£9 (10.58 inc. vat.) gets you a full 3 months membership with one hour on-line per day! Your welcome package includes full instructions and multimedia graphical remote client software for Windows!

Call the sales hotline or request information 24 hours a day....

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BBS: 0116 2340008 FAX: 0116 2341402

Datatech Systems - 61 Leicester Road, Thurgaston, Leicester LE7 7JH

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No.1 for Memory

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SMC INFO GUIDE



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catalogue you will find boxes
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Being known for quality means continually building on knowledge and experience to bring constant improvements to every level of activity.

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These values are certainly the backbone to the success of SMC Computers, the UK's premier source for PC hardware, and gymnast Anna Reedier, British and Commonwealth Champion. It's because we recognise that same commitment to quality and excellence in Annika that SMC Computers are delighted to be her sponsors.

During the Olympics year of 1996 we will both be aiming to give a World beating performance.

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2

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CUSTOM BUILT SYSTEMS

Standard solutions to PC applications will only ever satisfy the infrequent or low key user.

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With SMC Computers you can rely on a company that can specify and build outstanding PC systems to your requirements at a competitive price. Our advice is in the price!

Our reputation for quality and performance has been gained over many years of fulfilling individual PC orders covering every possible variation in technology and customer needs. That's why we call our range of systems INFINITE.

From the moment we agree your specification, you will find our service highly personal. An individual engineer will

assemble your system and after a 48-hour 'burn in' it will be separately tested and checked!



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By choosing INFINITE you will have a system that is not only built to your own requirements, but which carries a brand that is now recognised to stand for high quality, high performance, reliability, and which offers fully compatible and upgradable systems.

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Choose either Windows 3.11 or Windows 95 on ALL systems

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- MEMORY from £10
- HARD DRIVE from £25
- MOTHERBOARD ... from £45
- MULTIMEDIA..... from £22



SMC Computers is a member of the Confederation of Maintenance Protection

This means that, in addition to obtaining a high-quality system built exactly to your requirements, you have an on-site warranty insured against the failure of any participant and unrivalled peace of mind when choosing your system.



SMALL BUSINESS SYSTEM



This system is ideal for word processing, accounts and spreadsheet work. It features a 486 DX2 66Mhz CPU, 4Mb RAM and 540Mb hard drive. Future business growth is accommodated in this industry-standard, fully upgradeable machine

£699



INTERNET SPECIAL



Join the 'Information Superhighway' with our net surfer! Fast graphics, 100Mhz 486 CPU, 8Mb RAM and leading-edge 28.8K bps fax modem - complete with easy-to-use Internet software - make this PC the simplest way to join the fastest-growing communications system in the world.

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All systems are supplied with...

14" low-radiation monitor
PCI motherboard & graphics
EIDE controller
Fast serial and parallel ports
RAM upgradable to 128Mb

These are just a few examples
Please call to discuss your requirements

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Probably the best value for money you will find! Featuring a Pentium 75Mhz processor, 8Mb RAM, Creative Labs six speed CD ROM drive, full 16-bit SoundBlaster card, Yamaha speakers and 2Mb Diamond Stealth 64 graphics PCI graphics card this PC is the ideal entry into the wonderful world of Multimedia.

£1209

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Produce and edit your own video library and presentations using your VCR, camcorder and computer-generated images and sound. This system uses a Pentium 90Mhz processor with 8Mb RAM, special AV 1Gb hard drive, 16-bit sound card, Creative Labs VideoBlaster RT300 and TV Coder hardware to give you a professional-style video editing suite.

£1449

MIDI MUSIC MACHINE



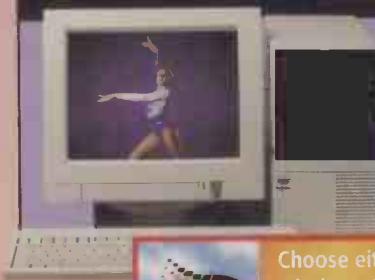
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YEARS
WARRANTY



Create, edit and play-back your own compositions, with or without a MIDI instrument, using Windows-based software. Hardware supplied includes a Pentium 75Mhz processor, 8Mb RAM, 32-voice sound card (which is fully Roland and General MIDI compatible) and high fidelity Yamaha speakers.

£1129

WINDOWS POWER PLUS WORKSTATION





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Engineered specifically to get the most from your Windows software - at a price you can afford. This system boasts a massive 16Mb of RAM, a 100Mhz Pentium processor, a huge 1Gb EIDE hard disk drive, quad speed CD ROM drive and Windows-optimised Matrox Millenium 2Mb graphics card to really make your Windows applications fly.

£1529

Choose either Windows 3.11 or Windows 95 on ALL systems

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Make this the hub of your network! Featuring a Pentium 120Mhz processor, 16Mb RAM, 2Gb Fast SCSI-2 hard drive, PCI combo network card and 2Gb DAT drive, for extra data security, in a full tower case that enables future expandability as your network grows.

£2429

4

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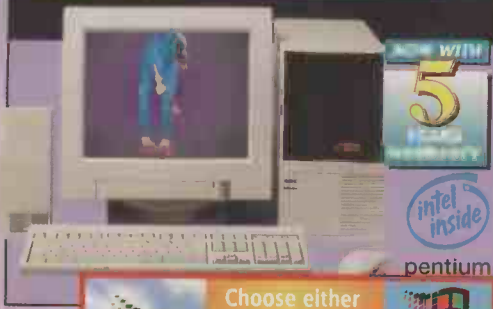
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of systems we can build.
particular requirements.

TELECOMMUNICATIONS CENTRE

The telephone management facilities of this system give you advanced answerphone, fax and modem capabilities on your desktop. With a Pentium 75Mhz processor, 8Mb RAM, Creative Labs combined 16-bit sound card and 28.8bps fax modem, you have a high performance PC capable of handling your telephone while you are busy in another application.

£1179



Choose either Windows 3.11 or Windows 95 on ALL systems

P133 DREAM MACHINE

At the leading edge of PC technology, this system give you the ultimate Pentium 133Mhz processor, a massive 32Mb RAM, 1.6Gb mode 4 EIDE hard drive, super-fast 6 speed CD ROM drive, AWE32 sound card, 4Mb MPEG-playback PCI graphics card plus top-quality 80 watt speakers and bass-enhancing sub-woofer. If you want it all, it's all here!!

£2459



MONITORS

You can select any of these monitors when purchasing a complete system.
Deduct £120 from the price shown and add to your system cost.

Model	Size (inches)	Dot pitch	V scan rate (Hz)	H scan rate (KHz)	Maximum resolution	Interlaced non-interlaced	Energy star	Price
Sony								
CPD15SF1	15	0.25mm	50-120	31-64	1280 x 1024 N/I @ 60Hz	non-interlaced	Yes	£319
GDM17SE1	17	0.25mm	50-120	31.5-82	1600 x 1200 N/I @ 74Hz	non-interlaced	Yes	£809
GDM17SF1	17	0.25mm	50-120	31-64	1280 x 1024 N/I @ 60Hz	non-interlaced	Yes	£589
GDM20SE1	20	0.30mm	50-150	31-85	1600 x 1200 N/I @ 64Hz	non-interlaced	Yes	£1395
Iiyama (Idek)								
MF-8617E	17	0.26mm	50-160	27-86	1280 x 1024 N/I @ 80Hz	non-interlaced	Yes	£516
MT-9017E	17	0.25mm	50-160	27-92	1600 x 1200 N/I @ 72Hz	non-interlaced	Yes	£582
MF-8221E	21	0.28mm	50-160	24.8-94	1600 x 1200 N/I @ 75Hz	non-interlaced	Yes	£1165
MT-9121E	21	0.30mm	50-160	24.8-92	1600 x 1200 N/I @ 72Hz	non-interlaced	Yes	£1293
AOC								
AOC4S	14	0.28mm	50-90	30-38	1024 x 768 N/I @ 60Hz	interlaced	Yes	£149
AOC4NLR	14	0.28mm	50-90	30-50	1024 x 768 N/I @ 60Hz	non-interlaced	Yes	£159
AOC5LLR	15	0.28mm	47-120	29-64	1280 x 1024 N/I @ 60Hz	non-interlaced	Yes	£239
AOC7HLR	17	0.28mm	47-120	29-82	1280 x 1024 N/I @ 75Hz	non-interlaced	Yes	£449
Goldstar								
GS1462DM	14	0.28mm	50-90	31-38	1024 x 768 N/I @ 87Hz	interlaced	Yes	£165
GS1468DM	14	0.28mm	50-100	30-50	1024 x 768 N/I @ 60Hz	non-interlaced	Yes	£172
GS1505DM	15	0.28mm	50-100	30-50	1024 x 768 N/I @ 60Hz	non-interlaced	Yes	£212
GS1527DM	15	0.28mm	50-120	30-65	1280 x 1024 N/I @ 60Hz	non-interlaced	Yes	£259
GS1727DM	17	0.28mm	50-120	30-65	1280 x 1024 N/I @ 60Hz	non-interlaced	Yes	£453
GS2010DM	20	0.28mm	50-120	30-85	1600 x 1280 N/I @ 60Hz	non-interlaced	Yes	£847

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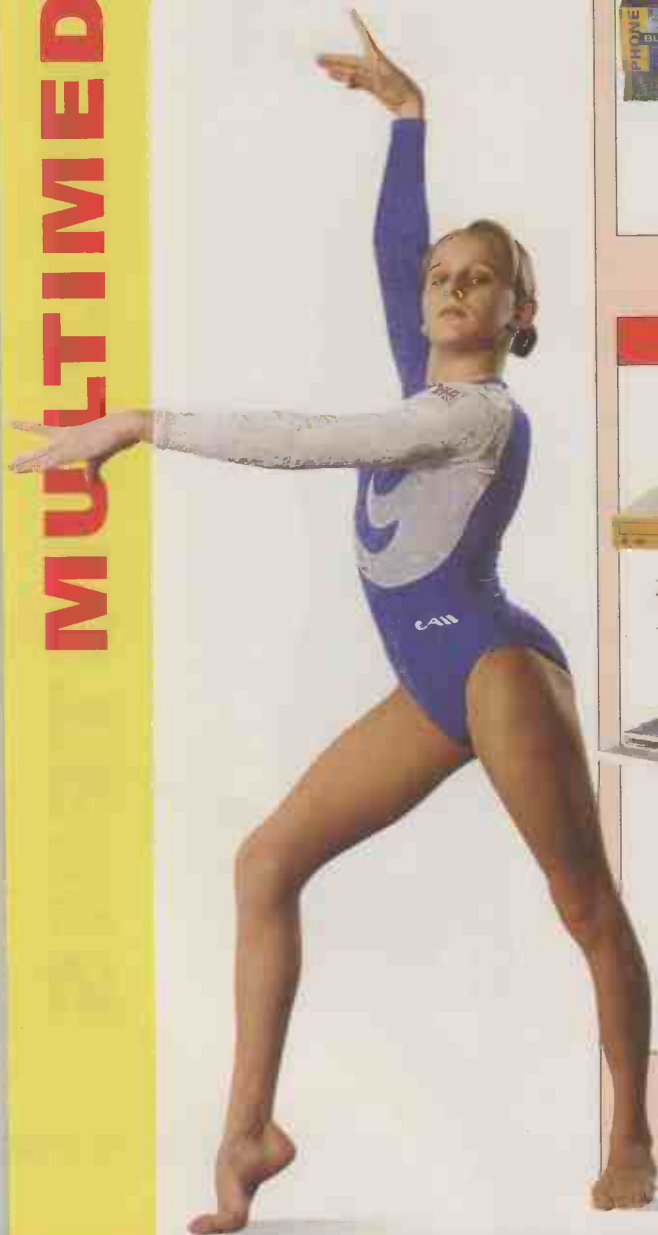
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5
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ADD A NEW DIMENSION TO YOUR PC!

Talk to us and discover the benefits of CD ROM.



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MULTIMEDIA KITS

Model	Sound card	Internal CD drive	Software	Price
Creative Labs SoundBlaster				
Multimedia Home CD	SB16 AdSP	4x	MS Encarta, Bookshelf, Ancient Lands, Dangerous Creatures, Cinemania, Scenes - MS Works, Publisher, Design Pack - Wing Commander II, MS Golf, Pagan Strike Commander, Syndicate	£273
Discovery 4x	SB16 IDE	4x	Win 95 tutorial, How To...Computers, Accent, Brief History of Time, Nascar, Global Language, Funschool, Virtual Pool, DK title	£198
GameBlaster CD16	SB16	2x	Rebel Assault, Sim City 2000, Syndicate Pagan Ultima VIII, Strike Commander Beneath a Steel Sky, Theme Park Creative titles plus Joystick and Speakers	£129
GameBlaster Value	AWE32 Value	2x	Destination Saturn, Doom (Episode 1) Heretic (Episode 1), Warcraft SE	£155
GameBlaster 32 4x	SB32	4x	Nascar, Theme Park - plus FX2000 Joystick Nascar, Virtual Pool, FIFA Soccer, Slipstream, FX Fighter, Retribution, Dark Forces, Full Throttle, Magic Carpet, Little Big Adventure, Alone in the Dark I & II, Theme Park - plus FX2000 Joystick	£249
Diamond				
Multimedia kit 8000	Diamond 16 bit 32 voice Plug & Play SB 16 compatible	8x (1200 Kb/s 230ms)	Rebel Assault, Myst Sim City 2000, Magic Carpet Comptons Interactive Encyclopaedia	£449

Please note: All titles in kits are subject to change by the manufacturers
All kits include speakers, cables and installation guides.

CD ROM DRIVES

Manufacturer / Model	Spin speed	Access time	Transfer rate (max)	Buffer/Cache	Media loading	Cable supp	Internal price	External price
EIDE / ATAPI interface								
Creative CD2P	2x	320ms	300Kb/s	64Kb	Tray		£59	
GoldStar GCD-540B	4x	190ms	600Kb/s	128Kb	Tray	A	£99	
Mitsumi FX-400	4x	250ms	600Kb/s	256Kb	Tray	A	£89	
NEC CDR-272	4x	250ms	600Kb/s		Tray		£99	
NEC CDR-273	4x	190ms	600Kb/s		Tray		£109	
Pioneer DR-UA124X	4.4x	150ms	676Kb/s	128Kb	Tray	A	£109	
Toshiba XM5302B	4x	190ms	600Kb/s	256Kb	Tray		£107	
Creative Blaster CD 6x	6x	220ms	900Kb/s	256Kb	Tray	A/D	£149	
Aztech Zeta 6x	6x	225ms	1050Kb/s	256Kb	Tray		£135	
SCSI interface								
NEC 6x-	6x	145ms	900Kb/s	256Kb	Caddy		£264	£349
Panasonic CR-504B	4x	190ms	612Kb/s	256Kb	Tray		£95	
Panasonic LF1004 CD/optical	4x	195ms	600Kb/s	256Kb	Tray	A/D	£499	£599
Optical media for Panasonic LF1004								
Panasonic LF1004K kit CD/optical	4x	195ms	600Kb/s	256Kb	Tray	A/D	£499	£619
Pioneer DR-U124X	4.4x	150ms	676Kb/s		Tray		£179	
Pioneer DRM-624X 6 disc	4.4x	150ms	676Kb/s		Magazine		£399	
Plextor 4Plex	4x	170ms	600Kb/s	256Kb	Caddy	D	£189	
Plextor 6Plex	6x	145ms	900Kb/s	256Kb	Caddy		£279	£329
Toshiba XM3601x	4.4x	150ms	660Kb/s	256Kb	Tray		£175	£269
Toshiba XM5301x	4x	190ms	600Kb/s	256Kb	Tray		£129	
Toshiba XM3701x	6.7x	135ms	1005Kb/s	256Kb	Tray		£245	£309
Parallel Port interface								
Backpack CD	4x	250ms	700Kb/s		Tray	D		£249
Backpack CD with								
MicroSoft sound	4x	250ms	700Kb/s		Tray	D		£315

Key:
A=Audio cable D=Data cable

MULTIMEDIA

OPTICAL & CD ROM RECORDERS etc

Manufacturer / Model	CD spin speed	Buffer Capacity	Transfer Cache	Transfer rate(max)	Access time (ave)	Cable supp	Internal price	External price
Optical Drives								
Fujitsu M2512A		230Mb	237Kb	2.1Mb/s	18ms		£395	£495
Panasonic LF1004								
CD/optical	4x	650Mb	256Kb	600Kb/s	195ms	A/D	£499	£599
Panasonic LF1004K kit CD/optical	4x	650Mb	256Kb	600Kb/s	195ms	A/D	£512	£622
Panasonic LF7304		1.5Gb	512Kb	1.5Mb/s	45ms		£1477	£1539
Hewlett Packard C1716T dual capacity		650Mb/	512Kb	1.0Mb/s	8.3ms		£1575	
Hewlett Packard C2550A dual capacity		1.3Gb		1.6Mb/s	1.6ms			£1719
Optical Media								
230Mb		For Fujitsu M2512A					£35	
650Mb		For Panasonic LF1004					£39	
1.3Gb		HP C1716T, HP C2550A					£95	
1.5Gb		For Panasonic LF7304, LF7300B					£99	
CD ROM Recorders								
Yamaha CD-100	4x	650Mb	512Kb	614Kb/s	800ms		£1689	£1889
Philips CDD522	2x	650Mb	2Mb	352Kb/s	1000ms		£1329	
HP SureStore 4020i kit complete with controller, software & 2 discs	2x rec 4x play	650Mb	1Mb	600Kb/s	800ms		£799	£899
Corel CRC software		Windows CD recording software. Supports most CD standards					£59	
Blank writeable CDs (10 pack)		650Mb(74 minutes)					£100	
CD ROM Jukeboxes								
Manufacturer / Model	CD speed	Number of CDs	Number of Drives	Transfer rate (max)	Access time (ave)	Cable supp	Internal price	External price
Pioneer DRM-624X	4.4x	6	1	676Kb/s	150ms			£469
Pioneer DRM-1804x	4x	18	3	614Kb/s	300ms			£1495
Pioneer DRM-5004x	4x	500	1 (max 4)	614Kb/s	280ms			£13999
CD ROM Towers								
3704SA		Includes four Toshiba XM3701B drives						£1599
3708SA		Includes eight Toshiba XM3701B drives and special controller						£2899

CD ROM ACCESSORIES

Part	Description	Price
EIDE Data Cable	For up to 2 drives	£10
CD-ROM Caddy	Spare drive caddy	£9
Sound Cables	NEC	£8
<i>(These cables are only available when purchasing a CD ROM drive)</i>	Panasonic	£8
	Toshiba 3x4 for 3xxx series	£8
	Toshiba 4x4 for 4xxx series	£8
<i>(See also: IDE Controllers on P16)</i>	Toshiba 4x4 for 5xxx series	£8
<i>SCSI Controllers on P19)</i>	Gravis-Toshiba	£8

CD SOFTWARE

These titles are only available when purchasing a CD ROM drive or multimedia upgrade kit

Title	Price	Title	Price
Educational / Reference		Leisure	
Encarta 96 for Windows 95	£39	Battlechess Enhanced	£17
Grolier Encyclopaedia	£32	Chessmaster 3000	£12
Arthurs Teacher Trouble	£16	Day of the Tentacle	£15
Solar System	£12	Dr Games	£18
World Atlas	£14	Games 1993	£18
The Animals at San Diego Zoo	£12	GamesMaster 2nd Edition	£17
Dinosaurs!	£18	House of Games	£18
Business / Miscellaneous		Kings Quest V	
Shareware Overload Trio (3 CDs)	£17	Loom	£23
Clip Art Heaven 2	£18	Megarace	£14
Clip Art Warehouse	£9	The Secret of Monkey Island	£28
Kodak Photo CD	£12	Sherlock Holmes Vol: 1	£19
MicroGrafix Works	£25	Who Shot Johnny Rock?	£34
PFS: Windows Works	£25	Mario is Missing	£14
		Dune	£14
		Indiana Jones & Fate of Atlantis	£18

CD ROM drives have developed rapidly over the past few years and we at SMC Computers have followed this development by ensuring we have the best range available at the best prices. Our technical staff have seen many new 'standards' emerge as the technology has progressed and become more accessible and are there to help you with any CD ROM problems you may encounter.

The original speed of a CD ROM drive matched that of a conventional Hi-Fi player with access times around 600 milliseconds and data transfer rates of 150Kb per second. Dual-speed drives were soon developed, with faster access times and greater transfer rates which gave way to the quad-speed drive with over 600Kb per second transfer rates and sub 200ms access times. Now we stock the latest six speed drives which can deliver up to a blistering 1005Kb per second and find data in under 135 milliseconds. Although the original single speed drives are virtually unobtainable, dual-speed (2x) drives now offer a good performance at an exceptionally low price. Ideal for software installation and large data storage for clip-art and reference works they are great value for money. Quad-speed (4x) drives have established themselves quickly and are great for games and other applications needing fast data transfer. The latest six-speed (6x) drives offer the best performance yet for fast access and the best data transfer rates, essential when you need your data quickly and ideal for network server libraries and the serious games player. Other common standards are Photo CD, XA and White Book. These cover the storage of still and moving images. White Book compatible drives are essential for MPEG-video CDs. Please note that CD ROM drives with the EIDE interface can be run alongside standard IDE drives providing they use a dedicated CD ROM controller such as the FD16002CD. Please call our sales line for more details.

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Sound cards were developed to improve on the original PC speaker output quality. From the simple bleeps and poor music of the first PC audio cards manufacturers have produced today's top sound cards which let you hear orchestras playing, laser guns firing and monsters roaring with frightening realism. We have a card for everyone whether you use it to improve your multimedia presentations, write your own music or simply enhance your game-playing. Our multimedia specialists can help you to choose exactly the right card for your needs and our technical backup is second to none so you can be sure of a trouble-free installation with an expert just a phone call away. Call our sales lines today for a informed, un-biased assessment and recommendation of your particular sound card needs.

GRAVIS



NO.1 FOR

SOUND CARDS

Model	Features	CD ROM Interface	Price
Creative Labs SoundBlaster			
PhoneBlaster	Integrated message centre with SB16 sound card and 28,800bps modem	IDE	£249
SB16 Value	16-Bit recording & playback, built-in amplifier. Free software, MIDI / Joystick interface	IDE	£58
AWE32 Value pack	AdSP socket, 1Mb MIDI ROM, 512Kb RAM, 32-voice wave table, 3 MIDI standards	IDE	£95
AWE32 Plug 'n Play (replaces Full Pack)	As above plus - upgradeable RAM banks, Win 3.1x & 95 software, WaveBlaster adaptor, built-in AdSP, MIDI cable	IDE only	£165
MIDI Blaster	MT32 compatible, can be used on any MIDI device, plays up to 20 notes simultaneously		£92
WaveBlaster II	Adds on to SB16 Pro/AWE32, 128 instruments, 6 drum kits, 2Mb ROM sampling		£89
Orchid			
NuSound PnP	Windows 95 Plug 'n Play, 5 channel mixing, SoundBlaster compatible. Simultaneous recording & playback, 46 special effects	IDE & Panasonic	£108
SoundWave 32 Pro	16-Bit stereo recording and playback, 2Mb ROM sampling. General & Roland MIDI compatible WaveBooster interface. Wave Table and	Mitsumi & Sony	£125
SoundWave 32 Pro SCSI	Algorithmic synthesis	SCSI	£137
GRAVIS			
Gravis			
Ultrasound Max	16-Bit simultaneous recording & playback. General & Roland MIDI compatible. SoundBlaster compatible, DSP processor	Mitsumi Sony Panasonic	£119



MULTIMEDIA

GRAPHICS CARDS



Model/ memory	Bus	Processor	Maximum Resolution	Maximum Colours	Feature Connector	Price
Diamond						
Speedstar 64 1Mb DRAM	ISA	Cirrus logic	1280 x 1024	16.7 million	Yes	£82
Speedstar 64 2Mb DRAM*		GD5434	64k colour*	800 x 600*	24 pin vesa	£119
Stealth 64 1Mb DRAM	VESA	S3	1280 x 1024	16.7 million	Yes	£83
Stealth 64 2Mb DRAM*	PCI	(1Mb-864 2Mb-964)	64k colour*	1152 x 864*	24 pin vesa	£114
Stealth 64 Video 2Mb VRAM	VESA	S3	1600x1200	16.7 million	Yes	£179
Stealth 64 Video 4Mb VRAM	PCI	968	256 colours	800 x 600	24 pin vesa	£275



Orchid						
Fahrenheit Pro 64 2Mb VRAM	VESA	Cirrus logic	1280 x 1024	16.7 million	Yes	£209
Fahrenheit Pro 64 4Mb VRAM*	PCI		256 colour*	1024 x 768*	24 pin vesa	£295
Fahrenheit Video64 2Mb VRAM	VESA	S3	1600 x 1200	16.7 million	Yes	£185
Fahrenheit Video64 4Mb VRAM*	PCI	938	256 colour*	1024 x 768*	24 pin vesa	£295
Kelvin Video64 1Mb DRAM	VESA	S3	1280 x 1024	16.7 million	Yes	£85
Kelvin Video64 2Mb DRAM*	PCI	968	256 colour*	800 x 600*	24 pin vesa	£117

Matrox						
MGA Millennium 2Mb WRAM	PCI	Matrox	1600 x 1200	16.7 million	Yes	£215
MGA Millennium 4Mb WRAM	PCI	MGA2064W	16.7 mil (8Mb)1600 x 1200 (8Mb)	24 pin vesa		£319



DIAMOND
Computer Systems, Inc.

MULTIMEDIA



VIDEO IMAGING CARDS

Model	Features	Maximum Resolution	Price
Creative Labs			
VideoBlaster SE100	Display full motion video, capture stills, adjustable video playback window. AVI video support	800 x 600 256 cols	£129
VideoBlaster RT300	Display/capture realtime video with compression up to 30 fps. Built-in i750	320 x 240 @ 30 fps	£209
VideoBlaster MP400	Full MPEG 1 format playback CD video playback to 32000 colours	System dependant	£118
TV Coder external	Display VGA screens on TV or Video Works with desktops and laptops	800 x 600 64000 colours	£108



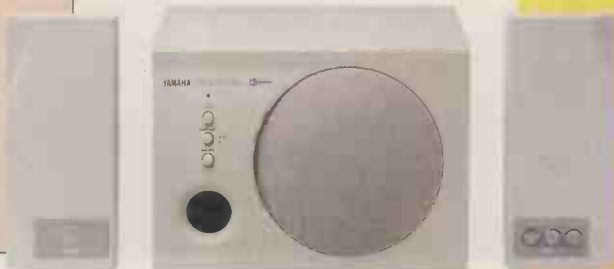
**AWE32 P'nP and
Orchid NuSound
Plug & Play
Compatible**

SPEAKERS

Manufacturer	Model	Output	Price
C & C	DSSS8	80watt	£49
Creative Labs	SBS300	10watt	£79
Yamaha	M10	10watt	£39
	SS510 sub woofer	25watt	£74

Requires standard speakers

**PUT QUALITY INTO YOUR
PRESENTATION**



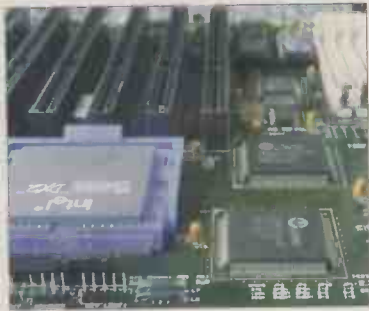
FAX: 01753 524443



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FEB '96

PROCESSORS & MOTHERBOARDS



NO.1 FOR PROCESSORS

PROCESSORS



Description	CPU Speed	Socket Size	Manufacturer	Voltage	Price
486DX2-66	66Mhz	168-pin	Cyrix	3.3v	£29
486DX2-66	66Mhz	168-pin	Intel	5v	£75
486DX2-80	80Mhz	168-pin	AMD	3.3v	£49
486DX4-100	100Mhz	168-pin	AMD	3.3v	£65
486DX4-100	100Mhz	168-pin	Intel	3.3v	£82
Pentium P75	75Mhz	237-pin	Intel	3.3v	£119
Pentium P90	90Mhz	237-pin	Intel	3.3v	£189
Pentium P100	100Mhz	237-pin	Intel	3.3v	£219
Pentium P120	120Mhz	237-pin	Intel	3.3v	£269
Pentium P133	133Mhz	237-pin	Intel	3.3v	£399

INTEL OVERDRIVE



OVERDRIVE

Description	CPU Speed	Socket Size	Socket Type	Voltage	Price
SX/DX25 to DX2-50	50Mhz	169-pin	Single Socket	5v	£76
SX/DX25 to DX2-50	50Mhz	Overdrive	Dual Socket	5v	£76
SX/DX33 to DX2-66	66Mhz	169-pin	Single Socket	5v	£85
SX/DX33 to DX2-66	66Mhz	Overdrive	Dual Socket	5v	£85
SX/DX33 to DX4-100	66Mhz	169-pin	Single Socket	5v	£125
SX/DX33 to DX4-100	66Mhz	Overdrive	Dual Socket	5v	£125
P63 Pentium O/D (SX/DX25)	63Mhz	P24T 238-pin	P24T Pentium O/D	5v	£165
P83 Pentium O/D (SX/DX33)	83Mhz	P24T 238-pin	P24T Pentium O/D	5v	£175

CYRIX 386-486



Cyrix®
Cx486

Description	Motherboard Speed	Socket Size	Manufacturer	Voltage	Price
386SX25 - 486 50	25Mhz	168-pin	Cyrix	3.3v	£138
386DX25 - 486 50	25Mhz	237-pin	Cyrix	3.3v	£138
386DX33 - 486 66	33Mhz	237-pin	Cyrix	3.3v	£147

HEAT SINKS



Fan assisted units only available when purchasing CPU	486 processor	Pentium 50/66	Pentium 75-133
	£7	£12	£11

MOTHERBOARDS



TMC

SMC Part Number	Bus Slots	CPU Type	CPU Socket	Chip set	Memory Bios Configuration	Max memory	Price
07-97-0513	2xVESA 6xEISA	486	A	OPTI	AMI AWARD 8x30 PIN-2x72 PIN	128Mb	£189
07-97-0355	3xVESA 4xISA	486	B	OPTI	AMI AWARD 4x30 PIN-2x72 PIN	128Mb	£73
07-97-0571	3xPCI 4xISA	486	B	ALI	AMI AWARD 4x72 PIN	128Mb	£89
07-97-5151	4xPCI 3xISA	Pentium	C	INTEL TRITON	AMI AWARD 4x72 PIN	128Mb	£149
07-97-5131	3xPCI 4xISA	Pentium	C	ALI	AMI AWARD 4x72 PIN	128Mb	£119

Note: All motherboards are fitted with controllers for 2 floppy drives, 4 EIDE devices, 1 enhanced parallel and 2 fast serial ports except the VESA bus versions of TMC 486-based boards



intel



SMC Part Number	Bus Slots	CPU Type	CPU Socket	Chip set	Memory Bios Configuration	Max memory	Price
"Atlantis" 07-31-1300	3xPCI 2xISA/PCI 1xISA/PCI	Pentium	3 (Socket 7)	INTEL TRITON	INTEL AWARD 4x72 PIN	128Mb	£239
"Endeavour" 07-31-1005	3xISA 1xISA/PCI	Pentium	C	INTEL TRITON	INTEL AWARD 4x72 PIN	128Mb	£159
07-31-1007	2xPCI	(P75-133 + 120 O/d)					£169
"Zappa" 07-31-0100	3xISA 2xPCI 1xISA/PCI	Pentium	C	INTEL TRITON	INTEL AWARD 4x72-PIN	128Mb	£149

Windows '95 Plug-n-play, built-in sound and ATI 64-bit graphics, zero cache (see below for options)

Cache memory for Atlantis / Endeavour mother boards - only available when purchasing motherboard

07-95-0251	256kb Asynchronous	£35
07-95-0253	256Kb Pipeline burst	£59

CPU socket types:
A = ZIF-DX2 + Pentium Overdrive B = ZIF-DX4 + Pentium Overdrive C = Pentium Processor

GO INTO OVERDRIVE
AND SEE YOUR
PERFORMANCE TAKE OFF

NOVA

MM

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FEB '96

SORS & MEMORY

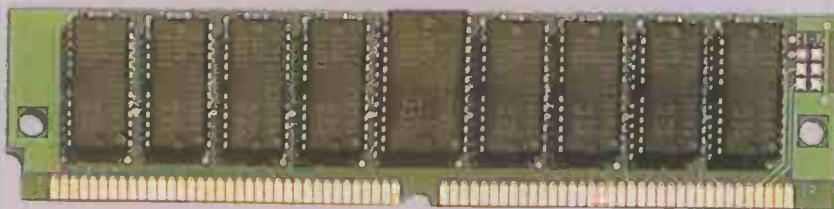
SIMMs - 30 pin

Memory Type	Total Size	Parity	Chips	Chip Size	60ns	70ns
Note: Standard 9 & 36-bit SIMMs have full parity checking. BP SIMMs simulate normal parity but there may be compatibility problems with some systems.						
1Mb						
30 Pin BP SIMM	1Mb	BP	3	1Mb-9Bit	n/a	£25
30 Pin Standard SIMM	1Mb	Full	3	1Mb-9Bit	£29	£26
30 Pin Standard SIMM	1Mb	Full	9	1Mb-9Bit	£30	£28
4Mb						
30 Pin BP SIMM	4Mb	BP	3	4Mb-9Bit	n/a	£98
30 Pin Standard SIMM	4Mb	Full	3	4Mb-9Bit	£106	£99
30 Pin Standard SIMM	4Mb	Full	9	4Mb-9Bit	£108	£103
16Mb						
30 Pin Standard SIMM	16Mb	Full	9	16Mb-9Bit	n/a	£459
Converts four 30-pin SIMMs to one 72-pin SIMM. Available left and right handed for back-to-back mounting.						£59



SIMMs - 72 pin

Description	Total Size	Parity	Chip Size	60ns	70ns
Note: Standard 9 & 36-bit SIMMs have full parity checking. BP SIMMs simulate normal parity but there may be compatibility problems with some systems.					
1-4Mb					
72 Pin Enhanced SIMM	1Mb	Full	256K-36Bit	n/a	£40
72 Pin Enhanced SIMM	2Mb	Full	512K-36Bit	n/a	£72
72 Pin Enhanced SIMM	4Mb	None	1Mb-32Bit	n/a	£75
72 Pin BP SIMM	4Mb	BP	1Mb-36Bit	n/a	£95
72 Pin Enhanced SIMM	4Mb	Full	1Mb-36Bit	£109	£98
8Mb					
72 Pin Enhanced SIMM	8Mb	None	2Mb-32Bit	n/a	£159
72 Pin BP SIMM	8Mb	BP	2Mb-36Bit	n/a	£195
72 Pin Enhanced SIMM	8Mb	Full	2Mb-36Bit	£229	£199
16Mb					
72 Pin Enhanced SIMM	16Mb	None	4Mb-32Bit	n/a	£319
72 Pin BP SIMM	16Mb	BP	4Mb-36Bit	n/a	£357
72 Pin Enhanced SIMM	16Mb	Full	4Mb-36Bit	£375	£365
32Mb					
72 Pin Enhanced SIMM	32Mb	None	8Mb-36Bit	n/a	£725
72 Pin Enhanced SIMM	32Mb	Full	8Mb-32Bit	n/a	£769
EDO memory <i>Note: requires motherboard support</i>					
72 Pin SIMM EDO	4Mb	None	1Mb-32Bit	£101	£99
72 Pin SIMM EDO	8Mb	None	2Mb-32Bit	£189	£179
72 Pin SIMM EDO	16Mb	None	4Mb-32Bit	£399	£389



BOTH SIMM MODULES SHOWN ACTUAL SIZE



MORE PRICE REDUCTIONS

BUY 13 OR MORE SIMMS AND SAVE £1.75 PER MB

eg: 13 off 1Mb x 3 70ns = £315.25
Full price = £338

BUY 5 OR MORE SIMMS AND SAVE £1 PER MB

eg: 5 off 1Mb x 3 70ns = £125
Full price = £130

30-pin SIMMs (Single in-line memory modules) are generally upgraded in twos or fours and 72-pin SIMMs singularly or in pairs. The speed shown indicates how fast the chips operate, the most popular speed being 70 nanoseconds, and although it is possible to mix different speed SIMMs they will all work at the slowest speed and occasionally problems may occur. Although most modern systems may now use the less expensive 3-chip SIMM some older models cannot address these properly and demand 9-chip modules. Parity is a form of self-checking on data required by many systems.

If you have any doubts which SIMM is right for your system check your manual and/or motherboard, or with your PC's original manufacturer, to check which type of SIMM you have installed or require to upgrade. Our technical sales staff will be glad to assist you if necessary.

SIMM MEMORY

FAX: 01753 524443



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FEB '96

MATCHED MEMORY

WARNING:

Memory modules and processor chips are sensitive to static electricity and can easily be damaged. When fitting memory ensure you have discharged any static by wearing an anti-static wrist strap (preferred) or by touching your PC case (providing it is connected to mains electricity but not switched on).



ANTI-STATIC WRIST STRAP:

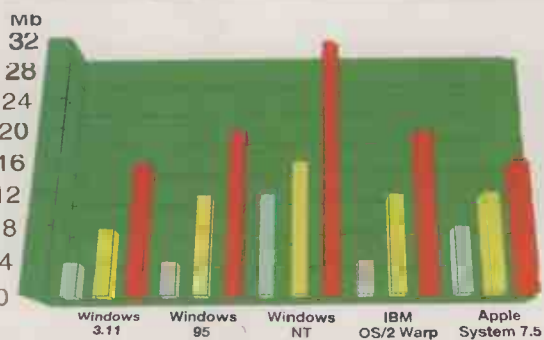
To prevent damaging your memory modules during installation, these straps will ground your body by attaching to a metal object such as your PC case. Available free, upon request, when ordering.



NO.1 FOR MAT

MATCHED MEMORY - COMPAQ

System	1Mb	2Mb	4Mb	8Mb	16Mb	32Mb	64Mb
Concerto 425, 433			£212	£375	£742		
Deskpro 286N, 386N	£48	£72	£127				
Expansion board (up to 12Mb)	£68						
Deskpro 386-25/33, 486-33/66	£48	£72	£127	£217			
Deskpro 386/20, 25, 20E, 25E	£65		£164				
Expansion boards	£98		£202				
Deskpro 386S-25M, 33M DX2-50M, 66M		£72	£127	£217			
Systempro LT 386-25, 33, 486DX250, SX25							
Expansion board (up to 64Mb)	£127						
Deskpro 386-33L, 486-33L, Systempro 386/33, 486/33, 1020E/2040E		£98		£295		£1185	
Expansion boards (up to 96Mb)		£275		£385		£1365	
Deskpro 386S, 386S/20	£48	£72	£127				
Deskpro 486/25, 50L		£98		£295		£1185	
Deskpro 5/60M, 5/66M, EX560				£318	£615	£1185	£2195
Deskpro XE 433S, Presario 800S		£72	£127	£217			
Deskpro M (non-Pentium)			£127	£217			
Expansion board (0-64Mb)	£98						
Deskpro XL466			£157	£298	£585	£976	
Deskpro 5/90, 5/75, 5/100				£190	£392	£674	£1382
Presario 924			£95	£196	£337	£699	
Systempro XL					£621	£1306	£1516
Expansion board (0-256Mb)	£284						
Prolinea 4/25s, 33, 50, 66 CDS Net 1/25s	£45	£82	£109	£217			
Presario 425, 433							
Prolinea AT4/33S, MT4/50, 66	£45	£82	£109	£217	£595	£977	
Presario 633, 650, 660							
Prosignia PC server 486-33, DX2-66	£48	£72	£127	£217	£548	£979	
Proliant 1000 486DX2-66				£217	£595	£977	
Proliant 1000 5/60, S Server, 2000, 4000					£615	£1185	£2195
LTE Lite 20, 25, 25C, 25E		£108	£178	£312	£593		
LTE Lite 4-25			£155	£313	£615		
LTE Elite			£165	£324	£742		
LTE 386S/20	£59		£168				
Contura 320, 325		£83	£155	£275			
Contura 425			£148	£275	£538		
Contura Aero 433, 425			£140	£265			
Contura 400			£148	£275	£875		
SLT 386S/20		£188	£175				
LTE LITE 5000				£292	£589	£1029	
PROLINEA 5/75, 5/98, 5/100 (Pairs required)				£196	£337	£699	



What will it take?

Operating System Memory requirements

- Minimum
- Recommended
- Optimum

INNOVA

GET YOUR SPRINGBOARD TO SUCCESS

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SMC
COMPUTERS

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FEB '96

MATCHED MEMORY

MATCHED MEMORY - IBM

System	1 Mb	2 Mb	4 Mb	8 Mb	16 Mb	32 Mb	64 Mb
Ambra series, Hurdla 486			£144		£497		
Sprinta 486, Enterprise 486			£144		£497		
Hurdla 386SX, Sprinta 386		£85		£265	£497		
Enterprise 386 slim		£85		£265	£497		
Ambra Trekka 386SL		£94					
Ambra Sprinta II			£127	£248	£548		
Aptiva 300, 500, 700 series			£127	£196	£337	£699	
PS/1 286		£92					
PS/1 Consultant 2133-G11/13 2155-G14, Essential, Expert M	£53	£82	£127	£248			
PS/1 Advisor, Consultant		£82	£127	£266	£548		
Investor, Willow, Essential Expert S series, ValuePoint			£135	£420			
PS/1 Pro 386SX model 57/56 series Multimedia model 67/77 Multimedia PreMnia 76/77 Model E9533 range		£82	£127	£248			
Server Model 85 9585 90XP							
PS/2 35LS/SX/40SX	£53	£82	£127	£266			
PS/2 50/50Z series	£53	£82	£127				
PS/2 55SX/55LS/60/60SX Expansion board 0-16Mb			£221	£294			
Model 70/80 series (option 1) Expansion board 0-16Mb	£53	£82	£127				
Model 70/80 series (option 2) Expansion board 0-64Mb			£127	£266	£548		
Server model 95XP (pairs)(ECC)			£165	£258			
Server model 95			£165	£258	£665		
95 Array series (pairs)(ECC)			£165	£258	£665		
Pentium Aptiva (kits)				£392	£674	£1398	
RS6000 PowerServer 220 series			£127	£248			
PS/2 Model 53			£127	£248			
RS6000 PowerServer 250 series			£127	£248	£548	£942	
X Station 120/130	£53	£82					
X Station 130			£124				
PS/2 CL57SX			£144	£309	£595		
Thinkpad 350, 350C, 700, 720, 750, 755 Thinkpad 760			£144	£309	£595		
PS/2 Model L40SX, Note 182		£99	£144	£279			
PS Note 2141, N82		£99	£144				
Portable PS/2 P75 series		£82	£127				
Portable PS/2 P70 series			£124				
Portable PS/2 P70 series Expansion board 0-16Mb			£185	£229			

Memory upgrades for all popular PCs.

We can supply memory modules for PCs from all the major manufacturers.

If you cannot find your system listed here, please call our component sales line.

Intel overdrive options for many of the systems listed. Please call for full details and prices.



Not sure which module to use?

Our sales staff can quickly identify the right memory upgrade for your system. Call us now for the best in memory upgrades.

Our system-matched memory modules are designed to the original manufactures specifications so they will fit into your PC with the minimum of fuss. Please note that although some system modules may look similar to standard SIMMs they are generally specifically configured for that system. All our matched memory upgrades are supplied with a full five year warranty and when ordering don't forget to ask for your free anti-static wrist strap for a safer installation. We can supply system matched memory for AST, Ambra, Apple, Canon, Compaq, Dell, Gateway, Hewlett Packard, IBM, NEC, Toshiba, Zenith and many more so please call with your requirements even if you do not see your system listed here.

**No.1 FOR MEMORY
ONLY TOP QUALITY
MEMORY IS
SUPPLIED BY
SMC**



MATCHED MEMORY

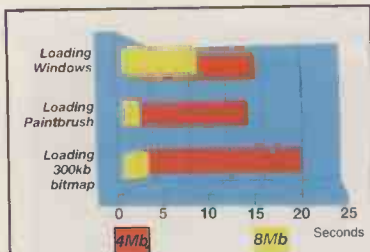
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SMC
COMPUTERS

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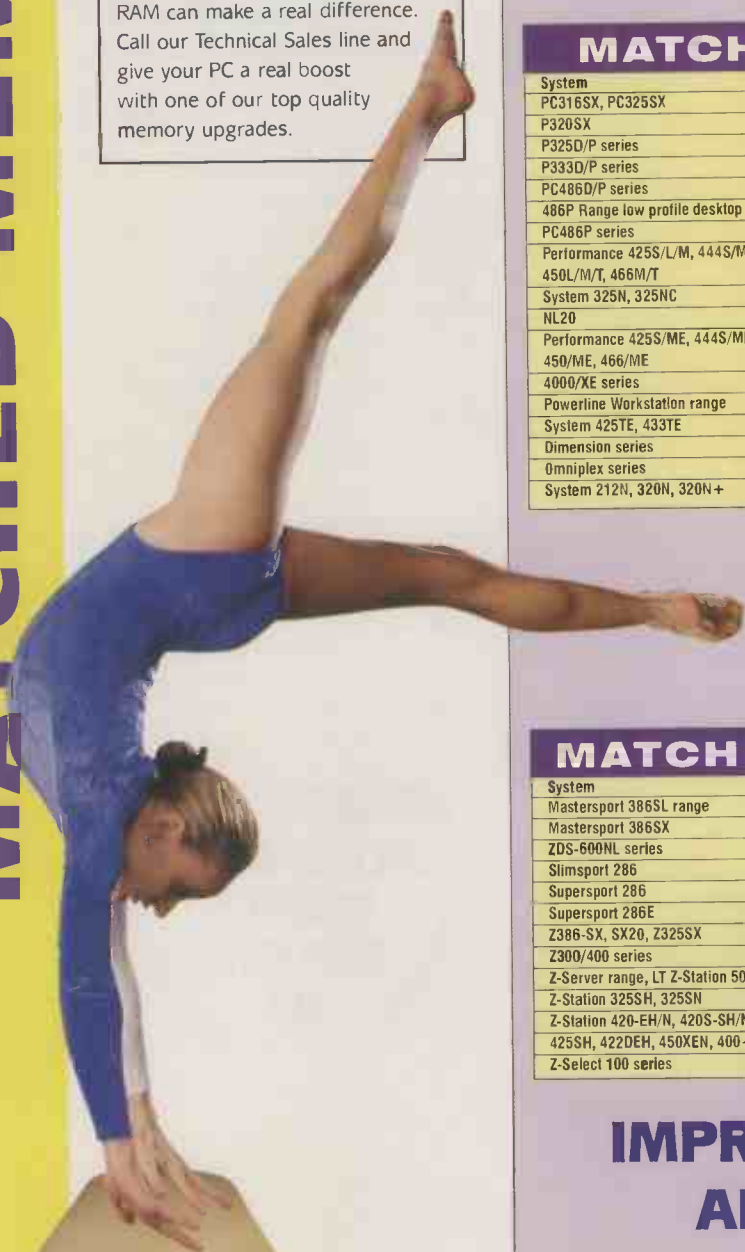
FEB '96

MATCHED MEMORY



The difference 4Mb makes

In tests conducted on one of our own 486DX2-66 based systems, the difference between 4Mb and 8Mb was startling. The graph above indicates the amazing speed increase that just another 4Mb can make to your system. With today's top software packages demanding more and more processing power a small increase in your systems RAM can make a real difference. Call our Technical Sales line and give your PC a real boost with one of our top quality memory upgrades.



NO.1 FOR MAT

MATCHED MEMORY - TOSHIBA

System	1Mb	2Mb	4Mb	8Mb	16Mb	32Mb	64Mb
T1000LE		£88	£155	£282			
T1200XE		£89					
T1600		£74					
T1800, T1850, T2000, T2200		£85	£155	£282			
T1900, T4500		£155	£295	£595	£1277		
Dynapad T2000, T4600, T4700		£155	£295	£595	£1277		
T4800		£155	£295	£595			
T1910, T1950, T1960		£147	£288	£575	£859		
T2100, T22150/CD		£165	£288	£555			
T2400, T3400, T3600		£85	£155				
T3100SX		£94					
T3100E		£159					
T3200 (3Mb module)		£84	£155				
T3200SX		£94	£155	£288	£525	£1282	
T4400, T6400, T6600		£74					
T5100		£85		£325			
T5200, T8500				£379	£749	£1589	
Satellite Pro							

MATCHED MEMORY - DELL

System	1Mb	2Mb	4Mb	8Mb	16Mb	32Mb	64Mb
PC316SX, PC325SX		£65					
P320SX	£54	£65	£112				
P325D/P series	£54		£112				
P333D/P series	£54		£112				
PC486D/P series	£54		£148		£537		
486P Range low profile desktop	£54		£148		£537		
PC486P series							£1059
Performance 425S/L/M, 444S/ME, 450L/M/T, 466M/T			£95		£522		
System 325N, 325NC		£95					
NL20		£96					
Performance 425S/ME, 444S/ME, 450/ME, 466/ME			£129	£249	£479	£958	
4000/XE series				£249	£479	£958	
Powerline Workstation range		£89	£155	£255	£488	£1059	
System 425TE, 433TE		£89	£155	£255	£488	£1059	
Dimension series		£139	£248	£488	£885		
Omniplex series		£139	£248	£488	£885		
System 212N, 320N, 320N+		£94					

SMC'S 5-YEAR WARRANTY PROVES THE QUALITY OF ALL MEMORY SUPPLIED

MATCHED MEMORY - ZENITH

System	1Mb	2Mb	4Mb	8Mb	16Mb	32Mb	64Mb
Mastersport 386SL range		£88					
Mastersport 386SX		£98					
ZDS-600NL series		£88					
Slimsport 286	£58	£102					
Supersport 286	£58						
Supersport 286E	£58	£102	£192				
Z386-SX, SX20, Z325SX		£78		£242			
Z300/400 series		£78		£242			
Z-Server range, LT Z-Station 500			£193	£294	£561	£884	
Z-Station 325SH, 325SN	£48		£164				
Z-Station 420-EH/N, 420S-SH/N	£48		£164		£528		
425SH, 422DEH, 450XEN, 400+	£48		£164		£528		
Z-Select 100 series							

IMPROVE YOUR POWER AND STAY AHEAD

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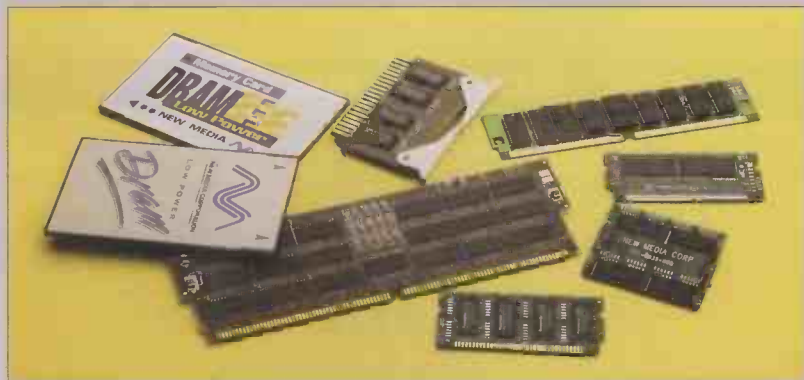
MATCHED MEMORY

MATCHED MEMORY - AST

System	1Mb	2Mb	4Mb	8Mb	16Mb	32Mb	64Mb
Advantage 386SX-20/25		£57		£210			
Bravo 486SX-20		£57		£210			
Advantage Plus			£154	£210			
Advantage Pro 486DX-33/SX-25		£106	£135	£233	£422	£828	
Bravo LC, LCII, LP, MT 4/25S, 4/33, 4/33S, 4/50D, 4/66D		£106	£135	£233	£422	£828	
Premium 386-33T/33TE	£55		£162	£353			
386SX-16, 386SX-20, 386SX-25 486-25, 486-25E, 486-25TE (using write-per-bit)							
Premium 386, 386C	£48		£154				
Premium II range				£353			
Premium 486-44, 486-33E				£353			
Premmia 4-33, 4-33S			£164	£275	£496	£842	£1822
MTE 4-33, 4-50D, 4-66D							
Premmia GX/P90, GX/P100				£262	£497	£842	£1633
Premmia LX/P60, MX/P100				£266	£512	£944	
MX4-66D, MX4-100T							
Power Exec 3-25SL, 3-25SL-c			£192	£322	£744		
Power Exec 4-25SL (special edition) 4-33SL Colour/Colour+			£198	£738			
Bravo NB and Explora			£162			£666	
Ascentia 800N series			£168			£573	
Ascentia 900N series			£178			£625	

MATCHED MEMORY - PRINTERS

Model	Expansion boards				Modules		
	1+Mb	2+Mb	3+Mb	4+Mb	1Mb	2Mb	4Mb
Canon							
LB-4, LBP-4 Lite, LBP-4 Plus	£94	£125					
LBP-4SX							£122
LBP-8II	£84	£92		£155			
LBP-8III, LBP-8III Plus	£95	£127	£169				
Hewlett Packard	1+Mb	2+Mb	3+Mb	4+Mb	2Mb	4Mb	8Mb
Laserjet II, IID		£88		£155			
Laserjet III, IIP, IID, IIP		£80		£145			
Laserjet 4L							£125
Designjet 600/650							£109 £218
Laserjet 4M, SI, SIMX, 5SI, 5SIMX							£109 £218
LaserJet 5L							£155
Panasonic	1+Mb	2+Mb	3.5+Mb	4+Mb	1Mb	2Mb	4Mb
KX-P4110, KX-P4430	£84	£125					
KX-P4450	£86						
KX-P4420, KX-P4450i, KX-P4451	£75			£168			
KX-P4440, KX-P5410					£84	£125	£188
IBM/Lexmark	1+Mb	2+Mb	3.5+Mb	1Mb	2Mb	4Mb	8Mb
PS4019, 4019E	£88	£146	£199				
Lexmark 5E, 6, 6A, 10, 10A				£55	£85	£139	
4029, 4037SE				£55	£85	£139	
PS4079, 4039 series							£149 £286



WARNING:

Memory modules and processor chips are sensitive to static electricity and can easily be damaged. When fitting memory ensure you have discharged any static by wearing an anti-static wrist strap (preferred) or by touching your PC case (providing it is connected to mains electricity but not switched on).



ANTI-STATIC WRIST STRAP:

To prevent damaging your memory modules during installation, these straps will ground your body by attaching to a metal object such as your PC case. Available free, upon request, when ordering.



Not sure which module to use?

Our sales staff can quickly identify the right memory upgrade for your system. Call us now for the best in memory upgrades.

No.1 FOR MEMORY

ORDER NOW!
SEE PAGE 24
FOR ORDERING
DETAILS



FAX: 01753 524443



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FEB '96

MATCHED MEMORY

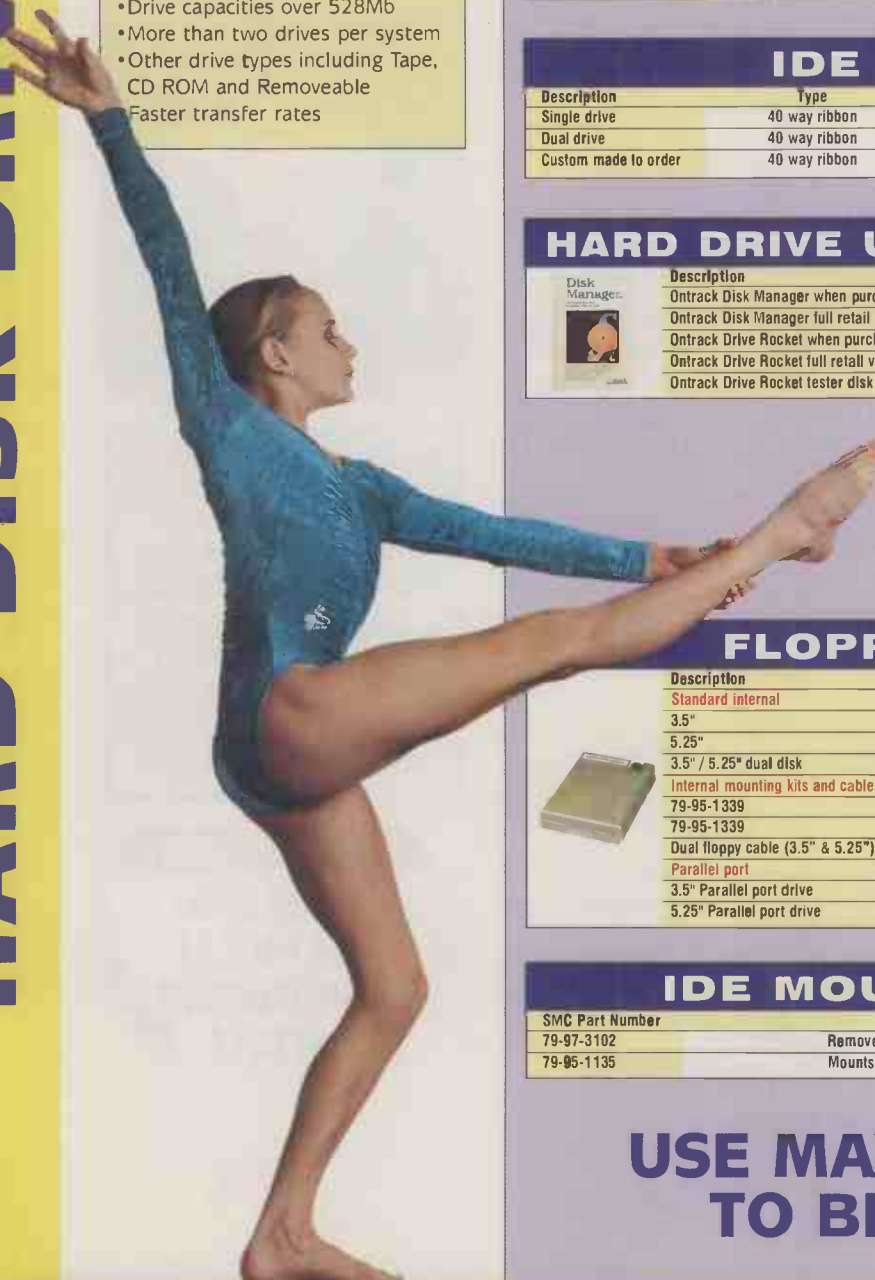
HARD DISK DRIVES



Enhanced IDE,

or fast ATA has been designed to overcome the limitations of the standard IDE interface and now offers some excellent advantages including:

- Drive capacities over 528Mb
- More than two drives per system
- Other drive types including Tape, CD ROM and Removeable
- Faster transfer rates



NO.1 FOR HARD

IDE CONTROLLERS

	Description	Bus type	Drives supp.	ATAPI/CD-Rom	Floppy supp.	I/O ports	LBA supp.	Price
IDE	IDESPC	ISA	2	No	2	Std	No	£14
	ADP60	ISA	2	No	0	No	Yes	£35
	ADP60F	ISA	2	No	2	No	Yes	£39
EIOE	Promise DC-4030VL2	VESA	4	No	2	No	Yes	£83
	EIDEMAX	ISA	4	Yes	0	No	Yes	£29
	VL400	VESA	4	No	2	Std	No	£29
	EIDEVLB	VESA	4	Yes	2	Std	No	£29
	EIDEVLB/SUPERI/O	VESA	4	Yes	2	Fast	No	£39
	Promise DC2300+	VESA	4	Yes	2	Fast	Yes	£39
	Promise 4030+ Cache	VESA	5	Yes	2	Fast	Yes	£105
EIDE/CD ROM	Future Domain 16002CD	ISA	2	Yes	0	No	No	£19
	Future Domain 16030/CO32	ISA	4	Yes	0	No	No	£35



IDE CABLES

Description	Type	Length	Connections	Price
Single drive	40 way ribbon	12.5"	2x IDC40	£8
Dual drive	40 way ribbon	20" (4" gap)	3x IDC40	£10
Custom made to order	40 way ribbon	Up to 20"	As Required	POA

HARD DRIVE UTILITY SOFTWARE

Description	Price
Ontrack Disk Manager when purchased with a hard drive	£15
Ontrack Disk Manager full retail version	£35
Ontrack Drive Rocket when purchased with a hard drive	£12
Ontrack Drive Rocket full retail version	£17
Ontrack Drive Rocket tester disk	FREE



Disk Manager:
Ideal for systems whose BIOS does not allow for large hard disk drives.

FLOPPY DRIVES

Description	Capacity	Media	Form	Price
Standard internal				
3.5"	1.44Mb	3.5" HD/DD	3.5"LP	£29
5.25"	1.2Mb	5.25" HD/DD	5.25"HH	£39
3.5" / 5.25" dual disk	1.44/1.2Mb	3.5"/5.25" HD/DD	5.25"HH	£89
Internal mounting kits and cables				
79-95-1339	Mounts 3.5" drive in 5.25" bay. Includes screws & rails			£8
79-95-1339	As above plus HDD-FDD power connector converter			£12
Dual floppy cable (3.5" & 5.25")				
Parallel port requires conventional floppy drive to install drivers				
3.5" Parallel port drive	1.44Mb	3.5" HD/DD	External	£119
5.25" Parallel port drive	1.2Mb	5.25" HD/DD	External	£125



IDE MOUNTING KITS

SMC Part Number	Description	Price
79-97-3102	Removeable drive caddy for 3.5" drives. Requires 5.25" mounting bay	£35
79-05-1135	Mounts 3.5" drive into a 5.25" bay. All screws supplied. No slide rails.	£10

USE MAXIMUM DRIVE TO BE THE BEST

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DISK DRIVES

IDE/EIDE HARD DRIVES

Size	Manufacturer	Model	Cache	Access	Warranty	Disk Mgr	Price
3.5" drives							
540Mb	Quantum	FBL540AT Fireball	128k	12ms	3 year	Yes	£125
545Mb	Fujitsu	M1603T	256k	10ms	3 year	Yes	£125
545Mb	Seagate	ST3660AT Medalist XE	120k	14ms	3 year	Yes	£125
635Mb	Western Digital	AC2635A Caviar	64k	10ms	3 year	Yes	£129
850Mb	Conner	CFS850A Filepro	64k	15ms	3 year	Yes	£139
850Mb	Maxtor	7850AV	64k	12ms	2 year	Yes	£139
850Mb	Quantum	TB2850AT Trailblazer	128k	14ms	3 year	Yes	£139
850Mb	Seagate	ST5850A Decathlon	256k	11ms	3 year	Yes	£139
850Mb	Western Digital	AC2850A Caviar	64k	10ms	3 year	Yes	£139
1.0Gb	IBM	84G8998	512k	11ms	3 year	Yes	£179
1.0Gb	Fujitsu	M1606T	256k	10ms	3 year	Yes	£159
1.0Gb	Maxtor	71084A	64k	12ms	2 year	Yes	£169
1.0Gb	Quantum	FBL1080AT Fireball	128k	12ms	3 year	Yes	£168
1.0Gb	Seagate	ST51080A Decathlon	256k	10.5ms	3 year	Yes	£169
1.0Gb	Western Digital	AC2100A Caviar	128k	10ms	3 year	Yes	£169
1.2Gb	Conner	CFS1275A Filepro	64k	15ms	3 year	Yes	£169
1.2Gb	Conner	CFA1275A Advantage	256k	12ms	3 year	Yes	£269
1.2Gb	Seagate	ST31270A Medalist	256k	10.5ms	3 year	Yes	£179
1.2Gb	Western Digital	AC31200A Caviar	64k	10ms	3 year	Yes	£182
1.6Gb	Seagate	ST31640A Medalist	256k	10.5ms	3 year	Yes	£219
1.6Gb	Western Digital	AC31600A Caviar	128k	10ms	3 year	Yes	£249
2.0Gb	Seagate	ST32140A Medalist	256k	10.5ms	3 year	Yes	£299
2.5" drives Note: These drives have a 44-pin connector. Please check your system for compatibility.							
520Mb	Seagate	ST9655AG Marathon	128k	10ms	3 year	No	£295
543Mb	Toshiba	MK1924FC	128k	13ms	2 year	Yes	£245
810Mb	IBM	85G3596	128k	14ms	3 year	No	£329
810Mb	Toshiba	MK1928FC	128k	13ms	2 year	Yes	£389



BACKPACK PARALLEL PORT DRIVES

Size	Connection	Access	Cache	Transfer	Weight	Price
420Mb	Standard and Enhanced					£257
850Mb	parallel ports	14ms	64Kb	600Kb/s	1.1Kg	£317
1.2Gb	(EPP gives max performance)					£429



Every year the readers of PC Direct are asked to vote for their favourite products from the best suppliers. After advertising for less than a year we won the 1994 award for best hard drive supplier. At this years awards ceremony we took both first and second places thereby confirming our position as the UK number one choice for hard drives and service.



The UK's **BIGGEST** Hard Drive Retailer

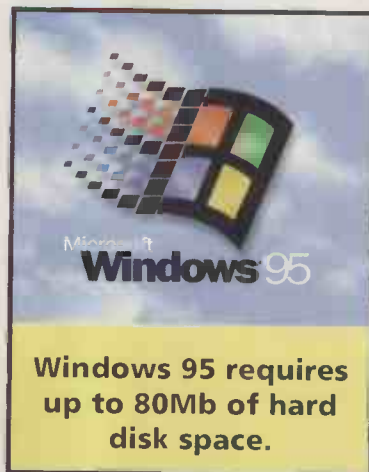
Break your BIOS limitations.



Many 'branded' PC systems, such as those from companies like Compaq, IBM and Apricot, and older 'clone' PCs do not have a BIOS which has a user definable hard drive setup option. This limits the type and size of hard disk drive that can be fitted. As the UK's number one choice for hard drives we have two products which can help you overcome these limitations. Disk Manager, from Ontrack, will initialise, partition and prepare almost any IDE hard drive without the need for additional drivers and can be used for most operating systems including Windows 95. The ADP60 controller card is a hardware alternative and suitable for DOS and Windows 3.x operating systems. By replacing your existing controller it will allow any drive, up to 2Gb, to run on virtually any 286, 386 or 486-based system. Available with or without floppy controller the ADP60 is quick and easy to install. Note: The ADP60 and Disk Manager do not work with 'auto-detect' BIOS systems.



Drive Rocket:
Speed up data transfer rates by up to 80%!



HARD DISK DRIVES

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HARD DISK DRIVES



SCSI Audio/Visual (AV) drives



These high-performance drives can be used as standard data drives, and are ideal in network file servers demanding quick access and smooth data transfer, but are more specifically designed for storing audio or motion video files. As they are able to deliver data to the CPU at a constant, steady rate they prevent stutters and jumps during playback of WAV, AVI and MPEG files etc., to give you perfect, smooth reproductions of your recordings.



NO.1 FOR HARD

EXTERNAL BOXES

SMC Part Number	Drive Type	No. of Drives	PSU	Ext. Interface	Price
Note: All boxes are TUV approved and come with a 3 year warranty					
73-97-3152	3.5" HH/FH	1	40 watt	Fast Wide	£169
73-97-3113	3.5" HH/FH	1	40 watt	Centronics	£85
73-97-3133	3.5" HH/FH	1	40 watt	Micro D	£112
73-97-3213	3.5" HH/FH	2	65 watt	Centronics	£112
73-97-3233	3.5" HH/FH	2	65 watts	Micro D	£136
73-97-3413	3.5" HH/FH	4	2 x 65 watts	Centronics	£225
73-97-3422	3.5" HH/FH	4	2 x 65 watt	Micro D	£245
73-97-3114	3.5" HH/LP	1	30 watt	Centronics	£85
73-97-6114	5.25" FH	1	65 watt	Centronics	£115
73-95-9412	5.25" HH	2	Conversion kit for 73-97-6114		£15
73-97-5116	5.25" HH	1	1 x 40 watt	Centronics	£80
73-97-5114	5.25" FH	1	30 watt	Centronics	£89
73-97-5134	5.25" FH	1	30 watt	Micro D	£109
73-97-6215	5.25" FH	2	2 x 65 watt	Centronics	£205
73-95-9524	5.25" HH	4	Conversion kit for 73-97-6215		£25
73-97-6315	5.25" FH	3	3 x 65 watt	Centronics	£275
73-95-9536	5.25" HH	6	Conversion kit for 73-97-6315		£35
73-97-6415	5.25" FH	4	4 x 65 watt	Centronics	£425

Note: Wide SCSI options are available on selected models. Please call for details.

SCSI CABLES

Description	Length	Price
External		
25-pin D to 50-pin Centronics	1 metre	£18
50-pin Centronics to 50-pin Centronics	1 metre	£18
50-pin Centronics to 50-pin Centronics	2 metres	£23
Micro D to 50-pin Centronics	1 metre	£35
Micro D to 50-pin Centronics	2 metres	£38
Micro D to 25-pin D	1 metre	£35
Micro D to Micro D	1 metre	£38
Wide SCSI to Wide SCSI	1 metre	£100
Internal		
Single drive	19 inches	£8
Dual drive	38 inches	£10
Quad drive	38 inches	£15
Custom made to order	As Required	POA

REMOVEABLE DRIVES

	SMC Part Number	Capacity	Interface / Media	Max Transfer rate	Price
Syquest 3.5"					
Drives	30-73-0135	135Mb	IDE (internal)	2.4Mb per second	£149
	35-73-3135	135Mb	SCSI (internal)	2.4Mb per second	£169
	30-73-0270	270Mb	IDE (internal)	2.4Mb per second	£245
	35-73-3270	270Mb	SCSI (external)	2.4Mb per second	£249
	37-73-3270	270Mb	Parallel port	2.4Mb per second	£419
Cartridges	95-73-3105	105Mb	Media		£37
	95-73-3135	135Mb	Media		£19
	95-73-3270	270Mb	Media		£39
Syquest 5.25"					
Drives	35-73-5088	88Mb	SCSI (internal)	4Mb per second	£169
	35-73-5200	200Mb	SCSI (internal)	5Mb per second	£249
Cartridges	95-73-5044	44Mb	Media		£29
	95-73-5088	88Mb	Media		£32
	95-73-5200	200Mb	Media		£49
Imega Zip					
Drives	35-35-0100	100Mb	SCSI (external)	1.24Mb per second	£142
	37-35-0100	100Mb	Parallel port	1.25Mb per second	£145
Cartridges	95-35-0101	100Mb	Single		£12
	95-35-0103	100Mb	5 Pack		£50
	95-35-0105	100Mb	10 Pack		£92

CREATE YOUR OWN SPACE

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DISK DRIVES

**MORE
PRICE
REDUCTIONS**



SCSI/SCSI-2 HARD DRIVES

Size	AV	Manufacturer	Model	Access	Cache / Buffer	Warranty	Price
425Mb		Quantum	TBZ420S Trailblazer	14ms	128k	3 year	£119
544Mb		Quantum	FBL540S Fireball	12ms	128k	3 year	£129
545Mb		Fujitsu	M1603S	10ms	512k	5 year	£129
852Mb		Quantum	TBZ850S Trailblazer	14ms	128k	3 year	£149
1.0Gb	*	Conner	CFP1060S Filepro	9ms	512k	3 year	£249
1.0Gb	*	Conner	CFP1080S Filepro	9ms	256k	3 year	£197
1.0Gb		Fujitsu	M1606SA	10ms	512k	5 year	£194
1.0Gb		HP	C3724S	9.5ms	256k	5 year	£288
1.0Gb		IBM	85G3623	10.5ms	512k	5 year	£199
1.0Gb		IBM		10ms	512k	5 year	£229
1.0Gb		Quantum	FBL1080S Fireball	12ms	128k	3 year	£189
1.0Gb		Quantum	XP31070S Atlas	8ms	1Mb	5 year	£464
1.0Gb		Seagate	ST31230N Hawk 2	10.5ms	512k	5 year	£269
1.0Gb		Fujitsu	M2932S	10ms	512k	5 year	£479
2.0Gb		IBM	74G7044	9ms	512k	5 year	£699
2.0Gb		Micropolis	MIC4221 Taurus 2	9ms	512k	5 year	£479
2.0Gb	*	Conner	CFP2105S Filepro	11ms	256k	3 year	£469
2.1Gb	*	Conner	CFP2107S Filepro	9ms	512k	5 year	£479
2.1Gb	*	HP	C3725S	9ms	256k	5 year	£469
2.1Gb	*	Micropolis	MIC4221AV Gold	8.5ms	512k	5 year	£539
2.1Gb		Quantum	XP32150S Atlas	8.6ms	512k	5 year	£555
2.1Gb	*	Quantum	XP32151S Grandprix	8ms	1Mb	5 year	£689
2.1Gb	*	Seagate	ST32430N Hawk 2	10.5ms	512k	5 year	£469
2.1Gb		Seagate	ST32550N Barracuda	8ms	512k	5 year	£699
2.1Gb	*	Quantum	VP32210S Capella	8.5ms	512k	5 year	£499
4.0Gb		Fujitsu	M2934S	10ms	512k	5 year	£709
4.0Gb		IBM	74G7045	9ms	512k	5 year	£1049
4.0Gb	*	Seagate	ST15230N Hawk 4	10.5ms	512k	5 year	£699
4.0Gb	*	Seagate	ST15150N Barracuda 4	8ms	1Mb	5 year	£929
4.2Gb	*	Conner	CFP4207S Filepro	9ms	512k	5 year	£749
4.3Gb	*	Quantum	XP34301S Grand Prix	8.6ms	512k	5 year	£729
4.3Gb	*	Quantum	XP34300S Atlas	8ms	2Mb	5 year	£889
4.35Gb		Micropolis	MIC3243 Capricorn 4	9ms	512k	5 year	£729
4.35Gb	*	Micropolis	MIC3243AV Gold	8.5ms	512k	5 year	£779
5.2Gb		IBM	74G7037	8ms	512k	3 year	£1179
9.0Gb		Micropolis	MIC1991 Scorpio 9	12ms	512k	3 year	£1395
9.1Gb	*	Micropolis	MIC1991AV Gold	12ms	512k	5 year	£1459
9.0Gb	*	Seagate	ST410800N Elite 9	11ms	1Mb	5 year	£1569

The UK's
BIGGEST
Hard
Drive
Retailer

Microsoft
Windows 95

Windows 95 requires
up to 80Mb of hard
disk space.



**Novell Netware
users:**

Adaptec 1510,
Adaptec 1515 and all
Future Domain
controller cards are
NOT compatible with
this network.
For Version 2.2 or
below we only
recommend the Adaptec
1542 card which is
compatible
with all versions of
Netware.

SCSI CONTROLLER CARDS

Description	Bus type	External Interface	Device Support	Floppy Support	Price
Adaptec AHA1515UTC	ISA	25 pin D-type	7	No	£62
Adaptec AHA1542CP	ISA	Micro-D	7	Yes	£157
Adaptec AHA2842VL	VESA	Micro-D	7	Yes	£158
Adaptec AHA2825VL	VESA	Micro-D	7 (+2 EIDE)	Yes	£99
Adaptec AHA2940	PCI	Micro-D	7	No	£168
Adaptec AHA2940W (Fast Wide SCSI)	PCI	Wide SCSI	7	No	£199
Adaptec AHA3940	PCI	Micro-D	14	No	£289
Adaptec AHA3985 Raid (Raid 5,1,0,0/1)	PCI	Micro-D	21	No	£479
Adaptec AHA1640	MCA	Micro-D	7	No	£195
Adaptec AHA2742	EISA	Micro-D	14	Yes	£239
Data Technologies DTC3280	ISA	Centronics 50 way	7	Yes	£59
Future Domain 1610MCD	ISA	25 pin D-type	7	No	£49
SP328VL	VESA	Micro-D	7	Yes	£129

SCSI MOUNTING KITS

SMC Part Number	Description	Price
79-97-3502	Removeable drive caddy for 3.5" drives. Requires 5.25" mounting bay	£35
79-97-3504	Metal version of above plus high performance drive support	£69
79-95-1135	Mounts 3.5" drive into a 5.25" bay. All screws supplied. No slide rails	£10

**SCSI drives fitted into external
box free when purchased at
the same time. Call for full
details.**

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SMC
COMPUTERS

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HARD DISK DRIVES

BACK-UP & ARCHIVING



It is a fact that most companies who suffer total computer data loss - for whatever reason - generally collapse within six months. Your data is VITAL to your business, however large or small. Regular, proper backup procedures are the ONLY guaranteed method of protecting your data and your business.



NO.1 FOR DAT DRIVE

DAT DRIVES

Model / Description	Capacity (typical)	Performance (max)	Tape used	Internal price	External price
Hewlett Packard					
C1534 (replaces HP 35470)	2Gb	11Mb/min	G	£485	£572
C1535 (replaces HP 35480)	4Gb	22Mb/min	G	£572	£685
C1533A	8Gb	44Mb/min	G/H	£685	£769
C1553A Autoloader	48Gb	44Mb/min	G/H	£1535	£1689
Hewlett Packard SureStore					
SureStore 2000	2Gb	11Mb/min	G	£549	£639
SureStore 5000	4Gb	22Mb/min	G	£639	£769
SureStore 5000 complete kit	4Gb	22Mb/min	G	£639	£769
SureStore 6000	8Gb	44Mb/min	G/H	£769	£889
SureStore 6000 complete kit	8Gb	44Mb/min	G/H	£769	£889
SureStore 12000E Autoloader	48Gb	44Mb/min	G/H	£1535	£1689
SureStore Warranty	HP 3 Year on site additional warranty				
Wang DAT					
3100	2Gb	11Mb/min	G	£509	£589
3200	4Gb	22Mb/min	G	£589	£689
3400DX	8Gb	44Mb/min	G/H	£689	£769



KEEP PLENTY IN STOCK FOR YOUR BEST PERFORMANCE

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DISK & TAPE DRIVES

TAPE DRIVES

Model / Description	Capacity (max)	Performance (max)	Tape used	Internal price	External price
Colorado					
Travan T1000	800Mb	9.5Mb/min	A/B	£107	
Jumbo DJ35	340Mb	9.3Mb/min	I	£77	£144
Jumbo DJ25	700Mb	9.3Mb/min	J	£118	£185
Jumbo DJ50 incl. controller & W3.1 software	1.3Gb	17Mb/min	K	£179	£224
Accessories:					
Description					
External box	Conversion for internal drive unit			£45	
AB 11 external Jumbo port adaptor	Pass-through port connects to floppy cable			£22	
FC-20 Jumbo controller card	ISA 8/16-bit dedicated controller card			£45	
Backup software for Win 3.11	Windows 3.11 dedicated backup software			£40	
Backup software for Unix/Xenix	Unix/Xenix dedicated backup software			£75	
Backup software for OS/2	OS/2 dedicated backup software			£80	
Wangtek					
5150PK kit (non-SCSI)	150Mb	6.75Mb/min	C/D	£295	
5525ES	525Mb	12Mb/min	D/E	£332	
51000ES	1Gb	17Mb/min	D/E/F	£459	
Parallel Port All drives run from standard ports and have a pass-through port for printers.					
Trakker 350	350Mb	8Mb/min	I		£129
Trakker 1000E Travan	800Mb	8Mb/min	A/B		£159
Backpack 800 Travan	800Mb	8Mb/min	A/B		£149
Trakker carry case	Padded carry case for transportation			£39	



TAPE CARTRIDGES

I.D.	Description	Price	I.D.	Description	Price
A	T1000	£25	G	DAT 4mm 90 metre	£10
B1	DC2120 unformatted	£19	H	DAT 4mm 120 metre	£14
B2	DC2120 pre-formatted	£22	I	DC2120XL pre-formatted	£17
C	DC6150	£12	J1	DC3000XL unformatted	£18
D	DC6250	£15	J2	DC3000XL pre-formatted	£25
E	DC6525	£17	K	DC1400	£30
F	DC9100	£24		DAT 4mmTCDAT 4mm Tape Cleaner	£12

BACKUP SOFTWARE

SMC part number	Product	Operating System	Number of users/Features	Price
Cheyenne				
01-90-4001	ArcSolo	DOS	Single user	£88
01-90-5001	ArcSolo	Windows 3.1	Single user	£99
01-90-5005	ArcServe	Network - Windows	5 users/server	£179
01-90-5010	ArcServe	Network - Windows	10 users/server	£379
01-90-5025	ArcServe	Network - Windows	25 users/server	£599
01-90-5050	ArcServe	Network - Windows	50 users/server	£749

Notes: 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.

Connor / Arcada

01-13-0313	Backup Exec	DOS/Windows 3.x	Single user	£99
01-13-0315	Backup Exec NLM	Novell NetWare	Single server - 25 users	£259
01-13-0317	Backup Exec Unlimited	Novell NetWare	Single server - unlimited users	£349
01-17-0351	Backup Exec 95	Windows 95	Single user	£75

Sytos

01-93-3131	Sytos Plus	DOS	Single user	£89
01-93-3135	Sytos Plus	Windows 3.1	Single user	£89
01-93-3137	Sytos Plus	OS/2-2	For single drives	£165
01-93-3193	Sytos Plus Premium	OS/2-2	For Autoloaders etc.	£146

No.1 FOR TAPE
ORDER NOW!
See page 24
for ordering
details



Tape letters indicate tape type

See tape selector chart below



Keep your data SAFE! STORE IT

BACK-UP & ARCHIVING

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MODEMS & INPUT DEVICES



NO.1 FOR MODEMS &

MODEMS

Model	Data speed	Fax speed	Special features	Internal Price	External Price
US Robotics					
US Robotics Sportster 14.4	14,400bps	14,400bps		£104	£95
US Robotics Sportster 28.8	28,800bps	14,400bps		£155	£155
Courier V34 + Fax	28,800bps	14,400bps		£235	£235
Pace					
Linnet 32 Plus FX	14,400bps	14,400bps			£149
Linnet 34 FX	28,800bps	14,400bps			£155
Microlin Message Desk	14,400bps	14,400bps	Answerphone facility	£275	£239
Microlin FX 32 Plus	14,400bps	14,400bps		£135	£139
Microlin FX 34 Plus	28,800bps	14,400bps		£155	£156
Microlin NB32 PCMCIA	14,400bps	14,400bps			£149
Microlin NB34 PCMCIA	28,800bps	14,400bps			£169
Netlink	14,400bps	14,400bps	Internet software		£99
Netlink Gold	28,800bps	14,400bps	Internet software		£185
DFI					
14.4 Passport V42	14,400bps	14,400bps		£79	£82
28.8 Passport V42	28,800bps	14,400bps		£149	£152
Modular Technology					
V32 Plus Fax	14,400bps	14,400bps			£119
V34 Plus Fax	28,800bps	14,400bps			£199
Motorola					
3400 Online	28,800bps	14,400bps	Internet software		£159
3400 Pro	28,800bps	14,400bps			£149
Hayes					
Accura 14.4	14,400bps	14,400bps			£99
Accura 28.8	28,800bps	14,400bps			£175
Creative Labs					
Creative Labs PhoneBlaster message centre					

See Multimedia Kits on page 8 for details

KEYBOARDS & MICE etc

Model	No. of keys	Connector	Touch	Price
Keyboards				
For Windows 95	105	5-pin DIN		£19
Cherry G83	102	5-pin DIN	Soft	£25
Cherry G80	102	5-pin DIN	Click	£42
Cherry G80 - 3000HPG	102	6-pin DIN	Click	£46
Mice				
	Interface	Buttons	Resolution	
Microsoft 'Home'	9-pin serial	2		£27
Logitech Pilot Trackball	9-pin serial	2	200dpi	£25
Logitech Trackman II PC	9-pin serial	3		£47
Trackman Live	9-pin serial	3	400dpi	£109
Trackman Portable	9-pin serial	3	200dpi	£35
Trackman Vista	9-pin serial	3	320dpi	£45
Logitech Trackman Voyager	9-pin serial	3	250dpi	£48



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NETWORK PRODUCTS

NETWORK CARDS



Model	Bus	Applications:	BNC	TP	Combo
Novell					
NE2000+	16-bit ISA	Workstations/small servers	£52		
NE3200	EISA	Highend wkstns/servers	£299		
NE2/C	MCA	Workstations/print servers	£159		
SMC					
E16	16-bit ISA	Workstations/small servers	£57	£57	£63
EC	PCMCIA	Laptops	£85		£109
EZ P'nP	16-bit ISA	Workstations/small servers	£58	£58	£65
E32	EISA	Highend wkstns/servers	£139		
E16MCA	MCA	IBM wkstns/small servers	£125		
3Com					
509	16-bit ISA	Highend wkstns/servers	£65	£65	£75
579	EISA	Highend wkstns/servers	£139	£139	
589	PCMCIA	Laptops			£135
590	PCI	Highend wkstns/servers			£99
Compex					
V16	16-bit ISA	Workstations/small servers	£33		

NETWORK CABLES

SMC Part Number	Description	Price
86-95-1371	Thin ethernet cable - segments made to order - price per metre	£0.90
86-95-1311	BNC solderless crimp connectors	£2.50
86-95-1353	BNC ethernet terminator	£5
86-95-1331	BNC 'T' piece	£6

UPSs

Model/ Power output	Applications:	Runtime (min) half/full load	Capacity (VA/watts)	Price
BackUPS 400VA	286, 386 desktop systems and servers	19/5	400VA/250w	£115
BackUPS 600VA	tower 386, 486 systems, servers	22/5	600VA/400w	£145
BackUPS 900VA	heavily configured systems, CAD/CAM workstations	24/10	900VA/630w	£259
BackUPS 1250VA	multiple systems, longer runtime, telecom, minis	25/8	1250VA/900w	£329
SmartUPS 400VA	286, 386 desktop systems and servers	22/5	400VA/250w	£209
SmartUPS 600VA	tower servers and engineering workstations	20/6	600VA/400w	£239
SmartUPS 900VA	CAD/CAM, engineering workstations and servers	20/7	900VA/630w	£365
SmartUPS 1400VA	multiple servers, telecom equipment	22/7	1400VA/900w	£535
SmartUPS 2000VA	minicomputers, multiple servers	22/8	2000VA/1500w	£869
Powerchute s/w	Netware Software for Apple, DEC, VAX, OS/2, SUN, VMS			£65

CASES

SMC Part Number	Case Type	PSU	3.5" bays	5.25" bays	Price
70-97-0300	Super-Slimline Desktop	100w	2	0	£52
70-97-0500	Slimline Desktop	200w	2	2	£55
70-97-1000	Standard Desktop	200w	2	3	£49
70-97-1510	Mini Tower	200w	3	2	£55
70-97-1730	Midi Tower	200w	5	3	£65
70-97-1910	Full Tower	200w	3	6	£75



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See page 24
for ordering
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NETWORK PRODUCTS & CASES

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Corporate orders can be faxed direct to our sales department on 01753 524443. All orders must be on official company order forms. New accounts can be opened immediately, just fax your order through once approved we can open the account and despatch your goods the same day.

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When ordering please state exactly the products required, a contact telephone number if possible, full delivery address, the date on the front cover of this guide and the name of the magazine in which it appears. Please note that personal cheques with guarantee card details (No. & Expiry Date) and business cheques can be cleared within 24 hours – uncovered personal cheques may take up to ten days.



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We can only accept payment for goods by American Express or bank transfer. Please call for details.

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Prices and specifications subject to change without notice. Please ask our advice before ordering to avoid any foreseeable incompatibility problems. Prices exclude VAT and delivery. All trademarks acknowledged. SMC Computers terms & conditions of warranty available on request.



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- 4Mb RAM Upgradeable
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- Maths Co-processor
- Pentium P24T Upgradeable
- 3.5" 1.44Mb FDD

Multimedia Kit with Dual Speed Multisession CD ROM Drive & 16 bit Stereo Soundcard with Speakers

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- Windows 95 Keyboard
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- PCI Enhanced IDE Controller
- Maths Co-processor
- Pentium P24T Upgradeable
- 3.5" 1.44Mb FDD
- 5 Spare PCI/ISA Slots

Multimedia Kit with Dual Speed Multisession CD ROM Drive & 16 bit Stereo Soundcard with Speakers

- Windows 95 Keyboard
- 2 x Fast Serial Ports (16550 UART)
- 6 Storage Device Bays
- 1 x Parallel Port
- 1 x Game Port
- High Quality Steel Desktop Case



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586P-75MHz

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Tiny Computers have passed all EC guidelines. All PC's from 1st January 1996 must carry the CE mark. See our main AD for details.
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Telesales
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PC Direct December 1995
Vale Platinum



January 1995
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1995 PC Awards
"Best Mainstream
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Every component of each Vale system is meticulously selected to provide a perfect balance of high performance and good value for money.

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On-site maintenance
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now covers the UK
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Two Great Multimedia offers available with any Vale PC

Microsoft **Media 96**

- ◆ Works 3 (for Windows 3.1) or Works 4 (for Windows 95) - your choice
- ◆ Money
- ◆ Fine Artist
- ◆ Encarta 96 (International Edition)
- ◆ Explorapedia
- ◆ Dinosaurs
- ◆ Golf
- ◆ Scenes
- ◆ Windows Entertainment Pack
- ◆ Fury 3 (trial version)



Lotus **Office 96**

- ◆ Lotus SmartSuite 4: 1-2-3, WordPro, Approach, Freelance Graphics, Organiser.
- ◆ Quicken 3
- ◆ Sage Moneywise
- ◆ CorelDraw! 4
- ◆ Software Toolworks Grolier Encyclopaedia for 1995 - version 7
- ◆ FIFA International Football, Dragon Lore, MegaRace, Theme Park
- ◆ Professor Windows, Professor Training Suite, Professor Multimedia, Typing Tutor
- ◆ Supervoice, Pilot Multimedia including 'Interlude' and 'Get Organized'

Includes free upgrade to SmartSuite 96 for Windows 95 when available



Like the Vale PCs they are fitted to, our multimedia kits are quality conscious!! We offer high quality branded sound cards, CD-ROM drives and speakers, and two of the best software suites available.

- ◆ Double speed CD-ROM drives by Panasonic
- ◆ Quad speed CD-ROM drives by Panasonic/Toshiba
- ◆ Six speed CD-ROM drives by TEAC
- ◆ Genuine Creative Labs SoundBlaster 16 for great sound and total compatibility;
- ◆ ZyFi amplified stereo speaker system for crystal clear audio;
- ◆ Choice of Microsoft Media 96 software or Lotus Multimedia Office 96.



We offer a full range of multimedia packs and products, any of which can be specified with your Vale PC, see pages 9/10 of our advert for full details. Please note that bundled software does not feature full retail packaging. When ordering double speed CD-ROM installations in Vale computers the Panasonic CR-571 enhanced IDE drive may be used.

Designed for

Microsoft® Windows® 95

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Virus Checked

SEGA PC DIAMOND MULTIMEDIA **EDGE 3D**

If you play hard in the real world, you need an edge - The Diamond Edge 3D - a revolutionary, highly integrated multimedia accelerator that combines fully-immersive, totally-interactive game play and killer Windows95 acceleration in one economical package.

- Photo-realistic 3D graphics accelerator for Windows95
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- Fully compatible with SEGA PC games, with two ports for SEGA Saturn control pads
- Free software includes Virtua Fighter Remix from SEGA PC, Descent: Destination Saturn, and NASCAR Racing
- Requires Pentium® P75 or faster processor with PCI bus and Windows95

Available as an option with Vale PCs (see Vale models for pricing) or separately (see page 11).



A Vale Multimedia PC in a tower case with a 15" monitor.

Vale quality components



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Prima⁴⁸⁶



Each system includes your choice of Windows 3.11 or Windows 95 at no extra cost.



The Vale Prima – a quality conscious computer at a budget conscious price.

With the Vale Prima 'entry level' doesn't mean no performance. You get a well constructed PC with 8Mb RAM, proper PCI hard disk and video systems, a ZIF socket for processor upgrades, and even 256kb cache.

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- ◆ TÜV approved power supply with low noise fan
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- ◆ Choice of desktop or mini-tower case
- ◆ Mitsumi mouse and 'Windows95' keyboard
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- ◆ 14 day moneyback guarantee
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- ◆ Lifetime technical support hotline
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Basic installation/training service	£50.00 +VAT
Second year on-site maintenance	£69.00 +VAT
Second and third year on-site maintenance	£149.00 +VAT

PLEASE SEE THE PLATINUM PAGE FOR VALE ACCESSORIES

PRIMA MODELS

For full details of Microsoft Media 96 and Lotus Multimedia Office 96, see the first page of our advert.

Processor	Standard	EDV 96	Lotus Office 96
486dx2-66			
528Mb	£799 +VAT	£949 +VAT	£989 +VAT
1Gb	£849 +VAT	£999 +VAT	£1039 +VAT
486dx4-100			
528Mb	£819 +VAT	£969 +VAT	£1009 +VAT
1Gb	£869 +VAT	£1019 +VAT	£1059 +VAT

Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch. Multimedia models feature double speed CD-ROM drives (see first page).

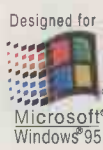


Prima

Vale Prima – your budget is our concern.

Previously the Vale range has not included a budget Pentium® processor based PC so we thought it was time to prove a point! We set out to build a quality PC and sell it at a bargain price, whilst still offering a standard of equipment that allows us to maintain our award winning level of service and support. It's motherboard is based on the famous Intel Triton chipset (almost unheard of at this price) and is capable of expanding with your needs. In fact the beauty of this PC is that it is so upgradeable – who knows in a years time your P75 might have grown into a P166 with Pipeline-Burst cache and a mountain of EDO RAM.

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- ◆ Intel socket 7 for processor upgrades
- ◆ 4xPCI & 3x16-bit expansion slots
- ◆ On-board fast PCI IDE hard disk controller
- ◆ 8Mb EDO RAM (expandable to 128Mb)
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 1Mb PCI video card
- ◆ 14" SVGA MPR II monitor (0.28mm dot pitch)
- ◆ Multimedia models include a double speed CD-ROM drive
- ◆ 3.5" 1.44Mb Floppy Disk Drive
- ◆ TÜV approved power supply with low noise fan
- ◆ EPA Energy Star compliant
- ◆ Choice of desktop or mini-tower case
- ◆ Full-tower case available at extra cost
- ◆ Mitsumi mouse and 'Windows95' keyboard
- ◆ Includes *Iris Anti-virus software* (3 month license), and your choice of either *Windows95*, or *MS-DOS 6.22* and *Windows for Workgroups 3.11*. Full manuals and disks supplied. "Introduction to Windows" manual supplied with *Windows for Workgroups 3.11*
- ◆ 14 day moneyback guarantee
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- ◆ Lifetime technical support hotline
- ◆ Lifetime labour warranty



Each system includes your choice of Windows 3.11 or Windows 95 at no extra cost.

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Full-tower case	£50.00 +VAT
Basic installation/training service	£50.00 +VAT
Second year on-site maintenance	£69.00 +VAT
Second and third year on-site maintenance	£149.00 +VAT

PLEASE SEE THE PLATINUM PAGE FOR VALE ACCESSORIES

NO DEPOSIT PERSONAL FINANCE

Prima P75/528Mb
Microsoft Media 96 PC

£41.95 per month inc VAT

No deposit. 36 monthly payments. APR 18.5%.
Total payable £1510.20 inc VAT. (Cash price £1773.83 inc VAT).

PRIMA MODELS

For full details of Microsoft Media 96 and Lotus Multimedia Office 96, see the first page of our advert.

Model	Standard	EDV 96	Lotus Office 96
P 75			
528Mb	£849 +VAT	£999 +VAT	£1039 +VAT
1Gb	£899 +VAT	£1049 +VAT	£1089 +VAT
P 90			
528Mb	£949 +VAT	£1099 +VAT	£1139 +VAT
1Gb	£999 +VAT	£1149 +VAT	£1189 +VAT

P120 Add £50 +VAT to the price of P90 models

Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch. Multimedia models feature double speed CD-ROM drives (see first page).



A Vale Prima Media 96 PC



Prestige



Vale Prestige – for a little bit more...

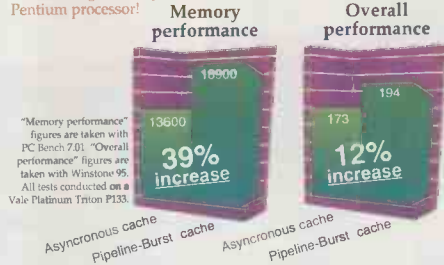
It is amazing what spending a few more pounds can do to the performance and pleasure of use of a PC. The addition of Pipeline-Burst cache (at this price!!!), the famous Diamond Stealth 64 Video card and the best 14" monitor we have seen results in a specification that truly earns the title "Prestige".

- ◆ Integrated motherboard with Intel Triton chipset
- ◆ Intel socket 7 for processor upgrades
- ◆ Fast PCI mode 4 IDE hard disk controller and drive (528Mb Mode 3)
- ◆ 8Mb fast page RAM (expandable to 128Mb)
- ◆ 256kb Pipeline-Burst cache
- ◆ 4xPCI & 3x16-bit expansion slots
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ Diamond Stealth 64DRAM 1Mb PCI video card
- ◆ 14" MPR II fully non-interlaced monitor (0.28mm dot pitch)
- ◆ Multimedia models include a quad speed CD-ROM drive
- ◆ 3.5" 1.44Mb Floppy Disk Drive
- ◆ TÜV approved Power Supply with low noise fan
- ◆ EPA Energy Star compliant
- ◆ Choice of desktop or mini-tower case
- ◆ Full-tower case available at extra cost
- ◆ Includes *Iris Anti-virus software* (3 month license), and your choice of either *Windows95*, or *MS-DOS 6.22* and *Windows for Workgroups 3.11*. Full manuals and disks supplied. "Introduction to Windows" manual supplied with *Windows for Workgroups 3.11*
- ◆ Mitsumi mouse and 'Windows95' keyboard
- ◆ 14 day moneyback guarantee
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- ◆ Lifetime technical support hotline
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NOW WITH
Pipeline-Burst
cache

THE CASE FOR PIPELINE-BURST CACHE:

The most significant performance improvement since the Pentium processor!



To get these...



"Overall, this is a well-specified, well-constructed computer with good expansion potential, plenty of bells and whistles and sharp performance. A hard combination to beat." February 1995 Vale Prestige



"The Evesham Vale Prestige PCI is well specified with a good build quality and good performance at a reasonable price. This machine is just what your business needs...and it comes from a reputable UK supplier." 1995 PC Awards "Best Mainstream Business PC" Vale Prestige

We fit these...



Each system includes your choice of Windows 3.11 or Windows 95 at no extra cost.



Hard disk



PRESTIGE MODELS

For full details of Microsoft Media 96 and Lotus Multimedia Office 96, see the first page of our advert.

Model	Standard	EDIA 96	Lotus Office 96
P 75 528Mb 1Gb	£949 ^{+VAT} £999 ^{+VAT}	£1139 ^{+VAT} £1189 ^{+VAT}	£1179 ^{+VAT} £1229 ^{+VAT}
P 100 528Mb 1Gb	£1049 ^{+VAT} £1099 ^{+VAT}	£1239 ^{+VAT} £1289 ^{+VAT}	£1279 ^{+VAT} £1329 ^{+VAT}

P120 Add £50^{+VAT} to the price of P100 models
Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch. Multimedia models feature quad speed CD-ROM drives (see first page).

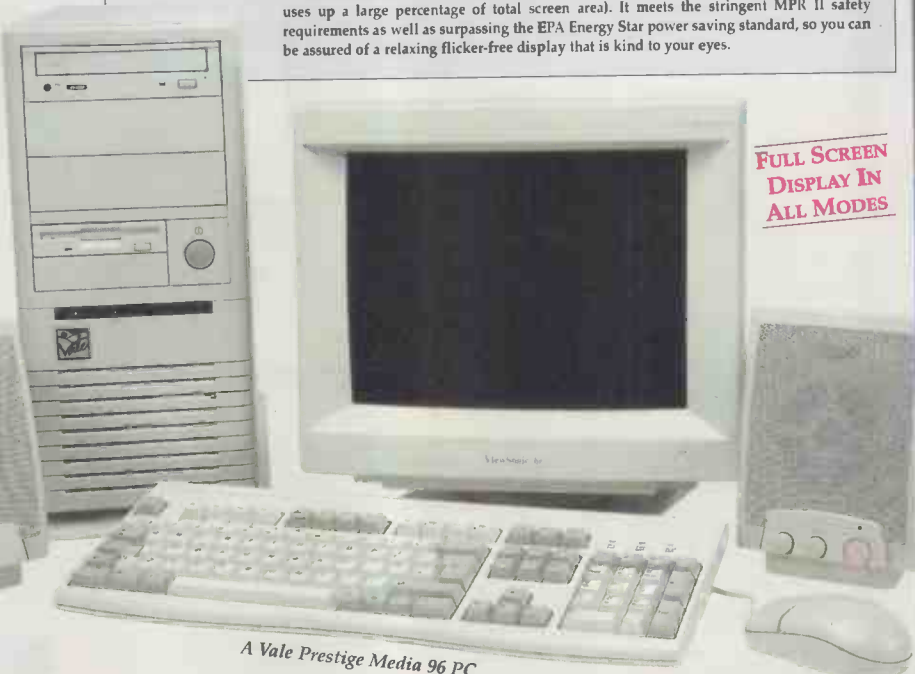
PRESTIGE OPTIONS

- 16Mb RAM instead of standard 8Mb£180.00 +VAT
- 32Mb RAM instead of standard 8Mb£580.00 +VAT
- 15" Vale EcoScan 15 monitor (as Vale Platinum).....£79.00 +VAT
- 17" Vale EcoScan 17 monitor (as Vale Platinum SE).....£279.00 +VAT
- Diamond Stealth 64VideoVRAM card (2Mb).....£120.00 +VAT
- Stealth 64VideoVRAM upgrade to 4Mb.....£120.00 +VAT
- Diamond Motion Video Player accessory for Stealth 64VideoVRAM (gives MPEG decoding and gives upgrade to 4Mb).....£249.00 +VAT
- Diamond Edge 2Mb DRAM card (requires Windows 95)....£169.00 +VAT
- Diamond Edge 2Mb VRAM card (requires Windows 95)....£240.00 +VAT
- Quad speed CD-ROM drive£72.00 +VAT
- Full-tower case£50.00 +VAT
- Basic installation/training service.....£50.00 +VAT
- Second year on-site maintenance.....£69.00 +VAT
- Second and third year on-site maintenance£149.00 +VAT

PLEASE SEE THE PLATINUM PAGE FOR VALE ACCESSORIES

ViewSonic® Monitor The Vale Viewsonic 14ES monitor is non-interlaced in all modes including 1024x768. More importantly it is able to display SVGA mode (800x600) at 72Hz refresh rate which is flicker free and does so while using the full screen area (most budget monitors shipped with low cost systems have a huge border which uses up a large percentage of total screen area). It meets the stringent MPR II safety requirements as well as surpassing the EPA Energy Star power saving standard, so you can be assured of a relaxing flicker-free display that is kind to your eyes.

FULL SCREEN
DISPLAY IN
ALL MODES



A Vale Prestige Media 96 PC

NO DEPOSIT PERSONAL FINANCE

Prestige P75/528Mb Lotus Multimedia Office 96 PC
£49.51 per month inc VAT
No deposit, 36 monthly payments, APR 18.5%.
Total payable £1782.36 inc VAT. (Cash price £1385.33 inc VAT).

EVESHAM CAMBRIDGE BIRMINGHAM MILTON KEYNES

MILTON KEYNES
BIRMINGHAM
CAMBRIDGE
EVESHAM



Platinum

Vale Platinum... the reviewers' favourite.

A giant killer. How does a relatively small company consistently produce award winning PCs that beat the multi-national mega corporations at their own game? The answer is quite simple – attention to detail. We use components that are chosen for performance, quality and feel; every component has been selected from leading suppliers to offer that rare quality, usability.



PLATINUM MODELS

For full details of Microsoft Media 96 and Lotus Multimedia Office 96, see the first page of our advert.

Model	Standard	EDA 96	Lotus Office 96
P 100	1Gb	£1279+VAT	£1419+VAT
	2Gb	£1429+VAT	£1569+VAT
P 133	1Gb	£1389+VAT	£1529+VAT
	2Gb	£1539+VAT	£1679+VAT
P 150	1Gb	£1469+VAT	£1609+VAT
	2Gb	£1619+VAT	£1759+VAT

P 166 Add £160+VAT to the price of P150 models
Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch. Multimedia models feature quad speed CD-ROM drives (see first page).

PLATINUM/PLATINUM SE OPTIONS

Upgrade to 16Mb EDO RAM (Platinum)	£190.00 +VAT
Upgrade to 32Mb EDO RAM (Platinum)	£620.00 +VAT
Upgrade to 32Mb EDO RAM (Platinum SE)	£440.00 +VAT
Upgrade to 512kb Pipeline-Burst cache (Platinum)	£50.00 +VAT
1Gb SCSI hard disk instead of 1Gb IDE	£99.00 +VAT
2Gb SCSI hard disk instead of 2Gb IDE	£290.00 +VAT
Diamond Stealth 64VideoVRAM 2Mb card (Platinum)	£85.00 +VAT
Stealth 64VideoVRAM upgrade to 4Mb	£120.00 +VAT
Diamond Motion Video Player accessory for Stealth 64VideoVRAM (gives MPEG decoding and gives upgrade to 4Mb)	£249.00 +VAT
Matrox Millennium video card (Platinum)	£75.00 +VAT
Matrox Millennium video card (Platinum SE)	No cost option
Diamond Edge 2Mb DRAM card – requires Windows 95 (Platinum)	£135.00 +VAT
Diamond Edge 2Mb VRAM card – req. Windows 95 (Platinum)	£200.00 +VAT
Diamond Edge 2Mb VRAM card – req. Windows 95 (Platinum SE)	£115.00 +VAT
Quad speed CD-ROM drive	£72.00 +VAT
Full-Tower case	£50.00 +VAT
Basic installation/training service	£50.00 +VAT
Second year on-site maintenance	£69.00 +VAT
Second and third year on-site maintenance	£149.00 +VAT

Monitor

The Vale EcoScan 15 that is supplied with the Platinum range is a superb quality micro-processor controlled 15" monitor. It's dark non-glare FST screen with 'Edge-to-Edge' display gives as much as 30% greater useable picture area than most 14" models. An ingeniously simple digital push button system allows complete control over all display adjustments, including pin-cushion, trapezoid, parallelism and rotation, with on-screen representation of the settings. As it complies with the stringent Swedish MPR II safety standards and can display up to 1024x768 at a flicker-free 72Hz refresh rate it is especially kind to your eyes. Platinum SE models use the Vale EcoScan 17.

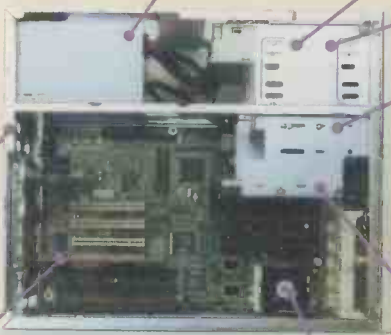
MONITOR UPGRADES	PLATINUM	PLATINUM SE
15" iiyama Vision Master	£50.00 +VAT	N/A
17" Vale EcoScan17	£200.00 +VAT	N/A
17" iiyama Vision Master PC Magazine "Editors Choice" April 1995	£300.00 +VAT	£100.00 +VAT
17" iiyama Vision Master PRO (0.25mm dot pitch DiamondTron tube)	£360.00 +VAT	£160.00 +VAT
20" Vale	£699.00 +VAT	£499.00 +VAT
21" iiyama Vision Master	£1000.00 +VAT	£800.00 +VAT

intel Motherboard

For the Platinum models we use a genuine Intel Advanced Endeavour motherboard with Intel Triton chipset. It has flash BIOS, and full support for native signal processing and the Windows 95 'plug and play' environment.

- ◆ 3x PCI, 1xPCI/16-bit & 2x16-bit expansion slots
- ◆ EPP and ECP capable printer port
- ◆ Two 16550 compatible UART driven high speed serial ports
- ◆ 256kb Pipeline-Burst cache (Platinum)
- ◆ 512kb Pipeline-Burst cache (Platinum SE)
- ◆ 8Mb EDO RAM, expandable to 128Mb (Platinum)
- ◆ 16Mb EDO RAM, expandable to 128Mb (Platinum SE)
- ◆ On-board fast PCI enhanced IDE mode 4 hard disk controller
- ◆ Integrated sound using the Creative Labs vibra 16 chipset

- ◆ Choice of desktop or mini-tower case
- ◆ Full-tower case available at extra cost



Anatomy of a winner

DIAMOND MULTIMEDIA Video card

- ◆ Diamond Stealth 64DRAM 2Mb 64-bit video card (Platinum)
- ◆ Diamond Stealth 64VideoVRAM 2Mb 64-bit video card (Platinum SE)



- ◆ Intel socket 7 for processor upgrades
- ◆ CPU cooling fan

Designed for



- ◆ Includes Iris Anti-virus software (3 month license), and your choice of either Windows95, or MS-DOS 6.22 and Windows for Workgroups 3.11. Full disks and manuals supplied. "Introduction to Windows" manual supplied with Windows for Workgroups 3.11

Microsoft Mouse version 2.0



KEY TRONIC Keyboard

"Not only is it pleasantly curved and delightful to type on, but it's also the only one sporting the three extra keys that first appeared on the Microsoft keyboard..." PC Pro, November 1995

Warranty

- ◆ 1 year On-Site Maintenance (next working day response) for parts and labour
- ◆ Lifetime technical support hotline
- ◆ Lifetime labour warranty
- ◆ 14 day moneyback guarantee

...and our legendary reputation for SERVICE & SUPPORT...

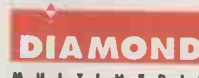
Why Diamond Video Cards ?

The highly acclaimed Stealth range has won many press accolades including the coveted PC Magazine "Editors Choice". Now a new range of stealth cards is available, giving a wide choice of graphics performance. The video cards are all based around S3 chipsets for superb Windows acceleration as well as class leading DOS performance, and come with the renowned InControl Tools utility for setting up the Windows environment. Remember that Diamond are continually striving to optimise the performance and compatibility of their video cards; and you therefore have the assurance that driver support is ongoing.

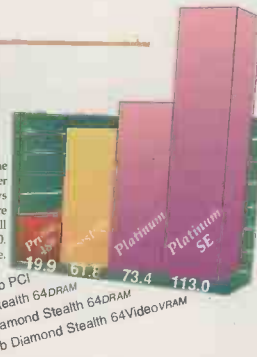
EDGE 3D (Option) The new Diamond Edge is the 3D multimedia accelerator which will give you an edge in the virtual world. It also provides fast True-Colour 2D graphics acceleration, and has a 32 voice 16-bit hardware wavetable, software MPEG decoding for digital video playback. It is fully compatible with SEGA PC games, and has ports for two SEGA Saturn control pads. 2Mb DRAM or 2Mb VRAM versions available. Free CD games software includes Virtua Fighter Remix from SEGA PC, Descend: Destination Saturn, and NASCAR racing. Requires Windows95.

STEALTH 64DRAM (Vale Prestige and Platinum) The world's fastest DRAM accelerator, its S3 Vision864 controller setting a new standard in affordable 64-bit graphics performance. Supplied with full AutoCAD drivers.

STEALTH 64VideoVRAM (Vale Platinum SE) The new Stealth 64VideoVRAM is the ultimate graphics and video accelerator. It is supplied with full AutoCAD drivers and its 2Mb high speed VRAM can be expanded to 4Mb, giving 24-bit colour at 1280x1024! It has driver support for all popular video formats, including MPEG – you can scale video playback up to full screen, or view video clips in full-motion (up to 30 fps). The optional Motion Video Player accessory provides hardware MPEG decoding, allowing full-screen full-motion video, as well as accepting video input from camcorder, VCR, laserdisk etc.



Source: PC Labs Winmark 3.1. The figures represent megapixels per second over a variety of Windows related tasks. First figure produced on a Vale 486x2-66, all others on a Vale Pentium P90. Figures vary with processor type.





Platinum SE



Vale Platinum SE: Maximum specification – maximum performance.

By enhancing the already highly specified Vale Platinum, we have created the computer that answers the dreams of the most demanding user.

to get these...



"The Evesham Vale Platinum delivers excellent performance, a good feature set and an affordable price – a combination which is the hallmark of a PC Magazine Editors' Choice. In a market where compromise is all too common, the Evesham Vale Platinum is a winner." *January 1995*
Vale Platinum P90



"The combination of an excellent multimedia platform and high all-round DOS and Windows performance, at a good price, makes the Vale Pentium an excellent multimedia PC, and a worthy Editors' Choice" *May 1995*
Vale Platinum P90



"The Platinum took the top spot in our performance tests. The Diamond Stealth video system had a chance to show its true colours...Not only is the Platinum a top class machine, it's also good value for money." *February 1995*
Vale Platinum P90



"The Vale Platinum Media 95 is an all too rare example of a quality multimedia PC that's well specified enough to keep up with today's growing software demands, yet cheap enough to make it a good buy for both home and business users." *PC Direct "The Best of Everything" supplement, Winter 1995*
Vale Platinum P90 Media 95



January 1995
Vale Platinum P90 Media 95 PC



"Attention to detail made this machine a good all-rounder. Expensive but well specified, and a lightning performer too." *November 1995*
Vale Platinum Triton P90

The Platinum SE has the following enhancements to the award winning Platinum:

- ◆ 16Mb EDO RAM
- ◆ 512kb Pipeline-Burst cache
- ◆ Diamond Stealth 64VideoRAM 2Mb 64-bit video card
- ◆ Vale EcoScan17 monitor
- ◆ TEAC CD-56E six speed CD-ROM drive on all models



P150 AND P166
NOW AVAILABLE



166MHz Pentium[®] processor
Intel Triton chipset
16-bit sound
16Mb EDO RAM
17" Vale EcoScan monitor
2Gb mode 4 IDE hard disk
512kb Pipeline-Burst cache
TEAC Six speed CD-ROM drive
2Mb Diamond Stealth 64VideoRAM

£2389+VAT

NO DEPOSIT PERSONAL FINANCE

Platinum P150/1Gb Lotus Multimedia Office 96 PC **£69.24** per month inc VAT

No deposit, 36 monthly payments, APR 18.5%, Total payable £2492.64 inc VAT. (Cash price £1937.58 inc VAT).

BUSINESS RENTAL SCHEME

Platinum SE P166/2Gb Lotus Multimedia Office 96 PC **£88.46** per month +VAT

PLATINUM SE MODELS			
For full details of Microsoft Media 96 and Lotus Multimedia Office 96, see the first page of our advert:			
P 133	Standard	EDVA 96	Lotus Office 96
1Gb	£1999+VAT	£2069+VAT	£2109+VAT
2Gb	£2149+VAT	£2219+VAT	£2259+VAT
P 150	Standard	EDVA 96	Lotus Office 96
1Gb	£2079+VAT	£2149+VAT	£2189+VAT
2Gb	£2229+VAT	£2299+VAT	£2339+VAT
P 166	Standard	EDVA 96	Lotus Office 96
1Gb	£2239+VAT	£2309+VAT	£2349+VAT
2Gb	£2389+VAT	£2459+VAT	£2499+VAT

Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch. Please note that all models feature a six speed CD-ROM drive.

SEE LEFT FOR PLATINUM SE OPTIONS

Vale PC Accessories

INTERNET ACCESS

This package is the affordable way to enhance your PC with communications ability. Send and receive faxes, and access online information services and the Internet. Apart from your PC and a phone socket, everything you need is included:

- Pace FAX/modem: either V32bis (14400bps modem and FAX) or V34bis (28800bps modem, 14400bps FAX)
- Software to access Internet facilities
- 21 days free subscription to an internet service provider
- "The Net" guide book
- FAX software

V32bis package **£90+VAT**
V34bis package **£195+VAT**



TAPE STREAMER BACKUP

Regular backups are essential to ensure the safety of your data; why not take the advantage of having a tape streamer fitted into your Vale? It is more economical than using multiple floppy disks, as well as being faster and far more convenient. Quoted capacities are with compression software (supplied). All units are supplied with full backup software.



IOMEGA 800Mb £129+VAT
IOMEGA 3.2Gb £225+VAT

Tapes for above£29 + VAT Tapes for above£29 + VAT

MICROSOFT OFFICE 95

- ◆ MS Word
- ◆ MS Excel
- ◆ MS Schedule+
- ◆ MS Powerpoint
- ◆ MS Access (Office professional only)



Special offer with any Vale PC:
OFFICE 95 STANDARD **£179+VAT**
OFFICE 95 PROFESSIONAL **£249+VAT**

(Supplied via voucher redemption).

MILTON KEYNES
BIRMINGHAM
CAMBRIDGE
EVESHAM

Voyager II



With Pentium® processor performance, PCI bus colour graphics, built-in 16-bit sound, and the option of an internal CD-ROM drive, the Voyager II notebook takes multimedia applications in it's stride.

800x600 Super-VGA
Built-in TV-Out

COMPUTER SHOPPER January 1996
"There's no going back to a 640x480 screen once you've spent any time using a notebook with this higher resolution."

Designed for Microsoft® Windows® 95
Each system includes your choice of Windows 3.11 or Windows 95 at no extra cost.

WARRANTY
The Voyager II has 12 months 'return to base' warranty covering parts, with a lifetime warranty on labour.

Dual Scan Colour

	528MB	1GB
P75	£1799 ^{+VAT}	£2099 ^{+VAT}
P90	£1879 ^{+VAT}	£2179 ^{+VAT}

TFT Colour

	528MB	1GB
P75	£2099 ^{+VAT}	£2399 ^{+VAT}
P90	£2179 ^{+VAT}	£2479 ^{+VAT}

VOYAGER II OPTIONS

Internal quad speed CD-ROM drive	£199 ^{+VAT}
Additional primary battery	£169 ^{+VAT}
Auxiliary battery	£165 ^{+VAT}
Upgrade from 8Mb to 16Mb RAM	£299 ^{+VAT}
Upgrade from 8Mb to 24Mb RAM	£549 ^{+VAT}
Port replicator	£149 ^{+VAT}
Docking station & port replicator	£399 ^{+VAT}
Cigar lighter adaptor	£49 ^{+VAT}
Additional PSU	£59 ^{+VAT}
External keyboard	£29 ^{+VAT}
ZyFi2 amplified speakers	£29 ^{+VAT}



EXPANSION PORTS

The Voyager II has PCMCIA ports for use with two type II cards or one type III card. Rear panel connectors include serial port (1650 compatible), EPP parallel port; SVGA monitor, PS/2 mouse or keyboard, MIDI/game port, TV set, and infra red data link. A further port enables fast connection to a port replicator/docking station.

SECURITY

Anchor for Kensington security cable.

BUILT-IN AUDIO

The Voyager II really is multimedia ready. It has 16 bit stereo sound built in, together with stereo speakers and microphone. There are jacks for an external microphones, and stereo line in/line out. Audio utility software provided.

REMOVABLE HARD DISK

The enhanced IDE hard disk is removable for data security and upgradeability.

TOUCHPAD

The built in touchpad, with palm rest, controls the cursor effortlessly and accurately.

PORT REPLICATOR & DOCKING STATION

The Port Replicator has ports for; monitor, keyboard, mouse, 2x serial, 1x parallel, DC power in, MIDI/game, audio output, and a compact SCSI connector - use it to connect your Voyager II quickly to the peripherals on your desk. The full Docking Station adds a 200W power supply, with two drive bays (1x 3.5" & 1x 5.25"), three 16-bit ISA expansion slots (2x full length & 1x half length), and two PCMCIA slots (1x type II & 1x type III).

CD-ROM DRIVE

The optional quad speed CD-ROM drive replaces the floppy drive to make the Voyager II a self contained multimedia workstation.

3.5" FLOPPY DRIVE

The built in floppy drive slides out to allow fitting of either the optional CD-ROM drive or auxiliary battery. The floppy drive can then be used via a cable (supplied with the CD-ROM drive).

DISPLAY

The Voyager II has a high quality 10.4" LCD display, with a choice of Dual Scan colour or TFT colour. It can display up to 800x600 SVGA with 64k colours (TFT models) or 256 colours (Dual Scan models). The display driver is a 32 bit PCI bus Windows accelerator with 1Mb video RAM. A port is provided for connection to an external monitor (up to 1024 x 768 resolution) and there is a composite video output for connection to a suitable TV set (NTSC and PAL compatible).

KEYBOARD

The Voyager II uses a full function 86-key keyboard. Unlike many notebooks, it has a good solid feel.

CPU, CACHE & RAM

Designed to use 2.9V Pentium processors and fitted with 256k asynchronous cache, the Voyager II offers superb performance with maximum battery life. 8Mb RAM is fitted, and can be upgraded to a maximum of 64Mb.

BATTERY

The Voyager II uses the very latest Lithium Ion technology for long life and no 'memory effect'. The batteries can be easily removed and replaced by a second unit. Extensive power management features include doze, sleep and 'suspend to disk' modes. The latter quickly saves your working environment to disk when the lid is closed, allowing you to re-load it later.

QUALITY & STYLE

The Voyager II measures 295 x 225 x 49mm and weighs 3.3kg. The quality of fit and finish is amongst the best we have ever seen.

VOYAGER ACCESSORIES

VALE Carry Case £30.00^{+VAT}

A neat, compact padded case with carrying handle and detachable shoulder strap. Ideal for protection "out in the field".

NOTEBOOK CARRYING CASES

SOLIDEX PERFORMANCE



SystemTraveler II™ £49.00^{+VAT}

SystemTraveler II™ is the complete luggage carrier for the modern business traveller.

- Thickly padded to protect your equipment
- Luggage compartment (395x280x100mm)
- Printer compartment (330x230x60mm)
- Notebook compartment (395x280x50mm)
- Cellular 'phone pocket
- Document compartments
- Holders for diskettes, pens, business cards

PCMCIA



PCMCIA is the industry standard for expanding the capabilities of your notebook, whether it's a FAX/modem for a world of communications, or an ethernet card for talking to the rest of the office.

V34 bis FAX/Modem£199^{+VAT}
PCMCIA Ethernet card£199^{+VAT}

TOTAL CARE WARRANTY

Our optional 'Total Care' package replaces the existing warranty with 2 year care. If your Voyager should need attention during this period we will collect it and return it to you when repaired. This cover is just 12.5% of the cost of the notebook (without accessories) - for example, £112.38^{+VAT} for the 486dx2-66/250Mb mono model.

Voyager

The Vale Voyager - one of the most powerful and stylish '486 notebooks on the market.

QUALITY & STYLE

The Voyager measures 286 x 226 x 34mm and weighs 2.4kg (mono model). The quality of fit and finish is amongst the best we have ever seen.

WARRANTY

12 months 'return to base' warranty covering parts, with a lifetime warranty on labour.

DISPLAY

A choice of display types is offered - LCD mono, Dual Scan colour and TFT colour. All are 9.5" VGA with 64 greyscales (mono model) or 256 colours (colour models). The display driver is 1Mb 32-bit VESA local bus with Windows acceleration. A port is provided for connection to an external monitor, with up to 1024 x 768 resolution.

CPU & RAM

Low power consumption CPUs are used to maximize battery life. 4Mb RAM is fitted as standard, and can be upgraded to 20Mb.

HARD DISK

The hard disk is removable, offering the ultimate in upgradeability and data security.

TRACKBALL

19mm ergonomically designed trackball is built-in. The surrounding surface makes for a comfortable hand rest whilst typing.

EXPANSION PORTS

PCMCIA ports for use with two type II cards or one type III card. Rear panel connectors include serial port; EPP parallel port; SVGA monitor; and PS/2 mouse, keyboard or keypad. A further port enables fast connection to a docking station.

BUILT-IN AUDIO

Built-in microphone and speaker, with digitized audio recording/playback capability. A Yamaha music chipset (SoundBlaster and Windows Sound System compatible) allows for sound generation. There are sockets for external speakers and microphone.

KEYBOARD

Full function 86-key keyboard.

3.5" FLOPPY DRIVE

BATTERY

Nickel Metal Hydride battery for fast recharging and long life. Extensive power management features include doze, sleep and 'suspend to disk' modes.

Designed for Microsoft® Windows® 95
Each system includes your choice of Windows 3.11 or Windows 95 at no extra cost.

VOYAGER OPTIONS

Additional primary NiMH battery	£89 ^{+VAT}
Upgrade from 4Mb to 8Mb RAM	£169 ^{+VAT}
Upgrade from 4Mb to 12Mb RAM	£299 ^{+VAT}
Upgrade from 4Mb to 20Mb RAM	£499 ^{+VAT}
Docking station	£349 ^{+VAT}
Cigar lighter adaptor	£49 ^{+VAT}
Additional PSU	£49 ^{+VAT}
External keyboard	£29 ^{+VAT}
ZyFi2 amplified speakers	£29 ^{+VAT}

DOCKING STATION

The docking station for the Voyager has two drive bays (1x3.5" & 1x5.25"), three ISA expansion slots (2x full length & 1x 1/2 length), as well as permanent ports for monitor, keyboard, PS/2 mouse, serial, parallel, speaker, microphone and audio line-in.



"It's toughness, excellent performance and good display make it a machine that we must honour with the PC today best buy award."
Vale Voyager 486dx2-66
Dual Scan Colour
January 1995

Corporate and Network Sales

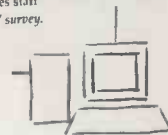


Established for 13 years, Evesham Micros has gained consistent industry recognition for its quality of product and service and has a proven track record of supplying some of the country's leading organisations – a wide spectrum of businesses, government bodies and educational establishments.

Each of our branches have dedicated account managers ready to support all your I.T. needs; indeed they have been awarded best "Product knowledge of Sales Staff" by nearly 2000 users in the Computer Weekly/KEW Associates 'Quality of IT Suppliers 1995' survey. Whether your needs are large or small, they are ready to discuss your requirements and advise on the ideal solution – we can offer PCs for Windows applications or CAD/CAM, right through to complete network solutions. We are able to react quickly to the market, therefore we can offer your company the latest technology at competitive prices.

COMPUTERWEEKLY

Best "Product knowledge of sales staff" in 'Quality of IT Suppliers 1995' survey.



Pro-line

With Pentium® PRO processor – the new standard for file servers and workstations.

Vale Advanced NT PRO Fileserver

- ◆ Intel Aurora ATX motherboard
- ◆ 150MHz Pentium® PRO processor with 256kb integrated cache
- ◆ 32Mb EDO RAM
- ◆ 2Gb Seagate SCSI hard disk with Adaptec 2940 PCI controller
- ◆ Six speed SCSI CD-ROM drive
- ◆ 1Mb PCI video
- ◆ 14" SVGA monitor
- ◆ 32-bit PCI ethernet card
- ◆ Full tower case (illustrated)
- ◆ Microsoft NT Advanced Server software

£4299+VAT

BUSINESS RENTAL SCHEME

Advanced NT PRO Fileserver **£152.18** per month +VAT

Vale Advanced NT PRO Workstation

- ◆ Intel Aurora ATX motherboard
- ◆ 150MHz Pentium® PRO processor with 256kb integrated cache
- ◆ 32Mb EDO RAM
- ◆ 2Gb Seagate IDE hard disk with PCI controller
- ◆ 17" SVGA monitor
- ◆ Diamond Stealth 64VideoVRAM 2Mb PCI video
- ◆ Six speed CD-ROM drive
- ◆ Full tower case (illustrated)
- ◆ Microsoft NT Workstation software

£3899+VAT

BUSINESS RENTAL SCHEME

Advanced NT PRO Workstation **£138.02** per month +VAT



A Vale Advanced NT PRO Workstation



PENTIUM® PRO
PROCESSOR



Fileservers



A Vale Fileserver with the purpose designed case.

BUSINESS RENTAL SCHEME

The Vale Fileserver (dedicated case) **£70.76** per month +VAT

The Vale Fileserver

- ◆ Intel Advanced Endeavour motherboard with Triton chipset
- ◆ 100MHz Pentium® processor
- ◆ 16Mb EDO RAM
- ◆ 512kb Pipeline-Burst cache
- ◆ 1Gb SCSI hard disk with Adaptec 2940 PCI controller
- ◆ 1Mb PCI video
- ◆ 14" SVGA monitor
- ◆ 32-bit PCI ethernet card

With the full-tower case:

£1699+VAT

With the dedicated server case:

£1999+VAT

Vale Advanced NT Fileserver

- ◆ Intel Advanced Endeavour motherboard with Triton chipset
- ◆ 133MHz Pentium® processor
- ◆ 2Gb SCSI hard disk with Adaptec 2940 PCI controller
- ◆ 32Mb EDO RAM
- ◆ 512kb Pipeline-Burst cache
- ◆ 1Mb PCI video
- ◆ 14" SVGA monitor
- ◆ 32-bit PCI ethernet card
- ◆ Quad speed CD-ROM drive
- ◆ Microsoft NT Advanced Server software

With the full-tower case:

£3599+VAT

With the dedicated server case:

£3899+VAT



Network Services

Whatever your networking requirement, we can provide the complete solution. From a simple two user peer to peer system to a Wide Area Network, we can install and support the entire installation – from initial concept to user training. All our installations are supervised by a Novell Certified Network Engineer, thus assuring our clients of the very best in networking expertise. Why not contact our Corporate Sales staff at your nearest Evesham Micros branch to discuss your requirements.

Corporate Sales Centres

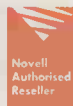
EVESHAM 01386 769404

MILTON KEYNES 01908 230898

CAMBRIDGE 01223 323898

BIRMINGHAM 0121 446 5050

Microsoft
SOLUTION PROVIDER
Authorised by Microsoft



Confused about your network requirements? Speak to our knowledgeable sales staff regarding:

Fault tolerance options – Mirrored disks, Duplexed disks, RAID systems, Dedicated server case (illustrated above left) with redundant power supply, Uninterruptable Power Supplies.

Workstations – Individual stations or multi-user solutions.

Printer services – Many options available.

Cable installation – Hubs, patch boxes and cabling.

Installation and commissioning – Hardware installation, configuration of workstations, setup of print services.

Training – We can arrange Certified Novell Administrator courses at a Novell Authorised Education Centre.

TWO GREAT MULTIMEDIA BUNDLES

OFFERED WITH A VARIETY OF PACKS

Microsoft



- ◆ Works 3 (for Windows 3.1) or Works 4 (for Windows95) - Your choice, please specify which
- ◆ Money
- ◆ Encarta 96 (International Edition)
- ◆ Fine Artist
- ◆ Explorapedia
- ◆ Dinosaurs
- ◆ Golf
- ◆ Scenes
- ◆ Fury 3 (trial version)
- ◆ Windows Entertainment Pack



Upgrade speakers in any pack to ZyFi 2 PROs for a surcharge of £20+VAT.

Lotus Office 96

Lotus Suite:

- Lotus 1-2-3
- Lotus Word Pro
- Lotus Approach
- Lotus Freelance Graphics
- Lotus Organizer

Includes free upgrade to SmartSuite 96 for Windows 95 when available

Productivity Software:

- Quicken 3, CorelDraw! 4, Sage Moneywise

Top Games Titles:

- Dragon Lore, MegaRace, Theme Park, FIFA International Soccer

Grolier Encyclopaedia:

- Software Toolworks Grolier Encyclopaedia for 1995 - version 7

Plus: Supervoicer, Professor Windows, Professor Training Suite, Professor Multimedia; Typing Tutor; Pilot Multimedia including 'Interlude' and 'Get Organized'



See the CD-ROM drives (below and right) for details of the complete packs. When ordering please quote pack number. We recommend a minimum 486sx33 system for these packs. Please note that bundled versions of software and sound cards are not full retail packs, and the software features on-line documentation.

PANASONIC DOUBLE SPEED CD-ROM DRIVE



CR-562/563 Double Speed, multi-session drive

limited offer at only **£39.00+VAT**

Includes cables and driver software

- Double speed 300kb/sec data transfer rate
- Multi-session mechanism - compatible with Kodak Photo CD Standard
- Motorised loading tray - no need for a caddy
- High speed 320ms access
- White book (CDI) compatible for video CDs
- MPC compatible ○ Mounts in 5.25" drive bay
- Output from audio CDs via headphone socket
- Requires SoundBlaster or compatible card with Panasonic CD interface

- 1E** £49.00+VAT CR-562/3 with AT-bus driver card
- 1F** £75.00+VAT CR-562/3 bundled with Soundplus 16 card
- 1B** £90.00+VAT CR-562/3 with genuine SoundBlaster 16 card

Microsoft **Media 96**

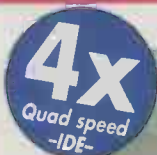
- 7C** £136.00+VAT CR-562/3 with Media 96 pack, ZyFi2 speakers and Soundplus 16 card
- 7A** £150.00+VAT CR-562/3 with Media 96 pack, ZyFi2 speakers & genuine SoundBlaster 16

Lotus **Office 96**

- 9C** £176.00+VAT CR-562/3 + Lotus Multimedia Office 96, ZyFi2 speakers and Soundplus 16
- 9A** £190.00+VAT CR-562/3 + Lotus Multimedia, ZyFi2 speakers & genuine SoundBlaster 16

PANASONIC QUAD SPEED IDE CD-ROM DRIVE

PANASONIC CR-581 ENHANCED IDE DRIVE



WHY SETTLE FOR LESS!!

With 4x speed and the latest enhanced IDE interface this drive has the performance to cope with the most demanding multimedia applications.

- Enhanced-IDE ATAPI interface
- Quad speed 600kb/sec sustained data transfer rate
- Super fast 190ms access
- Output from audio CDs via headphone socket
- Multi-session drive - compatible with Kodak Photo CD
- MPC and White Book (CDI) compatible

drive only **£72.00+VAT**

Includes cables and driver software

NB - requires sound card or motherboard with secondary IDE connector

Microsoft **Media 96**

- 5** £150.00+VAT CR-581 with Media 96 pack, ZyFi2 speakers and AT-bus driver card
- 5A** £190.00+VAT CR-581 with Media 96 pack, ZyFi2 speakers and SoundBlaster 16 card
- 5B** £240.00+VAT CR-581 with Media 96 pack, ZyFi2s and SoundBlaster AWE32 value
- 5C** £305.00+VAT CR-581 with Media 96 pack, ZyFi2s and SoundBlaster AWE32

Lotus **Office 96**

- 6** £190.00+VAT CR-581 with Lotus Multimedia Office 96, ZyFi2 speakers and AT-bus driver card
- 6A** £230.00+VAT CR-581 with Lotus Multimedia Office 96, ZyFi2s and SoundBlaster 16
- 6B** £280.00+VAT CR-581 with Lotus Multimedia Office 96, ZyFi2s and AWE32 value
- 6C** £345.00+VAT CR-581 with Lotus Multimedia Office 96, ZyFi2s and AWE32

MILTON KEYNES BIRMINGHAM CAMBRIDGE EVESHAM

TEAC SIX SPEED IDE CD-ROM DRIVE

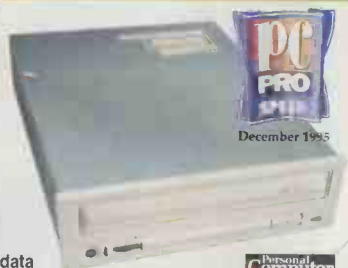
True **6X** speed performance.

Beware! - Many 6x and 8x drives being offered are modified quad speed units

Only **£127^{+VAT}**. NB - bare drive requires sound card or motherboard with secondary IDE connector

- 8A** £135.00^{+VAT}
CD-56E with AT-Bus driver card
- 8B** £175.00^{+VAT}
CD-56E with genuine SoundBlaster 16 card
- 8C** £225.00^{+VAT}
CD-56E with genuine SoundBlaster AWE32 value
- 8D** £290.00^{+VAT}
CD-56E with genuine SoundBlaster AWE32

- Enhanced IDE ATAPI interface
- Six speed 900kb/sec sustained data transfer rate
- Super fast 139ms access
- Plug and Play compliant
- Output from audio CDs via headphone socket
- Multi-session drive - compatible with Kodak Photo CD
- MPC and White Book (CDi) compatible



December 1995



January 1996

Microsoft



- 11** £196.00^{+VAT} CD-56E with Media 96 pack and AT-bus driver card
- 11A** £236.00^{+VAT} CD-56E with Media 96 pack, ZyFi2 speakers and genuine SB 16 card
- 11B** £286.00^{+VAT} CD-56E with Media 96 pack, ZyFi2s and SoundBlaster AWE32 value
- 11C** £351.00^{+VAT} CD-56E with Media 96 pack, ZyFi2s and SoundBlaster AWE32

Lotus Office 96

- 10** £236.00^{+VAT} CD-56E + Lotus Multimedia Office 96 and AT-bus driver card
- 10A** £276.00^{+VAT} CD-56E + Lotus Multimedia Office 96, ZyFi2s and genuine S/Blaster 16
- 10B** £326.00^{+VAT} CD-56E + Lotus Multimedia Office 96, ZyFi2s and S/Blaster AWE32 value
- 10C** £391.00^{+VAT} CD-56E + Lotus Multimedia Office 96, ZyFi2s and S/Blaster AWE32

CREATIVE CREATIVE LABS, INC.

- SoundBlaster 16 Value pack £67.00^{+VAT}
with IDE CD-ROM interface
- SoundBlaster 16 MCD card £99.00^{+VAT}
with Panasonic/Sony/Mitsumi CD-ROM interfaces
- SoundBlaster AWE32 card £169.00^{+VAT}
- MIDI Kit £59.00^{+VAT}
- VideoBlaster SE £189.00^{+VAT}
- TV Coder £129.00^{+VAT}

SPECIAL OFFER! SoundBlaster AWE32 Value

Now only.....**£99.00^{+VAT}**

Integrated design combining SB16 with WaveBlaster, bringing the power of Advanced WaveEffects Synthesis. Has Wave table, IDE CD-ROM interface and 512kb RAM for sampling.



SOUNDPLUS 16 CARD

A 16-bit stereo sound card, compatible with the SoundBlaster and SoundBlaster Pro, as well as the Windows Sound System, MPU-401 and AdLib standards. It provides CD-ROM interfaces for Panasonic, Sony, Mitsumi and IDE CD-ROM drives, has a MIDI interface/joystick port, and also interfaces for microphone, speakers, audio in/out, and wave table synthesizer. The high specification includes 48kHz stereo sampling rate, a 20 voice FM music synthesizer, and a 4 Watt per channel stereo power amplifier.



Incredible value...**£39.99^{+VAT}**

ZYFI COMPACT

Experience great audio reproduction from your PC Sound Card with ZY-FI Compact Speakers - the discrete and economical way to give your PC great sound.

- Built-in Stereo Power Amplifier
- 16 Watts PMPO (4 Watts RMS)
- Active or Passive use
- 3" Full Range Cone
- Magnetically Shielded
- Volume Control
- Bass Booster
- Treble Booster



Only **£12.00^{+VAT}**

ZYFI 2 SPEAKERS

THE NEW ZYFI 2 ACTIVE POWER AMPLIFIED STEREO SPEAKERS OFFER THE VERY BEST IN SOUND REPRODUCTION - IDEAL FOR ALL SOUND CARDS AND MULTIMEDIA SYSTEMS!

Feature built-in power amplifier with separate L/R volume controls and tone control. Magnetically shielded.



March 1995

"Sound quality is splendid and a great improvement over the originals - stereo comes across well and the sound is crisp. You can get a fair amount of bass too... ZyFi2s are definitely a sound investment."



Only **£29.00^{+VAT}**

ZYFI 2 PRO SPEAKERS

The latest addition to the serious multimedia system must be our ZYFI 2 PRO Active speaker system.

With a PMPO of 60 Watts per channel and an amplifier with a true 18 Watts RMS per channel rating, the PROs deliver a rich dynamic sound. They feature separate volume, bass and treble controls, and are magnetically shielded. Speaker size 14x23x15cm.



March 1995 "If you've invested in a decent sound card, then you've got to get some serious amplification to do it justice, and these are the boys to add a bit of oomph to your PC, especially if you plan to play some audio CDs or are serious about games."

PC Zone, April 1995: Rating 9/10. "Excellent value for money."



Only **£49.00^{+VAT}**



FX2000 Joystick £19.00^{+VAT}

This recent addition to the highly acclaimed range of Suncom joysticks brings further advances in comfort and control. The pistol grip can be easily rotated to give perfect orientation for left or right handed use, while the unique "V" designed top fire button allows lightning fast response.



SPECIAL OFFER Includes F15 III on CD

MSC Multi-System £69.00^{+VAT}

EVERYTHING YOU COULD WANT FROM A JOYSTICK.

The Multi-System is three control systems in one. The sturdy base sits securely on your desktop with suction feet, and provides a nicely weighted steering wheel for driving games. The wheel un-clips to reveal bars which twist into position for either an aircraft yoke or bike handle bars. Whichever you use there are control buttons at your fingertips, and an aircraft throttle paddle. The foot mounted pedal box gives you throttle and brake controls. Multi-System has a port for a second joystick. Requires game port.



It's a car!



It's a bike!



It's a plane!



FLIGHTSTICK £27.00^{+VAT}

THE FLIGHTSTICK IS CONSISTENTLY REVIEWED AS THE BEST QUALITY JOYSTICK IN ITS CLASS

Test fly a Flightstick with your favourite simulator and you will know the meaning of control. Whether you're a novice or experienced combat pilot, flying skills will be improved and enemy kill rate will increase. Excellent construction - looks and feels like the real thing! Includes throttle control and 7ft long connection cable. Requires game port.



FLIGHTSTICK PRO £55.00^{+VAT}

THE ULTIMATE COMBAT STICK FOR COMPUTER PILOTS!

The new Flightstick PRO from CH Products offers the ultimate in fingertip control. It has four fire buttons, and a four-way switch which allows you to control weapons, radar and viewing functions on more advanced software - all without taking your hand from the stick! With its top quality sturdy construction it is designed to last for years. Includes driver software and long connection cable. Requires game port.

VIRTUAL PILOT £62.00^{+VAT}

THE MOST REALISTIC FLIGHT YOKE AVAILABLE FOR THE PC

Enjoy the ultimate realism in all flight simulation games with the Virtual Pilot, made in the USA by CH Products. Looking just like a real airplane yoke, it is designed for the ultimate precision, giving you superb control. Also ideal for driving games. Clamps to table top. Requires game port.



VIRTUAL PILOT PRO £72.00^{+VAT}

The VIRTUAL PILOT PRO has all the best features of the award winning VIRTUAL PILOT. It adds four extra fire buttons and two four-way switches for unrivalled control in all combat and simulation games. Requires game port.



PRO PEDALS £75.00^{+VAT}

Featuring dual operating modes for forward and back rudder motion, as well as pivot movement for driving games, the CH Products PRO PEDALS provide gamers with the most realistic flying and driving experience. They also include aircraft style toe-brakes, and independent accelerator and brake controls. They are designed to work with all CH Products joysticks and yokes, and are built with rugged components to withstand the toughest competitor. Requires game port.



GAME PORT 2000 £12.50^{+VAT}

Game port card for any of these joysticks and yokes. Works with any clock speed. Particularly recommended for 486x2-66 and Pentium systems.

MILTON KEYNES
BIRMINGHAM
CAMBRIDGE
EVESHAM

UPGRADES & ACCESSORIES

PROCESSORS



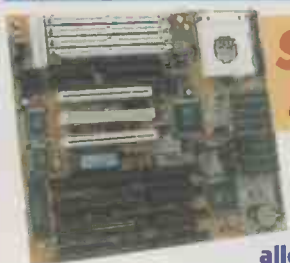
486dx2-66	£29.00 ^{+VAT}
486dx4-100	£49.00 ^{+VAT}
Motherboard support for 3.3V required.	
Pentium P75	£90.00 ^{+VAT}
Pentium P90	£180.00 ^{+VAT}
Pentium P120	£230.00 ^{+VAT}
Pentium P133	£290.00 ^{+VAT}
Pentium P150	£370.00 ^{+VAT}
Pentium P166	£530.00 ^{+VAT}
Heatsink and fan recommended for all above processors.	
CPU Heatsink	£3.00 ^{+VAT}
486 fan & heatsink	£10.00 ^{+VAT}
Pentium fan & h/sink	£9.00 ^{+VAT}

MEMORY SIMMS

1Mb 30-pin SIMM (3 chip) 70ns	£34.00 ^{+VAT}
4Mb 30-pin SIMM (3 chip) 70ns	£130.00 ^{+VAT}
4Mb 72-pin SIMM 70ns 32-bit	£80.00 ^{+VAT}
8Mb 72-pin SIMM 70ns 32-bit	£170.00 ^{+VAT}
16Mb 72-pin SIMM 70ns 32-bit	£360.00 ^{+VAT}
EDO RAM: 4Mb 72-pin SIMM 70ns 32-bit	£85.00 ^{+VAT}
EDO RAM: 8Mb 72-pin SIMM 70ns 32-bit	£190.00 ^{+VAT}
EDO RAM: 16Mb 72-pin SIMM 70ns 32-bit	£420.00 ^{+VAT}



PCI MOTHERBOARDS



SPECIAL PRICES

Our bulk purchase of motherboards allows us to offer you these special prices...

486 UP TO DX4-100 (TYPE 7).....£85.00^{+VAT}

- Will accept most 486 CPUs up to DX4-100 ● 3xPCI local bus slots
- 4xISA slots ● ZIF socket ● P24T upgradeable ● 256kb Cache
- On-board PCI IDE hard disk controller ● 2x 16550 compatible UART driven high speed serial ports ● EPP and ECP compatible parallel port
- Accepts 72-pin SIMMs.

Type 7 board with 486dx2+66 processor.....£119.00^{+VAT}

Type 7 board with 486dx4+100 processor.....£139.00^{+VAT}

NB - all board + CPU offers include heatsink and fan.

Pentium (TYPE 6).....£110.00^{+VAT}

- 2xPCI local bus slots ● 1xPCI/ISA bus slot ● 3xISA slots ● ZIF socket ● 256kb Cache ● On-board PCI IDE hard disk controller
- 2x 16550 compatible UART driven high speed serial ports ● EPP and ECP compatible parallel port ● Accepts 72-pin SIMMs.

Type 6 board with P75 processor.....£195.00^{+VAT}

Type 6 board with P90 processor.....£285.00^{+VAT}

Type 6 board with P120 processor.....£335.00^{+VAT}

NB - all board + CPU offers include heatsink and fan.

Triton FOR PENTIUM CPUs (TYPE 8).....£220.00^{+VAT}

- Intel Advanced Endeavour board with Triton chipset ● 3xPCI local bus slots ● 1xPCI/ISA bus slot ● 2xISA slots ● ZIF socket
- 256kb Pipeline-Burst Cache ● On-board PCI IDE hard disk controller
- 2x 16550 compatible UART driven high speed serial ports ● EPP and ECP compatible parallel port ● Support for EDO RAM, Pipeline-Burst cache and Native Signal Processing ● On-board sound with Creative Labs Vibra 16 chipset ● Accepts 72-pin SIMMs.

Type 8 board with P90 processor.....£445.00^{+VAT}

Type 8 board with P120 processor.....£495.00^{+VAT}

Type 8 board with P133 processor.....£555.00^{+VAT}

Type 8 board with P150 processor.....£635.00^{+VAT}

Upgrade to 512k Pipeline-Burst cache.....£50.00^{+VAT}

NB - all board + CPU offers include heatsink and fan.

MONITORS

Due to our bulk purchasing power for our own Vale PCs, we are able to offer the following high specification monitors at very competitive prices.



Vale monitors have 12 months on-site maintenance



Vale EcoScan monitors

Our own family of 15" and 17" models, as illustrated above. They feature an ingeniously simple digital push button system which allows complete control over all display adjustments, including pin-cushion, trapezoid, parallelism and rotation, with on-screen representation of the settings.

- 0.28mm dot pitch
- Up to 65kHz horizontal scan
- 1280 x 1024 max. res.
- Fully non-interlaced
- 72Hz Flicker-Free at 1024x768
- MPR II and EPA compliant

EcoScan15 ..£249^{+VAT} EcoScan17 ..£449^{+VAT}

iiyama Vision Master 15".....£299^{+VAT}

0.26mm dot pitch ● 1280x1024 max ● Up to 65kHz horiz. scan ● 1024x768 @ 75Hz refresh ● MPRII and EPA compliant

iiyama Vision Master 17".....£549^{+VAT}

0.26mm dot pitch ● 1600x1200 max ● Up to 86kHz horiz. scan ● 1280x1024 @ 74Hz refresh ● MPRII and EPA compliant - PC Magazine "Editor's Choice" April 1995

3 year on-site maintenance for Vision Master 17".....£80^{+VAT}

iiyama Vision Master PRO 17".....£609^{+VAT}

0.25mm dot pitch DiamondTron tube ● Other spec as above

iiyama Vision Master 21".....£1249^{+VAT}

1600x1200 max ● Up to 92kHz horiz. scan ● 1280x1024 @ 72Hz refresh ● MPRII and EPA compliant

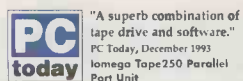
Viewsonic 14ES 14".....£180^{+VAT}

0.28mm dot pitch ● 1024x768 max non-interlaced ● 800x600 @ 72Hz refresh ● EPA Energy Star compliant

TAPE BACKUP ● OMEGA ZIP DISK DRIVE

ditto™ Top quality tape streamers available as either internal or a stand alone units. The stand alone versions simply connect to the PC's parallel port, with a through port for printer operation.

- ◆ Compatible with Novell and Lantastic networks
- ◆ Utilises the latest Travan technology
- ◆ Supplied with backup software for DOS/Windows
- ◆ Quoted capacities are with compression software supplied
- ◆ 2 year manufacturer's warranty



"A superb combination of tape drive and software." PC Today, December 1993
Omega Tape 250 Parallel Port Unit



800Mb Internal unit.....£129^{+VAT}

Parallel port unit£149^{+VAT}

Tape for ditto 800Mb.....£29.00 +VAT

3.2Gb Internal unit.....£225^{+VAT}

Parallel port unit£295^{+VAT}

Tape for ditto 3.2Gb.....£29.00 +VAT

Hard Disks

COST EFFECTIVE MASS STORAGE



Optional installation kit (5.25" mounting bracket kit plus cables).....£10.00^{+VAT}

IBM 100Mb (SCSI).....£49.00^{+VAT}

Seagate 214Mb (IDE).....£89.00^{+VAT}

Seagate ST3660A (IDE) 528Mb.....£115.00^{+VAT}

Seagate ST51080A (IDE) 1Gb.....£159.00^{+VAT}

Seagate ST32140A (IDE) 2Gb.....£299.00^{+VAT}

Seagate ST51080N (SCSI) 1Gb.....£199.00^{+VAT}

Seagate ST32430N (SCSI) 2Gb.....£499.00^{+VAT}

HD CONTROLLER CARDS



PROMISE CACHING HARD DISK CONTROLLERS

DC99M (ISA bus) c/w 512kb RAM (upgradeable to 8.5Mb).....£39.00^{+VAT}

DC4030 (VL bus) c/w 0kb RAM (max. 16Mb).....£49.00^{+VAT}

DC4030 (VL bus) c/w 2Mb RAM (max. 16Mb).....£99.00^{+VAT}

VIDEO CARDS

Why Diamond DIAMOND Video Cards? MULTIMEDIA

The highly acclaimed Stealth range has won many press accolades including the coveted PC Magazine "Editors Choice", and the new Stealth SE and Stealth 64 Video continue the tradition of delivering the best price/performance available. They are all based around 53 chipsets for superb Windows acceleration as well as class leading DOS performance, and come with the renowned InControl Tools utility for setting up the Windows environment.

Diamond Stealth SE PCI Bus (1Mb).....£74.00^{+VAT}

Diamond Stealth 64DRAM PCI Bus (1Mb).....£79.00^{+VAT}

Diamond Stealth 64DRAM PCI Bus (2Mb).....£115.00^{+VAT}

Diamond Stealth 64VideoVRAM VL Bus (2Mb).....£194.00^{+VAT}

Diamond Stealth 64VideoVRAM PCI Bus (2Mb).....£190.00^{+VAT}

Upgrade to 4Mb for Stealth 64VideoVRAM.....£120.00^{+VAT}

Diamond MVP accessory for Stealth 64Video, gives MPEG decoding and upgrade to 4Mb VRAM.....£249.00^{+VAT}

Diamond Edge 2Mb DRAM.....£239.00^{+VAT}

Diamond Edge 2Mb VRAM.....£299.00^{+VAT}

Please see page 1 for a full description of the Diamond Edge

Zip Disk is the newest, smallest, most portable drive. 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
- Take it with you Zip drive and disks are portable
- Backup your hard drive Quickly and easily



◆ 29ms seek time

◆ Up to 1Mb/sec data transfer

◆ Very compact (180mm x 136mm x 37mm)

◆ Light weight (approx 450g)

◆ Includes one 100Mb disk, and Zip tools software to help you organise your data

◆ Limited lifetime warranty on Zip disks

Inexpensive, reliable, and ready to help you organise everything. Use as many disks as you need. Software helps you keep track of it all. Work stuff. Home stuff. School stuff. Play stuff. Whatever.

ZIP DISK DRIVE.....ONLY £149.99^{+VAT}

100Mb Zip disk.....£16.95 +VAT

NETWORK PRODUCTS



Reliability is the key to network installations – you cannot afford to make compromises. We offer top quality branded products at an affordable price.

We are NOVELL Authorised Resellers. Please contact us regarding your specific networking requirements.

Instant Ethernet

NETWORKING HEADACHES?

Solve all your problems with these revolutionary new self-installing adapters.



- Hassle free automatic installation – just plug it in, type NDCGO, and you have instant Ethernet
- 10BaseT and 10Base2 ports
- ISA bus internal card£49.00+VAT
- PCI bus 32-bit internal card£89.00+VAT
- PCMCIA card£139.00+VAT

Cabling.

- BNC connectors: T Connector£3.20+VAT
 Through Connector£1.80+VAT
 Cable plug£1.75+VAT
- Ethernet Cable: Loose, per metre£0.75+VAT
 5m length with BNC plugs at each end£8.50+VAT
 10m length with BNC plugs at each end£14.00+VAT
 20m length with BNC plugs at each end£20.00+VAT



Novell compatible 16-bit network card.

Fully Novell authorised and tested.

- Faster than and compatible with NE2000 cards
- 10BaseT and 10Base2 I/O
- NETBIOS compatible



£39.00+VAT

Kingston card with Novell Network Lite.....£59.00+VAT



Network hubs.

- 9 port stackable hub...£129.00+VAT
- 16 port hub£219.00+VAT



Pocket LAN adaptor

10Base2 & 10BaseT (connects to parallel port) ..£110.00+VAT

Plus FAX/MODEMS

The Internet

V32bis package.....£90+VAT

V34bis package...£195+VAT



This package is the affordable way to enhance your PC with communications ability. Send and receive faxes, and access online information services and the Internet. Apart from your PC and a phone socket, everything you need is included:

- Pace FAX/modem: either V32bis (14400 bps modem & FAX) or V34bis (28800bps modem, 14400bps FAX)
- 21 days free subscription to an internet service provider
- Software to access Internet facilities
- "The Net" guide book ● FAX software

SPECIAL OFFER

All modems include free Pipex Dial Internet connection trial pack, awarded "PC PRO Excellence" November 1995.



Authorised Dealer



LIMITED OFFER!

MICROLIN V34bis fax modems

- MICROLIN fx 34 Internal card£179+VAT
- MICROLIN NB 34 PCMCIA type II card£199+VAT

Linnet V34 Message Desk...£185+VAT

Desktop Voice, Data and Fax Modem. Integrates your PC and your telephone to provide complete communications facilities.

International Travel Pack.....£39+VAT

Allows use of modem in the USA and most of Europe.



MICE & KEYBOARDS

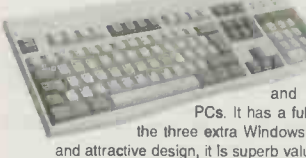
MITSUMI MOUSE £9.99+VAT

A very stylish, comfortable and good quality mouse at a budget price. As used in our Vale Prima and Prestige ranges of PCs.



MITSUMI KEYBOARD

£15.00+VAT



Made for us by Mitsumi, this is the keyboard used in our Vale Prima and Prestige ranges of PCs. It has a full 102-key layout, plus the three extra Windows 95 keys. A very neat and attractive design, it is superb value for money.

ERGONOMIC KEYBOARD

Take the strain out of typing.

This specially designed keyboard allows your hands and wrists to work naturally for maximum comfort and maximum speed. Recommended by professional typists, and ideal for learners.



£29.00+VAT

WINDOWS 95 KEYBOARD

Our Windows keyboard has three extra keys that are programmable for use with Windows 3.xx but really come in to their own in Windows 95 as Application keys. As used in our state of the art Vale Platinum PCs. "...pleasantly curved and delightful to type on..." PC Pro, November 1995



£29.00+VAT

MS Mouse 2.0

Intellipoint version

£38.00+VAT

Ergonomics at it's best! Microsoft have their finger on the button when it comes to mouse design.



MS Home Mouse

£25.00+VAT

Maximum comfort and optimum usability for all home PC users. With the Home Edition of Intellipoint Software



SOFTWARE BARGAINS

Microsoft Office

- ◆ MS Word
- ◆ MS Excel
- ◆ MS Schedule+
- ◆ MS Powerpoint
- ◆ MS Access (Office professional only)

Now all your programs work together like one!

OFFICE 95 STANDARD £199+VAT

OFFICE 95 PROFESSIONAL £299+VAT

Competitive Upgrades are via voucher redemption.

Version Upgrades

Office 95 Standard.....£175+VAT
 Office 95 Professional.....£259+VAT

Outright Purchase

Office 95 Standard.....£409+VAT
 Office 95 Professional.....£529+VAT

Lotus SMARTSUITE 4



Includes free upgrade to SmartSuite 96 for Windows 95 when available

- 1-2-3 ■ Word Pro
- Approach ■ Organizer
- Freelance Graphics

Competitive upgrade (Via voucher redemption)

£229+VAT

Version upgrade £174+VAT Via voucher redemption

Outright purchase

No competing product? Don't worry, we will supply a qualifying product free of charge.



Windows 95 Upgrade pack

Upgrade from Windows 3.x or Windows for Workgroups 3.x
 CD format.....£69.00+VAT
 3.5" format.....£70.00+VAT

Windows 95 'Plus pack'

Comprises Internet Access and Themes for Windows 95
 CD format.....£30.00+VAT
 3.5" format.....£31.00+VAT

UPSs



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ALL SCANNERS ARE TWAIN COMPLIANT

Colour ⁸⁰⁰ True ²⁴-bit colour, 800dpi



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or with 'parallel port' interface (see below) £139.00+VAT

Scanners from **Mustek**

True 256 GREYSCALE HANDY SCANNER with all the right features, including O.C.R. and extensive graphics editing facilities.

- Genuine 256 greyscale performance – not interpolated from 32 greyscales (Beware: Many scanners advertised as 256 greyscale are 32 greyscale, achieving 256 only by software interpolation)
- Photo-realistic quality monochrome scans, with actual shades and shadows, at up to 400dpi
- Halftone and Line-art scanning at genuine 800dpi resolution
- Full 105mm wide scanning head
- Eight selectable scanning resolutions between 100 and 800dpi
- Variable brightness control ● Built-in scan speed indicator
- Includes "iPhoto Plus" top professional Windows based image scanning and photograph re-touching software, and "Perceive OCR" software



WHAT PC? BEST BUY



EVESHAM MICROS LTD
256 Greyscale Handy Scanner

EVESHAM MICROS LTD
256 Greyscale Handy Scanner

"Superb quality results time after time. The ease of use is commendable and the bundled software offers brilliant value for money... We therefore recommend the Mustek without hesitation."
What PC?, August 1993

with internal interface card **£49.99+VAT**

with 'parallel port' interface (see below) **£99.99+VAT**

Requires '386 CPU or above with Colour Monitor, at least 4Mb RAM, Windows 3.1 or higher, Hard Drive and Mouse.

A4 SHEETFED SCANNER

The simple, effective document scanning solution for office and home!

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.

- Genuine 256 greyscale performance – not interpolated from 32 greyscales
- Halftone and Line-art modes
- Genuine 300dpi resolution, interpolated to 600dpi
- Document size: 216x356mm max, 51x89mm min
- 10 sheet automatic document feeder
- Very compact "small footprint" design
- Very simple, fast scanning (only 12 seconds per page)
- Includes "iPhoto Plus" top professional Windows based image scanning and photograph re-touching software, and "Wordlinx" OCR software



with internal interface card **£149.00+VAT**

Requires '386 CPU or above with Colour Monitor, at least 4Mb RAM, Windows 3.1 or higher, Hard Drive and Mouse.

SCAN SAMPLE SERVICE

TRY BEFORE YOU BUY

To help with your choice of scanner we have prepared a sample disk pack for the scanners featured on this page.

Each sample pack contains several Images (including the Car) scanned in various modes to provide an exact representation of each unit's capabilities – before you buy. A fact sheet is also included containing loading instructions, scanning info., and printed originals produced by the scanner of your choice for comparison. Please state which scanner you are interested in (greyscale, colour or flatbed). Supplied on 3 1/2" disks.



Cost Per Pack **£5.00+VAT** incl delivery. Refundable on purchase of a scanner.

External SCANNER INTERFACE

Connect your scanner to your printer port!

This compact in-line interface box does away with the need to install an expansion card for your scanner, by simply plugging into the Parallel port. It is ideal for anyone who wants to transfer their scanner quickly between computers, as well as notebook owners and those who have simply run out of expansion ports. Compatible with the Mustek Black & White, Greyscale, & 24-bit Colour hand-held scanners.



only **£59.00+VAT**

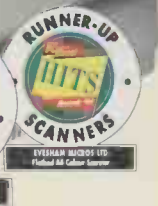
FLATBED A4 COLOUR SCANNERS

- Conventional models: 600dpi unit giving up to 4800dpi via interpolation, or 1200dpi unit giving up to 9600dpi via interpolation
- Very fast single-pass models: 800dpi giving up to 6400dpi via interpolation, or 1200dpi giving up to 9600dpi via interpolation
- Colour, 8-bit grey and line art modes ● 12 built-in halftoning patterns
- 216mm x 356mm scan area ● SCSI expansion card interface supplied
- Image scanning and photograph re-touching software, and powerful OCR software

	Paragon 600	Paragon 800SP	Paragon 1200SP
OPTICAL RESOLUTION:	300x600dpi	400x800dpi	600x1200dpi
INTERPOLATED RESOLUTION:	4800dpi	6400dpi	9600dpi
COLOUR DEPTH:	24-bit	30-bit	30-bit
FREE SOFTWARE:	iPhoto+ Wordlinx OCR £229+VAT	single pass Image Pals GO TextBridge OCR £299+VAT	single pass Image Pals GO TextBridge OCR £499+VAT
	Transparency adaptor...£179+VAT	Automatic sheet feeder...£299+VAT	

Requirements: '386 or higher, Windows 3.1 or higher, Mouse, Hard Drive and 256 colour SVGA graphics or higher. 600dpi model needs at least 4Mb RAM, other models need at least 8Mb RAM.

new fast single pass models



EVESHAM MICROS LTD
Flatbed A4 Colour Scanner

EVESHAM MICROS LTD
Flatbed A4 Colour Scanner

"Excellent value for money. The works for only £2700."
December 1993



Personal Computer World April 1993

"The MFS6000C is a quality piece of hardware... Superb results."

"The Mustek MFS-1200CX provides a good set of features at the lowest price in the test group... if you need an inexpensive high-resolution scanner, then the Mustek MFS-1200CX should be on your shortlist."
October 1994



LaserJet 5L

PRINTERS

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The HP LaserJet 5L printer. Outstanding laser print quality at an affordable price.

Better Printing

- Crisp, clear, permanent HP LaserJet printing
- Impressive 600dpi documents, with HP Resolution Enhancement technology (RET) and microfine toner to further refine print quality
- 1Mb standard, expandable to 9Mb
- Over 200 levels of gray at 106 lines per inch in Windows
- 26 True Type scaleable fonts built-in; additional 70 scaleable fonts on disk

Easier Printing

- Alternate straight-through paper path (via lower exit) provides wrinkle-free printing of envelopes
- Simplified control panel with 1 operator button and 3 status LEDs
- HP PrintSmart technologies provide simple, complete printing for Windows and/or DOS
- Set up and use in as little as 15 minutes
- 1 year manufacturer's warranty

Faster Printing

- 20 second first-page-out and 4 page-per-minute engine
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- Fast return to application gets you back to work while your document prints

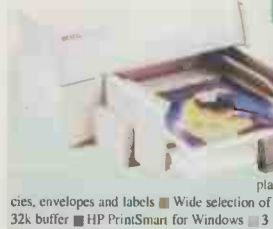


Laser-sharp type & brilliant colour – at an amazing price...

HP DeskJet 600

Inkjet Printer

£190.00 +VAT



Colour kit £29.00 +VAT

- 600 x 600dpi for precise black
- Up to 600 x 300dpi colour with optional colour cartridge
- HP's Resolution Enhancement and ColorSmart technology
- Up to 4ppm black, up to 1ppm colour (EconoFast mode)
- Prints on plain, glossy or recycled paper, transparencies, envelopes and labels
- Wide selection of scaleable fonts
- 512k built-in RAM, 32k buffer
- HP PrintSmart for Windows
- 3 year manufacturer's warranty

HP DeskJet 850C

Inkjet Printer

£343.00 +VAT



- 600 x 600dpi black
- 300 x 300dpi colour printing – 800 x 800dpi colour with C-RET (Colour Resolution enhancement)
- 6ppm black, up to 3ppm colour
- Print on plain, glossy or recycled paper, transparencies, envelopes and labels
- 1Mb RAM
- 26 scaleable fonts
- 150 sheet paper tray & manual feed plus envelope and single sheet feeder
- 1000 page per month duty cycle
- 1 year manufacturer's warranty

HP DeskJet 660C

Inkjet Printer

£265.00 +VAT



- 600 x 600dpi for precise black
- 600 x 300dpi colour
- HP's Resolution Enhancement and ColorSmart technology
- 4ppm black, up to 1.5ppm colour (EconoFast mode)
- Prints on plain, glossy or recycled paper, transparencies, envelopes and labels
- Wide selection of Scaleable fonts
- HP PrintSmart for Windows
- 512k built-in RAM, 32k buffer
- 3 Year manufacturer's Warranty



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Panasonic KX-P3626	£329.00 +VAT
Canon BJ-30	£169.00 +VAT
Canon BJ-200EX (Epson compatible)	£190.00 +VAT
Canon BJ-230	£269.00 +VAT
Canon BJ-C600E	£369.00 +VAT
Canon BJ-C4000	£259.00 +VAT

Cut Sheet feeders are available for most printers. Please call for price / availability



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HP LaserJet 4 ML	£799.00 +VAT
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HP LaserJet 4 M Plus	£1399.00 +VAT

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4Mb RAM upgrade for LaserJet III / IIIi	£169.00 +VAT
4Mb RAM upgrade for LaserJet 4	£169.00 +VAT

HP DeskJet 340	£185.00 +VAT
HP DeskJet 340 with sheet feeder	£201.00 +VAT
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 For HP DeskJet/500/Plus/DeskWriter printers

The best and easiest to use Inkjet refills we have found. Comprehensive and simple to follow instructions are supplied. Each pack will refill a standard cartridge four times, or a long life cartridge twice.

ONLY £11.99 +VAT
 - that's as little as £3 per cartridge fill!

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Solidex carry cases Category 1/2	HP DeskJet 660 Category 2	£240.00 +VAT	OTHERS	
Vale Voyager Docking Station Cat 2	HP DeskJet 850C Category 2	£315.00 +VAT	Iomega Floptical drive (connects to parallel port) Category 2/3	from £129.00 +VAT
Olivetti Philos 8Mb RAM upgrade	HP DeskJet 1200C/PS Category 2	£949.00 +VAT	Iomega 250Mb tape drive (internal unit) Category 2	£59.00 +VAT
MONITORS	HP DeskJet RAMJET upgrade	£39.00 +VAT	Iomega 800Mb tape drive (connects to parallel port) Category 2	£120.00 +VAT
Tatung TM-3401 14" Category 2	LASER		TEAC 1Gb tape drive (internal) Cat 1	£250.00 +VAT
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Vale EcoScan 15" Category 2	Lexmark WinWriter 200 Category 2	£170.00 +VAT	Various Mice Category 1/2	£8.00 +VAT
CTX 17" Category 1	TI microWriter Category 2	£150.00 +VAT	HP ScanJet 2P Category 1	£275.00 +VAT
PRINTERS	TI microWriter P565 Category 3	£329.00 +VAT	Greyscale hand scanners Cat 2/3	from £30.00 +VAT
Cut sheet feeders for many models	WinWriter 1Mb RAM upgrade	£60.00 +VAT	Colour A4 scanners Category 2	from £199.00 +VAT
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Panasonic KX-P2135 Category 2	HP LaserJet IV 4Mb RAM upgrade	£50.00 +VAT	PCI Motherboard for Pentium P60 Cat 1	£99.00 +VAT
INKJET	FAX/MODEMS			
Epson Stylus colour Category 3	SPECIAL OFFER - ALL FAX/MODEMS INCLUDE "PIPEX DIAL" INTERNET CONNECTION TRIAL PACK	£99.00 +VAT		
Canon BJ-200EX Category 2	Pace V32bis Message Desk Voice, Data and Fax Modem Category 2	£99.00 +VAT		
Canon BJ-C600E Category 1	Various FAX/Modems available, all Category 2:			
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HP DESKJET 850C - Showered with Awards!



PC Magazine Editors Choice

"This printer produces spectacular output"
Awarded Editors Choice, PC Magazine, October 1995

"Hewlett-Packard's Deskjet 850C wins our Quality award for outstanding performance and output quality"
Award for Quality & Distinction, PC Pro, October 1995

"The Deskjet 850C looks like being the first printer to offer the quality of a laser with the flexibility to print colour images as well"
Awarded 5/5, What PC?, June 1995

"The 850C's output is excellent ... even on poor quality paper. The ink-saving Economode is exceptional!"

5-Star Award, What Personal Computer, June 1995

"Taking into account its price, ease of use, speed, excellent software and good print quality, the Deskjet 850C fully deserves a PC User Gold Award"

Gold Award, PC User, April/May 1995

- ★ Excellent Quality Colour
- ★ 600 dpi² Black & 300 dpi² Colour
- ★ 6ppm Black & 2ppm (Colour)
- ★ PC & Mac iff std
- ★ HP REt & HP C-REt
- ★ New inks - sharper, denser print

3Yr OSM £65 Cartridges: Blk £20 Col £22

Low Price
£319

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£176

- ★ 600 dpi² plus HP REt
 - ★ NEW INKS - Sharper, denser print
 - ★ 3 year RT-HP warranty
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HP DESKJET 660C



£245

- ★ Laser-quality resolution on black
 - ★ Up to 4ppm
 - ★ Superb new colour inks
 - ★ Up to 600x600dpi
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HP DESKJET 340

£169
Professional Portable Printer: 600x300 dpi² plus HP REt, 300x300 dpi colour (opt). Very portable shape, 2kg, Battery, case & Recharger options. Integrated 30 sheet feeder.
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Professional Colour Printer - PostScript 2, PCL5e, Pantone support, individual cartridges.
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Best selling all-in-one solution for the small business and the home.

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- ◆ Complete with Fax s/w
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- ★ 600x600 dpi² plus HP REt
 - ★ 4ppm, fast first page (20 sec)
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 - ★ NEW space saving design
- Toner £57
3 Yr OSM £115

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£591

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 - ★ EconoMode to reduce the cost of printing
 - ★ 2MB RAM
 - ★ Infrared port
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HP LaserJet 5MP (Mac/PC) £738

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	A1	A0
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HP DesignJet 250	£1845	£2489
HP DesignJet 600	£2740	£3275
HP DesignJet 750C	£3669	£4395

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PostScript Level 2 for HP LJ4P		£190
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1MB for HP LJ4LJ4Plus/LJ4Si		£250
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Requires Extra Memory

HP LASERJET 4PLUS



£979

- ★ 12ppm, 600 dpi² plus HP REt
 - ★ PCL5e, M version has PostScript, N/W and Mac capability
 - ★ 2MB RAM, two trays
- Toner £68 3 Yr OSM £180
Duplex Unit £345 (requires extra memory)
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HP LaserJet 4MPLUS (PC,Mac,NW) £1295

HP LASERJET 4V £1399



16ppm, 600dpi² plus HP REt, 2 trays, PCL5e, A3 capable
Toner £109
3 Yr OSM £235
HP LaserJet 4MV (PC,Mac,NW) £2029

NEW HP LASERJET 5Si £2079



24ppm, 600dpi² plus HP Ret, 4MB RAM, A3 capable, copier-like paper handling options
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2000 Sheet Feeder £735
HP LaserJet 5SiMx (PC,NW) £2965

SEE PAGE 16 FOR HP MEMORIES
SEE PAGE 25 FOR HP JETDIRECT CARDS

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PRINTERS

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For CAD and design professionals offering 720dpi x 720dpi with Epson Micro Dot.. 1.5ppm Colour, 3ppm black.

£825

Photo-Real
720dpi
capable

100
Sheet
Feeder

Small
Footprint

3
year
warranty

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- 100 sheet feeder
- 1 year warranty

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BJC-800 A3 Colour Bubble Jet Printer	£975

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Black	£10	£10	£10	£11	£10	£7	£14
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*specify C/M/Y Cartridges



AFFORDABLE LASER PRINTERS FROM brother®

HL-630 PERSONAL LASER



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- 300 dpi resolution
- Six pages per minute
- 16 MHz microprocessor
- High-speed, bi-directional parallel port
- Includes 45 fonts and Microfine toner
- Prints envelopes, different paper stocks & sizes

The HL-630 allows you to produce great-looking laser output simply, easily, and at a price you can afford. But this printer is far from a stripped down laser printer. It includes 45 great-looking fonts. Enhanced Memory Management, and the ability to print on a wide variety of paper types and sizes.

HL-631 LASER PRINTER £339

HL-660 OFFICE LASER

- 2MB RAM - 6ppm printer
- True 600 dpi resolution
- Photoscale technology
- Straight Paper Path Technology prints on a variety of papers

- High speed, bi-directional parallel port and Optimized Windows driver
- Includes 35 scalable fonts
- Easy to setup and use

The HL-660's exclusive Straight Paper Path design coupled with a super fast 600 dpi print engine makes it the best performing and most affordable printer in its class.

HL-600 Series Toner Cartridge £25



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600dpi GDI Laser Printer, 1MB, 6ppm, 200 sheet tray, low cost Microfine toner and 1 year warranty

HL-1260 NETWORK LASER



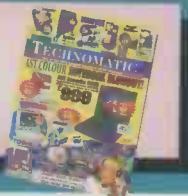
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- Fast 12ppm output
- 87 standard fonts
- 2MB RAM memory upgradable to 26MB
- 20 MHz RISC Processor
- PCMCIA Type III slot
- Optimized Windows driver
- High-speed, bi-directional parallel port and serial port

The HL-1260 produces 1200 dpi class output by using its Advanced Photoscale Technology (APT), High Resolution Control to produce output which is as spectacular as it is fast. Network users will find it provides plenty of storage. Features 500 sheet multi-purpose tray and PCL5e and Postscript Level 2.

Toner Cartridge for HL1260 £99
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- ◆ Up to 1600 x 1200 Non-interlaced
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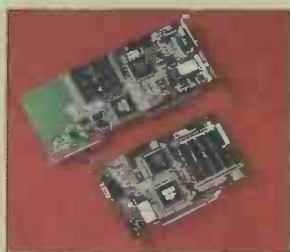
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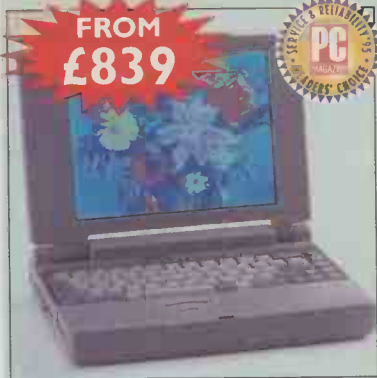
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T2110	Mono 9.5"	4/75	4	350	£839	£200
T2130CS	DSTN Col 10.4" 4/75		8	520	£1369	£250
T2150CDS*	DSTN Col 10.4" 4/75		4	520	£1699	£450
Sat 100	DSTN Col 10.4" 5/75		8EDO	520	£Call	£Call
Sat Pro 400CS	DSTN Col 10.4" 5/75		8EDO	810	£2399	£450
T2130CT	TFT Col 10.4" 4/75		8	520	£1789	£300
T2150CDT*	TFT Col 10.5" 4/75		8	520	£2379	£650
Sat Pro400CDT*	TFT Col 10.4" 5/75		8EDO	810	£3130	£450
Sat Pro410CDT*	TFT Col 11.3" 5/90		8EDO	810	£3389	Call
Portege 610CT	TFT Col 9.5" 5/90		8EDO	720	£2999	£450
Tecra 700CT	TFT Col 11.3" 5/120		16	1215	£4275	Call

*Internal CD-ROM drive

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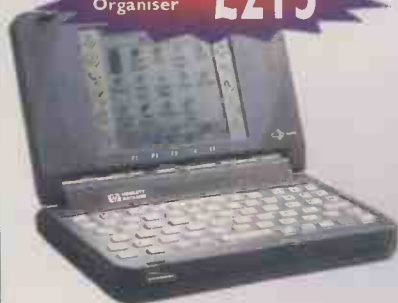
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"Hewlett-Packard OmniGo - the winner"

The Independent on Sunday (1 October 1995) asked expert Adam Banks, editor of Computer Buyer magazine, to test a range of Personal Organisers taking into account how convenient they are to use, their range of functions, and value for money. The winner was the HP OmniGo and was awarded '5 Star' rating. Below is an extract of the evaluation:

"This brand-new computer ... was Adam Bank's top choice. He found it incredibly easy to use because, as well as a keyboard, it has a touch pen which is pointed at items to operate functions. "It makes a big difference just being able to point at the screen."

As an alternative to the keyboard, the screen can be folded back so it becomes a notepad. The organiser can convert this handwritten information into computer text and store it, or store it as an actual facsimile of your handwriting.

The Hewlett Packard has all the usual functions, including a quite advanced finance module, allowing you, for example, to work out the loan rate, and a good calculator. Another bonus was the anti-reflective screen ... He said this was good value for money

- cheaper and better value than the Psion (unless you were going to use all its extra software). Best of all, this model is fun to play with - and unless an organiser is enjoyable, it won't be used."

Technical Specifications

- Includes: Two AA and one CR2032 backup batteries
- Dimensions: 15.3 x 9.5 x 2.6cm
- CPU 80186 16MHz
- Memory 1MB SRDRAM, 3MB ROM; PCMCIA version 2.0 Type II Card Slot
- Display 360 hinge, "rotatable" display, "portrait" and landscape modes; 240 x 240 FSTN LCD



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Appointment book; Phone book; Notepad;

Database; Worldtime

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HP Calculator; Finance tools (12C, TVM, Cash

Flows, statistics, conversions etc); Spreadsheet

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Pen "navigation"; "Digital Ink" across applications;

Graffiti handwriting character recognition; Jotter

("Capture first, organise later"); GEOS Pen-OS

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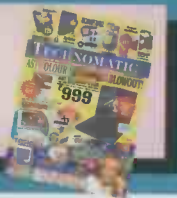
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ASCENTIA 810N

486 DX2 - 66

66Mhz

Colour Notebook

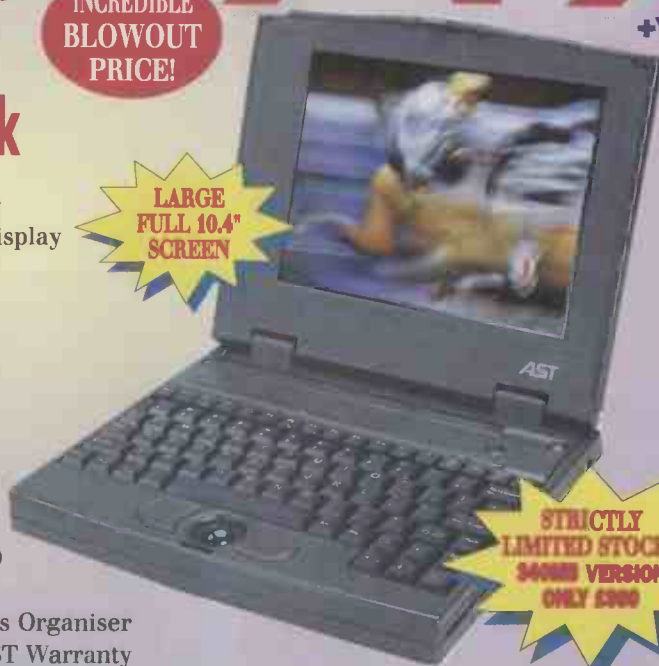
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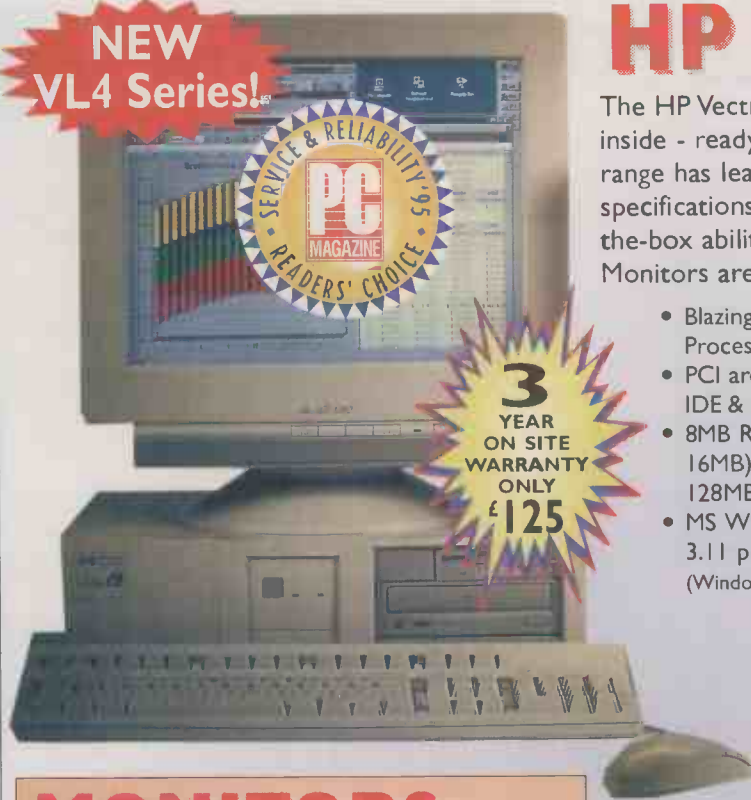
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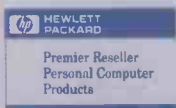
HP Vectra VL PCs

The HP Vectra Performance PCs with Intel Pentium® Processors inside - ready for Microsoft Windows 95. The new Vectra VL4 range has leading edge components, a high level of base specifications to ensure a good level of future-proofing and out-of-the-box ability to run the latest resource-intensive applications. Monitors are optional.

- Blazing Fast Intel Pentium® Processors: 75 to 133MHz
- PCI architecture with local bus IDE & Graphics (1MB RAM)
- 8MB RAM standard (some with 16MB), expandable up to 128MB or 192MB
- MS Windows for Workgroups 3.11 preloaded - network ready (Windows 95 option on 16MB models)
- **VL3 specifications:** 420MB or 840MB HD, ISA/PCI slots, 256KB L2 cache std, Enhanced-IDE on LB, 64bit graphics on LB
- **VL4 specifications:** 540MB or 1GB HD, ISA/PCI slots, 256KB L2 cache std, Enhanced Master IDE on LB, 64 bit graphics on LB, EDO RAM and synchronous cache for faster performance

MONITORS

HP 14" Super	HP17" Ergo Ultra
EURMT0044 VGA col £215	EURMT0290 VGA col £585
HP15" Ergo Ultra	HP 21" Ultra
EURMT0286 VGA col £325	EURMT0298 VGA col £1399



Item	Model	Processor	HDD	RAM/MAX	I/O Slots	Price
EURX0826	Vectra VL3	Pentium 75	420MB	8MB/192MB	2*PCI,2*ISA	£1049
EURCP2795	Vectra VL3	Pentium 75	840MB	16MB/192MB	2*PCI,2*ISA	£1299
EURCP2938	Vectra VL4	Pentium 90	540MB	8MB/128MB	2*PCI,2*ISA	£1139
EURCP2940	Vectra VL4	Pentium 90	1GB, Tower	8MB/128MB	3*PCI,3*ISA	£1285
EURCP2935	Vectra VL4	Pentium 100	540MB	8MB/128MB	2*PCI,2*ISA	£1215
EURCP2942	Vectra VL4	Pentium 100	1GB, Tower	16MB/128MB	3*PCI,3*ISA	£1575
EURCP2934	Vectra VL4	Pentium 120	540MB	8MB/128MB	2*PCI,2*ISA	£1359
EURCP2944	Vectra VL4	Pentium 120	1GB	16MB/128MB	2*PCI,2*ISA	£1679
EURCP2941	Vectra VL4	Pentium 133	1GB	16MB/128MB	2*PCI,2*ISA	£1829
EURCP2985	Vectra VTPentium Pro	1501GB, Tower	16MB/128MB	3*PCI,3*ISA		£2959
				4MB Memory Upgrade for HP Vectra VL3 Series D2690A		£160
				8MB Memory Upgrade for HP Vectra VL4 Series D3646B		£311
				16MB Memory Upgrade for HP Vectra VL4 Series D3647B		£642

HP Small/Home Office PCs



HP VECTRA 500 SERIES PCs

HP Vectra 500 PCs provide you with power, speed, and ready-to-work software (including wordprocessing, database and spreadsheet) together with future-proof hardware and the security of knowing you are backed by HP Support - a 1 year on-site warranty and your own dedicated telephone number to call. Running Windows 95 on 'Fastest-in-class' processors up to the ultra-swift Intel Pentium® 120-MHz, HP Vectra 500 Series PCs are pre-loaded with productivity software such as ClarisWorks 3.0 and Lotus Organiser 2.01.



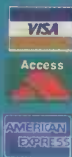
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Item	Model	Processor	HDD	RAM/MAX	I/O Slots	Price	Desktop and tower models Choice of processors Pre-loaded productivity software One year on-site warranty	Quad-speed CD-ROM drive Microphone and stereo speakers Creative Labs 16-bit SoundBlaster solution	14.4 Kbps voice/fax/data modem Fax software/Voice mail/answer machine software Remote support software
EURCP2682	Vectra 510 CL*	486DX2/66	420MB	8MB/64MB	2PCI,2ISA	£979	<p>Classic*(CL) → MultiMedia(MM) → MediaCom(MC)</p> <p>*14" Monitor included</p>		
EURBN0554	Vectra 560 CL*	Pentium 75	540MB Tower	8MB/192MB	3PCI,3ISA	£1069			
EURCP2681	Vectra 512 MM	486DX4/100	420MB	8MB/64MB	2PCI,1ISA	£940			
EURCP2683	Vectra 522 MM	Pentium 75	540MB	8MB/192MB	2PCI,1ISA	£1070			
EURCP2963	Vectra 562 MM	Pentium 75	1GB Tower	8MBEDO/192MB	3PCI,2ISA	£1049			
EURCP2962	Vectra 572 MM	Pentium 90	1GB Tower	8MBEDO/192MB	3PCI,2ISA	£1149			
EURCP2966	Vectra 514 MC	486DX4/100	840MB	8MB/64MB	1PCI,1ISA	£949			
EURCP2965	Vectra 564 MC	Pentium 75	1GB Tower	8MBEDO/192MB	2PCI,2ISA	£1129			
EURCP2964	Vectra 574 MC	Pentium 120	1GB Tower	16MBEDO/192MB	2PCI,2ISA	£1669			
EURMT0448	HP 14" Super VGA Colour Monitor for Vectra 500 Series					£199			

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Model	CPU	RAM	HD	Screen	Price	Model	CPU	RAM	HD	Screen	Price
Aero	4/25	4	250	8" Mono	£735	420CX	4/75	8	420	10.4" TFTcol	£1839
Aero	4/33	4	250	7.8" STNcol	£1039	430C	4/100	8	720	10.4" DScol	£1749
420C	4/75	4	350	10.4" DScol	£1299	430CX	4/100	8	720	10.4" TFTcol	£2099
420C	4/75	8	420	10.4" DScol	£1489						

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The Prolinea is Compaq's best-selling desktop computer. It offers value for money and a broad range of specifications: Intel processors, PCI architecture with LB for Video and dual IDE disk interface, 8MB or 16MB RAM as standard, a choice of case sizes to allow for future expansion capacity and a three year warranty. This position of leadership has been further enhanced by the introduction of the highly affordable entry level Pentium Prolinea 'e' family (optional 256k secondary cache £95).

CPU-HDD	RAM	Case	Price*	CPU-HDD	RAM	Case	Price*
4/66-630	8	3x3	£819	5/120-1GB	16	4x4	£1859
5/90-630	8	3x3	£1199	5/75e-630	8	3x3	£925
5/100-720	16	5x5	£1559	5/100e-630	8	3x3	£1145
5/100-1GB	16	4x4	£1599				

*MONITORS NOT INCLUDED

NEW! LTE 5000 NOTEBOOKS

Model	CPU	RAM	HD	Screen	Price
LTE 5000 5/75	8	510	10.4" DSTNcol	£2665	
LTE 5000 5/75	8	810	10.4" TFTcol	£3369	
LTE 5100 5/90	8	810	10.4" TFTcol	£3689	
LTE 5100 5/90	8	810,CD	10.4" TFTcol	£3979	
LTE 5200 5/120	8	1.35GB	10.4" TFTcol	£4299	

MEMORY UPGRADES

	4MB	8MB	16MB
Contura Aero	£140	£280	-
Contura 410/420/430	£190	£370	£830
LTE Elite	£220	£440	£880
LTE 5000	-	£420	£850
Prolinea (new) 486	£185	£355	£655
DeskPro (new) 486	£185	£355	£655
ProSignia 300/50C	£360	£710	£1465
ProLinea/DeskPro (586)	£370	£710	-

MONITORS

14" SVGA	£209
14" 1024	£250
15: 151FS	£349
17" 171FS	£569
17" QV172	£850
20" QV200	£1570

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3yr OSM	Mono Notebooks	£200
3yr OSM	Colour Notebooks	£300

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THE FUTURE OF NOTEBOOK COMPUTING UNFOLDS

IBM's ThinkPad 701 Series of notebook computers gives the mobile computer user something never before available. When opening the 701, you'll reveal a unique, highly innovative design. This includes a TrackWrite keyboard which automatically unfolds to become an 84-key, full-size keyboard. Even more amazing for its compact size is its 10.4" incredibly crisp and vivid Active-Matrix TFT colour display, which can be viewed from any angle. So much technology, in fact, that PC Magazine (US) also says the 701C "sets new notebook standards for others to match..." These tiny computers are fully-loaded business machines --- ready to handle your toughest computing challenge!

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£1399**

**THINKPAD
701**



ITEM	CPU	HARD DRIVE/RAM	SCREEN	PRICE
TP701CS-DS1	486DX2/50	360MB/4MB	10.4" VGA DSTN	£1399
TP701CS-DS4	486DX4/75	540MB/8MB	10.4" VGA DSTN	£1899
TP701C-TF4	486DX4/75	540MB/8MB	10.4" VGA TFT	£2199
TP701C-TF5	486DX4/75	720MB/8MB	10.4" VGA TFT	£2349
4MB memory upgrade for the ThinkPad 701C, 701CS				£185
8MB memory upgrade for the ThinkPad 701C, 701CS				£410



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910 Standard	4/66,540	4	14"	Desktop	£769
911 Multi-media	4/66,540	4	14"	Desktop	£849
921 Multi-media	4/100,540	8	14"	Desktop	£999

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OTHER THINKPAD NOTEBOOKS

Model	CPU	RAM	Screen	HD	Price
TP345C	4/75	4	10.4" TFT	540	£1750
TP755CX1	5/75	8	10.4" TFT	540	£3299
TP755CX3	5/75	8	10.4" SVGA	1.2GB	£3949
TP755CD7	5/75	8	10.4" TFT	1.2GB,CD	£4049
TP755DV5	5/75	8	10.4" OHP	810,CD	£4999
TP760C	5/90	8	10.4" SVGA	720	£3999
TP760CD1	5/90	8	12.1" SVGA	1.2GB,CD	£5289



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STORAGE & SCANNERS

QUALITY PERFORMANCE

1GB ONLY
£159



Seagate

Seagate Hard Drives

NEW
2GB IDE DRIVES

Fast ATA Interface

3
Year
Warranty

High Performance Drivers for Servers

Medalist™ Family



- Transfer rates up to 16.6MB/sec
- Master/Slave Capability
- Backward compatible with standard IDE

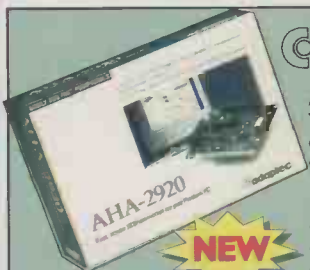


Hawk™ Family

- Fast SCSI-2 Interface
- 5,400 RPM Spindle Speed Performance
- External Transfer Rate of 10MB/Sec.

Item #	Model	Capacity	Cache/	Avg. Seek Time (M/S)	Price
DR455	ST3660A	545MB	120KB	14	£129
EURDR1367	ST51080A	1083MB	128KB	10.5	£159
NEW	ST51270A	1282MB	128KB	10.5	£185
NEW	ST32140A	2113MB	256KB	10.5	£319

Item #	Model	Capacity	Cache/	Avg. Seek Time (M/S)	Warr.	Price
NEW	ST51080N	1080MB	128KB	12.5	3yr	£199
DR4529	ST32430N	2147MB	512KB	9/10.5	5yr	£549
DR4533	ST15230N	4294MB	512KB	9/10.5	5yr	£979



Adaptec The Name in SCSI

AHA-2940 Bus Master PCI-Fast SCSI
The Highest performance I/O technology for demanding desktop and server applications

New 10MIPS PhaseEngine RISC processor, Fast SCSI and bus master DNA support transfer rates of up to 133MB/second across the PCI bus

- Compatible with DOS/Win.NT, OS/2, Netware and UNIX
- Easy to install using the BIOS resident SCSISelect utility
- Supports both 8-bit and 16-bit Wide SCSI devices (AHA-2940UW)

NEW

£199

AHA-2920 PCI-SCSI

Fast, Simple SCSI connection for your Pentium PC

- Easy Plug-and-Play installation of up to 7 SCSI devices
- Fast PCI data transfer for desktop applications
- Extensive set of convenient SCSI applications and tools included with Adaptec EZ-SCSI software

£115

AHA-2940UW	£295
AHA-3940 Dual Channel PCI-SCSI	£295
AHA-1542CPL ASPI Kit ISA-SCSI	£159
AHA-2742T ASPI Kit EISA-SCSI	£239
All cards now ship with EZ-SCSI 4.0 Windows software (Win95 compatible)	



Enhanced IDE-AT32/42 Valuepak

This kit contains everything you need to add up to four Enhanced IDE peripherals, including HDs, CD-ROMs to your ISA bus PC. With only one IDE channel to communicate with a maximum of two IDE hard drives, most ISA PCs cannot fully support an EIDE drive and an EIDE CD-ROM drive over the same channel. To take advantage of EIDE drives over 528MB and the new low-cost EIDE CD-ROM drives, you need the EIDE AT 32 Valuepak. If you also want Floppy support, choose the IDE AT 42. Both include PowerIDE software.



Future Domain EIDE AT32 ValuePak	£45
Future Domain EIDE AT42 ValuePak	£49
Enhanced IDE CD-ROM Kit	
Add a second IDE channel to your ISA bus to take advantage of your EIDE CD-ROM Drive. This kit contains a 16-bit host adapter supporting up to 2 CD-ROM drives, PowerIDE software - a full featured I/O manager for EIDE hard disk and CD-ROM peripherals and an MPC-2 audio cable.	
Future Domain EIDE CD-ROM Kit	£25



NEW TECHNOLOGY - BACKUP SOLUTIONS

T1000e & T1000i

- ★ Easy to connect
- ★ Easy to use
- ★ Data Protection for your PC

External version connects to Parallel Port

Includes full featured Colorado Backup for Windows & Windows 95

FROM
£108

	Travan		Trakker		Jumbo	
	T1000e	T1000i	350	1400	350	350
Parallel	800MB	800MB	340MB	1.3GB	Internal	Internal
Warranty	2yr	2yr	1yr	2yr	1yr	1yr
Tape	C	C	A E	D F	A E	A E
Price	£129	£108	£109	£195	£72	£72
Tapes						
Colorado Formatted 3PK			3M Unformatted	1-PK	5-PK	
A DT-350	£52	B DT-740	£66	E DC2120XL	£14	£66
C DT-1000	£85	D DT-1400	£70	F MC3000XL	£21	£100
				C 3M TR-1 400/800	£24	

HP Colorado T1000i
2 year limited warranty

HP HEWLETT PACKARD SURESTORE DAT DRIVE SOLUTIONS

Protect your most valuable component - your data

- ★ High Performance
- ★ High Capacity
- ★ Wide System Connectivity
- ★ Low Cost Media
- ★ Compatibility
- ★ Reliability

Model	Ext	Int
HP SureStore 2000 2GB (DDS)	£629	£549
HP SureStore 5000 4GB (DDS)	£715	£639
HP SureStore 6000 8GB (DDS-2)	£885	£785
HP SureStore 12000e Autoloader 48GB		£1999

NEW

HEWLETT-PACKARD SCANNERS

The launch of these new models moves the HP ScanJet range up to a new level of convenience and usability. The whole range is now focussed on easily providing working information rather than the mechanical process of scanning and manipulating data.



*Ethernet version

HP ScanJet 4Si

- ★ Fast 15ppm, 300dpi, 256 gray-scales
- ★ Auto OCR & file compression
- ★ High reliability 20 sheet ADF built-in
- ★ Network i/f & 20 user licence for software

★ Easy to use - NetWare 3.1 and 4.0 support
3YR OSM £140



HP ScanJet 4C

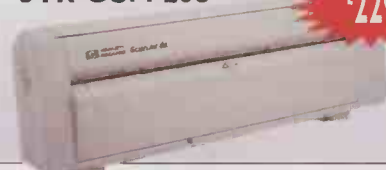
- ★ Hi-performance colour A4 flat-bed
- ★ Improved integration with office apps
- ★ Strong software suite

3YR OSM £140
Auto Doc Feeder £299
Transparency Unit £449

HP ScanJet 4s

- ★ Easy to move around/uses serial port
- ★ Very compact yet A4 capable, mono
- ★ Excellent software capabilities

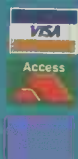
3YR OSM £66



£229

ESSENTIAL FOR MODEM USERS

High speed serial card 2 x 16550 serial ports, £29 (b)
1 x enhanced parallel port, 1 x game port



SALES 0181-205 9558

FAX 0181-205 0190

ADMIN 0181-358 8100

PRICES EXCLUDE VAT @ 17.5%



U.S. Robotics® Sportster 28,800 PCMCIA XJACK

Performance, Reliability, Innovation

- The Sportster 28,800 PCMCIA XJACK fax/data modem delivers performance previously only available on your desktop
- If you use a notebook, the Sportster 28,800 PCMCIA powers down when not in use to preserve your battery
- The unique XJACK connector keeps your computer compact and self-contained by opening out to connect to a standard telephone cable, then locking away again securely - safe from accidental knocks
- QuickLink II data/fax software for Windows and DOS and 1 month's FREE trial to CompuServe
- V34, V32bis, Group III fax, Class 1 s/r, up to V.17 Fax, V.42, V.42bis
- BAPT Approved
- Dimension 85 x 54 x 5mm exc. XJACK connector

NEW!



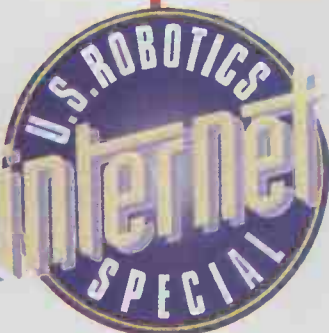
£175

The fastest V34 fax and data communication in a modem the size of a credit card

Sportster Vi 14,400 Sportster 28,800 Desktop + Fax



£99



£155.95

- Personal Voice Mail - 10 mailboxes
- Fax On Demand - up to 100 stored
- Call Discrimination
- Remote voice message retrieval
- Remote Fax retrieval
- Fax/Data/Voice software

Get on-line with the USRobotics Internet Special

With every Sportster Vi, or 28,800 Desktop, you get everything you need to get on-line to the Internet. Pipex Dial trial software One month's free access to the Internet via Dial Trial software One month's free access to CompuServe

- 28,800 performance saves phone and on-line charges
- Exceptional compatibility, connectivity, and throughput
- LED status lights monitor all call phases
- Free comms and Fax software
- Free PC to modem cable

Sportster 14,400 PC Card* £106

*Above spec does not apply to PC card

Sportster Vi 14,400 £99

FREE!

Sportster 28,800 PC Card £156

Sportster 28,800 Desktop £155.95

USR High Speed Dual Serial Port
Essential for all Windows users running at speeds faster than 9,600. Includes a 2 Year Warranty **£55**

APPROVED for Connection to telecommunication systems specified in the instructions for use subject to the Conditions set out in them.

FREE DIRECT TECHNICAL SUPPORT - 5 YEAR WARRANTY

MODEL	SPEED		ERROR CORR.	DATA COMP.	FAX	ASYNCHRONOUS	SYNCHRONOUS	DIAL UP	LEASE LINE	FORMAT		
	VOICE	DATA								PC CARD (EXT)	PC CARD (INT)	POCKET
SPORTSTER 28.8 + FAX	28800 (V34)	19200 (V12 terbo)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SPORTSTER 14.4 + FAX	14400 (V32bis)	9600 (V32)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SPORTSTER Vi 14.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
COURIER V34	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SPORTSTER 28.8 PCMCIA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



Courier Dual Standard V.34 Fax with V.32bis

The Courier is the modem of choice for the communications professional looking for advanced performance at an affordable price. It combines the very latest industry standards with features including dial-back security, class 2.0 fax and unique features such as ASL and QuickConnect.

Courier Dual Standard V.34 Fax External £239
(Inc Free USR High Speed Dual Serial Port)
Courier Dual Standard V.34 PC Card £240

MODEMS



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A **MultiWAREHOUSE** Company
PRICES EXCLUDE VAT @ 17.5%

Telesales Hours
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 Sat: 9am to 5pm
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 Prices valid from 1/12/96

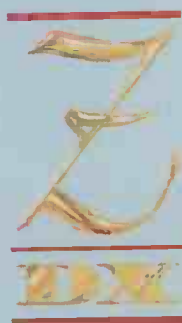
MODEMS

MultiTech Systems Communications Power and Performance

There's a MultiTech modem for all your needs

For your Home and Small business...

When you're On the Move...



The Multimodem ZDX delivers the performance you need. With its V.34 (28,800) or V32terbo (19,200) data rates (depending on the model) and V.17 (14,400) fax rates, the ZDX includes all the features you need to give your home PC a link with the outside world. Combined with MultiTech Systems' 25 years of modem design and manufacturing experience, the ZDX offers outstanding quality, reliability and performance at an incredibly low price.

- MultiModem - MT1932ZDXX V.34 £105
- MultiModem - MT2834ZDXX V.32terbo £149
- MultiModem - MT12834ZPXI V.34 PCCard £145
- External models include PC modem cable

The MultiModem LTI credit card sized data/fax modems for notebook and laptop computers are the perfect way to stay in touch when you're on the move. Designed to meet PCMCIA Socket connectivity standards, these modems can be inserted and removed while the system is up. The MT2834LTI modem offers 28,000 V.34 and V32terbo performance with V.17 & Group 3 for fax. The MT1432LTI offers up to V.32bis and V.17 & Group 3 for fax. Both come with Data and Fax software for Windows.

- MultiModem MT1432LTI £169
- MultiModem MT2834LTI £199

For your corporate environment

The MultiModem II range offers you datacomm speeds up to 115.2K bps (with V.42bis compression) for those applications that demand high throughput. The MT2834s provide full-duplex synchronous or asynchronous datacomm and send/receive V.17 & Group 3 fax over dial up lines, plus 2 or 4-wire leased lines. With Dial-back security, UUCP support and AS400 support for synchronous communications, the MultiModem II range lets you connect to almost anyone easily and securely.

- MultiModem II MT1432BLK £269
- MultiModem II MT2834BLK £339



£339
V.34

MultiTech High Speed Serial Port
 Essential for all Windows users £49
 PC/AT Modem cable 9/25 £8



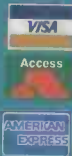
APPROVED for Connection to telecommunication systems specified in the instruction for use subject to the Conditions set out in them.



Part No.	Model No.	SPEED		ERROR CORR.	FAX		ASYNCHRONOUS	SYNCHRONOUS	DIAL-UP	2-4 WIRE LEASED LINE	DIAL - BACK UP	UUCP	AS400 SUPPORT	REMOTE CONFIG	FORMAT			PRICE		
		28,800 - V34	19,200 - V32terbo		14,400 - V32bis	9,600 - V32									V42	MNP 2-4	V42bis		MNP-5	9600
EURMM0103	MT1932ZDXX	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	£105
EURMM0104	MT2834ZDXX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	£149
NEW	MT2834ZPXI-UK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	£145
EURMM0524	MT1432BLK	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	£269
EURMM0489	MT2834BLK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	£339
EURMM0487	MT1432LTI-UK	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	£169
NEW	MT2834LTI-UK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	£199

ESSENTIAL FOR MODEM USERS

High speed serial card 2 x 16550 serial ports, 1 x enhanced parallel port, 1 x game port **£29 (b)**



SALES 0181-205 9558

FAX 0181-205 0190

ADMIN 0181-358 8100

PRICES EXCLUDE VAT @ 17.5%



MODEMS



BT Ignition ISDN Terminal Adapter



Send information and files from one PC to another while talking on the same line. BT Ignition ISDN Terminal Adapter with Fast File Transfer is a simple yet effective integrated communications package. It enables you to exchange and send files easily and at high speed from your PC to other PCs in other locations, access on-line databases and make phone calls or send faxes simultaneously on a single line. No need for extra phone lines. In addition to the BT Ignition ISDN TA, the package includes HyperAccess Lite PC file transfer software, special configuration management software, PC cables, a user guide and mains adapter.

All you need in addition is an ISDN2 line from BT.

- Take advantage of the speed, flexibility and quality of ISDN
- Keep costs to a minimum - National ISDN calls are charged the same as normal telephone lines. High speed transfer rates and data compression ensures that data is transferred efficiently
- Simultaneous Voice and Data - connect normal telephone, answer machine, fax, or modems to the standard telephone sockets provided and transfer data while sending a fax or making a call
- 2 Year warranty

BT Ignition Terminal Adapter £495

THE 28.8 INTERNET SOLUTION



3400 ONLINE INTERNET EVERYTHING YOU NEED TO CONNECT TO THE INTERNET

Personal Computer World
EDITOR'S CHOICE

NEW LOW PRICE £165

3400 PRO DESKTOP MODEM

- ◆ Data: V34 (28.8Kb/s) to V21 (300bps)
- ◆ Fax: 14.4Kb/s to 2.4Kb/s
- ◆ Compression: V42bis & MNP5
- ◆ Correction: V42 & MNP2-4
- ◆ Command Set: Hayes AT compatible

Package includes:

- ◆ Modem
- ◆ Telephone & power cables
- ◆ IBM PC/AT compatible modem cable
- ◆ Windows fax and comms software
- ◆ Easy install disk & user software
- ◆ Motorola telephone support
- ◆ 2 Year Motorola warranty

3400 PRO DESKTOP MODEM £155

3400 ONLINE INTERNET SOLUTION

- ◆ 3400 PRO desktop modem (see left)

- ◆ Internet Software
 - Protocol software
 - File transfer software (FTP)
 - Worldwide web browser s/w
 - E-Mail s/w
 - Newsgroup s/w
- ◆ Internet phone software (Vocaltec)
 - Make cheaper international calls to other Vocaltec users
- ◆ Internet membership option for instant access

3400 ONLINE INTERNET SOLUTION £165



APPROVED for Connection to telecomm. systems specified in the instructions. Use subject to the Conditions of Use on them.

EASY INSTALL
INCLUDES ANIMATED INSTRUCTION DISK



NEW! Voice and Internet Range

FROM £99

Accura 288 V.34 + Fax Internet Kit Deluxe



Introducing the new Internet-based solutions from Hayes - the Accura 28.8 Internet Kit and the

Accura 144 Internet Kit Deluxe. In addition to the best in low cost fax modems, these kits include everything you need to get 'on-line' and send e-mail as well as access remote database and information services such as Internet or CompuServe. The kits come complete with Internet software for Windows from NetManage, up to 2 months FREE trial connection time to the Internet with Servelan, 50% discount on other Internet software, an Introductory guide to the Internet, Hayes Smartcom FAX for Windows, Smartcom Windows LE comms software, serial cable, dual telephone adaptor and telephone cable. You also get CompuServe software and membership for 1 month along with 10.5 hours of usage credit.

Optima 288 Business Modem Voice/Data/FAX

TWICE THE SPEED OF OTHER 28.8 MODEMS!

Now you can support data throughput rates of up to 230,400 bit/s! Hayes AutoSync facilitates micro to mainframe communications, without the need for any additional hardware. Send and receive faxes plus FAX-On Demand, communicates by voice, and have tighter security support with Caller ID and password encryption. Configure your modem or access your quality message system's voice mail remotely. And Flash ROM upgrades make adding future enhancements to your modem fast, flexible and inexpensive. The Optima 288 Business Modem is the most practical modem for your business.



Hayes Authorised Dealer	VOICE	FAX ON DEMAND	FAX SEND	DATA RATE		COMPRESSION RATIO	ERROR CORRECTION	ASYNCHRONOUS	SYNCHRONOUS	INTERNET	PART NUMBER	PRICE
				28,800	14,400							
ACCURA 288 VDF	✓	✓	✓	✓	✓	4:1	✓	✓			MM3000	£179
ACCURA 288 + Internet Delux			✓	✓	✓	4:1	✓	✓		✓	NEW	£159
ACCURA 288			✓	✓	✓	4:1	✓	✓			MM4743	£149
ACCURA 144 + Internet			✓	✓	✓	4:1	✓	✓		✓	NEW	£99
OPTIMA 288 VDF	✓	✓	✓	✓	✓	8:1*	✓	✓	✓		DMD1546	£369
OPTIMA 288			✓	✓	✓	8:1*	✓	✓	✓		DMD1367	£315
OPTIMA 144 VDF	✓	✓	✓	✓	✓	8:1*	✓	✓	✓		DMD1545	£275
OPTIMA 288 PCMCIA			✓	✓	✓	8:1	✓	✓	✓		EURMM0544	£195

*COMPRESSION OF 8:1 AVAILABLE WITH MATCHED PAIR IE OPTIMA AT EACH END

HIGH SPEED SERIAL CARDS	
ESP II at Single Port Serial I/F EUREX0212	£59
ESP II at Dual Port Serial I/F EUREX0213	£89



TECHNOMATIC

A **WARDEN** USE Company

PRICES EXCLUDE VAT @ 17.5%

Telesales Hours

Mon-Fri: 8am to 7pm
Sat: 9am to 5pm
CALL FOR YOUR FREE CATALOGUE TODAY
Prices valid from 1/2/96

MODEMS

RACAL ISDN

Racal - Datacom

The UK Market Leader in ISDN Solutions

Superb quality and reliability with outstanding value. The DAP 6200's powerful features and astonishing speed bring significant benefits and amazingly low price! Whether you're accessing the Internet, communicating with your office or into large file transfer and you believe time is money but thought ISDN was expensive. **THINK AGAIN!**

The Racal Datacom Solution

ISDN offers direct access to the core of the telephone network. Standard modems utilise older analogue technology with maximum speeds of 28.8bps. The Racal range of ISDN products utilise leading edge digital technology allowing you to directly access the digital telephone network which can operate at up to 64Kbps (more with compression). The net result is considerable cost savings.

	Typical modem	Typical modem	Racal DAP6300 modem
Speed	14.4Kbps	28.8Kbps	115.2Kbps
File Transfer	43 minutes	23 minutes	10 minutes
Call Charge	£3.53	£1.81	£0.80
Annual Call Charge	£1,771	£907	£401
Typical Annual Line Rental	£132	£132	£336
Total Annual Charge	£1,903	£1,039	£737
Annual Savings by using the Racal DAP 6300	£1,166	£302	

DAP External ISDN Adaptor

- Data+ Analogue or Data Only Model
- High Speed v24 port
- Plug and Play
- Sub second connection time
- Bundled with Trans Send Software
- Calling line identification
- Multiple Subscriber numbering



£399

Data In/Out to COM port from RACAL DAP 6200 - up to 64 Kbps. Connects in less than one second!

ISDN In/Out



At the same time use a standard telephone or fax machine on one of the analogue ports. Does not require ISDN telephone handset.



Telephone or Fax



- Fast Internet Access
- Save **£££**
- Plug and Play makes ISDN easy

X-TOL PCMCIA ISDN

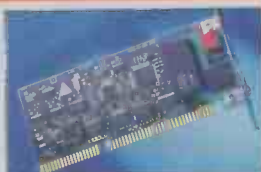
- PCMCIA Type 2
- Plug and Play
- Basic rate ISDN (2B+D)
- 128kbps data throughput
- Windows 95, NT 3x (TA only)



X-TOL PCMCIA £450

X-TOL ISA

- Windows 95, NT 3x (TA Only)
- 128Kbps data throughput
- Plug and Play
- No memory Space
- 1/2 Card ISA and EISA
- Sync and Async PPP



X-TOL ISA £250

ISDN Applications

- Internet Access ✓
- E-Mail Access ✓
- On-Line Teleworking ✓
- Large File Transfer ✓
- Remote Network Access ✓
- Voice and data ✓
- Video Conferencing ✓



V34 + FAX £195

Benefits of Psion Dacom Gold Card:

- ◆ Add fax to your notebook
- ◆ Real remote LAN access
- ◆ UK Market Leader
- ◆ Free lifetime technical support
- ◆ High-Speed file transfer
- ◆ Flash Upgrades available
- ◆ Guaranteed compatibility

Gold Card V34 + Fax £195(a)

- ◆ Ratified 28.8Kbps - The ultimate tool for intensive data transfer and remote LAN connectivity applications. Twice the speed of V32bis, up to 115.2Kbps. eg 200Kbyte file-15.6 second transfer time

Gold Card V32bis + Fax £157(a)

- ◆ 14.4Kbps - Europe's leading PCMCIA Data + Fax modem, ideal for medium usage communications, BBS access and fax applications

"If you want a top of the line portable data communications solution, this product is the best you can get" - PC Magazine (January 1995)

Automatic fax and data switch Fax Friend

Fax Friend is a user friendly device which allows you to connect a fax/modem, telephones (even cordless), and answering machines to a single telephone line. Plus, it provides remote control of your faxes or data from any telephone extension. Fax Friend, the UK's top selling fax switch, installs in minutes with no rewiring required - just plug into any existing telephone socket - and saving you the cost of installing a dedicated line for your fax or modem. Can be fitted into a single line or multi-line PBX system, with or without direct dial interface.

Fax Friend £49.95
When purchased with any modem £45

IDEAL FOR SHARING A MODEM & TELEPHONE



LOW LOW COST SOLUTIONS!

International Modem Adapter Kit

This 12 piece kit gives access to over 150 national telephone systems worldwide including most of the Far and Middle East, Western Europe, Scandinavia, America and Canada. Simple connection for all types of modem. All connections are modular and are simply plugged together. Kit comprises of 12 pieces plus travel bag and user guide with Helpline number.



NEW

£42.50
Ideal for the travelling Notebook user

**CALL NOW
FOR YOUR FREE 80
PAGE CATALOGUE**



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FAX 0181-205 0190

ADMIN 0181-358 8100

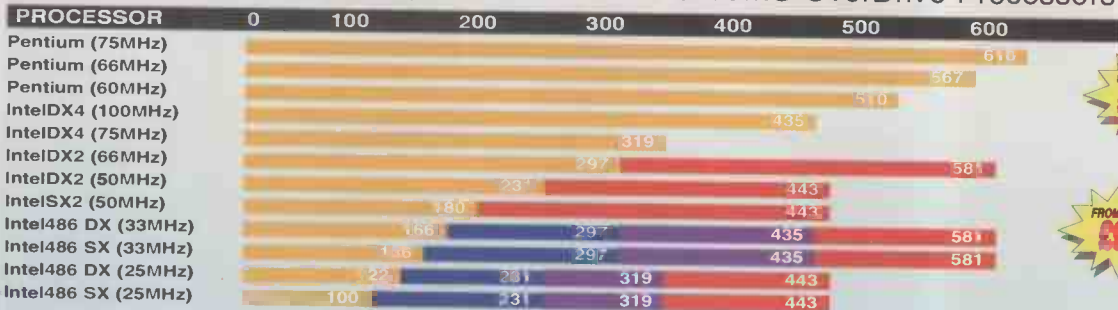
PRICES EXCLUDE VAT @ 17.5%



Run Your 486 Faster With An Intel OverDrive® Processor

UPGRADES

iCOMP Index for IntelDX2™, IntelDX4™ and Pentium® OverDrive Processors



Note: Intel486 CPU-based system supporting the write-through mode will yield approximately 15% lower iCOMP index ratings compared to PC's supporting write-back when upgraded with the Pentium OverDrive Processor. The iCOMP index is an Intel microprocessor "horsepower" rating. It is a composite of selected performance measurements from SPEC 92, PC Bench *7 and Whetstone.

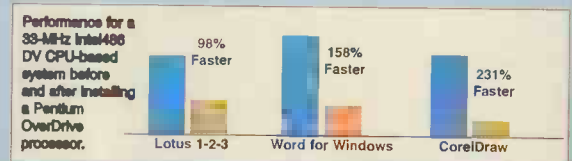
Source: iCOMP; A Simplified Measure of Relative Intel Microprocessor Performance, Intel Corp., 1992 *Indicated names are Trademarks of other companies.

Legend:
■ CPU Only
■ CPU with IntelDX4 OverDrive Processor
■ CPU with IntelDX2 OverDrive Processor
■ CPU with Intel Pentium OverDrive Processor

ITEM NO	DESCRIPTION	SOCKET NEEDED	PRICE
EUREX2474	INTEL PENTIUM® OVERDRIVE 83MHZ*	N/A	£179
EUREX1248	INTEL PENTIUM® OVERDRIVE 63 MHZ*	N/A	£125
EUREX0003	INTEL DX2 OVERDRIVE 25-50 MHZ	Yes	£75
EUREX0004	INTEL DX2 OVERDRIVE 25-50 MHZ	No	£75
EUREX0006	INTEL DX2 OVERDRIVE 33-66 MHZ	Yes	£95
EUREX0005	INTEL DX2 OVERDRIVE 33-66 MHZ	No	£95
EX6330	INTEL DX4 OVERDRIVE 25-75 MHZ	Yes	£99
EX6332	INTEL DX4 OVERDRIVE 25-75 MHZ	No	£99
EX6339	INTEL DX4 OVERDRIVE 33-100 MHZ	Yes	£129
EX6331	INTEL DX4 OVERDRIVE 33-100 MHZ	No	£129

Intel Pentium® OverDrive Processor

The Intel Pentium® OverDrive processor, with advanced microprocessor technologies, will make your software run faster than ever before. It's our most powerful CPU upgrade for boosting the performance of your existing Intel 486SX or DX and IntelSX2 or IntelDX2 processor-based PCs. With superior upgrade option features, you'll experience a significant performance gain across a wide variety of software applications. Just install an OverDrive processor in place of your current i486 CPU, or plug it into an upgrade socket, depending upon your system design.



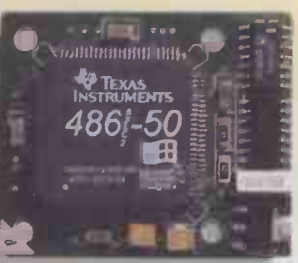
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Make-it Processor upgrades for 286, 386 & 486 PC's

486 ➔ 486 DX4

Triple the performance of your 486 with clock tripling technology. This upgrade will triple the speed of a 20, 25 or 33 MHz PC and will upgrade a DX2 66MHz to a DX4 100 MHz. This kit comes complete with extractor tool and cooling fan. Simple, highly compatible, processor replacement that will upgrade both SX and DX 486 processors to a full powerful DX4 with the latest in caching technology for the ultimate performance enhancement.

Make-it 486 SX/DX to DX4
EUREX0902 £145



386 ➔ 486

Convert your 386 PC to a full powered 486. Upgrade with a simple push in chip for the power to run software that currently runs too slow or not at all. The Make-it 486 comes with a full 8K internal cache and adds a 486 instruction set along with clock doubling technology for the highest performance increases. Will upgrade 16, 20 & 25 MHz PC's (doubling) and 33 MHz SX & DX PC's (non-doubling)

Make-it 386SX to 486
EUREX0901 £99
 Make-it 386DX to 486
EUREX0900 £99

286 ➔ 486

Revitalise your 286 PC with this simple processor replacement that clock doubles the speed of the current processor, adds a 1K internal cache and a 486 instruction set.

Make-it 286 to 486
EX6196 £99
 Make-it 286 to 486 + 487 math copro
EX6197 £145

If your 286 processor has a retailing clip you will require an LCC adapter. **EX6223 £45**



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MEMORIES

Matched Memories for Computers



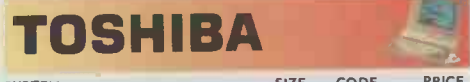
SYSTEM	SIZE	CODE	PRICE
THINKPAD 700,700C,720,720C,750,755	4MB	EURMY1017	£169
	8MB	EURMY1018	£299
PS/2 CL57SX	4MB	EURMY1019	£159
	8MB	EURMY1020	£259
THINKPAD 330/340/355/360/730C/370	4MB	EURMY1012	£149
	8MB	EURMY1013	£275
	16MB	EURMY1014	£479
THINKPAD 701C SERIES,701CS SERIES	4MB	EURMY1015	£89
	4MB	EURMY0998	£149
	8MB	EURMY1000	£285
	16MB	EURMY1001	£459
PS/2 L40SX,PS/NOTE 182,PS/NOTE 2141,N82	2MB	EURMY1005	£75
	4MB	EURMY0974	£125
THINKPAD 350/C,710T	8MB	EURMY0981	£235
	16MB	EURMY1001	£459
PS/2 56/57/76/77 SERIES, PS/2 90/95 SERIES	2MB	EURMY1005	£75
	4MB	EURMY0974	£125
PS/2 SERVER 85,PS/2 E SERIES	8MB	EURMY0981	£235
PS/2 EXP-BOARD FOR PS/2 70 & 80 SERIES	2MB	EURMY1030	£189
ADD ON	4MB	EURMY1029	£235
ADD ON	2MB	EURMY0988	£85
	4MB	EURMY0957	£139
PS/2 57SLC,57SX,M57SLC,56SLC/LS,56SX,LS	2MB	EURMY1005	£75
	4MB	EURMY0974	£125
	8MB	EURMY0981	£235
PS/VP 6381-FY1/FYE/KYO/MYO/MY1/VYO,433DX/SI	4MB	EURMY1028	£109
	16MB	EURMY1025	£399
PS/VP 6382-C20/C21/C41/C2A/C4A/F3C/K3C/M5C/W5C/M5D/W5D (C/K/F/W)	4MB	EURMY0974	£125
	8MB	EURMY0981	£235
	16MB	EURMY1025	£399
PS/VP 6384 FIM/W SERIES (EXCEPT F00/F20/F23/F40/F43/M00/M20/M40/M43/M50/M53/W40/W53)	4MB	EURMY0974	£125
	8MB	EURMY0981	£235
	16MB	EURMY1025	£399
PS/VP 6384 F00/F20/F23/F40/F43/M00/M20/M40/M43/M50/M53/W40/W53	4MB	EURMY0965	£134
	16MB	EURMY0967	£478
PS/VP C00/C2A/C20/C4A/C40	2MB	EURMY1002	£75
	4MB	EURMY0957	£135
	8MB	EURMY1009	£235
PS/1 2133-G43/W43/S43/174/154, 2155-G44/W44/S44	4MB	EURMY0965	£134
	16MB	EURMY0967	£478
PS/1 2133-G11/G13/W11/W13/811/S11/S13/111/451/461/471/483/551, 2168-452/473/493/573, 2155-G14/W14/S14	1MB	EURMY0970	£39
	2MB	EURMY1002	£75
	4MB	EURMY0974	£125
	8MB	EURMY0981	£235
PS/1 2133-571/642/652, PS/1 2168-574/584/594/653/873	4MB	EURMY0996	£109
	8MB	EURMY0997	£215
PS/1 2155-582/592/593	16MB	EURMY1239	£389
PS/1 PRO 386SX 2123 (EXCEPT E31/E81)	2MB	EURMY1005	£75
	4MB	EURMY0974	£125
	8MB	EURMY0981	£235
APTIVA	4MB	EURMY1245	£109
	8MB	EURMY1249	£215
HURDLA 486 SERIES	4MB	EURMY0698	£134
SPRINTA 486DX/DX2/SX	16MB	EURMY0699	£478
SPRINTA II	4MB	EURMY0701	£109



SYSTEM	SIZE	CODE	PRICE
ASCENTIA 800N,810N	4MB	EURMY1333	£155
	8MB	EURMY1334	£289
	16MB	EURMY1339	£499
ASCENTIA 900N, 910N	4MB	EURMY1501	£145
	8MB	EURMY1502	£299
	16MB	EURMY1503	£489



SYSTEM	SIZE	CODE	PRICE
CONTURA 3/20,3/25,3/25C	2MB	EURMY0818	£75
	4MB	EURMY0819	£135
	8MB	EURMY0820	£289
CONTURA 400/410 420/430 SERIES	4MB	EURMY0808	£145
	8MB	EURMY0809	£269
CONTURA 4/25,CX,EX	4MB	EURMY0821	£135
	8MB	EURMY0822	£249
	16MB	EURMY0823	£549
CONTURA AERO	4MB	EURMY0830	£125
	8MB	EURMY0831	£259
CONCERTO ,LTE ELITE	4MB	EURMY0824	£149
	8MB	EURMY0825	£269
	16MB	EURMY0826	£569
LTE LITE 4/25,4/25C, 4/25E,4/33C	4MB	EURMY0802	£145
	8MB	EURMY0803	£269
	16MB	EURMY0804	£539
LTE 386 LITE/20,25,25C,25E	2MB	EURMY0768	£89
	4MB	EURMY0780	£169
	8MB	EURMY0781	£289
DP 3/25i, 3/33i, 4/25iS, 4/33i,4/66i	1MB	EURMY0782	£39
	2MB	EURMY0760	£75
	4MB	EURMY0772	£125
	8MB	EURMY0812	£235
DP 386/33L,486/25/33L/50L, SYSTEM PRO 486/E SERIES	2MB	EURMY0751	£89
	8MB	EURMY0811	£285
	32MB	EURMY0817	£1175
DESKPRO M & SP/LT SERIES (EXPBOARD) (NOT LT486/33)	0MB	EURMY0835	£99
	2MB	EURMY0836	£174
	4MB	EURMY0837	£224
	8MB	EURMY0838	£334
NEW PROLINEA 4/50,4/66,4/100	4MB	EURMY0827	£109
	8MB	EURMY0828	£215
	16MB	EURMY0839	£389
NEW DP 4/66,4/100	4MB	EURMY0827	£109
	8MB	EURMY0828	£215
	16MB	EURMY0839	£389
PROLINEA 3/25S,325ZS	2MB	EURMY0800	£68
	8MB	EURMY0801	£238
PROLINEA 4/25S,4/33,4/50, 4/66,CDS,PRESARIO	1MB	EURMY0784	£39
	2MB	EURMY0786	£75
	4MB	EURMY0790	£125
	8MB	EURMY0795	£235
PROLIANT 1000 486DX2-66	4MB	EURMY0790	£125
	8MB	EURMY0795	£235
PROLINEA MT 4/33S,MT 4/50, MT 466	1MB	EURMY0784	£39
	2MB	EURMY0786	£75
	4MB	EURMY0790	£125
	8MB	EURMY0795	£235
PROSIGNIA PC SERVERS	4MB	EURMY0772	£125
	8MB	EURMY0812	£235
	16MB	EURMY0805	£399
P486;P486/66;P486C;P486C/ 66 PORTABLES	2MB	EURMY0760	£75
	4MB	EURMY0772	£125
	8MB	EURMY0812	£235
DESKPRO XE 433S,450,466	2MB	EURMY0760	£75
	4MB	EURMY0772	£125
	8MB	EURMY0812	£235
PROLINEA MT	2MB	EURMY0786	£75
	4MB	EURMY0790	£125
	8MB	EURMY0795	£235
	16MB	EURMY0805	£399
PROLINEA NET I-25S/E/RT	2MB	EURMY0786	£75
	4MB	EURMY0790	£125
	8MB	EURMY0795	£235
PRESARIO CDS 633,CDS 860,660	4MB	EURMY0790	£125
	8MB	EURMY0795	£235
	16MB	EURMY0805	£399



SYSTEM	SIZE	CODE	PRICE
SATELLITE PRO 400, PORTEGE 610C(EDO)	8MB	EURMY1309	£359
	16MB	EURMY1308	£699
	32MB	EURMY1462	£1359
T2000/SX/SXE,T2200SX,T1800, T1850,T1850C,T1000LE	2MB	EURMY1142	£79
	4MB	EURMY1146	£145
	8MB	EURMY1176	£269
T2100 SERIES,T2150	4MB	EURMY1172	£145
	8MB	EURMY1173	£279
	16MB	EURMY1304	£559
T3200SX	2MB	EURMY1157	£75
	4MB	EURMY1153	£139
T3200SXC	2MB	EURMY1174	£75
	4MB	EURMY1158	£139
T2400/T3600/T2450	4MB	EURMY1165	£149
	8MB	EURMY1168	£249
	16MB	EURMY1170	£519
T3400	4MB	EURMY1165	£149
	8MB	EURMY1168	£249
	16MB	EURMY1169	£499
T4400C/SX/SXC,T6400 T6600 SERIES	2MB	EURMY1144	£85
	4MB	EURMY1149	£159
	8MB	EURMY1177	£289
	16MB	EURMY1159	£539
T4500,T4600,T1900C,1910 1950C,1960,T4700 SERIES	4MB	EURMY1161	£159
	8MB	EURMY1163	£279
T4800,4850 SERIES,DYNAPAD T200	16MB	EURMY1164	£529
TS200/TS200C/T8500	2MB	EURMY1154	£85
	8MB	EURMY1178	£365



SYSTEM	SIZE	CODE	PRICE
VECTRA 486 VL	1MB	EURMY0892	£39
	2MB	EURMY0894	£75
	4MB	EURMY0899	£125
	8MB	EURMY0902	£235
VECTRA VL2/VL3	4MB	EURMY0916	£109
	8MB	EURMY0917	£215
	16MB	EURMY0918	£389
VECTRA 486-25N/33N/50N/66N NETSERVER LE SERIES (486XM SERIES 32BIT)	2MB	EURMY0894	£75
	4MB	EURMY0899	£125
	8MB	EURMY0902	£235
	16MB	EURMY0907	£399
OMNI BOOK 530,600C	4MB	EURMY1318	£169
	8MB	EURMY1319	£319



SYSTEM	SIZE	CODE	PRICE
320SX,325P,325D,333D/P	4MB	EURMY0849	£125
486P/66/50/33/25/20/16, 486D/66/50/33/25/20D/16	1MB	EURMY0847	£39
	4MB	EURMY0849	£125
	16MB	EURMY0852	£399
PERFORMANCE ME SERIES	4MB	EURMY0862	£125
	8MB	EURMY0863	£248
	16MB	EURMY0864	£399
	32MB	EURMY0865	£798
PERFORMANCE T/L/M SERIES, 466i,433/Si	4MB	EURMY0860	£109
	16MB	EURMY0861	£389
POWERLINE 466/450/433/425/ 420 TE/DE, DE/25E,466SE/DSA	2MB	EURMY0843	£78
	4MB	EURMY0844	£148
	8MB	EURMY0845	£248
	16MB	EURMY0846	£468
	32MB	EURMY0853	£798
325D/325P/333/333D/333P 433/433P	1MB	EURMY0847	£39
	4MB	EURMY0849	£125
320SX,325P,325D,333D/P	4MB	EURMY0849	£125



Pentium® Motherboard designed and made by Intel supports

EDO & FPM memory

Advanced EV + CPU + 256K cache

P90MHz	EUREX2437	£445
P100MHz	EUREX2439	£465
P120MHz	EUREX2436	£519
P133MHz	EUREX2524	£649

Zappa + CPU + 256K cache

P75MHz	EUREX2525	£299
P90MHz	EUREX1095	£379
P100MHz	EUREX2541	£399
P120MHz	EUREX2523	£449

Order any of these Motherboards and save £20 on (2x4MB) and £30 on (2x8MB) memory

All Memories on pages 13 & 14 are 3rd party memories from reputable manufacturers such as Samsung, Toshiba, TI, Fujitsu, Transcend.

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SALES 0181-205 9558
FAX 0181-205 0190
ADMIN 0181-358 8100

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MEMORIES

Code	Configuration	Price
30 PIN PARITY SIMMS		
EURMY1218	1MB X 9-60NS 9 CHIP	£31.00
EURMY1219	1MB X 9-60NS 3 CHIP	£31.00
EURMY1221	1MB X 9-70NS 9 CHIP	£31.00
EURMY1222	1MB X 9-70NS 3 CHIP	£31.00
EURMY1224	1MB X 9-80NS 9 CHIP	£34.00
EURMY1225	1MB X 9-80NS 3 CHIP	£31.00
EURMY1229	4MB X 9-60NS	£119.00
EURMY1230	4MB X 9-70NS	£115.00
CACHE RAM		
EURMY1189	32K X 8-20NS (28PIN)	£7.00
EURMY1190	32K X 8-15NS (28PIN)	£6.90
EURMY1192	128K X 8-20NS (32PIN)	£26.00
EURMY1196	8K X 8-20NS (28PIN)	£115.00
DRAM		
EURMY1194	1MB X 1-70NS (DIL)	£4.90
EURMY1208	256K X 4-60NS (DIL)	£5.75
EURMY1210	256K X 4-70NS (DIL)	£5.40
EURMY1212	256K X 16-70NS (SOJ)	£22.00
EURMY1213	256K X 16-80NS (SOJ)	£18.00

SIMMS!



**AS LOW
AS £31**

Code	Configuration	Size	Price
PARITY SIMMS			
EURMY1232	256K X 37-70NS	1MB	£45.00
EURMY1234	512K X 36-70NS	2MB	£79.00
EURMY0416	1MB X 36-60NS	4MB	£125.00
EURMY1235	1MB X 36-70NS	4MB	£119.00
EURMY1236	1MB X 36-80NS	4MB	£125.00
EURMY1237	2MB X 36-70NS	8MB	£229.00
EURMY1238	4MB X 36-60NS	16MB	£429.00
EURMY1239	4MB X 36-70NS	16MB	£399.00
EURMY1241	8MB X 36-70NS	32MB	£839.00
NON PARITY SIMMS			
EURMY1242	512K X 32-70/80NS	2MB	£79.00
EURMY1244	1MB X 32-60NS	4MB	£109.00
EURMY1245	1MB X 32-70NS	4MB	£99.00
EURMY1248	1MB X 32-80NS	4MB	£109.00
EURMY1250	2MB X 32-70NS	8MB	£215.00
EURMY1249	2MB X 32-70NS	8MB	£199.00
EURMY1253	4MB X 32-60NS	16MB	£399.00
EURMY1252	4MB X 32-70NS	16MB	£369.00
EURMY1293	8MB X 32-60NS	32MB	£799.00
EURMY1254	8MB X 32-70NS	32MB	£789.00
EURMY1336	1MB X 32-60NS	4MB EDO	£109.00
EURMY12255	1MB X 32-70NS	4MB EDO	£109.00
EURMY1332	2MB X 32-60NS	8MB EDO	£229.00
EURMY1262	2MB X 32-70NS	8MB EDO	£229.00

Expand Your Computer's Memory Beyond What It Normally Can Offer

The MY5616, 17 expands a single 72 pin socket into two 72 pin sockets. Great for memory expansion when all motherboard SIMM slots are already used. Also allows lower density, and often cheaper, SIMMs to be used in PC motherboards with just a few SIMM slots. Maps one or two 256KB, 1, 4 or 16MB x 36 SIMMs into one 72 pin slot.

MY5616: Pin 1 on left (front) £65 MY5682: Adapt (4) 30 pin to (1) 30 pin (F) £35
MY5617: Pin 1 on right (back) £65 MY5683: Adapt (4) 30 pin to (1) 30 pin (B) £35



**As Low As
£35**

Use Old Memory Chips in Your New Computer

The MY5612, 13 adapts four 30 pin SIMMs into one 72 pin SIMM socket. Ideal for the user who wants to upgrade and reuse and reuse 30 pin SIMMs. Four 256KB, 1, 4 or 16MB x 9 30 pin SIMMs map into one 1, 4, 16 or 64MB x 36 bit equivalent respectively.

MY5612: Pin 1 on left (back) £45
MY5613: Pin 1 on right (front) £45
MY5614: Adapt (8) 30 pin to (1) 72 pin (B) £65
MY5615: Adapt (8) 30 pin to (1) 72 pin (F) £65
MY5679: Adapt (4) 72 pin to (1) 72 pin (B) £69
MY5678: Adapt (4) 72 pin to (1) 72 pin (F) £69



**As Low As
£45**

Matched Memories for Printers



SYSTEM	SIZE	CODE	PRICE
LASERJET IIP/IIIP+/IIII/IIIP/IIIP	1MB 2MB 4MB	EURMY0929 EURMY0931 EURMY0941	£59 £95 £165
LASERJET III/IIID	1MB 2MB 4MB	EURMY0928 EURMY0935 EURMY0940	£65 £99 £169
DESIGNJET 200/600/650C	4MB 8MB	EURMY0939 EURMY0945	£125 £235
PAINTJET XL300 (EXP. BOARD REQUIRED)	1MB 2MB 4MB 8MB	EURMY0924 EURMY0932 EURMY0936 EURMY0942	£39 £75 £125 £235
EXP. BOARD	0MB	EURMY0950	£69
LASERJET 4I/4M/4SI/4SIMX/5SI IIISI, DESKJET 1200C	1MB 2MB 4MB 8MB	EURMY0924 EURMY0932 EURMY0936 EURMY0942	£39 £75 £125 £235
LASERJET 5L	1MB 2MB 4MB	EURMY1328 EURMY1329 EURMY1327	£59 £95 £159
LASERJET 4L	1MB	EURMY0927	£49
LASERJET 4P/4MP/4+4M+4V/4MV/5 V/5MV/5P/5MPC/COLOR/DJ1600C/CM	1MB 2MB 4MB 8MB	EURMY0926 EURMY0934 EURMY0938 EURMY0944	£39 £75 £119 £215
NOT FOR LJ4P/MP/5P/5MP	16MB	EURMY0946	£389
DESKJET 500,500C,510,520,550C	256KB	EURMY0951	£35



SYSTEM	SIZE	CODE	PRICE
JX-9500/EH/9700	1.5MB 4MB	EURMY1123 EURMY1124	£119 £195
JX-9400,9460,9600,9600PS, JX-9660,9700E	1MB 2MB 4MB	EURMY1125 EURMY1126 EURMY1127	£65 £99 £179
brother The future at your fingertips			
HL4/PS/V/E	1MB 2MB 4MB	EURMY0721 EURMY0727 EURMY0729	£79 £125 £185
HL6 SERIES	2MB 4MB	EURMY0722 EURMY0723	£119 £195
HL8-D/E/V	1MB 2MB	EURMY0726 EURMY0728	£79 £115
HL10-V/DV/PS/DPS	2MB 4MB	EURMY0730 EURMY0731	£89 £149
HL10-H	1MB 2MB 4MB 8MB	EURMY0732 EURMY0733 EURMY0734 EURMY0735	£39 £75 £109 £215



F1200S/2000S/2200S/3000A/3300	1MB 2MB	EURMY1049 EURMY1055	£79 £115
ADD ON	1MB	EURMY1050	£65
FS1500A (ECOSYS) EXP. BOARD	1MB	EURMY1047	£79
ADD ON	1MB	EURMY1050	£65



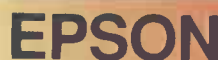
LP8	1MB 2MB 4MB	EURMY1130 EURMY1135 EURMY1138	£79 £115 £195
LS-5/5EX/5TT EXP. BOARD	1-5MB 2-6MB	EURMY1131 EURMY1136	£76 £115
ADD ON	1MB	EURMY1132	£55
ADD ON	2MB	EURMY1133	£95



SYSTEM	SIZE	CODE	PRICE
KXP-4440/5410	1MB 2MB 4MB	EURMY1106 EURMY1107 EURMY1108	£72 £19 £193
ADD ON	1MB	EURMY1104	£47
ADD ON	2MB	EURMY1105	£84
KXP-4400, KXP-5400 2MB ONLY	1MB 2MB 4MB	EURMY1090 EURMY1091 EURMY1092	£65 £95 £175



OL400	1MB 2MB 0MB	EURMY1061 EURMY1062 EURMY1069	£69 £99 £29
OL400/EX,410E/EX	1MB 2MB 4MB	EURMY1063 EURMY1064 EURMY1065	£69 £109 £179
OL410,OL810	1MB 2MB 4MB 0MB	EURMY1066 EURMY1067 EURMY1068 EURMY1070	£75 £115 £185 £32
OL800,OL820	1MB 2MB 4MB 0MB	EURMY1072 EURMY1073 EURMY1074 EURMY1071	£69 £109 £179 £28
OL830,OL840	2MB	EURMY1075	£89



EPL-5000/5200	1MB 2MB 4MB	EURMY0872 EURMY0877 EURMY0885	£55 £89 £210
EPL 5600, 1600, 9000	1MB	EURMY1345	£39
EPL 5200+, 3000, 1100, 1400	2MB 4MB	EURMY0878 EURMY1358	£75 £109
EPL8000/EPL8100	1MB 2MB 3MB 4MB	EURMY0874 EURMY0880 EURMY0883 EURMY0886	£70 £111 £155 £205



LBP-8II, 8IIR, 8IIT	1MB 2MB 4MB	EURMY0737 EURMY0743 EURMY0746	£65 £95 £159
LBP-8IIII/IIII+/IIII	1MB 2MB 3MB	EURMY0738 EURMY0744 EURMY0745	£99 £129 £169
LBP-8IV,LBP-4U,LBP-4I	1MB 4MB 8MB	EURMY0739 EURMY0740 EURMY0741	£39 £109 £215



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Contains: Quad speed CD-ROM drive, SoundBlaster 16

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This awesome multimedia kit is designed specifically for the serious games player. It features the hottest CD-based games available today. The kit has cutting edge multimedia technology with:
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SoundBlaster 32 PnP £109

Plug-and-Play Wave-table synthesis for your PC

SoundBlaster 32 PnP is another plug-and-play Wave-table synthesis card from Creative Labs. It is fully upgradeable to support Soundfont technology, allowing you to add your own sounds to the card. Simply add Standard Simms to take advantage of SoundFont technology. A feature only found on SB AWE32 cards. 32-note Polyphony Wave-table synthesis for real instrument sound and effects IDE CD-ROM interface SoundBlaster 16 and general midi compatible



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- MODEM
- ANSWERING SYSTEM
- VOICEMAIL
- BBS
- MESSAGE FORWARD



Blaster CD 6X Kit £159

Access to the CD-ROM World

This kit contains six speed CD-ROM drive, screws, data cable, audio cable, IDE interface card (16bit slot). This kit is plug-and-play compatible and Windows 95 ready.



6X CD-ROM drive only (OEM) £129

Spec: IDE interface, 220ms AV seek time, 900KB/sec transfer rate

OTHER PRODUCTS

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VideoBlaster RT300 **£265**
VideoBlaster MP400 (MPEG card) **£149**

Blasterkeys Midi Keyboard **£109**
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HAUPPAUGE WIN TV!

The Win/TV cards from Hauppauge: Multimedia with a difference.

Expand your multimedia options by displaying full motion television in a resizable window on your PC. Both cards run under Windows 3.11 and Windows 95.

New M-JPEG board from Hauppauge, the Win/Motion 60, allows you to create professional presentations and corporate videos.



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Windows 95 compatible, Windows 3.1/3.11 & DOS

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SoundBlaster compatible audio cable, IDE cable, installation driver software

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EIDE/ATAPI I/F for use on an IDE or EIDE interface, tray loading design - no caddy required, video CD ready, MPC Level 2, Photo CD, Multisession and XA compliant Headphone Jack - Headphone Volume Data Transfer Rate: 720KB/S mode 2, 614KB/s mode 1, <220ms access time 190ms Seek Time, Built in 256KB buffer memory

PowerUser CD

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Grab any image into your PC! Any video source!

VideoShot

VideoShot is a palm size, stand alone frame grabber for notebook and desktop PCs. It captures images with 640 x 480 resolutions in true color. TWAIN compatible, so it works with all your present image-processing software.

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- Includes powerful Windows-based image editing software
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- Still video frame capture - 1/30th of a second
- TWAIN compatible - works with PhotoShop, CorelDRAW, and others
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- Works great with portables

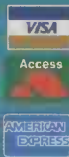


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FOR
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- Because SmartSuite is truly integrated, it works the way you do: moving from one task to the next, whether you're working in one application or between them.
- Get the most from your new operating system SmartSuite takes full advantage of the Windows 95 environment.



LOTUS WORD PRO 96 FOR WINDOWS 95

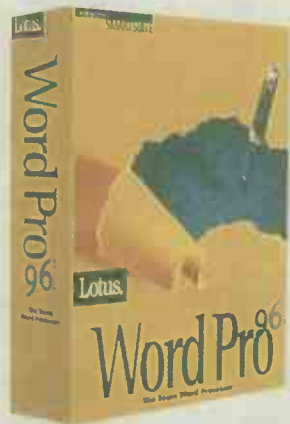
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Full Product 3.5" **£84**

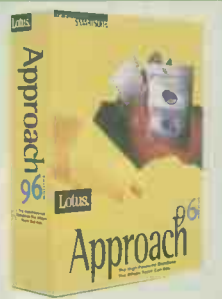


SmartSuite 96 currently includes 16bit versions of Lotus 123, Organizer and ScreenCam. A coupon in the box allows you to upgrade to the 32bit version when they become available.

MANAGE IT LOTUS APPROACH 96 for Windows 95

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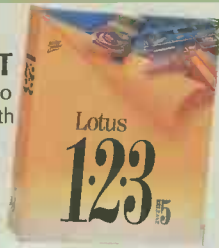
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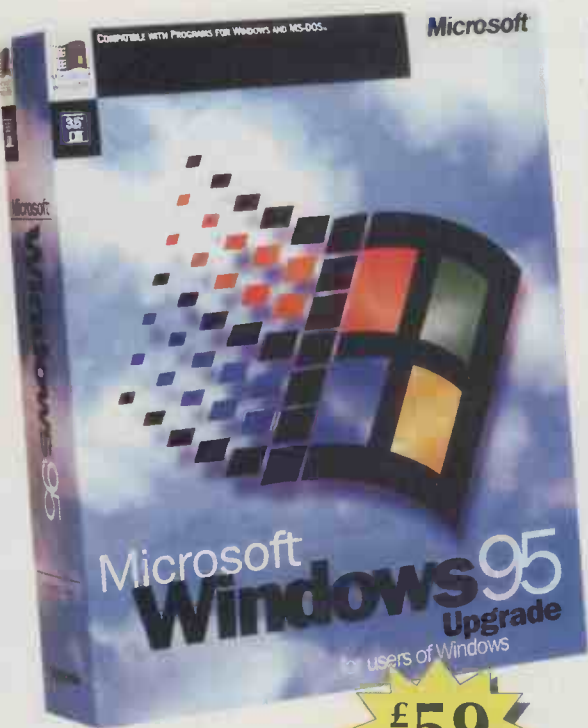
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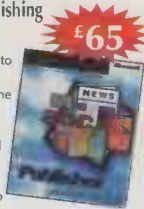
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To run Office 95 (Standard or Professional) you need: MS Windows 95 or Windows NT 3.51, 386DX or Higher PC, 8MB memory for Windows 95, (12MB for Access) 16MB memory for Windows NT. **Call us for memory upgrades.**



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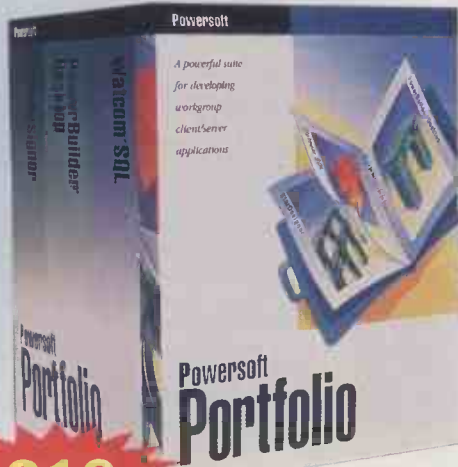
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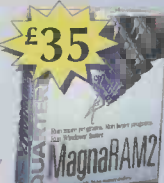
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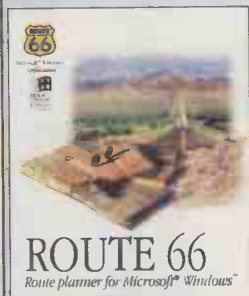
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ROUTE 66



Route planner designed for Windows 95

... compatible with Microsoft Windows 3.11



The Press about ROUTE 66 ...

'As beautifully designed as the application is, one feature catches the eye immediately: the speed. That's really outrageous in comparison with it's competitors. We are dealing with a real 32-bit application and it shows, ROUTE 66 is faster than light. "Designed for Windows 95", the manufacturer proudly explains in the manual. That's right, Windows 95 and ROUTE 66 work together very well.'

- CIT, August '95

Route 66® calculates the shortest, quickest or least expensive route between locations for you and shows the results in an overview map with a complete route description on either a black-and-white or colour display. Easy to use: at home, at the office or on the road. This program will show you the exact distance to travel, which route to travel, how long the journey will take and even provides you with a good cost estimate.

Features

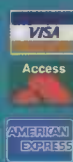
- Shows the best route, travel time and route description with ease
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- Finds alternative routes to avoid traffic jams
- Calculates travel times so you need never be late again
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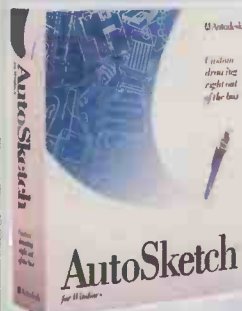


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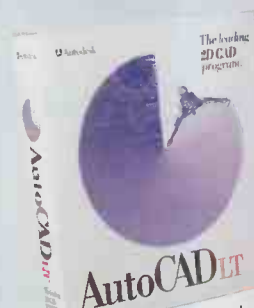


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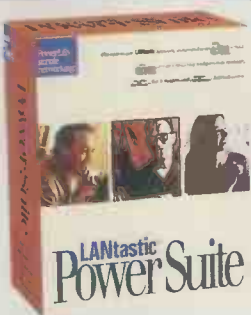
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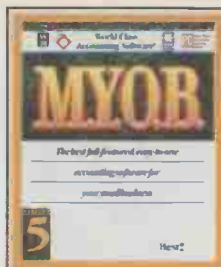
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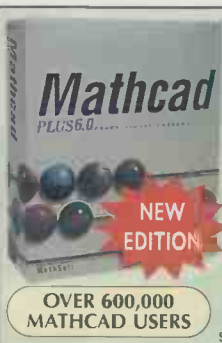
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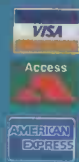
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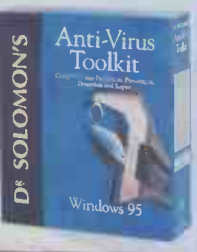
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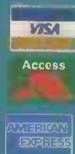
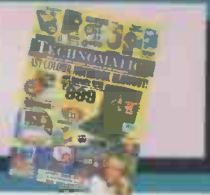
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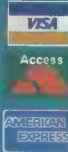
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TECHNO W4WG STATION STARTER KIT £149
TECHNO W4WG 1 STATION ADD-ON KIT £69

TECHNO HARDWARE ONLY KITS
FOR THOSE USERS WITH MSW4WG 3.11 INSTALLED

TECHNO 5 STATION STARTER KIT HW ONLY £175
TECHNO 2 STATION STARTER KIT HW ONLY £66
TECHNO 1 STATION ADD-ON KIT HW ONLY £35

NOVELL PERSONAL NETWORK

PNW SOFTWARE ONLY 3.5' £44
PNW SOFTWARE 5 PACK 3.5' £195
PNW(OEM) + GENIUS GE2000 CARD £44

TECHNO PNW 5 STATION STARTER KITS £199
TECHNO PNW 2 STATION STARTER KITS £85
TECHNO PNW 1 STATION ADD-ON KIT £49

NETWORK CARDS

GENIUS

GE2000 P&P ISA BNC/TP 1 PK £35
-JUMPERLESS, P&P NE2000 COMPATIBLE
GE2000D ISA BNC/TP 1 PK £27
-JUMPER AND JUMPERLESS, NE2000 COMPATIBLE
GE2000D ISA BNC/TP 5 PK £125
ME3000 PCMCIA BNC/TP 1 PK £79
E3000 POCKET BNC/TP 1 PK £59
-WITH BUILT IN MULTIPLEXED PRINTER PORT

3COM ETHERLINK III

3CS09B ISA BNC £65 5PK 20PK £305 £1175
3CS09B ISA TP £66 £299 £1099
3CS09B ISA BNC/TP £75 £549 £1299
3CS90B PCI BNC/TP £99 £475
EC579B EISA BNC £145 £699
3CS79B EISA TP £144 £699
3CS89B PCMCIA BNC/TP £129 £C.ALL
3CS89B PCMCIA IP £109 £C.ALL
3CS29B MCA BNC £142 £699
3CS29B MCA TP £139 £695

DLINK
- ALL SPECIAL PRICES WHILE STOCKS AVAILABLE

DE220ECT ISA 1pk 6pk 24pk £45 £250 £969
DE220ET ISA £40 £230 £889
DE530 PCI BNC/TP £99
DE510 VLB BNC/TP £199
DE320 MCA BNC/TP £99
DE400 EISA BNC/TP £149
DE650 PCMCIA BNC/TP £99
DE620 POCKET BNC/TP £99
DE600 POCKET BNC/TP £79
DE220X NOVELL BOOT ROM £19

NOVELL

NE2000+ 1pk 5pk 20pk ISA BNC £49 £219 £POA
NE2000+ ISA TP £49 £219 £POA
NE2000+ ISA BNC/TP £59 £279 £POA

NE3200 EISA BNC £299 £POA
NE3200 EISA TP £299 £POA

INTEL ETHEREXPRESS PRO

PRO 16 1pk 5pk 20pk ISA BNC/TP £59 £285 £1019
PRO FLASH 16 ISA BNC/TP £69 £319 £1199

SMC

ETHEREZ PNP ISA TP £60 £279 £POA
ETHEREZ PNP ISA BNC £60 £279 £POA
ETHEREZ PNP ISA BNC/TP £65 £300 £POA

ETHERPOWER

ETHERPOWER PCI TP £95 £409 £POA
ETHERPOWER PCI BNC/TP £120 £480 £POA
ETHERPOWER (EP) 1pk 5pk 20pk EP 10/100 EISA TP £179 £799 £2899
EP 10/100 PCI TP £149 £699 £POA

XIRCOM

ELITE CARD PCMCIA BNC/TP £115
ELITE NOTE POCKET BNC/TP £159
ULTRA BOOT ROM MULTI-PROTOCOL £29

HP

HP JETDIRECT EX PLUS 3 £309
HP JETDIRECT EX £249
HP JETDIRECT J2552A MIO L4 SERIES £295

EMULEX

EMULEX NETQUE BNC/TP £399
EMULEX NETJET MIO L4 SERIES £369

COMMUNICATION SERVICES

US ROBOTICS FAX SERVER 1 PORT £185
US ROBOTICS FAX SERVER 2 PORT £186
US ROBOTICS COMMUNICATIONS SERVER £199

CASTELLE FAXPRESS

CALL FOR QUOTE

HUBS & REPEATERS

HEWLETT PACKARD

HP ADVANCE STACK HUBS £119
HP ADVANCE STACK 8U £249
HP ADVANCE STACK 16U £399
HP ADVANCE STACK 12+ £699
HP ADVANCE STACK 24+ £1249
HP ADVANCE STACK 48+ +5 YEAR OSM

3COM

LINKBUILDER FMS II 12 £375
LINKBUILDER FMS II 24 £675

SMC

TIGER TP6 £119
TIGER TP6B £129
TIGER TP12 £259
TIGER CX3 £219
ELITE 3B12TP £399

GENIUS

GENIUS 1000/D 12TP £174

TECHNO

TECHNO 8TP PORT £89
TECHNO 4 PORT REPEATER £225
TECHNO 2 PORT REPEATER £139

CABLES & TOOLS

2M £5 3M £6 5M £8 10M £12 15M £16 20M £20 30M £27 50M £35

THIN ETHERNET CABLE REEL 100M

BNC T - PIECE CONNECTOR 5 - PACK £15
BNC 50 OHM EARTHED TERMINATOR 2 - PACK £15
BNC CONNECTOR MALE 5 - PACK CRIMP £4
BNC BARREL CONNECTOR F-F 5 - PACK £15
BNC BARREL CONNECTOR M-M 5 - PACK £17
BNC CRIMP TOOL £19

TWISTED PAIR CAT 5 UNSHIELDED RJ45-RJ45

3M £9 5M £12 10M £17 15M £22 25M £30

UPS

APC

SMART VALUE SERIES (VS) (LINE INTERACTIVE)
SUVS 420 £145
SUVS 650 £210
SUVS 1000 £339
SUVS 1400 £535

SMART SERIES (LINE INTERACTIVE)

SU250 £169
SU450 £235
SU700 £245
SU1000 £389
SU1400 £599
SU2200 £999

BACK SERIES (OFF-LINE)

BK250 £95
BU280P £115
BU420P £165
BU650P £210
The BackPro range above includes Powerchute for Win 95 PnP s/w.

POWERCHUTE FOR NETWARE £55
POWERCHUTE FOR WINDOWS NT £95
POWERCHUTE FOR WINDOWS £59
POWERCHUTE FOR UNIX £95
POWERCHUTE FOR HP/UX £119
POWERCHUTE FOR VMS (DAT) £195

PRINTER SERVERS

INTEL

INTEL NETPORT EXPRESS XL BNC/TP £315
INTEL NETPORT EXPRESS XL TOKEN RING £449
INTEL NETPORT EXPRESS EL BNC/TP £255
INTEL NETPORT EXPRESS EL TOKEN RING £389

HP

HP JETDIRECT EX PLUS 3 £309
HP JETDIRECT EX £249
HP JETDIRECT J2552A MIO L4 SERIES £295

EMULEX

EMULEX NETQUE BNC/TP £399
EMULEX NETJET MIO L4 SERIES £369

COMMUNICATION SERVICES

US ROBOTICS FAX SERVER 1 PORT £185
US ROBOTICS FAX SERVER 2 PORT £186
US ROBOTICS COMMUNICATIONS SERVER £199

CASTELLE FAXPRESS

CALL FOR QUOTE

INPUT & CONTROL

KEYBOARD

MICROSOFT NATURAL KEYBOARD £65
CHERRY 102 KEY AT KEYBOARD £37
MITSUMI 102 KEY AT KEYBOARD £25
MITSUMI WIN 95 AT KEYBOARD £29
ERGONOMIC WRIST REST £4

MICE

CREATIVE

AREO DUET £83

MICROSOFT

MS MOUSE V2 SERIAL & PS/2 £36
MS MOUSE V2 5PK SERIAL & PS/2 £169
MS MOUSE V2 BUS £48

LOGISCH

PILOT II MOUSE PC SERIAL £17
PILOT II MOUSE PS/2 £18
PILOT TRACKMAN PC SERIAL NEW! £27

MOUSEMAN SERIAL

MOUSEMAN PS/2 £31
MOUSEMAN CORDLESS SMALL £49

GENIUS

HI MOUSE SERIAL ONLY £19
HI MOUSE SERIAL & PS/2 £21
MOUSE ONE SERIAL £9

KENSINGTON

THINKING MOUSE - SERIAL VERSION £49.95
THINKING MOUSE - BUS £59.95
MOUSE SERIAL VERSION £34.95
MOUSE PS/2 VERSION £34.95

TRACKER BALL MICE

GENIUS

HI POINT NOTEBOOK TRACKBALL SERIAL £20

LOGITECH

TRACKMAN II PC COMBO £42
TRACKMAN PORTABLE SER & PS/2 £32
TRACKMAN VOYAGER £47

KENSINGTON

EXPERT MOUSE TRACKBALL V4.0 (BUS) £79.95
EXPERT MOUSE TRACKBALL V4.0 (SERIAL) £69.95

HARD MOUSE MAT

JOYSTICK £4

JOYSTICK

MS SIDEWINDER £26
MS SIDEWINDER 3D PRO £49
MS FURY (GAME) + SIDEWINDER £45

DIGITIZING TABLETS

SUMMAGRAPHS £599
SUMMASKETCH III A4 STYLUS £225
SUMMASKETCH III A3 STYLUS £435

SUMMASKETCH FX A4 STYLUS £275
SUMMASKETCH FX A3 STYLUS £495

CALL FOR A2, A1 & A0 MODELS

GENIUS
NEWSKETCH SP 1212 £120
NEWSKETCH SP 1812 £185
NEWSKETCH SP 1812D LED DISPLAY £210

STORAGE

PLEASE CHECK AVAILABILITY ON ALL HARD DRIVES

HARD DISKS: IDE 3.5"

CONNER

CF-850A 850 MB £POA
CF-1275A 1200 MB £199

SEAGATE

ST3660A 545 MB £129
ST31220A 1050 MB £169
ST31270A 1200 MB NEW £199
ST21640A 1600 MB NEW £POA

SAMSUNG

850MB £139
1.2GB £199

FUJITSU

M1603T 545 MB £POA
M1606T 1090 MB £169

WESTERN DIGITAL

CAVIAR AC2850A 850MB £139
CAVIAR AC31000A 1000MB £175
CAVIAR AC31200A 1200MB £195
CAVIAR AC31600A 1600MB £275
CAVIAR AC32600A 2600MB £429

HARD DISKS: IDE 2.5"

HITACHI

DK212A/10 1000 MB £599

TOSHIBA

MK1928FC 810 MB £419

HARD DISKS: SCSI

HEWLETT PACKARD | GB OEM

IBM 1 GB PEGASUS £299
QUANTUM FIREBALL 1GB £199

CONNER

CFP1080S 1080 MB £225
CFP2105S 2 GB £485
CFP4207S 4 GB £775

SEAGATE

ST51080N 1080 MB £269
ST32430N HAWK 2.1 GB £575
ST32550N BARACUDA 2.1 GB £629
ST15230N HAWK 4 GB £715
ST15150N BARACUDA 4 GB £979
ST410800N 9 GB £1575

FUJITSU

M26375A (2.5") 240 MB £175
M1606S 1090 MB £219
M2932S 2017 MB £499
M2934S 4350 MB £739

MICROPOLIS

4221S 2050 MB £549
3243S 4294 MB £769
1991S 9100 MB 5.25" £1399

FAST WIDE SCSI

CONNER

CFP2107W 2000 MB £649
CFP4207W 4000 MB £899

CALL FOR AUDIO-VISUAL DRIVES.

HD ACCESSORIES

5.25" ADAPTER KIT FOR 3.5" HARD DRIVE £12
Y POWER SPLITTER CABLE £8
DUAL IDE DEVICE CABLE £8
SINGLE IDE DEVICE CABLE £6
TECHNO REMOVABLE 3.5" IDE DISK RACK £29

SCSI ACCESSORIES

FOR SCSI CONTROLLERS SEE PC PARTS SOURCE

TECHNO REMOVABLE 3.5" SCSI DISK RACK £35

SCSI CASES

3.5" HH SINGLE SCSI DEVICE CASE £65
5.25" HH SINGLE SCSI DEVICE CASE £65
5.25" HH DUAL SCSI DEVICE CASE £99
5.25" HH QUAD SCSI DEVICE CASE £139

INTERNAL SCSI CABLES

1 DEVICE 28 CM SCSI CABLE £6
2 DEVICE 45 CM SCSI CABLE £9

4 DEVICE 1 M SCSI CABLE
6 DEVICE 1.4 M SCSI CABLE

EXTERNAL SCSI CABLES
50-WAY CENTRONICS EACH END 1 M
50-WAY MICRO-D EACH END 1 M
50-WAY CENTRONICS TO MICRO-D 1 M
25-WAY D TO 50-WAY E CENTRONICS 1 M

TERMINATORS
50-WAY CENTRONICS PASSIVE
50-WAY CENTRONICS ACTIVE
50-WAY CENTRONICS FORCED PERFECT
50-WAY MICRO D PASSIVE
50-WAY MICRO D ACTIVE
50-WAY MICRO D FORCED PERFECT

HARD DRIVE RECOVERY SOFTWARE
SPINRITE 3.1 DATA RECOVERY

FLOPPY DRIVES
TEAC 1.44 MB 3.5" FD + 5.25" MOUNT KIT

5.25" ADAPTER KIT FOR 3.5" FLOPPY DRIVE
CABLE DUAL FLOPPY DRIVE LEAD 34 WAY

REMOVABLE DRIVES

- FOR DISKETTES SEE MEDIA

OMEGA
ZIP DRIVE 100 MB (SCSI)
ZIP DRIVE 100 MB (PARALLEL)
ZIP ZOOM PC SCSI INTERFACE
JAZZ 1GB Int (SCSI) New
JAZZ 1GB Ext (SCSI) New

OPTICAL DRIVES

PANASONIC
LF7304 1.5 GB SCSI INT DRIVE
LF7300B 1.5 GB SCSI EXT DRIVE

FUJITSU
230 MB M2512A INT DRIVE ONLY
230 MB M2512A EXT DRIVE ONLY
230 MB M2512A EXT PC SCSI KIT

PARALLEL PORT DRIVES

MICROOLUTIONS BACKPACK (BP)
BP HARD DRIVE 420 MB
BP HARD DRIVE 850 MB
BP HARD DRIVE 1.2 GB
BP FLOPPY DRIVE 1.44 MB
BP FLOPPY DRIVE 1.2 MB
BP CD-ROM DOUBLE SPEED DRIVE
BP CD-ROM QUAD-SPEED DRIVE
BP CD-ROM QUAD SPEED DRIVE+SOUND

SEE TAPE DRIVES FOR PARALLEL PORT TAPE DRIVES

PCMCIA HARD DRIVES

CALLUNA HARD DRIVE 170 MB
CALLUNA HARD DRIVE 260 MB

FOR PCMCIA ADAPTERS SEE SOURCE PC PARTS.

TAPE DRIVES

SEE MEDIA FOR TAPE CARTRIDGES

QIC INT DRIVES

OMEGA
DITTO 420MB INT
DITTO 800MB INT
DITTO 3200MB INT

COLORADO
TRAVAN T10001 400 MB/800 MB
JUMBO 350 170 MB/340 MB
JUMBO 1400 1360 MB

QIC EXT/PAR DRIVES

OMEGA
DITTO 420MB PARALLEL
DITTO 800MB PARALLEL
DITTO 3200MB PARALLEL

BACKPACK TD 800 MB TRAVAN PAR

COLORADO
TRAVAN T1000E PAR 400 MB/800 MB
TRAKKER 350 PAR 170 MB/340 MB

DAT DRIVES

SCSI INTERNAL
HP SURESTORE 2000I 2 GB INT DRIVE
HP SURESTORE 5000I 4 GB INT DRIVE
HP SURESTORE 6000I 8 GB INT DRIVE

SCSI EXTRENAL
HP SURESTORE 2000E 2 GB EXT DRIVE

£22 HP SURESTORE 5000E 4 GB EXT DRIVE
£32 HP SURESTORE 6000E 8 GB EXT DRIVE
HP SURESTORE 12000E AUTOLOADER 48 GB

£18 HP SURESTORE 3 YEAR OSM SUPPORT PACK
£45
£38
£25

TAPE DRIVE OPTIONS

FOR SCSI CONTROLLERS SEE PC PARTS.
FOR BACKUP SOFTWARE SEE SOFTWARE UTILITIES.

COLORADO
JUMBO 250 TO 350 S/W UPGRADE CK350
KE-10 MOUNTING KIT FOR JUMBO
FC-20 FAST CONTROLLER FOR JUMBO
TC-15 FAST CONT WITH COMP FOR JUMBO
TRAKKER CARRYING CASE
BACKUP SOFTWARE WIN V2
BACKUP SOFTWARE OS/2
BACKUP SOFTWARE UNIX SU53J
ARCSOLO FOR OS/2

£8 ARCADIA BACKUP FOR WINDOWS 95
£7

STORAGE MEDIA

DISKETTES

3M 3.5" 1.44 HD 10 PK
3M 3.5" 1.44 HD 3x10 PK
3M 3.5" FORMATTED 1.44 HD 10 PK
3M 3.5" FORMATTED 1.44 HD 3x10 PK
BULK PACK FORMATTED 1.44 HD 50 PK
BULK PACK FORMATTED 1.44 HD 100 PK
BULK PACK FORMATTED 1.44 HD 200 PK
3.5" DATA CASE 100 CAPACITY A-90147
IOMEGA ZIP PC DISKS 100 MB 1 PACK
FLOPTICAL 21 MB DISKETTES 5 PK
FLOPTICAL 21 MB DISKETTES 10 PK

MAGNETO OPTICAL

128 MB DISKETTE
230 MB DISKETTE
1.3 GB DISKETTE (FOR HP)
1.5 GB DISKETTE (FOR PANASONIC)

TAPES CARTRIDGES

COLORADO FORMATTED TAPES
DT-120 (QIC 40) 3 PK
DT-250 (QIC 80) 3 PK
DT-350 (QIC 80XL) 3 PK
DT-740 (QIC 3010) 3 PK
DT-1000 (TRAVAN) 3 PK
DT-1000 (TRAVAN) 5 PK

OMEGA
680MB MC3000XL (QIC 3010) 3 PK
680MB MC3000XL (QIC 3010) 3 PK

EXABYTE
DC3000XL (1 GB) 1 PK

HEWLETT PACKARD
HP DAT 1.3 GB 60 M DDS 5 PK
HP DAT 2 GB 90 M DDS 5 PK
HP DAT 4 GB 120 M DDS-2 5 PK
HP DAT DDS CLEANING KIT 2 PK

SONY
DAT 2 GB 90 M DDS 5 PK
DAT 4 GB 120 M DDS-2 5 PK
QIC WIDE

3M UNFORMATTED TAPES
DC2120 (QIC 80) 1 PK
DC2120XL (QIC 80 XL) 1 PK
MC3000XL (QIC 3010) 1 PK

DC6150 1 PK
DC6250 1 PK
DC6525 1 PK

TRAVAN NEW
TRI 400MB/800MB
TR3 1.6GB/32GB
DAT 2 GB 90 M DDS 1 PK

PC PARTS

MOTHERBOARDS

INTEL PENTIUM BOARDS
ADVANCE EV + PENTIUM 100+ 256KB CACHE
ADVANCE EV + PENTIUM 120+ 256KB CACHE
ADVANCE EV + PENTIUM 133+ 256KB CACHE

SCSI CONTROLLERS

ADAPTEC
1505 ISA KIT

£715 1515 ISA KIT
£885 1542CP ISA Plug & Play KIT
1542 ISA CARD ONLY
1640 MCA KIT
2742T EISA KIT
2842 VLB KIT
2920 PCI KIT
2940 PCI KIT
3940 PCI DUAL CHANNEL KIT
1460 PCMCIA KIT
T358 PARALLEL EPP KIT

WIDE SCSI CONTROLLER

ADAPTEC
2940UW PCI ULTRA WIDE SCSI KIT
3940 UW PCI ULTRA WIDE DUAL CHANNEL KIT

IDE CONTROLLER

FUTURE DOMAIN ISA IDE CONTROLLER + BIOS
4 DEVICE SUPPORT, 2 CHANNELS, >528 MB SUPPORT.
IDE-5 VLB IDE + HIGH SPEED I/O
IDE-4 ISA IDE + HIGH SPEED I/O
IDE-2 ISA IDE + FD/2 SERIAL/1 PAR/1 GAME

I/O CONTROLLERS

I/O-6 ISA 2 HIGH SPEED SERIAL/1 ECP, EPP/1 GAME
I/O-2 ISA DUAL SERIAL PORTS
I/O-1 ISA 2 SERIAL/1 PARALLEL/1 GAME

PCMCIA ADAPTERS

CARDPORT ISA 2 X TYPE III SLOTS
CARDPORT SOLO 1 X FRONT TYPE III SLOT
CARDPORT UNO1 X REAR TYPE III SLOT
CARDPORT EXT PARALLEL PORT PCMCIA ADPT

MULTIMEDIA

MULTIMEDIA KITS

CREATIVE HOME CD KIT
AZTEC QUAD MULTIMEDIA KIT
AZTEC VOYAGER 6X MULTIMEDIA KIT
CREATIVE GAMEBLASTER 32 4X KIT

TECHNO MULTIMEDIA KITS

SPK = TECHNO HI-FI PRO (25W) MAINS SPEAKERS
MS FAM = MICROSOFT FAMILY PACK INCLUDES ENCARTA
95, WORKS, MONEY, GOLF, SCENES(3.5), DANGEROUS
CREATURES

PIONEER DRU-A124X 4X IDE DRIVE KITS

KIT 1PP DRIVE + AT INTERFACE
KIT 2PP DRIVE + SB16 VALUE+ SPK+MS FAM
KIT 3PP DRIVE + SB16 PRO ADSP+ SPK+MS FAM
KIT 4PP DRIVE + SB AWE VALUE+ SPK+MS FAM
KIT 5PP DRIVE + SB AWE 32+ SPK+MS FAM

CD-ROM DRIVES

CREATIVE
BLASTER 6X KIT INT IDE
CREATIVE 6X IDE INT DRIVE

MITSUBISHI
FX400 (INT) (4X)
FX400 KIT (INT) (4X)
MITSUBISHI SECONDARY IDE I/F

NEC
QUADIX (INT) (4X)
QUADIX KIT (INT) (4X)

AZTECH
CDA668-01 (INT) (6X)
CDA668-01 KIT (INT) (6X)

PANASONIC QUAD PRO IDE KIT
PANASONIC 4X IDE CR5B1
PANASONIC IDE INTERFACE

PIONEER DRU-A124X (INT) (4X)

POWER USER 4X CD-ROM DRIVE

CD-ROM DRIVES SCSI

ADAPTEC 1505 TOTAL CD SCSI I/F KIT
-SUITABLE FOR ALL SCSI CD ROMS

NEC
6X1 (INTERNAL)
6X1 KIT (INTERNAL)
6X6 (EXTERNAL)
3XP (3X)
AT SCSI I/F (16BIT)
PAR SCSI I/F (16BIT)

TOHNSA
XM3701B (INT) (6X) NEW

PANASONIC

£60 QUAD PRO SCSI INT WITH SCSI INTERFACE
£157 QUAD PRO SCSI INT WITHOUT SCSI INTERFACE
£125 PD LF1004PD INT BARE
£199 PD LF1004PD INT KIT
£239 PD OPTICAL MEDIA
£159
£115
£175
£295
£142
£109

PIONEER DRU-124X SCSI (INT) (4X)

CD-ROM RECORDERS

HEWLETT PACKARD
SURESTORE CD-WRITER 4020I
INT RECORDING KIT

PHILIPS CDD522 EXT RECORDER KIT

YAMAHA
CDRI100 INT BARE
CDRI100 INT KIT
CDRI100 EXT BARE
CDRI100 EXT KIT

D2
D2 INT RECORDER KIT (2X WRITE, 4X READ)
D2 EXT RECORDER KIT (2X WRITE, 4X READ)
D2 SCSI CONTROLLER FOR ABOVE

RECORDER ACCESSORIES

COREL CREATOR MASTERING SOFTWARE
TDK RECORDABLE CD-ROM MEDIA, 74 MIN, 10PK
TDK RECORDABLE CD-ROM MEDIA, 74 MIN, 100PK

SOUND CARDS

CREATIVE
CALL FOR NEW MODELS
SOUNDBLASTER 16 VALUE IDE
SOUNDBLASTER 32 PMP
SOUNDBLASTER AWE 32 VALUE IDE
SOUNDBLASTER AWE 32 PNP

AZTECH WAVERIDER 32+
AZTECH WAVERIDER PRO 32+ 3D
GRAVIS ULTRASOUND MAX
PORTABLE SOUND PLUS FOR NOTEBOOKS

TECHNOSOUND 16 PLUS + 10W SPEAKERS
FEATURES: FULLY SB COMPATIBLE, 4 CD-ROM I/F, MIDI I/F,
4W AMP

SPEAKERS

TECHNO HI-FI MASTER (80W) MAINS SPEAKERS
TECHNO HI-FI PRO (25W) MAINS SPEAKERS
TECHNO SCREEN BEAT 3 (2W) MAINS SPEAKERS
REL STRATA SUBWOOFER (20W/120HZ) 60W ACTIVE
KEF CODDA 7 PASSIVE SPEAKERS (45HZ/20KHZ)
- WHAT HI-FI - BEST BUY UNDER £500!

HAUPPAUGE WIN-TV CELEBRITY
HAUPPAUGE WIN-TV CELEBRITY VIDEO OUT
HAUPPAUGE WIN-60 MPEG CARD
MIRO DCI + VIDEO STUDIO
MIRO DCI + ADOBE PREMIER
MIRO DCI + VITC CONTROLLER

SVGA TO TV (PAL)

BLACK WIDOW PAL ENCODER & REMOTE

CARRIAGE CHARGES

These Charges are for UK Mainland Only

Item	1st Item	Additional Item (each)
Single item up to 30Kg	£8	£6
Large laser printers (4V/55i/Colour)	£24	£20
Large monitors (17" + above) Servers	£24	£24
Plotters	£35	£35
Small Accessory	£5	£2
Small software package	£5	£2

The carriage charges would be 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. All carriage charges exclude VAT.

Orders received up to 5pm for items in stock will be dispatched the same day (subject to payment clearance and barring system failure). For orders with a large number of items, or for overseas rates, please ask for a quotation.

WINNER 1994

COMPUTER SHOPPER

READERS AWARD



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FAX 0181-205 0190

ADMIN 0181-358 8100

PRICES EXCLUDE VAT @ 17.5%



INTEGRATED £

MICROSOFT OFFICE

Microsoft	Full	Upg	Comp	IMLP
Office 95 Standard	332	139	163	289
Office 95 Professional	429	204	245	370
Office 95 Standard Upg IMLP				129
Office 95 Professional Upg IMLP				189
Office 4.2 Standard	325	161	218	285
Office 4.3 Professional	429	245	285	361
Office 4.2 for NT	342			

Please specify CD or 3.5" media

LOTUS SMARTSUITE

Lotus	Full	Upg	Comp	IMLP
SmartSuite v4	293	158	158	284
SmartSuite 96 Win 95	293	158	158	-

Please specify CD or 3.5" media

NOVELL PERFECT OFFICE

Novell	Full	Upg	Comp
Perfect Office v3 Std 3.5	154	129	154
Perfect Office v3 Std CD	264	129	-
Perfect Office v3 Pro 3.5	129	179	129
Perfect Office v3 Pro CD	348	175	-

ACCOUNTING £

SAGE

EURFN0197	Sage Financial Controller V7 Dos	349
EURNT0384	Sage Financial Cont. Lan Dos	555
EURFN0196	Sage Accountant Plus V7 Dos	270
EURNT0383	Sage Accountant Plus Lan Dos	393
EURFN0195	Sage Accountant V7 Dos	189
EURFN0194	Sage Bookkeeper V7 Dos	89
EURFN0205	Sage Financial Cont. Win v3.1	349
EURNT0388	Sage Financial Cont. Lan Win	548
EURFN0206	Sage Accountant Plus Win v3.1	270
EURNT0387	Sage Accountant Plus Lan Win	463
EURFN0207	Sage Accountant Win v3.1	189
EURFN0208	Sage Bookkeeper Win v3.1	84
EURFN0192	Sage Instant Accounting Win	85
EURFN0198	Sage Payroll II Dos v5	129
EURNT0385	Sage Payroll II Network	165
EURFN0204	Sage Payroll Win	129
EURFN0193	Sage Instant Payroll Win	68

INTUIT

FN 2 2 2 3	Intuit QuickBooks v3.0 Win	86
FN 2 1 9 4	Intuit Quicken 4.0 Win 3.5"	25
FN 2 1 7 0	Intuit Quicken 4.0 Win CD	26
EURFN0115	Intuit Quicken 4 Deluxe Home Pack Win	45
EURFN0114	Intuit Quicken 4 Deluxe Business Pack Win	45
FN 0 1 6 4	Intuit Quicken V6 Dos	32

EURFN0188	Tas Books Accounting	76
EURFN0003	MS Money V3 Win	25
EURTX0004	Which? - Tax Calc for Windows	35
FN 2 1 4 3	M.Y.O.B. v5.0 Win	129
EURFN0219	MS Money v4 Win 95 CD	29
EURFN0216	MS Money v4 Win 95	29

SPREADSHEET £

Microsoft	Full	Upg	Comp	IMLP
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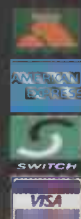
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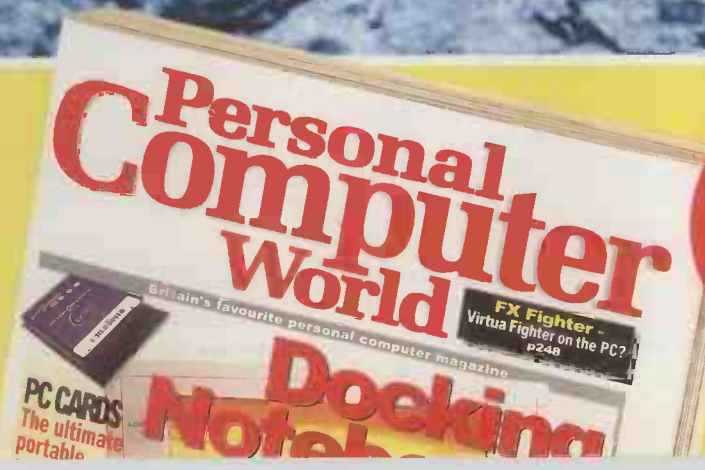
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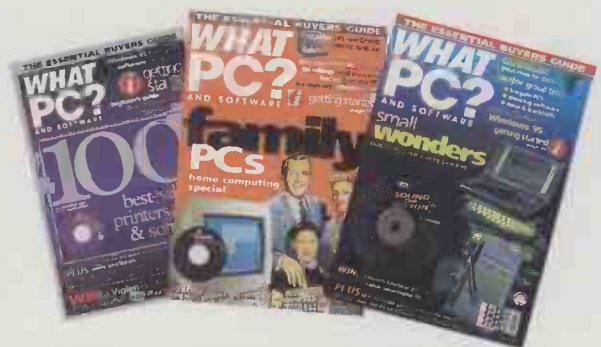
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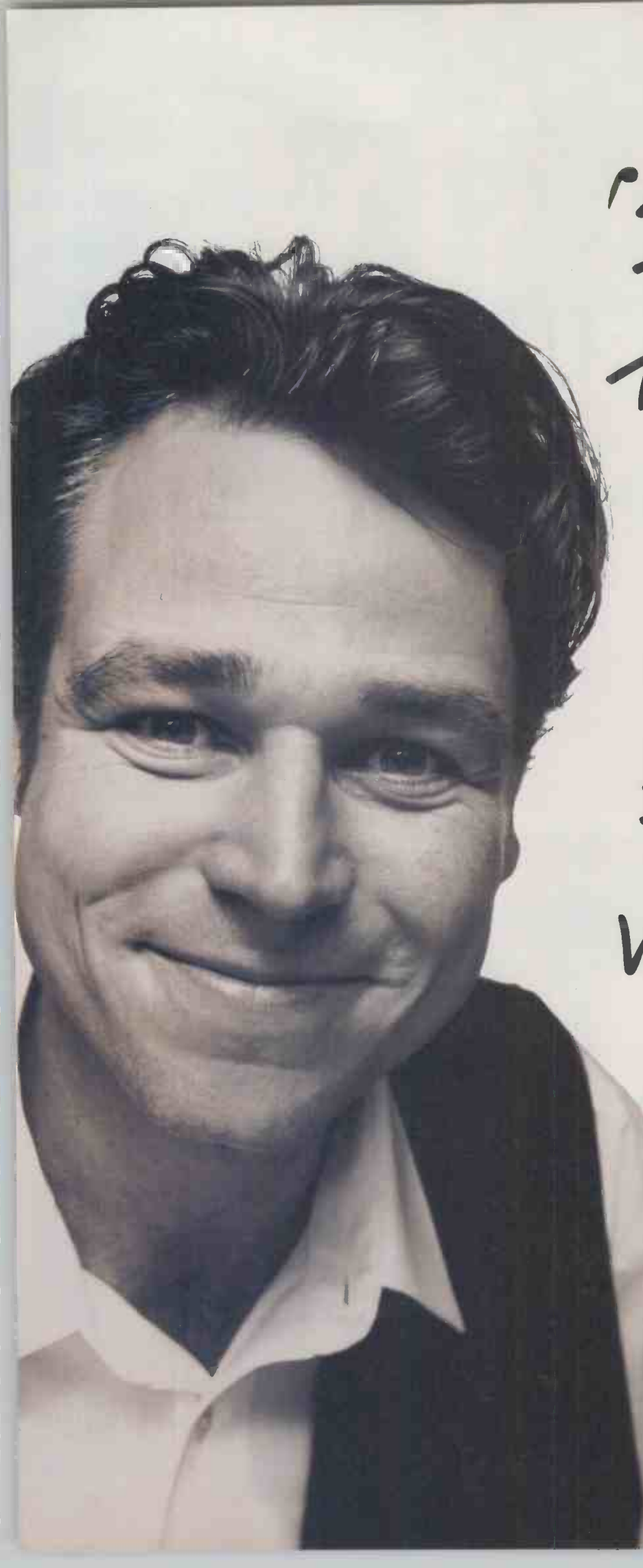
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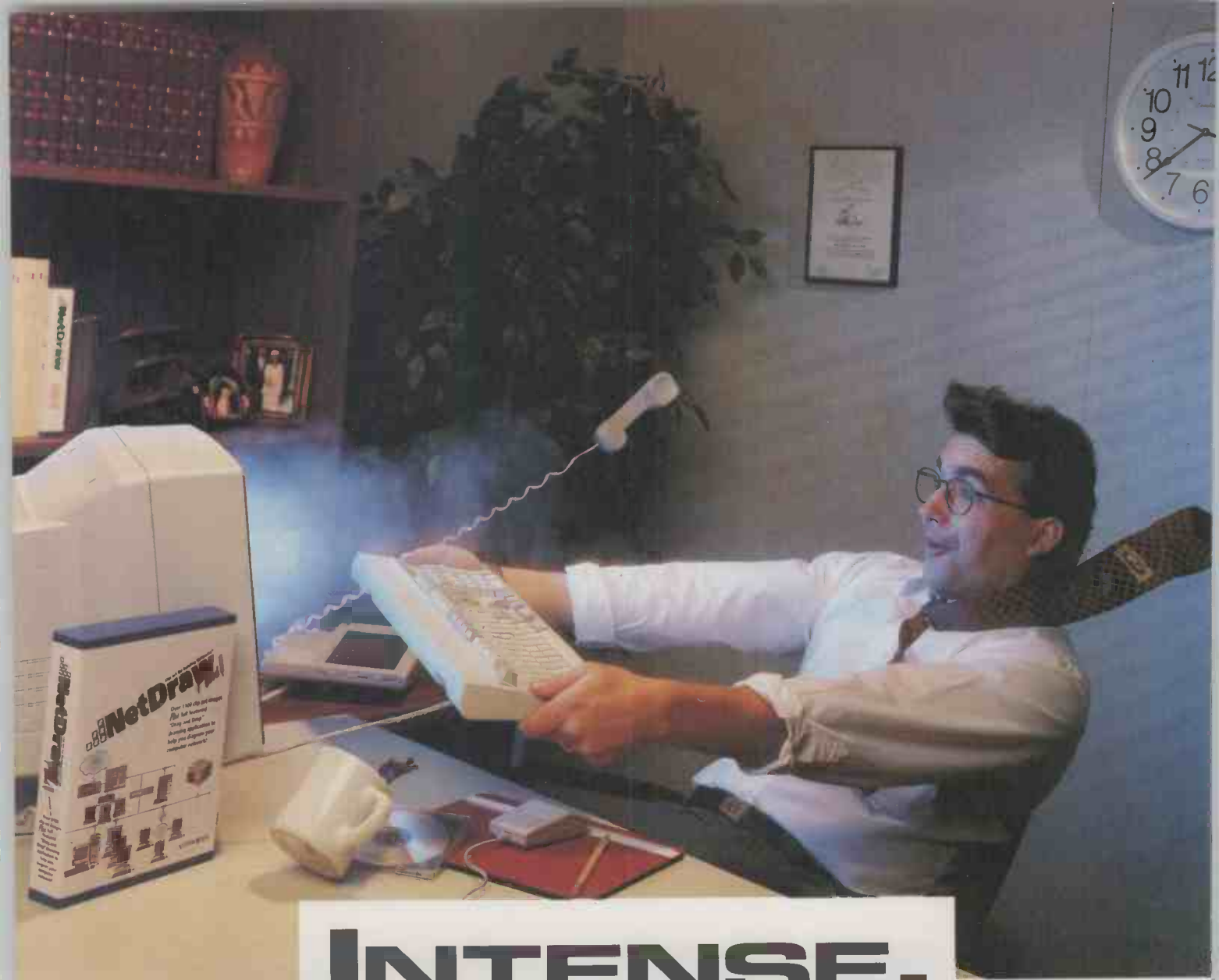
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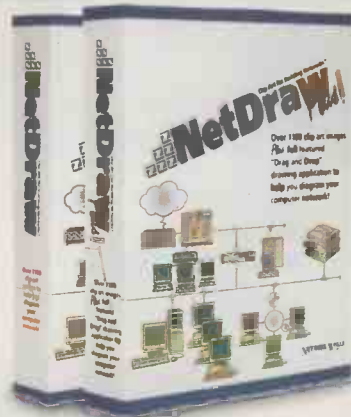
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Seagate ST410800N Elite Fast SCSI-2 9Gb 10ms.....	£1775



REMOVABLE DRIVES

Fujitsu 230Mb Optical Drive 3.5 Internal Bare.....	£299
Fujitsu 230Mb Optical Drive 3.5 External Kit.....	£595
Fujitsu 230Mb Optical Drive 3.5 Parallel Kit.....	£679

Panasonic PD System

Panasonic PD Drive (Bare).....	£445
(Quad Speed CD-ROM/650MB Rewritable Drive In One)	
Panasonic PD Drive Kit Internal.....	£498
(Includes SCSI Interface Host Adaptor and Software)	
Panasonic PD Drive External (Bare).....	£625
PD Drive Kit External (Plasmon).....	£678
(Includes SCSI Interface, Cables and Software)	
Panasonic PD Media 650Mb.....	£35

Panasonic LF7304 Int 1.5Gb Read/Writable Optical.....	£1535
Panasonic LF7300 Ext 1.5Gb Read/Writable Optical.....	£1699

Iomega



**£149
Parallel**

Zip Drive SCSI.....	£149
100Mb Zip Disk Pre-Formatted for PC (Single).....	£15
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SQ3270S 3.5" Removable 270Mb HDD (SCSI).....	£265

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Syquest EZ135 External SCSI.....	£165
SQ3270 P/P 270Mb Parallel Port Drive.....	£449
SQ3270 EXT 270Mb External SCSI Value Pack.....	£475

(Excludes Interface)

SYQUEST MEDIA

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SQ2000 5.25" 200Mb Cartridge for SQ5200.....	£52
SQ310 3.5" 105Mb Cartridge for SQ3105A & SQ3105S.....	£38
SQ327 3.5" 270Mb Cartridge for SQ3270.....	£42

ACCESSORIES

EXTERNAL SCSI CASES

Single 5.25" Drive Case 40W PSU.....	£55
Dual 5.25" Drive Case 60W PSU.....	£69
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HP Colorado T1000 800Mb Tape Streamer.....	£115
Jumbo DJ50 1.4Gb Tape Streamer.....	£185

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Trakker JT35 350Mb Tape Streamer.....	£145
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Iomega Ditto 1700Mb Internal Tape Streamer.....	£185
Iomega Ditto 3200Mb Internal Tape Streamer.....	£209

Iomega External

Iomega Easy 800Mb Tape Streamer.....	£133
Iomega Ditto 3200Mb Parallel Port Tape Streamer.....	£299

Conner Internal

Conner Tapestor 420 AT Internal Kit.....	£95
Conner Tapestor 800 AT Internal Kit.....	£126
Conner Tapestor 1.7Gb Internal Kit.....	£179
Conner Bali 3.2Gb Internal Kit.....	£229
Conner Tapestor 4000 SCSI.....	£384
Conner Tapestor 4000 EIDE.....	£394
Conner 2Gb DAT 4320 Internal Drive.....	£595
Conner 8Gb DAT Internal Drive.....	£659

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Conner Tapestor 800 EP.....	£285
Conner Tapestor 4000 SCSI.....	£585

Hewlett Packard Internal

HP Surestore 2000i 2Gb.....	£569
HP Surestore 5000i 4Gb.....	£645
HP Surestore 6000i 8Gb.....	£785

Hewlett Packard External

HP Surestore 2000e 2Gb Bare.....	£675
HP Surestore 5000e 4Gb Bare.....	£745
HP Surestore 6000e 8Gb Bare.....	£925

Sony Internal

Sony SDT 5000 4Gb SCSI-2.....	£649
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IDE 2FDD/2HDD	£9
IDE 2FDD/2HDD 2S, 1P, 1G	£12

IDE ISA

Enhanced IDE 2FDD/2HDD 2S, 1P, 1G	£19
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IDE ISA Cache

Bus Logic KT510 ISA 16 Bit IDE Cache	£75
VESA Local Bus Controllers	
VESA Local BUS IDE 2HDD/2FDD 2S, 1P, 1G	£13
VESA Local BUS EIDE 2HDD/2FDD 2S, 1P, 1G	£18
<i>(Mode 3 only)</i>	
VESA Local Bus EIDE 4HDD/2FDD, 2S, 1P	£29
Promise EIDEMAX ISA 2HDD up to 8.4G	£32
VESA Local Bus EIDE 4HDD/2FDD, 2S, 1P, 1G	£39
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VL20 Mode 3 IDE Cache 6HDD, 2FDD, 2S, 1G550, 1P, 1G OK	£79
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Adaptec EIDE - CD Kit	£18
Adaptec EIDE - AT 32 VP Kit	£35
Adaptec EIDE - AT 42 VP Kit	£39
<i>(Includes Floppy Controller)</i>	
Adaptec EIDE - VLB Kit	£55
<i>(Includes Floppy and Serial/Parallel)</i>	

PCI Controllers

PCI IDE Controller (mode 3, 4)	£35
DC-5030 IDE Cache Controller (OK) PCI	£105

SCSI CONTROLLERS

Adaptec



Adaptec 1505 Ultra Total CD Kit	£35
Adaptec 1515 Ultra Total Connect Kit	£59
Adaptec 1542CP ISA SCSI Controller Bare	£124
Adaptec 1542CP ISA SCSI Complete Kit	£157
Adaptec 2742 EISA SCSI Complete Kit	£239
Adaptec 2920 PCI SCSI Kit	£115
Adaptec 2940 PCI SCSI Kit	£168
Adaptec 2940 PCI SCSI Ultra Wide Kit	£215
Adaptec 3940 PCI SCSI Multi Channel Complete Kit	£289
Adaptec 348 MINISCSI Plus (Parallel SCSI Adaptor)	£78
Adaptec 358 MINISCSI Plus (Enb Parallel SCSI Adaptor)	£108
Adaptec 1460 SCSI PCMCIA	£148

Remote Control

Adaptec Airport	
1000 Infra Red	£59
Adaptec Airport	
2000 Infra Red	£69
Adaptec Airport	
2500 Infra Red	£115



Advansys

ABP542 ISA kit	£105
ABP920 PCI starter kit (Win '95 ready)	£79
ABP940 PCI kit	£125

(All the above Advansys Kits come with Corel SCSI Lite and Internal Cable)

Bus Logic

Bus Logic KT 445C VLB 32 Bit SCSI Adaptor	£152
Bus Logic BT 946C PCI SCSI Adaptor	£164
Bus Logic KT 545C ISA 16 Bit SCSI Adaptor	£178
Bus Logic KT 946C PCI SCSI Adaptor	£194
Bus Logic BT 646S MCA 32 Bit SCSI Adaptor	£265
Bus Logic BT 747C EISA Fastit SCSI Adaptor	£235
Bus Logic KT 747S/C Fast SCSI EISA 32 Bit	£254

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CMD 6500 PCI SCSI Host Adaptor	£148
CMD 6520 PCI SCSI (OK) Expandable to 64Mb	£195

Controllers

Multi I/O Controller 2S, 1P, 1G	£9
Parallel Port Card	£9
Serial Card	£9
Serial Card with Fast Uart 16550	£19
4 Port RS232 Adaptor	£78



CD DRIVES

IDE INTERFACE

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Goldstar GCD-R540B Quad Speed CD IDE	£85
Mitsumi CRMCFX400D Quad Speed CD IDE	£89
NEC Quad Speed CD IDE (Bare Drive)	£99
Toshiba XM5302B Quad Speed ATAPI IDE CD	£105
Toshiba XM5402B Quad Speed ATAPI IDE CE 128K	£105
Toshiba XM5402B Quad Speed ATAPI IDE CE 256K	£119

PANASONIC

Panasonic Quad Pro Quad Speed IDE Kit	£109
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Pioneer DR-UA124X 4x CD ROM EIDE	£109
Sony CDU-76E Quad Speed IDE 250ms	£115
Universal IDE/ATAPI CD Interface Card	£13

(Includes Drive, Software and Cables)

Six Speed

SIMPLY SIX SPEED

Simply Six Speed IDE CD-ROM	£115
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Aztech Six Speed CD IDE	£125
Wearnes CDD-620 Six Speed CD-ROM	£149
Teac CD-56E Six Speed IDE	£125

(All CD Drives are supplied with Manual, Driver Diskette and Cables)

SCSI INTERFACE

NEC AT SCSI Interface Kit	£55
NEC AT Parallel/SCSI Interface Kit	£89
NEC 4Xi Internal Quad Speed	£119
NEC 6Xi Internal 6x Speed	£259
NEC 6Xe External 6x Speed	£359

PANASONIC

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Pioneer DR-U124X 4.4x CD ROM SCSI-2	£185
Plextor 6PiEX 6 speed CD-ROM Drive Internal	£295
Plextor 6PiEX 6 speed CD-ROM Drive External	£389

(All the above Plextor Drives are SCSI-2 devices and come with a 2 year RTB warranty)

Sony CDU-76S 4x SCSI 250ms	£139
Toshiba XM-5301B SCSI-2	
Quad Speed Bare Internal	£145
Toshiba XM-3601B SCSI	
Quad Speed Bare Internal 4.4x	£209
Toshiba KT-3601SA SCSI Quad Speed External Kit	£385
Toshiba XM-3701B SCSI-2 6.7 Speed Bare Internal CD ROM	£265

(Random Access 135ms, 256K Buffer 1000K Data Transfer Rate)

Parallel CD ROM Drives

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JukeBox CD Drives

NEC CDR-251 Quad Speed 4-disk autochanger IDE	£186
Nakamichi MBR-7 Dual Speed 7 Disk Stacking	£245
Pioneer DRM-624X Quad Speed 6Disk Jukebox	£455
Pioneer 1804X Quad Speed 18 Disk Jukebox	£1395

Writeable CD ROM Drives

HP SureStore CD-Writer 4020i	£725
<i>(4x CD Reader, 2x CD Recorder)</i>	
JVC XR-W2001 Dual Speed Internal SCSI CD Recorder	£1275
Kodak Photo CD Writer 225	£1895
Kodak Multi-Write Publishing Software	£735
Kodak Writable CD Media	£8
Plasmon CDR 420 CD Writer	£699

(The CAT Software full version)

PCMCIA CD ROM Drives

Panasonic CD ROM PCMCIA	£269
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INNOVATIVE COMMUNICATIONS

**CYBERMAN
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CD ROM
DRIVE
CM2 SX
WINDOWS '95
COMPATIBLE**



£279

Cyberman CD Quad Speed PCMCIA CD ROM Drive	£379
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GAMEBLASTER 32 QUAD INTERNAL

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DIAMOND ULTRA KIT 8000

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ISA
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Intel DX4-100Mhz 256K PCI Motherboard.....£138
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PCI Motherboard 256K Async Cache.....£520
Pentium® Triton Chipset 166Mhz
PCI Motherboard 256K Async Cache.....£710

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PCI Motherboard 256K Pipeline Burst Cache.....£224
Pentium® Triton Chipset 100Mhz
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Pentium® Triton Chipset 133Mhz
PCI Motherboard 256K Pipeline Burst Cache.....£414

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PCI Motherboard 256K Pipeline Burst Cache.....£534
Pentium® Triton Chipset 166Mhz
PCI Motherboard 256K Pipeline Burst Cache.....£724

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Intel Endeavour Pentium® 100Mhz 256k Cache.....£470
Intel Endeavour Pentium® 120Mhz 256k Cache.....£520
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486 VESA Local Bus Motherboard 256K Cache Zif NCPUs.....£75
(3 VESA, 4 ISA 4 x 30Pin and 2 x 72Pin SIMMs)

486 VESA Local Bus Motherboard 256K Cache Zif NCPUs.....£75
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Pentium® 75Mhz CPU.....£85
Pentium® 100Mhz CPU.....£149
Pentium® 120Mhz CPU.....£209
Pentium® 133Mhz CPU.....£275

Pentium® 150Mhz CPU.....£395
Pentium® 166Mhz CPU.....£585

Overdrive Chips

INTEL OVERDRIVE

PENTIUM® OVERDRIVE 83Mhz
(OVERDRIVE CHIP FOR 33Mhz MOTHERBOARDS)

£175

Overdrive Chip 486DX2-50.....£76
Overdrive Chip 486DX2-66.....£86
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Overdrive Chip 486DX4-100.....£122
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Fujitsu FKB 4720 UK Keyboard.....£26

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Keyboard Extension Cable.....£8

Universal Plastic Keyboard Cover.....£19

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Creative Aeroduct (complete with 3D software).....£78

Genius Easy Mouse.....£8

Genius Mouse 3.....£12

Logitech Pilot Mouse Serial.....£16

Logitech Pilot Mouse PS/2.....£16

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Logitech Trackman Portable.....£30

Logitech Mouseman Sensa Mouse.....£36

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Gravis Professional Analog Joystick.....£32

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See illustration above

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PowerMac 6100/7100/8100 Performa 61xx		209	415	830	1599	
PowerMac 7500/8500/9500		269	534	1045	1985	
Performa (all except 61xx), LC, Quadra 6xx, Centris 6xx	109	209	415	830		
AST						
Premmla - All models, Bravo - MS-T, MS-L, MS, MT Pentiums		210	399	810	1590	
Bravo-LP, MT486, LC2, LC3	119	210	399	810		
COMPAQ						
Proliant 4500, 4000, 2000, 1000, Deskpro XE			510	999	1735	3420
Prolinea - All Pentiums, Presario 95xx, 55xx, Deskpro - All Pentiums except XE, XL486, Proliant 1500, Prosignia 300, 500		254	510	895	1735	3950
Presario 8xx, 7xx, 5xx	115	204	399	825		
Presario 6xx, 4xx, Prolinea 4xx	129	254	445	895		
Deskpro 386/486M (with memory expansion board), Deskpro 396/486i series	129	254				
DELL						
Powerline workstation, Poweredge, Optiplex Pentiums, Dimension XPS Pentiums, Omniplex, Performance ME		255	459	895	1740	
Optiplex 486, Netplex 486, Performance L, M, T	119	199	395	825		
DEC						
Celebris - All models, Priors XL servers, Venturis 5xx Pentiums, Starion - All models, DEC PC XL servers, 560ST, LPX566, DEC PC4xxST, 4xxSE		254	510	895	1735	
DEC PC 4xxMT, LP, LPX, LPX+	129	254	499	895		
GATEWAY						
P5 - All models		210	429	815	1710	
4DX2 - All models	120	210	429	815		
HEWLETT PACKARD						
Vectra XU, XM3, VL3, VE Pentium, VL2-560, Pavilion 7xxx, 5010, NetserverLM, Multimedia PC		209	425	820	1595	
Vectra VL2 486i XM2, M2, N2, VE, Entria - All models, Pavilion 5010, Envizex - All models	124	215	425	820		
IBM						
PC300 Pentiums, Aptiva Pentiums		215	425	815	1595	
PC300, Aptiva - 486-based	119	215	425	815		
SILICON GRAPHICS						
Challenge M, S, Iris Indy			529	999	1715	2950



NOTEBOOK MEMORY

Acermote 760i, 780i, 790i, Pentium	148	285	499		
AST					
Ascentia 950n		295	509		
Ascentia 900n	149	295	509		
COMPAQ					
LTE 5000		279	524		
Contura 400/410 family	149	275	495		
DEC					
HiNote Ultra	139	265	499		
HiNote	139	265	499		
DELL					
Latitude XP					
IBM					
Thinkpad (Butterfly)	145	269	495		
Thinkpad 340, 360	154	279	495		
Thinkpad 760/755	167	295	510		
NEC					
Versa M	148	267			
TOSHIBA					
Satellite Pro (EDO)		415	755		
T2100, T2110, T2150, T2105	155	299	525		
T4600-T4900 memory card	145	299	499		



GENERIC MEMORY

30 Pin Memory

256K SIMMs 70ns	£69
1Mb x 9 SIMMs 70ns 9 or 3 Chip	£39
1Mb x 9 SIMMs 70ns 3 Chip	£25
1Mb x 9 SIMMs 70ns 9 Chip	£30
4Mb x 9 SIMMs 70ns 3 Chip	£86
4Mb x 9 SIMMs 70ns 9 Chip	£96

72 Pin Memory

1Mb x 32 SIMMs (4Mb) 70ns	£75
2Mb x 32 SIMMs (8Mb) 70ns	£159
4Mb x 32 SIMMs (16Mb) 70ns	£315
1Mb x 36 SIMMs (4Mb) 70ns	£95
2Mb x 36 SIMMs (8Mb) 70ns	£185
4Mb x 36 SIMMs (16Mb) 70ns	£365

EDO RAM

4Mb EDO SIMM 70ns	£85
8Mb EDO SIMM 70ns	£179
16Mb EDO SIMM 70ns	£389



MEMORY KITS

For most of the following manufacturers PCs
AMSTRAD, COMMODORE, DAN TECHNOLOGY, DEC,
ICL, KAMCO, MITAC, MBC, M/JN, OLIVETTI, OLYMPIC,
TANDON, T/TKO, TIME, VALE, VIGLEN, WAITFORD

486 Memory Kits	2Mb	4Mb	8Mb	16Mb	32Mb	64Mb
30 Pin Parity Memory	£50	£100	£172			
72 Pin Non-Parity Memory	£75	£159	£318	£630	£1260	
72 Pin Parity Memory	£95	£185	£365	£730	£1460	
Pentium Memory Kits						
72 Pin Non-Parity Memory		£150	£318	£630	£1260	
72 Pin Parity Memory		£190	£370	£730	£1460	
EDO Memory	£85	£179	£389			

All Simply memory kits come with fitting instructions and are backed by a 12 month warranty including a 14 day no quibble money back guarantee. Please phone to see if your machine is compatible.

SIMM SAVERS



Instruction Manual
Life Warranty
Hot Line Support
Guaranteed Compatibility
Suitable for most PCs

Allows 8 x 30 pin SIMMs to be utilised in one 72 Pin socket£55
Allows 4 x 30 pin SIMMs to be utilised in one 72 Pin socket£29



PRINTER MEMORY

CANON	2Mb	4Mb	8Mb
LBP4 Expansion board	£78		
Module	£135		
LBP-811	£109	£179	
Notebook	£139	£179	
HEWLETT PACKARD			
	2Mb	4Mb	8Mb
Laserjet 4, M, Si, SiMX, Deskjet 1200C 12000G/PSDesignerjet 600	£149	£259	
Laserjet 11P, Laserjet 111P, Laserjet 111D, Laserjet 11D, Laserjet 11		£175	

If you do not see your computer, laptop, notebook or printer please call for details. All prices subject to market fluctuations.

All prices exclude VAT and Delivery.
All sales are subject to our standard terms and conditions.
Prices are correct at time of going to press. E&OE.

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THE PEOPLE WHO LOVE PCs
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FOR ORDERING INFORMATION SEE PAGE 5



SOUND CARDS

CREATIVE

Sound Blaster

Sound Blaster 32 PnP IDE	£99
Sound Blaster AWE32 PnP IDE	£159
Wave Blaster II	£89
Creative BlasterKeys	£105
Creative BlasterKeys Kit	£275

(Sound Blaster AWE 32, 49 key (full size) Keyboard, Software - Midi Orchestrator Plus, Melody Maestro Jr and E-mu Soundfont Libraries)

Orchid

Orchid NuSound PnP	£115
Orchid WaveBooster 2Mb + CueBase Lite	£65
Orchid WaveBooster 4Mb + CueBase Lite	£89
Orchid WaveBooster 4Mb + FX + MidiSoft	£99

Gravis

Gravis Ultrasound Max Card	£130
Gravis Ultrasound Midi Kit	£26
Gravis Ultrasound ACE Wavetable Add-in Card	£75

Trust

Sound Expert Deluxe 16+3D £49

Aztecb

Sound Galaxy Nova 16 Extra	£68
Sound Galaxy Pro 16 - 2	£58
Sound Galaxy Waverider 32+	£88
Sound Galaxy Waverider 32+ Kit	£275

Miro

MiroSound FM10	£62
Miro Sound PCM10	£81
Miro Sound PCM1 Pro	£128
Miro Sound PCM12	£138
Miro Sound PCM20 Radio	£190

Others

Portable Sound Plus	£129
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(Sound Blaster compatible connects to Parallel Port)

SPEAKERS

Small Speakers	£5
Screen Beat 4 Speakers	£9
Screen Beat 5 Speakers	£10
Screen Beat 3 Speakers	£12
Screen Beat Pro 50	£29
Screen Beat Super Woofer Speaker System	£109

(Complete with Mid and High Frequency satellite speakers)

Creative

CREATIVE

Creative 300 10W Speakers	£69
Creative 20W Speakers	£75

Labtec CS-600 Speakers	£19
Small Mains Powered Amp Speakers	£19

LARGE

£49

80W Mains Powered



AMP SPEAKERS

Sony Multimedia PC Speakers SRS-PC30	£45
Sony Multimedia PC Speakers SRS-PC50	£65

TRUST

Trust Soundwave 40	£17
Trust Soundwave 30	£24
Trust Soundwave 20	£25
Trust Soundwave 240	£41
Trust 3D Sound Dimension	£49

Yamaha Multimedia Speakers YST-M5	£36
Yamaha Multimedia Speakers YSEM10	£43
Yamaha Multimedia Sub Woofer YST-M10S	£75
ZYFI 2 Speakers	£24
ZYFI Pro 2 Speakers	£38

ACCESSORIES

TRUST

Trust Midi Headset	£12
Trust Home Music Maker	£65
Trust Professional Music Maker	£123

Headphones	£5
Microphone	£9
Creative Microphone	£17



MODEMS

SIMPLY MODEMS

Simply 14400 Internal Fax Modem	£69
Simply 14400 External Fax Modem	£99
Simply V34 Internal Fax Modem	£139
Simply V34 External Fax Modem	£149

(Simply Modems are BT approved and come with Winlows S/W)

Apex Data

ClipperCom V32 PCMCIA Modem	£149
ClipperCom V34 PCMCIA Modem	£199

Creative

PhoneBlaster Communications Centre V34	£238
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(Features: 28.8 Fax/Modem, Music on hold, pager notification, remote access. Send data files during a conversation. 16 bit stereo recording and playback, IDE CD ROM interface.)

Hayes

Hayes Accura 14.4 + Fax V32bis	£99
Hayes Accura V34 Internet Deluxe	£179

(With 30 Days free connection to the internet)

Hayes Optima 144 + Fax144 PCMCIA	£199
Hayes Optima 14.4 + Fax144	£249
Hayes Optima 28.8 V.FC and Fax	£385
Hayes Optima 28.8 V.FC + Fax Value Pack	£689

2 Hayes Optima 288 + 2 Enhanced Serial Ports (free upgrade to V34)

Miro Connect 34 Office £239

V34 Modem, High Speed Fax, Voice over Data, PnP, Loads of Bundled Software

Motorola

3+00 Online Internet Solution with Data/Fax Modem	£155
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(V34, 28,800 bps 1 month free access to CompuServe)

3400 Pro 28.8 Data/Fax Modem	£140
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MultiTech

Multitech ZDX288 External V34 fax modem	£152
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NETLINK GOLD V34

Complete Internet Access Pack containing Pace MobilFax288, free 21 days direct connection time plus all Software needed.

£165

PACE NETLINK V32

Complete Internet Access Pack containing Pace MobilFax144, free 21 days direct connection time plus all Software needed.

£115

Pace Microlin fx32 Internal - V32bis Fax Modem	£145
Pace Microlin fx34 PC Internal V34 Fax Modem	£149
Pace Linnet 34 Plus fx Desktop V34 Fax Modem	£129
Pace Microlin fx34 V34 Pocket Fax Modem	£155
Pace Linnet 32 Plus fx Desktop V32bis Fax Modem	£159
Pace Linnet Message Desk V32 Fax Modem	£168

(Voice functionality integrated with Data and Fax Fax Back and Fax Forward with enhanced audio standard. Internal Microphone)

Pace Microlin NB34 PCMCIA V34 Fax Modem	£178
Pace Microlin NB32 Plus - PCMCIA V32 Fax Modem	£185

GOLD CARD

Gold Card V34 + Fax PCMCIA Modem	£190
Gold Card V32 BIS + Fax PCMCIA Modem	£149

US Robotics

US Robotics Sportster Vi Ext	£89
US Robotics Sportster 14.4 Int	£104
US Robotics Sportster 28.8 V34 Fax Ext	£155
US Robotics Sportster 28.8 V34 Fax Int	£155

(Now with Free Internet Access Software)

US Robotics Courier V34 Int	£235
US Robotics Courier V34 Ext	£235
US Robotics Worldport Dual Standard Cellular Pocket	£121
US Robotics Worldport Dual Std Cellular V34 PCMCIA	£159
US Robotics Sportster X-Jack PCMCIA V34	£159

CABLES

9 to 25 Pin Modem Cable	£9
25 to 25 Pin Modem Cable	£9
Null Modem Cable (9 and 25 Pin connectors)	£15

AUTOMATIC FAX SWITCHES

AVRO PACIFIC FAX FRIEND AUTOMATIC FAX AND DATA SWITCH

£49

Andest

Andest MSL Manager 1100 Fax/Phone	£89
Andest MSL Manager 3300	£105
Andest MSL Manager 3300M	£125
Andest MSL Manager 7700	£145

MODEM TRAVEL ADAPTER KIT

Avro Pacific International Telephone Adapter	£39
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MULTI-MEDIA CARDS

CREATIVE

Creative TV-Coder External	£109
Creative MP400 (MPEG Player)	£119
Creative Video Blaster RT300	£215

Aztecb

Video Galaxy Gamma	£155
Video Galaxy Gamma MPEG Upgrade	£119
Video Galaxy Gamma Teletext Upgrade Module	£38
Video Galaxy Oscar (MPEG Playback board)	£189

Fast Electronic

Fast Aviator MN502010	£182
Fast Movie Machine Pro	£275
Fast Movie Machine Pro MJPEG option	£275
Fast Movie Machine 2	£465
Fast Movie Machine 2 MJPEG Upgrade	£275
Fast Movie Machine 2 MJPEG Upgrade	£225
Fast FPS 60 Card with MJPEG	£485
Fast FPS 60 Card MPEG Upgrade	£225
Screen Machine II	£655
Screen Machine II MJPEG Upgrade	£275

Hauppauge

Hauppauge!

WIN/TV CELEBRITY

£255

Hauppauge Win/TV Cinema '95	£179
Hauppauge Win/TV Prisma	£149

Kodak

KODAK

Kodak Digital Camera 40	£815
Kodak Camera AC Power Adapter	£69

Automatic exposure & built in flash, 756x504 image resolution (4 x Apple Quicktake 100 resolution), includes batteries, AC Adapter optional.



Miro

2Mb MiroVIDEO 20TD Live! PCI or VLB	£295
MiroVIDEO DC1 Plus	£299

(With Adobe Premiere, Photoshop LE, Asymmetrix 3D)

1Mb MiroVIDEO 12PD PCI or VLB	£89
2Mb MiroVIDEO 12PD PCI or VLB	£129
MiroMPEG Maker	£185
MiroVIDEO DC20 Videocapture Card	£735
PCI MJPEG 768x568	£735

Orchid

Orchid Vidiola	£249
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Sigma Design

Reelmagic Full Version	£325
Reelmagic Lite	£199

Quantum Leap Software

TV Buster External	£45
TV Buster Internal	£45
PC Tuner	£65
Media Pro Plus	£189
Media Pro Plus Hi-Res	£209

Trust PCTV Home Video Card	£165
Trust Home Cinema Module	£123
Trust Home Teletext Module	£33
Trust FM Stereo Radio Card	£32

Videologic

Videologic Captivator Pro	£165
Videologic Captivator Pro and TV	£209
Videologic MPEG Player for VMC	£209
Videologic Mediator XLC PC to TV Converter	£165

Videologic 1Mb 928 Movie ISA	£125
Videologic 1Mb 928 Movie ISA Sound	£155
Videologic 1Mb 928 Movie VLB	£125
Videologic 1Mb 928 Movie VLB Sound	£155

VIDEOLABS FLEXCAM™

DESKTOP TV CAMERA FLEXICAM IS A HIGH RESOLUTION, INTEGRATED COLOUR CAMERA AND MICROPHONE

£499

Others

Compro LaserWave Movie Studio - MPEG Video Board	£239
Intel Smart Recorder Pro	£285
Spea Showtime (MPEG Player)	£299

VIDEO CONFERENCING

Creative Labs ShareVision PC 3000	£995
Intel ProShare Video System 200	£1849
Intel ProShare Premiere Edition SFW	£199

SALES 0181 498 2100 FAX 0181 523 4002



VGA CARDS

Generic	ISA	VLB	PCI
256K VGA 800 x 600 16C	£18		
512K VGA 1024 x 768 156C	£24		
1Mb Trident 8900D 1024 x 768 256C	£39		
1Mb Cirrus Logic 16.7 Win Accelerator	£42		
1Mb Tseng ET4000 16.7m Colours	£65		
1Mb Cirrus Logic 5429 Win ACC	£48		
1Mb Tseng ET4000/W32	£79	£75	
2Mb Tseng ET4000/W32	£109	£108	
1Mb Cirrus Logic 5434	£58		
1Mb Advanced Logic AL2301	£65		
2Mb Cirrus Logic 5434	£98		
Diamond			
1Mb Diamond Stealth 64 DRAM 2000	£82		
1Mb Diamond Stealth 64 DRAM 2001	£82		
1Mb Diamond Stealth 64 Video DRAM 2001 MPEG	£115		
2Mb Diamond Stealth 64 DRAM 2001	£122		
2Mb Diamond Stealth 64 DRAM 2000	£125		
2Mb Diamond Stealth 64 Video DRAM 2001 MPEG	£136		
2Mb Diamond Stealth 64 Video VRAM 3000	£195		
4Mb Diamond Stealth 64 Video VRAM 3000	£319		
Diamond			
1Mb Diamond Edge DRAM	£219		
2Mb Diamond Edge DRAM	£259		
2Mb Diamond Edge VRAM	£319		
4Mb Diamond Edge VRAM	£439		
Hercules			
1Mb Hercules Dynamite Pro	£135		
2Mb Hercules Dynamite Power	£145	£195	
2Mb Hercules Graphite Terminator 64	£265		
4Mb Hercules Graphite Terminator 64	£379		
1Mb Hercules Stingray	£98		
1Mb Hercules Stingray Pro Video	£78		
1Mb Hercules Stingray 64 Video	£95		
2Mb Hercules Stingray 64 Video	£145		

matrox

2Mb MATROX MILLENNIUM WRAM
(WIN 95 COMPATIBLE PLUG AND PLAY)

£215

4Mb MATROX MILLENNIUM WRAM
(WINDOWS 95 COMPATIBLE PLUG AND PLAY)

£315

- True colour video, 3D and games accelerator
- Award winning 64-bit processor and new Window RAM memory
- Over 20 productivity enhancing features
- Includes free multimedia game pack with Nascar Racing and more!
- Memory upgradable to 8Mb
- Multimedia upgradable with Media XL and Media TV tuner

Number Nine

1Mb 9FX Vision 330	£79		
2Mb 9FX Vision 330	£119		
1Mb 9FX Motion 331	£119		
2Mb 9FX Motion 331	£159		
1Mb 9FX Motion 531	£118		
2Mb 9FX Motion 531	£155		
2Mb 9FX Motion 771	£218		
4Mb 9FX Motion 771	£318		
4Mb Imagine 128 1280	£485		
4Mb Imagine 128 1600	£685		
8Mb Imagine 128	£949		

Orchid

1Mb Orchid Kelvin Video 64	£79		
2Mb Orchid Kelvin Video 64	£129		
2Mb Orchid Fahrenheit ProVideo 64	£205	£185	
4Mb Orchid Fahrenheit ProVideo 64	£309	£295	

Spea

2Mb Spea V7.Mercury P64	£208		
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STB

1Mb STB Powergraph 64V	£119	£119	
2Mb STB Powergraph 64V	£149	£149	
2Mb STB Velocity 64V MPEG	£219	£245	
4Mb STB Velocity 64V MPEG	£319	£395	
2Mb STB Nitro 64		£145	

Taxan

1Mb Taxan GTS WinBoost	£114	£119	£119
2Mb Taxan GTS WinBoost	£134	£145	£145
2Mb Taxan WinTurbo 64	£194	£245	£193
4Mb Taxan WinTurbo 64	£338	£395	£338

VideoLogic GRAFIXSTAR RANGE

	VLB	PCI
1Mb GrafixStar 300	£83	£79
2Mb GrafixStar 300	£125	£115
1Mb GrafixStar 400		£85
2Mb GrafixStar 400		£129
2Mb GrafixStar 700 (Inc AVI Scaling)	£233	£229
4Mb GrafixStar 700 (Inc AVI Scaling)	£375	£375



MONITORS

14" Mono VGA Monitor	£69
14" Crystal Colour SVGA Interlaced	£165
15" Crystal Colour Monitor N-I MPRII	£228
17" Crystal 17HQ 1280 x 1024 N-I	£498

CTX

14" CTX 1451CLR N-I MPRII	£169
15" CTX 1565CD SVGA MPRII	£235
17" CTX 1765CD SVGA MPRII .2B 1024 x 768	£438
17" CTX 1785GM SVGA MPRII .26 1280 x 1024	£488
LMT 1000 16 Gray Scale LCD VGA Screen 9.4"	£485
LMT 5020 4096 Colour LCD VGA Screen 9.4"	£1965

(All the above Monitors come with 1 years on-site warranty)



17" IIYAMA

VISION MASTER FST MF8617E

£516

15" Iiyama Vision Master FST MF-8115	£279
17" Iiyama Vision Master FST Pro MT9017E	£582
21" Iiyama Vision Master FST MF8221E	£1165
21" Iiyama Vision Master FST MT9021E	£1246

(All 21" Monitors Bundled with Colorific Kodak SFW)

NEC

NEC MultiSync XV14 14" 1024 x 768 N-I	£215
NEC MultiSync XV15 15" 1280 x 1024 80Hz	£274
NEC MultiSync XV17 17" 1280 x 1024 80Hz	£569
NEC MultiSync XE15 15" 1280 x 1024 80Hz	£405
NEC MultiSync XE17 17" 1280 x 1024 80Hz	£719
NEC MultiSync XE21 21" 1280 x 1024 75Hz	£1335
NEC MultiSync XP17 17" 1280 x 1024 76Hz	£925
NEC MultiSync XP21 21" 1600 x 1200 70Hz	£1698

Panasonic

15" Panasync(TX-T1562) 1024 x 768 N-I	£279
17" Panasync(TX-D1733) 1280 x 1024 N-I	£495
17" Panasync(TX-D1733FU) 1280 x 1024 N-I	£555
<i>(Including Built In Speakers)</i>	
17" Panasync(TX-D1752) 1280 x 1024 N-I	£675
20" Panasync(TX-D2051) 1280 x 1024 N-I	£999
21" Panasync(TX-D2151) 1280 x 1024 N-I	£1359
1600 x 1281	£1359

(2 year on-site warranty with exchange on Panasonic Monitors)

Philips

14" Philips Mono Monitor 14M	£89
14" Philips Enhanced VGA Color Monitor 14C	£163
15" Philips Brilliance Autoscan Colour Monitor 15B	£254
15" Philips Brilliance Autoscan N-I Colour Monitor 15A	£275
<i>(Built In Stereo for Multimedia Applications)</i>	
17" Philips Brilliance Autoscan Colour Monitor 17A	£669
<i>(Built In Stereo for Multimedia Applications plus Plug & Play compact)</i>	
17" Philips Autoscan Colour Monitor 17C	£429
<i>(Built In Stereo for Multimedia Applications)</i>	
17" Philips Autoscan Colour Monitor 17B	£560
17" Philips Trinitron Monitor 17T	£599
20" Philips Autoscan Colour Monitor 20C	£775
20" Philips Autoscan Colour Monitor 20T	£1299
21" Philips Autoscan Colour Monitor 21B	£1439
21" Philips Brilliance Autoscan Colour Monitor with Cyberscreen Technology 21A	£1749

Samsung

14" Syncmaster 3NI 800 x 600 CQA	£159
14" Syncmaster 3NE 1024 x 768 CVP	£179
15" Syncmaster 15GLE 1024 x 768	£249
15" Syncmaster 15GLI 1280 x 1024 Plug and Play	£289
17" Syncmaster 17GLI NI 1280 x 1024	£499
17" Syncmaster 17GLSI NI 1280 x 1024 76Hz	£599

(15" and 17" Monitors with 3 year on site warranty)

Sony

Sony 15" CPDSF2 1024 x 768 N-I .25	£298
Sony 17" CPDSF2 1280 x 1024 N-I	£536
Sony 17" GDM-17SEI SVGA N-I	£785
Sony 20" GDM20SEV 1280 x 1024 N-I	£1295
Sony 20" GDM20SEI 1280 x 1024 N-I	£1395
Sony CSS-B100 Computer Speaker System	£75

Taxan

14" Taxan Ergovision 400LR Interlaced	£185
14" Taxan Ergovision 410LR N-I LR	£195
14" Taxan Ergovision 420 LR N-I	£235
15" Taxan Ergovision 580+ LR 1280x1024 N-I	£285
17" Taxan Ergovision 880 LR 1280x1024 N-I	£505
17" Taxan Ergovision 885 LR 1600x1200 N-I	£625
17" Taxan Ergovision 895 LR 1600x1200 N-I	£819
20" Taxan Ergovision 1080LR 1600 x 1200 N-I	£910
21" Taxan Ergovision 2100 LR 1600 x 1200 N-I	£1530

Viewsonic

14" Viewsonic 14ES 1024 x 768 N-I	£178
15" Viewsonic 15ES 1280 x 1024 N-I	£235
20" Viewsonic 20G 1600 x 1200 N-I	£935
21" Viewsonic 21PS 1600 x 1200 N-I	£1329

Accessories

Universal Monitor Drawstring Dust Covers	£11
14" Anti Glare Screen Filter	£29



SCANNERS

Andest

Andest FaxScanner (Win)	£59
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(Converts Fax Machine into A4 Scanner)

Avro Pacific

Scanafax (Makes your Fax Machine into a Scanner)	£29
Scanafax and Delrina Lite	£39

(Makes your Fax Machine into a Scanner)

Epson

LapCAT GT300	£290
Epson GTX5000 Parallel	£325
<i>(Corel Photopaint 5, DRAW! 4, Xerox Colour Mgmt Suite)</i>	
Epson GTX5000 SCSI	£385
<i>(Corel Photopaint 5, DRAW! 4, Xerox Colour Mgmt Suite)</i>	
Epson GTX8500 Parallel (Photoshop LE, OmniPage Direct)	£489
Epson GTX8500 SCSI (Photoshop LE, OmniPage Direct)	£565
Epson GTX9000 SCSI (Photoshop LE, OmniPage Direct)	£665
Epson GTI8500 SCSI (Adobe Photoshop V3)	£765
Epson GTI9000 SCSI (Adobe Photoshop V3)	£848
Epson GTX9000 Parallel (Photoshop LE, OmniPage Direct)	£613
Epson Bi-Directional Parallel Port	£35

Genius

Scanmate/256	£59
ScanMate Colour	£115

Hewlett Packard



HEWLETT PACKARD

HP 4s Grey Scale Document Scanner	£225
HP 4c Colour Scanner	£395
HP 4si Colour Scanner for Networking	£1,602

Logitech

Logitech 256 Scanner	£69
Logitech Easytouch Scanner	£105
Logitech Scanman Colour	£135
Logitech PageScan	£278
Logitech ScanPad	£12

Nikon

Nikon Scantouch LE	£915
Nikon Super CoolScan	£1,399

Sicos

SICOS

COLOUR PAGE SCANNER

£199

Trust

TRUST

Trust Ami-Scan Colour	£82
Trust 1200dpi Flatbed Scanner	£285
Trust 2400SP 2400dpi Flatbed Scanner	£385

Other

ScanFX - Scanner, Fax, Copier	£379
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(Colour/B&W 1200x1200dpi Scanner with Fax and Copying, comes with Wordscan OCR, Picture Publisher LE)

Umax

UMAX

VISTA T630 300X600dpi COLOUR SCANNER

£299

Gemini	£765
Page Office	£275
Vista S8 400x800dpi Colour Scanner	£525
UC1260 Colour Scanner	£749
Powerlook 600x1200dpi Colour Scanner	£1945

(All UMAX Scanners come with Presto! Software)

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All sales are subject to our standard terms and conditions.
Prices are correct at time of going to press. E&OE.

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NETWORK CARDS

SIMPLY Network

Simply NE2000 Compatible 16 Bit BNC	£19
Simply NE2000 Compatible 16 Bit RJ45	£19
Simply NE2000 Compatible 16 Bit Combo Card ISA	£25
Simply NE2000 Compatible 32 Bit Combo Card VLB	£79
Simply NE2000 Compatible 32 Bit Combo Card PCI	£89
Simply NE3210 Compatible EISA 32 Bit Combo Card	£159
Simply NE2000 Boot ROM	£5

(All the above Cards are Novell approved)

Novell

Novell NE1000 8 Bit ISA	£74
Novell NE2000 Plus 16 Bit BNC	£48
Novell NE2000 Plus 16 Bit RJ45	£48
Novell NE2000 Plus-3 16 Bit Combo Card	£59
Novell NE2000 Plus 5 Pack 16 Bit either RJ45 or BNC	£225

3Com

3COM Etherlink III 3C509B ISA RJ45	£64
3COM Etherlink III 3C509B ISA BNC	£64
3COM Etherlink III 3C509B ISA RJ45/BNC Combo	£73
3COM Etherlink III 3C509 ISA either BNC or RJ45 5 Pack	£295
3COM Etherlink III 3C509 ISA RJ45/BNC Combo 5 Pack	£315
3COM Etherlink III 3C579 EISA BNC	£139
3COM Etherlink III 3C579 EISA RJ45	£139
3COM Etherlink III 3C590 PCI Combo Card	£99
3COM Etherlink III 3C589 PCMCIA RJ45 and BNC	£129
3COM Etherlink III 3C589 PCMCIA RJ45	£98

SMC Ethercard

SMC PCI EtherPower Adapter Combo	£92
SMC PCI EtherPower Adapter Combo 5 Pack	£425
SMC EtherEZ ISA RJ45	£58
SMC EtherEZ ISA BNC	£58
SMC EtherEZ ISA Combo RJ45 and BNC Win '95 Plug and Play	£63
SMC EtherEZ ISA Combo RJ45 and BNC	£63
SMC EtherEZ ISA RJ45 or BNC 5 Pack	£305
SMC EtherEZ ISA Combo RJ45 and BNC 5 Pack	£335

C-Net Technology

CNet CN200Eplus - ISA 16 BNC	£26
CNet CN600Eplus - ISA 16 RJ45	£25
CNet CN650Eplus - ISA 16 BNC/RJ45 Combo	£30
CNet CN935X - PCI ethernet BNC/RJ45 Combo	£69
CNet CN650Eplus/5 - ISA BNC/RJ45 5 Pack	£142
Cnet CN650Eplus/10 - ISA BNC/RJ45 10 Pack	£266
CNet CN40BC - PCMCIA BNC/RJ45 Combo	£89
CNet CN288PnP - ISA Win '95 Plug and Play Combo	£43
CNet CN100TX - 100/10Mbps Fast Ethernet Card	£109

D Link

D Link DE600CT Pocket Adapter BNC/RJ45	£55
D Link DE620CT Pocket Adapter BNC/RJ45	£89
D Link DE220CT Ethernet Card BNC/TP	£45
D Link DE320CT MCA Ethernet Card BNC/TP	£85
D Link DE400 EISA Ethernet Card BNC/TP/AUI	£129
D Link DE530CT PCI Ethernet Card BNC/TP	£99
D-Link DE650CT NE2000 PCMCIA Combo Card	£99
D Link DLIT 220+ Token Ring Card	£229

Intel



INTEL EtherExpress ISA 16 BNC	£64
INTEL EtherExpress ISA 16 RJ45	£73
INTEL EtherExpress ISA Flash Combo	£89
INTEL EtherExpress ISA 16 BNC 5 Pack	£385
INTEL EtherExpress ISA 16 RJ45 5 Pack	£385
INTEL EtherExpress ISA Flash Combo 5 Pack	£445
INTEL EtherExpress PRO/100	£115
INTEL EtherExpress PRO/100 Smart Adapter	£535



PRINT SERVERS

Print Servers

Chase Research IOPRINT Jr. RG45 Parallel	£195
Chase Research IOPRINT Jr. Combo Parallel	£225
Chase Research IOPRINT2 BNC 4 Ports 25 2P	£495
Chase Research IOPRINT2 RG45 4 Ports 25 2P	£495



HUBS AND REPEATERS

ETHERNET HUBS

SIMPLY Hubs

Simply 8 Port TP Hub (8 x RJ45, 1 x AUI)	£124
Simply 12 Port TP Hub (12 x RJ45, 1 x BNC, 1 x AUI)	£169
Simply 16 Port TP Hub (16 x RJ45, 1 x BNC, 1 x AUI)	£249
Simply 24 Port TP Hub (24 x RJ45, 1 x BNC, 1 x AUI)	£354

3 Com

3C16670 12 Port FMS II Hub (12 x RJ45, 1 x AUI)	£389
3C16671 24 Port FMS II Hub (24 x RJ45, 1 x AUI)	£689
3C625 FMS II Link Cable	£29

D Link DE-805TP 5 Port with Keyboard Port Power Cable

£77

D Link DE-809TC 8 Port Hub with BNC	£129
D Link DE-812TP+ 12 Port Hub with BNC and AUI	£175
D Link DE-816TP 16 Port Hub with BNC and AUI	£235
D Link DE-824TP 24 Port Hub with BNC and AUI	£359



D Link DE-1200 12 Port Stackable Hub BNC/AUI
£300

Link DE-1400-45 24 Port Stackable Hub. Slave Unit to DE-1600i
£469

D Link DE-1600i SNMP 12 Port Stackable Hub
£550

SMC

SMC Tiger Hub TP6 6 Port	£165
SMC 3812 14 Port Hub	£495

CNet

CNet CN8810UX 10 Port Mini Hub with AUI/BNC	£109
CNet CN8020X 20 Port Hub with AUI/BNC	£249
CNet CNFH1200 100Mbps 12 Port Fast Hub	£1220

SWITCHES

SMC TigerSwitch

24 Port Ethernet Switch with Dual 100BaseTx Ports	£5550
24 Port Ethernet Switch with Dual 100BaseFx Ports	£5945
12 Port Ethernet Switch with Dual 100BaseTx Ports	£3855
12 Port Ethernet Switch with Dual 100BaseFx Ports	£4245
24 Port Ethernet Switch with Unconfigured Slot	£4555
12 Port Ethernet Switch with Unconfigured Slot	£2885
24 Port Ethernet Switch	£4555
Dual 100BaseFX Slide in Daughter Card	£970
Dual 100BaseTX Slide in Daughter Card	£970

REPEATERS

D Link

D-Link Repeater 2 Port BNC/AUI (DE-802)	£269
D-Link Repeater 4 Port BNC/AUI (DE-804)	£325
D-Link Repeater 8 Port 8x BNC 2 x AUI	£555

Allied Telesyn

Allied Telesyn 2 Port Repeater BNC/BNC (ATMR125)	£239
Allied Telesyn 4 Port Repeater 4BNC and 1 AUI (AT3004SL)	£435
Allied Telesyn 8 Port Repeater 8BNC and 1 AUI (AT3008SL)	£529

CNet

CNet CN4020ERP 2 Port Repeater BNC/AUI	£135
CNet CN4040ERP 4 Port Repeater BNC/AUI	£199
CNet CN8900BNC 8 Port Repeater BNC/AUI	£342

TRANSCEIVERS

Allied Telesyn Micro Transceiver BNC/AUI (ATMX10S)	£35
Allied Telesyn Micro Transceiver UTP/AUI (AT210TS)	£35

CABLES AND CONNECTORS

Connectors

BNC Connector with Boot	£1
BNC-T-Connector	£2
BNC Terminator	£1
BNC In-Line Coupler	£2
RJ45 Connector with Boot	£1
Single BNC OutLet (FacePlate)	£4
Dual BNC OutLet (FacePlate) and Back Box	£6
Dual RG45 OutLet (FacePlate)	£12
EAD Thinwire Tap OutLet	£24
EAD Thinwire drop Lead 2M	£26
EAD Thinwire drop Lead 5M	£36

Professional Tools

BNC Crimp Tool	£29
Ethernet Cable Stripper BNC	£15
RJ45 Crimp Tool	£75
RJ45 and BNC Cables made to order	P.O.A.



UPS

UPS SYSTEMS

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EMERSON

Powerlite EMP250 250VA Off-line	£75
Powerlite EMP400 400VA Off-line	£105
Powerlite EMP600 600VA Off-line	£142
Accupower Select EMS400 400VA Line Interactive	£195
Accupower Select EMS600 600VA Line Interactive	£215
Accupower Select EMS900 900VA Line Interactive	£365
Accupower Select EMS1400 1400VA Line Interactive	£515
Accupower Select EMS2000 2000VA Line Interactive	£815
Accupower Select EMS3000 3000VA Line Interactive	£1155
Upstation GX 1000 1000VA On-line	£1059
Upstation GX 1500 1500VA On-line	£1399
Upstation GX 2100 2100VA On-line	£2299
Sitenet1 for Novell	£55
Sitenet1 for Unix	£55
Sitenet1 for Windows NT	£65

APC

APC BK250i-250 VA Backup	£75
APC BK400i-400VA Backup	£105
APC BK600i-600 VA Backup	£142
APC BK900i-900 VA Backup	£258
APC BK1250i-1250 VA Backup	£325
APC BackUPS Pro 280 PNP includes PowerChute Pro	£109
APC BackUPS Pro 420 PNP includes PowerChute Pro	£159
APC BackUPS Pro 650 PNP includes PowerChute Pro	£209
APC Smart UPS 250i	£169
APC Smart UPS 700i	£235
APC Smart UPS 1000i	£389
APC Smart UPS 1400i	£539
APC Smart UPS 2200i	£835
PowerChute Software 4.2 Novell	£45
PowerChute Software 4.2 LAN Manager	£45
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Station 60 600 VA Off-line UPS	£140
Station 90 900 VA Off-line UPS	£265
Station 140 1400 VA Off-line UPS	£359
LAN 40 400 VA Line Interactive UPS	£189
LAN 60 600 VA Line Interactive UPS	£205
LAN 75 750 VA Line Interactive UPS	£269
LAN 100 1000 VA Line Interactive UPS	£399
System 60 600 VA On-line UPS	£449
System 100 1000 VA On-line UPS	£599
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Artisoft

Lantastic Single User	£59
Lantastic 2 User Starter Kit	£245
Lantastic Extra User S/W	£115

Novell

Novell Personal Network	£44
Novell Personal Network 5 User	£184
Novell Personal Expansion Kit	£128
Novell Network 3.12 5 User	£432
Novell Network 3.12 5 User CD	£460
Novell Network 3.12 10 User	£994
Novell Network 3.12 25 User	£1468
Novell Network 3.12 50 User	£2030
Novell Network 3.12 100 User	£2845
Novell Network 3.12 250 User	£5083
Novell Network 4.1 5 User	£415
Novell Network 4.1 10 User	£972
Novell Network 4.1 25 User	£1423
Novell Network 4.1 50 User	£2031
Novell Network 4.1 100 User	£2847
Novell Network 4.1 250 User	£4546
Novell NW Manage Wise 1.0 5 User	£749

Microsoft

MS Windows For Workgroups 3.11	£89
MS Windows for Workgroups Upgrade	£40
MS Windows NT 3.51 Workstation CD/Disc	£218
MS Windows NT Server V3.5 CD	£475

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HP HEWLETT PACKARD DESKJETS

HP DESKJET 600 MONO
(UPGRADABLE TO COLOUR)

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HP Deskjet 660C.....£239
HP Deskjet 850C.....£316
HP OfficeJet.....£465

HP DESKJET 340
WITH 30 PAGE SHEETFEEDER

£166

HP Deskjet 1600C.....£819
HP Deskjet 1600CM.....£1218
HP Deskjet Colour Kit.....£28

HP HEWLETT PACKARD LASERJETS

HP LASERJET 5L

£344

HP Laserjet 5P.....£568
HP Laserjet 5MP.....£716

HP Laserjet 4 Plus.....£968
HP Laserjet 4M Plus.....£1289
HP Laserjet 5Si.....£2045
HP Laserjet 5Si MX.....£2985
HP Laserjet 4V A3 Laser Printer.....£1360
HP Laserjet 4MV A3 Postscript Laser Printer.....£1960
HP Color Laserjet.....£4172

Paintjets
HP Paintjet XL300.....£1585
HP Paintjet XL300 Postscript.....£2575

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Support Pack 1200C/PS, Pjets, 1600C/CM, 4L.....£105
Support Pack 5L.....£112
Support Pack 5Si, 5Si/MX.....£530
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Support Pack 4V, 4MV.....£235
Support Pack 4Si/MX.....£530
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Support Pack Scanjet 4s.....£66

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Epson LX1050+ 9Pin Dot Matrix.....£178
Epson FX870 9Pin Dot Matrix.....£235
Epson FX1170 9Pin Dot Matrix.....£294
Epson LQ300 24 Pin Dot Matrix.....£119
Epson LQ570+ 24 Pin Dot Matrix.....£206
Epson LQ1070+ 24 Pin Dot Matrix.....£289
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Epson Stylus 820.....£164
Epson Stylus 820 Colour Kit.....£55
Epson Stylus Colour IIS.....£184
Epson Stylus Colour II.....£248
Epson Stylus Pro A4 Printer.....£395
Epson Stylus Pro XL Colour A3 Oversize.....£805
Epson EPL-3000 4ppm Laser Printer.....£335
Epson EPL-9000 8ppm A3 Laser Printer 600dpi.....£1195
Epson EPL-9000PS 8ppm A3 Postscript Laser 600dpi.....£1475

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6ppm WINDOWS
PRINTER

£309

Brother HL-631 6ppm (1Mb) Windows Printer.....£338

BROTHER HL660
600dpi WINDOWS
6ppm LASER

£444

BROTHER HL1260
600dpi 12ppm
B&W LASER

£875

Canon

Canon BJ30 Mono Portable Printer.....£136
Canon BJ200ex Bubblejet Printer.....£154
Canon BJC70 Colour Portable Printer.....£214
Canon BJ230 Printer.....£236
Canon BJ300 80 Column Bubblejet.....£355
Canon BJ330 136 Column Bubblejet.....£389
Canon BJC4000 Colour Printer.....£214
Canon BJC610e Colour Inkjet.....£312
Canon BJC800 Colour Bubblejet.....£995

Kyocera

Ecosys FS-400 4ppm.....£349
Ecosys FS-1550 10ppm.....£855
Ecosys FS-1600 10ppm.....£1045
Ecosys FS-3400 18ppm.....£1338
Ecosys FS-3600 18ppm.....£1748

Lexmark

Lexmark Winwriter 150c Printer.....£249
Lexmark Winwriter 400 Laser Printer.....£550
Lexmark Winwriter 600 Laser Printer.....£704
Lexmark Optra R 1200dpi
2Mb Laser Printer.....£955
Lexmark Optra L 1200dpi
4Mb Laser Printer.....£1365
Lexmark Optra Lx 1200dpi
4Mb Laser Printer.....£1885
Lexmark Optra Lxi 1200dpi
8Mb Laser Printer.....£2228

NEC

NEC Superscript 610plus 6ppm Laser.....£235
NEC Superscript 660 6ppm Laser.....£349
NEC Superscript 660i 6ppm Laser.....£519
NEC Superscript Color 3000 1ppm Laser.....£445

OKI

OKI

OKI Inkjet
OKIJET300C 300dpi Inkjet Printer.....£234

OKI Laser Printers

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OKI OL400W
4ppm LASER
PRINTER

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OKI

OKI OL610EX
6ppm 300dpi
2Mb LASER
PRINTER

£372

OKI OL600ex 6ppm 300dpi 1Mb Laser Printer.....£296
OKI OL810ex 600dpi Laser Printer.....£625

PRINTERS Cont.

OKI ML320
DOT MATRIX
PRINTER

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OKI ML520 Dot Matrix Printer.....£339
OKI ML590 Dot Matrix Printer.....£435
OKI ML3410 Dot Matrix Printer.....£849

Panasonic Dot Matrix

Panasonic KX-P-1150 9 Pin Dot Matrix.....£87
Panasonic KX-P-2023 24 Pin Mono Dot Matrix.....£108
Panasonic KX-P-2124 24 Pin Mono Dot Matrix.....£198
Panasonic KX-P-2135 24 Pin Colour Printer.....£125
Panasonic KX-P-3626 24 Pin Mono Dot Matrix.....£265

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Panasonic KX-P6100 6ppm GDI Laser Printer.....£265
Panasonic KX-P6150 6ppm PCL Laser Printer.....£317
Panasonic KX-P-6500 6ppm GDI/PCL Laser Printer.....£345
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Star

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(Ultra Compact - 10"x2"x1 - only 17.5 oz weight)

ACCESSORIES

Universal Printer Drawstring Dust Cover Large.....£10
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PRINTER CONSUMABLES

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Laserjet 5L Toner Cartridge.....£41
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Magenta Toner Bottle (HPC3104A).....£24
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Deskjet Port, Deskjet 310,320 Black (HP51633A).....£14
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Deskjet 600/660C Black Cartridge (HP51629A).....£19
Deskjet 600/660C Colour Cartridge (HP51649A).....£22

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Deskjet 850 Black Cartridge (HP51645A).....£18
Deskjet 850 Colour Cartridge (HP51641A).....£18

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Deskjet 1200C/1600C Yellow Cartridge (HP51640Y).....£21

HP Paintjet XL3000

Paintjet XL3000 Black Cartridge (HP51639A).....£15
Paintjet XL3000 Cyan Cartridge (HP51639C).....£17
Paintjet XL3000 Magenta Cartridge (HP51639M).....£17
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Quicken Deluxe Business Pack V4 on 3.5"	£45
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- Adobe Photoshop V3.0 LE
- Umax Vistascan software
- One year on-site warranty
- T630 PRO £725
- Three pass
- Lowest price **£295**



UMAX VISTA S8

- Low cost bundle
- Ultra View Technology
- 400 x 800 dpi optical
- 6400 dpi with interpolation
- Adobe Photoshop V3.0 LE
- Umax Vistascan software
- One year on-site warranty
- Single pass scanner
- *S8 PRO £899
- *S8 PLUS £599
- Excellent value **£499**



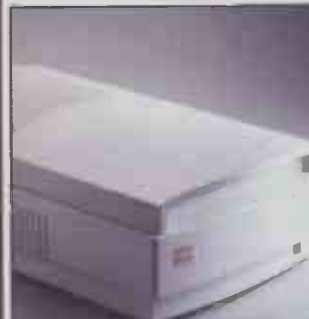
UMAX S12

- Brand new Umax model
- 600 x 1200 dpi optical
- 30 bit single pass scanning
- Adobe Photoshop V3.0 LE
- Umax Vistascan software
- One year on-site warranty
- *S12 PRO £999
- *S12 PLUS £675
- Excellent all round solution
- High speed
- Great value **£575**



POWERLOOK II

- Brand new 36bit model
- 5000 pixel CCD
- Inc. SCSI card & software
- 600 x 1200 dpi optical
- 9600 dpi with interpolation
- Adobe Photoshop V3.04
- Umax Magicscan software
- Inc. transparency adaptor
- Thermocompensation
- Max 3.3D **£2299**



UMAX GEMINI

- 30 bit scanner
- Single Pass colour
- 800 x 1600 dpi optical
- 3200 dpi with interpolation
- Adobe Photoshop V3.0 LE
- Dual lens system
- One year on-site warranty
- The photographers choice!
- *Gemini PRO £1199
- *Gemini PLUS £939
- New Model **£799**



MIRAGE A3

- Scans x-ray film, satellite photos and negatives
- 800 x 1600 dpi optical
- 9600 dpi with interpolation
- High dynamic range
- Adjustable light intensity
- Call for full spec sheets!
- Multiple & batch scanning
- Inc. transparency adaptor
- Professional choice
- Dual lens **£5999**

* PRO versions include a transparency adaptor and a full version of Adobe Photoshop V3.04 (Windows 95 ready)

* PLUS versions include a full version of Adobe Photoshop V3.04 (Windows 95 ready) Page Office **£239**

*****FREE PRESTO FILE MANAGEMENT & OCR SOFTWARE ON ALL UMAX SCANNERS UNTIL 29/03/96*****



- Market leader in handhelds
- New models now available
- Scanner experts on hand
- Winner of several awards
- The ultimate handheld scanner



HEWLETT PACKARD

SCANMATE COLOR PRO

- Now improved with higher resolution!
- Stunning 1600 dpi, 16Million colours
- The ultimate 24 bit hand scanner
- Photo Finish 3.0 image software
- Smart Page Direct OCR software
- Fully TWAIN compliant
- MorphEditor software

£117

HP SCANJET 4C

- Upgraded version of popular HP 3C
- The latest model from HP
- Please call for full specifications
- New software bundle now included
- HP 4S mono model £225
- 4si (token ring) £1749
- 4si (ethernet) £1559

£595



GTX models include Adobe Photoshop LE and Xerox Management software (includes OCR). GTI models include full version Adobe Photoshop V3.04



- GTX5000 PARALLEL **£293**
- GTX5000 SCSI **£346**
- GTX8500 PARALLEL **£465**
- GTX8500 SCSI **£540**
- GTX9000 PARALLEL **£564**
- GTX9000 SCSI **£656**
- GTI8500 SCSI **£713**
- GTI9000 SCSI **£812**

LOGITECH

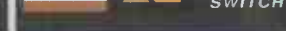
- Innovative new portable scanners
- Well established scanner manufacturer
- Includes one year Logitech guarantee
- Scanman Colour Hand Scanner **£138**

LOGITECH

LOGITECH PAGESCAN

- Portable 24-bit colour scanner
- Versatile sheetfed convenience
- Ideal solution for portable computers
- Xerox Textbridge OCR software
- Full document management software
- Connects to the parallel port
- User friendly software

£278



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EPSON®

- Epson manufacture the highest resolution inkjets now available
- New models improve the existing popular range of printers
- Professional desktop publishing models now reduced in price
- Epson microdot technology (PRO models) improves resolution
- We offer the complete selection of Epson scanners and printers



EPSON STYLUS COLOUR II

- Fantastic high resolution printing on various papers
- Compare the specifications with other inkjets!
- 720 x 720 dpi colour and true black printing
- Improved version of the Epson Stylus Colour
- Handles 720dpi, 360 dpi and glossy papers
- 3 year warranty included as standard
- New even lower pricing from Tech Direct

£248



EPSON EPL-9000 LASER

- Handles true A3 printing and A4 at up to 8 p.p.m
- Includes high speed SPARCite RISC processor
- Up to 80 built-in fonts, and with print enhancement
- PCL5e, Epson and HPGL2 compatible
- High speed parallel and serial interface
- 250 sheet universal paper feeder
- EPL9000 Postscript available

£1085



EPSON STYLUS PRO XL

- This is the professional desktop publishing answer!
- 720 x 720 dpi with Epson MicroDot technology
- Handles A4, A3 and Super A3 paper sizes
- Handles plain, 360 dpi, 720 dpi, and gloss papers
- Includes parallel and RS422 high speed serial port
- One year manufacturers warranty included
- Ideal as a pre-press proofing solution

£805

EPSON STYLUS 820	£163
EPSON STYLUS COLOUR II	£248
EPSON STYLUS COLOUR IIS	£183
EPSON STYLUS 1500 - A3 PLUS, 720DPI, TRACTOR, OPTIONAL COLOUR	£534
EPSON STYLUS PRO A4	£383
EPSON STYLUS PRO XL A3	£805
EPSON EPL5500 LASER 1Mb	£356
EPSON EPL9000 LASER	£1085
EPSON EPL9000PS LASER	£1495

OKI

- Several brand new laser and inkjet printers just launched!
- All laser models include one year on-site warranty as standard
- Split toner and drum means cheaper consumable costs
- ON/OFF switch is fitted as standard (check the opposition!)
- Technical support is available direct from OKI in the U.K.



OKI 2010

- Brand new colour inkjet printer from OKI
- Fast high quality text and graphics output
- On screen software control from within Windows
- 600 x 300 dpi output with resolution enhancement
- Will print to DOS via Windows DOS box
- Dual head ready for black and colour
- Straight paper path to prevent jams

£248



OKI 600EX

- Presenting OKI's best selling LED printer!
- 600 x 600 dpi when printing through Windows
- 6 pages per minute output, PCL4.5 emulation
- Standard 1Mb of memory (max 18Mb)
- OKI 610EX (2Mb Ram & PCL5e) £370
- 5 year LED head warranty as standard
- One year on-site warranty as standard!

£294



OKI 400W

- New GDI LED printer for Windows users!
- 300 x 300 dpi resolution (upgradeable to 600dpi)
- Separate toner & drum units for lower running costs
- The cheapest LED printer on the market today
- PCL4.5 DOS emulation, 4 p.p.m. print speed
- 5 year LED head warranty as standard
- One year on-site warranty as standard

£249

OKI 610ex - 600 x 600 dpi, 6 pages per minute, PCL5e, 2Mb Ram	£370
OKI 810ex - 600 x 600 dpi, 8 pages per minute, PCL5e, 2Mb Ram	£625
OKI 1200ex - 600 x 600 dpi, 12 pages per minute, PCL5e, 2Mb Ram	£975
OKI MICROLINE 380 80 Column, 24 pin dot matrix printer	£249
OKI MICROLINE 386 136 Column, 24 pin dot matrix printer	£399
OKI MICROLINE 520 80 Column, 9 pin dot matrix printer	£339
OKI MICROLINE 521 136 Column, 9 pin dot matrix printer	£449
OKI MICROLINE 590 80 Column, 24 pin dot matrix printer	£435
OKI MICROLINE 591 136 Column, 24 pin dot matrix printer	£599

Canon

- Fantastic choice of colour and mono printers at affordable prices
- Canon are one of the worlds largest printer manufacturers
- From portable compact A4 models up to desktop A3 sizes
- Pioneers in low cost inkjet printing - refillable cartridge designs
- Call Tech Direct for the best Canon prices available!



CANON BJC-610

- Brand new model just launched!
- 720 x 720 dots per inch on plain paper!
- 20 scalable true type fonts, 6 internal bitmapped
- Prints on plain paper, transparencies, & high res paper
- Four separate cartridge system - more economic!
- Microsoft Windows printing system
- 100 sheet auto document feeder

£314



CANON BJC-4000

- Colour desktop printing in compact design!
- True black and colour cartridges together
- 360 x 360 dot per inch colour printing
- 720 x 360 dpi black printing with BC20 cassette
- Includes built in 100 sheet feeder as standard
- Optional high capacity black tank (BC20)
- Refillable ink tanks for black and colour

£214



CANON LBP-460

- 300 x 300 dpi with image refinement technology
- Compact and attractive desktop design
- Windows 3.1, 3.11 and Windows 95 compatible
- Software jointly developed with Microsoft
- Prints to transparencies, envelopes and labels
- One year on-site warranty as standard
- Fast return to application time

£266

CANON BJ30 portable A4 mono printer	£136
CANON BJC70 portable A4 colour printer	£213
CANON BJ200ex desktop A4 mono printer	£153
CANON BJ230 compact wide carriage printer	£234
CANON BJC610e dedicated A4 colour printer	£313
CANON BJ300 A4 mono tractor fed printer	£343
CANON BJ330 A3 mono tractor fed printer	£386
CANON BJC800 A3 colour printer	£875
CANON LBP1260 laser printer	£883

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Personal Computer
Products

HP INKJET PRINTERS

HP LASER PRINTERS



HP DESKJET 600

- 600 x 300 dpi Ret enhanced
- 3 ppm print speed in black
- Optional colour kit for just £29
- £214 including supportpack
- Built in sheetfeeder
- 3 year warranty

£174

This latest addition to the Hewlett Packard inkjet range is the ideal entry level printer for the home or small business. Although only a mono printer as standard the colour upgrade option is just £29 extra, and a worthwhile purchase at the same time as the printer.



HP LASERJET 5L

- 4 ppm print speed
- 600 dpi with enhancement
- £444 with supportpack
- 100 sheet paper input tray
- 1Mb standard memory
- 26 scalable fonts

£339

Just launched the new Hewlett Packard 5L sets an incredible pace to follow! Despite being the entry level laser in the range this unit delivers an incredible 600 dots per inch resolution at a rapid 4 page per minute sprint speed! Quite simply excellent value for money.



HP DESKJET 660C

- 4 ppm print speed in black
- Improved 600 x 300 dpi colour
- New 2 Button control panel
- £302 including supportpack
- Built in sheetfeeder
- Excellent value

£237

Another new printer from Hewlett Packard! The 660C comes equipped for colour and mono printing with the advantage over the Deskjet 600 that you can print true black and colour on the same page. Now offered at an even lower price from Tech Direct!



HP LASERJET 5P

- Rapid 6 ppm print speed
- 600 dpi with enhancement
- Infrared Port for Windows 95
- £700 including supportpack
- 2 Mb standard memory
- £718 5MP model

£565

For those requiring more speed take the Hewlett Packard 5P for a quick spin round the block! 6 pages per minute and 600 dpi make this the obvious choice for general office work. With 2Mb Ram as standard this unit is built to cruise through your paperwork!



HP DESKJET 850C

- 6 ppm print speed in black
- Faster 600 x 300 dpi in colour
- New Model - 2 Button control
- £383 including supportpack
- Built in sheetfeeder
- Accepts envelopes

£318

The higher specification 850C is the ideal choice for faster printing in colour or in black and white. Offering a class leading print speed of up to 6 pages per minute in mono and improved colour production from new ink technology. This inkjet is the professional choice!



HP LASERJET 4PLUS

- 12 pages per minute
- 600 dpi with enhancement
- Network options available
- £1129 including supportpack
- 2Mb standard memory
- £1288 4MPlus model

£959

Designed specifically to handle serious workloads the 4Plus delivers rocket ship performance at 600 dots per inch. If you want your business to really take off buy a Hewlett Packard 4Plus and blast past the opposition. If you're not starstruck yet just look at our pricing!

HP OFFICEJET LX	£459
HP DESKJET 340	£167
HP DESKJET 340 COLOUR KIT	£29
HP DESKJET 1600C	£812
HP DESKJET 1600C PS	£1217

HP LASERJET 5SI	£1999
HP LASERJET 5SIMX	£2899
HP LASERJET 4V	£1355
HP LASERJET 4MV	£1959
HP COLOR LASERJET	£4190

LEXMARK™

- Lexmark have scooped several printer awards
- Lexmark lead the market with new products
- Tech Direct are authorised resellers for Lexmark
- We will not be beaten on price! Please call us!

LEXMARK OPTRA R+ - 16 p.p.m., 2Mb Ram, Postscript	£995
LEXMARK OPTRA RT+ - 16 p.p.m, 2Mb Ram, Postscript	£1199
LEXMARK OPTRA LX+ - 16 p.p.m, 8Mb, Postscript	£1699
LEXMARK OPTRA LXi+ - 16 p.p.m, 8Mb, Postscript	£2249
LEXMARK OPTRA C - 600 dpi colour laser, 8 Mb Ram	£Call
LEXMARK OPTRA C pro - 32Mb Ram and Ethernet card	£Call
OPTRA ON-SITE WARRANTIES	£Call



LEXMARK 150C

- Personal Computer World Ed's Choice!
- Computer Shopper Best Buy winner!
- 600 x 300 dpi colour and black
- Free CorelDraw 4.0 software (on CD)
- Ready for Windows 95 (inc. drivers)
- 3 Year Warranty included
- Fast Windows printing

£249



OPTRA R+ LASER

- Brand new class leading model!
- The only true 1200 x 1200 dpi laser
- 16 pages per minute @ 600 dpi
- Fully networkable office printer
- High speed 32 bit RISC processor
- One year on-site warranty
- Simply the ultimate laser!

£995



LEXMARK 1020

- Our cheapest colour printer!
- The new multimedia printer
- Free CorelDraw version 3.0 software
- 600 x 300 dpi in black or colour
- Colour solution for the home or office
- Three year warranty as standard
- Ready for Windows 95

£175

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No credit card surcharges (except Amex @ 1.5% - sorry!) Your credit card will only be debited on despatch of your order

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Order from us and if we have the goods in stock we will deliver the next working day (£9.95 +

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If you wish to collect please call to ensure availability and to reserve stock! A £5 handling charge will apply for collections

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CONDITIONS OF SALE

Prices and specifications are unfortunately subject to change. Please check suitability with manufacturers before purchase. Goods are not supplied on a trial basis and are subject to our standard conditions of sale. A re-stocking fee of 15% will apply to non-defective returns. Errors and omissions excepted.



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THE LOWEST UK PRICES - CALL NOW!



- Kyocera lead the way in economic printing
- Drums are guaranteed for the printer life
- The latest cost saving technology
- Three year on-site support options
- New A3 laser just launched!



KYOCERA FS400

- 4 pages per minute printing
- Enhanced 300 x 1200 dpi
- Energy Star compliance
- 100,000 page drum guarantee
- 79 bitmap, 13 scalable fonts
- Optional Postscript emulation
- Low cost per page output
- Cartridge free design
- 12 month warranty **£345**

The above Kyocera FS400 desktop personal printer offers outstanding longterm value for money. The cartridge free design means the only consumable to buy is a replacement toner for £15.50 whilst the FS400 is still equipped with a wealth of features and network/paper options. Be kind to the planet and your wallet with a Kyocera FS400 printer.



KYOCERA FS1550

- 10 pages per minute
- Enhanced 300 x 1200 dpi
- 250 page sheet feeder
- 79 bitmap, 13 scalable fonts
- HP Laserjet III emulation
- Optional network interface
- Optional Postscript
- Optional paper bins
- Low running costs **£851**

For speed and economy the FS-1550 leads the pack. Resolution enhancement ensures all your work is clear and precise, whilst the low running costs ensure you are making the best long-term investment. There is also an excellent selection of options for an expanding office, allowing the FS-1550 to actually grow with your business!

KYOCERA LASERS

FS-400 Twin Bin	£449
FS-1600	£1039
FS-3400	£1335
FS-3600	£1745
FS-5500	£3329
FS-6500 A3 New!	£1548

KYOCERA TONER KITS

FS-400	£15.50
FS-1550/1600	£44
FS-1500	£31
FS-5500	£38
FS-6500	£44

KYOCERA ON-SITE WARRANTIES

	1 YEAR	2 YEAR	3 YEAR
FS-400	£49	£79	£99
FS-1550/1600	£99	£166	£199
FS-5500	£260	£416	£499
FS-6500	£199	£333	£399

KYOCERA MEMORY

1 MEG	£60
2 MEG	£99
4 MEG	£159

KYOCERA OPTIONS

	DUPLEX UNIT	500 TRAY	POSTSCRIPT
FS-1550/1600	£550	£279	£Call
FS-6500	N/A	£425	£Call

We can also supply the above units network ready. Please call Tech Direct for the best prices.



- Popular well-tested range
- Straight through paper paths
- Windows and DOS models



£299

The HL630 printer shown on the left is the top selling entry level laser from Brother. Running at 6 pages per minute and 300 dpi this printer has won several prestigious awards from Computer magazines. The printer includes 0.5Mb of memory and PCL4 for direct printing with DOS programmes. A straight through paper path allows a wide variety of paper thickness with less risk of jamming.

The new WL660 printer shown on the right has been designed specifically with the discerning Windows user in mind. The printer uses the GDI based printer system to improve print speeds and provide a faster return to application time. The printer operates at 600 dots per inch and includes 1Mb of memory as standard. An excellent entry level laser at a bargain price from Tech Direct!

£369



HL631 The HL631 laser printer is a fast low cost laser for Windows, Dos and is networkable. 6 pages per minute, PCL4, enhanced memory management, straight paper path, 1Mb memory. **£324**

HL660 The HL660 is a 600 dpi laser compatible with Windows, Dos and is networkable. 6 pages per minute, PCL5e, enhanced memory management, straight paper path, 2Mb memory. **£433**

HL1260 The HL1260 laser printer runs at a rapid 12 pages per minute at 600 dpi. 500 sheet A4 tray and 150 sheet multi-purpose tray, Postscript level 2, 2Mb Ram. An optional 500 sheet bin is available. **£845**



£263



Panasonic have managed to produce a compact laser printer at an inkjet price! The Panasonic 6100 and 6150 lasers are designed to fit into the smallest desk space whilst still offering an incredible 6 pages per minute print speed. Having recently won the Personal Computer World Editors choice and the Computer Shopper Best Buy awards need we say more?

KX-P6100	£263
KX-P6150	£314
KX-P6500 - NEW!	£343
KX-P6600 - NEW!	£Call
COLOUR LASER	£792

SHARP • New range from Tech Direct! • Smallest laser in the world!



£233

Tech Direct are pleased to offer the latest JX-9200 laser from Sharp. As can be expected from this top name in business machines Sharp have produced a quality Windows 95 laser whilst bearing in mind the needs of the personal user (A4 footprint). New "SLEEK" printer software has been developed in conjunction with Microsoft as an improvement over the GDI method!

JX-9200 300 dpi	£233	JX-9460 Postscript	£689
JX-9210 600 dpi	£306	JX-9660 8 p.p.m.	£739
JX-9460 6 p.p.m.	£579	JX-9680 12 p.p.m.	£859



Superscript 610 Plus	£266
Superscript 660	£387
Superscript 660i	£508
Superscript Color 3000	£443

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- Trust Toshiba for your notebook!



Toshiba are the undisputed market leader for notebooks. As specialists in notebooks Toshiba have the resources and development team to continually lead the field. The comprehensive range covers all the way from a mono notebook up to colour screen notebooks with CD-ROM and full MultiMedia capabilities. A free 3 year warranty is included on most models - please call for details.

IBM

- IBM regularly gains worldwide acclaim and press awards
- The best value for money and service from Tech Direct
- IBM is the brand name you can trust for quality & performance



Tech Direct are delighted to offer the IBM Thinkpad range at our usual exceptional prices. The 340 model featured on the left offers a colour screen, IBM trackpoint device, IBM Dos 6.3, MS Windows 3.11 and the IBM renowned build-quality - all at prices you will hardly believe. Please call now has we only have very limited stocks on both the models listed.

T2110 486DX4/75 350/4Mb	£835	T4900CT P75 CT/810/8Mb	£2690
T2130CS 486DX4/75 520/8Mb	£1345	PORTEGE 610CT	£2990
T2130CT 486DX4/75 520/8Mb	£1770	SATELLITE PRO 400CS	£2390
T2150CDS 486DX4/75 260/4Mb	£1470	SATELLITE PRO 400CDT	£3090
T2150CDS 486DX4/75 520/4Mb	£1690	SATELLITE PRO 410CDT	£3375
T2150CDT 486DX4/75 520/8Mb	£2370	TECRA 700CT	£4220
Port Replicator for above	£133	Port Replicator for Satellite Pro	£225
Toshiba Nylon Carry Case	£36	CD Rom for Satellite Pro	£265
NiH2 Battery for above	£85	Lithium Battery for Satellite Pro	£175
Deskstation IV	£395	Memory upgrades	£Call

• 340 486/50MHz, DS, 200/4	£749	701CS DS DX2-50 360/4	£1499
• 340 486/66MHz, DS, 360/4	£975	701CS DS DX2-50 540/4	£1599
• 345 486/75MHz, DS, 540/4	£1399	701CS DS DX4-75 360/8	£1899
• 345 486/75MHz, TFT, 540/4	£1799	701CS DS DX4-75 540/8	£1999
• 370 486/75MHz, TFT, 340/4	£2299	701CS DS DX4-75 720/8	£2199
• 370 486/75MHz, TFT, 540/4	£2499	701C TFT DX2-50 360/4	£1749
• 760 P90, 10.4" TFT, 720/8	£3949	701C TFT DX2-50 540/4	£1899
• 760 P90, 12.1" TFT, 720/8	£4349	701C TFT DX4-75 360/8	£2199
• 760 P120, 12.1" TFT, 720/8	£4599	701C TFT DX4-75 540/8	£2299
Call for 760 models not listed above		701C TFT DX4-75 720/8	£2499

COMPAQ

- Compaq are the largest PC supplier!
- Comprehensive range of notebooks
- 3 year warranty on most models



As the world's largest supplier of PC's Compaq can be relied on to manufacture an incredible range of notebooks. These large volumes allow Compaq to produce notebooks with a high specification at excellent prices and this includes a free three year warranty on most models. Please call Tech Direct for full specifications and next day delivery of these popular models.

A.S.T.

ASCENTIA 810N 4/66 CS10 M250	£1075
ASCENTIA 810N 4/66 CS10 M340	£1099
ASCENTIA 810N 4/66 CS10 M510	£1199
ASCENTIA 910N 4/75 CS10 510W	£1799
ASCENTIA 910N 4/75 CT10 510W	£2349
ASCENTIA 910N 4/75 CT10 703W	£2449
ASCENTIA 950N P75 CSS10 M500	£1999
ASCENTIA 950N P75 CSS10 M800	£2399
ASCENTIA 950N P75 CTS10 M800	£2899
ASCENTIA 950N P75 CTS10 M1200	£3199
ASCENTIA 950N LM90 CSS10 M800	£2749
ASCENTIA 950N LM90 CSS10 M1200	£2999

TEXAS

EXTENSA 486DX4/75 340Mb DS	£1189
EXTENSA 486DX4/75 340Mb TFT	£1589
EXTENSA P75 524/8Mb DS	£1889
EXTENSA P75 524/8Mb CD DS	£2289

PANASONIC

CF-41 486 DX4/75 450/8Mb CD TFT	£2399
CF-41 486 DX4/100 680/8Mb CD TFT	£2599
CF-41 P75 680/16Mb CD TFT	£3399
CF-41 P90 1Gb/16Mb CD TFT	£3799

TWINHEAD

SL8 P90 500/8Mb DS	£1999
SL8 P90 810/8Mb DS	£2149
SL8 P90 500/8Mb TFT	£2499
SL8 P90 810/8Mb TFT	£2699
SL8 P90 500/8Mb CD DS	£2199
SL8 P90 810/8Mb CD DS	£2249
SL8 P90 500/8Mb CD TFT	£2599
SL8 P90 810/8Mb CD TFT	£2799

H.P. OMNIBOOK

OMNIGO 100	£198
OMNIGO 100 CONNECT	£85
600C 4/75 DS M340	£1749
600C 4/75 TFT M340	£2149
400C 4/50 M340	£1599
400C 4/50 M520	£1799
400C 4/75 M340	£1749
400C 4/75 M520	£1949
400C 4/75 M810	£2099
400C 4/100 M340	£1899
400C 4/100 M520	£1999
400C 4/100 M810	£2249
400C 4/100 M340	£2149
400C 4/100 M520	£2249
400C 4/100 M810	£2499

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- The highest specs, the lowest prices, the best value!
- Upgradeable systems are ready for the future
- Multimedia ready systems at incredible prices
- Genuine alternatives to a desktop only machine

THE TECHBOOK MULTIMEDIA NOTEBOOK



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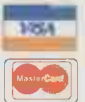
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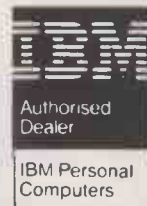
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News & Views

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The Internet ToolPak also includes numerous demos and example programs. Call us for full details - only £145

The Internet ToolPak also includes numerous demos and example programs. Call us for full details - only £145

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Are Sequiter Barking Mad?
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CODESQL 6.0

Yes they have definitely flipped!
Royalty-free SQL server!

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iiyama

Okay, we give up, it's a fair cop. As pointed out by PCW reader Ruben Harris of Surrey, the total ASCII value of the name William Henry Gates III is not 666 as stated in the December issue. The correct name should have been BILL GATES III, with the last bit counting as 3 (yes, it's cheating).

Moreover, our Ruben is absolutely convinced that the legions of darkness use Macs instead of PCs. He points out that APPLE INC. (including space and full stop) also equals the number of the beast, and believes Macs are the worst thing ever made. Perhaps this explains why the Mac version of Doom II: Hell on Earth is even better than the PC version...

● In other news, rumour has it that an heir to the Microsoft throne is now under development. Jokes about the schedule slipping aside, current projections put the birth at around June, possibly the 6th. With this in mind, perhaps Damien would be a good name for a boy. And on that note, we'll end all this nonsense once and for all...

● "A mobile phone is for life, not just for Christmas." So went the gloomy warning from a Telecom Users Association spokesman, quoted in the *Independent*, pointing to the hidden costs of long-term mobile ownership even though the initial cost is low. Rumours that the Battersea Phones Home has been swamped by unwanted Christmas gifts is of course completely unfounded...

Bill Trouble In Little China

Proving once again that Bill Gates really likes a laugh, Microsoft is sponsoring an "educational" sitcom to be broadcast in China. Along with fellow sponsor Compaq, Microsoft will ensure that the Chinese population is guaranteed a laugh a minute with such side-splitting plotlines as How We Learned To Create A

Spreadsheet and Why Software Piracy Is Bad (bit of a problem in China, remember). This particular episode of "My Computer Family" features a character who invents a computer game only to turn round and find copies everywhere. Teams of writers have been drafted in to ensure that people in China know really good software when they see it. Especially if it comes with a photocopied manual.



"Doris, the flaming dog is at the e-mail again!"

Cliff Stanford, managing director of Demon, was recently interviewed, also in The Independent. His 53 percent stake in the company is now worth £14m, but "I'm still driving the same 18-year-old car...". Cliff omitted to point out that his ageing car is a pink Rolls Royce



Leisure Lines

The following text was omitted from the Leisure Lines column on page 260 because of lack of space:

Winner of December 1995 Prize Puzzle

A pretty good response to the December problem — just less than 100 entries. Alas, a word was omitted from the statement of the problem — we should have said that the number of geese was one less than one third of the number of hens. Some of you realised this, but since the wording used meant there were 5 possible solutions, we decided to allow any of these. Most readers submitted all 5 anyway. The answer we intended was:

7 geese : 14 sheep : 15 horses : 24 hens : 20 cows

The winning card, drawn at random, came from a lady in Wales — Ms Catherine Hart of Conwy in Gwynedd. The card also contained a picture of the Menai suspension bridge and the longest placename,

Llanfairpw.....gogogoch. Thanks for the interesting card, Catherine, your prize is on its way.

Meanwhile, to all the others, keep trying — it could be your turn next..

Sorry, our mistakes

Due to events beyond our control, the units of measurement were left off the performance graph on page 213 of February's modem group test. These should have been Kilobits Per Second (kbps)

● The number printed for Sony Peripherals in the Gadgets section of the January 1995 issue is incorrect. The correct number is 01932 816000.

● A few gremlins appeared in Eleanor Turton-Hill's laser printer feature last month which caused some confusion. Just to confirm, the Sharp JX9210 is a 600dpi laser printer — not 300dpi as stated in the box at the end of the feature.



Renowned for its success in the publishing sector, Apple will be pleased to hear that it came first in our Worst Christmas Card '95 competition. Designed by top European artists, its greeting featured an excited family setting up their brand new Performa, only to then sit and stare at their reflection in the screen...

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16 Bit NE-2000 BNC/TP/AUI	£34.00
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3C509B ISA Combo	£62
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3C595TX 10/100 PCI Model B= PLUG & PLAY	
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3Com Networking System Products

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DE809CT 9 PORT	£159.00
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10 Base T 16 Port Hub + 1XBNC+1AUI	£199.00
10 Base T 12 Port SNMP Hub + 1XBNC	£499.00
10 Base T 16 Port Hub Internal Card	£499.00
10 Base T 24 Port Hub + 1 X BNC	£399.00
10 Base T 24 Port SNMP Hub + 1XBNC	£699.00
10 Base T 24 Port SNMP Hub Int Card	£999.00
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2 port Repeater 2 X BNC 1 X AUI	£149.00
2 port Repeater 2 X BNC 2 X AUI	£159.00
2 port Repeater 2 X BNC 1 X AUI 1 X TP	£179.00
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LinkSwitch 1000	£2529.00
LinkSwitch 1200	£179.00
LinkSwitch 2200	£199.00
LinkSwitch 2700	£199.00
Linkbuilder FMS II 12 Port TP Hub	£369.00
Linkbuilder FMS II 24 Port TP Hub	£669.00
Linkbuilder TP/12 Hub	£259.00
Linkbuilder FMS II 48 Port Hub Kit	£2955.00
Linkbuilder FMS II 24 Port Hub Kit	£2670.00
Linkbuilder FMSII 24TP Hub rack mount	£1265.00
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Intelligent MAU 8 Lobe 4/16 UTP	£910.00
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Tiger Hub TP12, 12TP, 1BNC, 1AUI	Single	£238.00
Tiger Hub TP6, 6TP, 1AUI	Single	£119.00
Tiger Hub TP6B, 6TP, 1BNC	Single	£199.00
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XLE 224-2TX w/dual 100BaseTx ports	£5927.00	
XLE 224-2TX w/dual 100BaseTx ports	£6342.00	
XLE 124-2TX w/dual 100BaseTx ports	£4118.00	
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JetDirect Ethernet 10BT Card Laserjet II, IID, III, IIID	
JetDirect Token Ring Laserjet II, IID, III, IIID	
JetDirect Ethernet for Unix 10BT Laserjet	
JetDirect HP-IR 1 serial 4 IIISI P1 X 300 DJ,600 Jet	

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Print Server 2 Par, 1 Serial Ports	£279.00
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Etherexpress PRO 10/100 Mbps	£199.00
Etherexpress PRO BNC/TP	£79.95
Etherexpress PRO BNC/TP W/FLASH	£79.95
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Etherexpress ISA HUB	£ Ring
Etherexpress EISA HUB	£ Ring
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Intel Netport II TP/UTP	£ 309.00
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NE3000 32 bit EISA BNC/AUI/TP	£RING
NE3200 32 bit EISA Bus Master BNC/AUI	£RING
NE3200 32 bit EISA Bus Master TP/AUI	£RING
NE4200 16 bit PCMCIA BNC/TP	£119.95
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American Power Conversion UPS

Allied Telesyn Networking Products

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AT1500FT 16 BIT CARD FIBRE & TP	£199.95
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Micro Repeater BNC to UTP	£199.00
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ARCserve for NetWare VAP 10-user	£349.00
ARCserve for NetWare VAP 100-user	£549.00
ARCserve for NetWare Windows 5-user	£239.00
ARCserve for NetWare Windows 10-user	£425.00
ARCserve for NetWare Windows 25-user	£629.00
ARCserve for NetWare Windows 50-user	£899.00
ARCserve for NetWare Windows 100-user	£1029.00
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Ethernet III Adapter BNC	£149.00
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Ethernet III Adapter Combo	£159.00
Token Ring II Adapter 16/4	£495.00
Token Ring II Adapter 16/4 TP	£495.00
External Ethernet Adapter	£295.00
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14" Colour Monitor
Quad speed CD ROM Drive

PENTIUM® PROCESSOR 75MHZ

- Viglen Contender® Executive ESS System
- Fast PCI Local Bus Accelerated Graphics, (1MB)
- 2 serial, 1 parallel, 1 PS/2 port, 1 games port
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- Microsoft® Works for Windows® 95
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Same as above but includes a 100MHz Pentium® processor.

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scheme

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NEW SPEC.

The Performance Multimedia PC brings together the fast 120MHz Pentium® processor, along with a fast VGA card and 14" monitor to provide one of the best price-performance systems available and is ideally suited for business and home.

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£58.94
per month
APR 12.9% VAR.
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monthly payment
scheme

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8MB EDO RAM
1GB HD
14" Colour Monitor
Quad speed CD ROM Drive

PENTIUM® PROCESSOR 120MHZ

- Viglen Contender® ES Professional with Intel Pentium® 120MHz Processor
- 256k cache
- Fast PCI local bus accelerated graphics (1MB)
- 2 serial, 1 parallel, 1 games port
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THE STRAIGHT LINE

SLOPE - $y = mx + c$

POINT WHOSE COORDINATES
SOME POINT WHOSE COORDINATES

FIG 1

$\frac{1}{m} = \tan \theta$

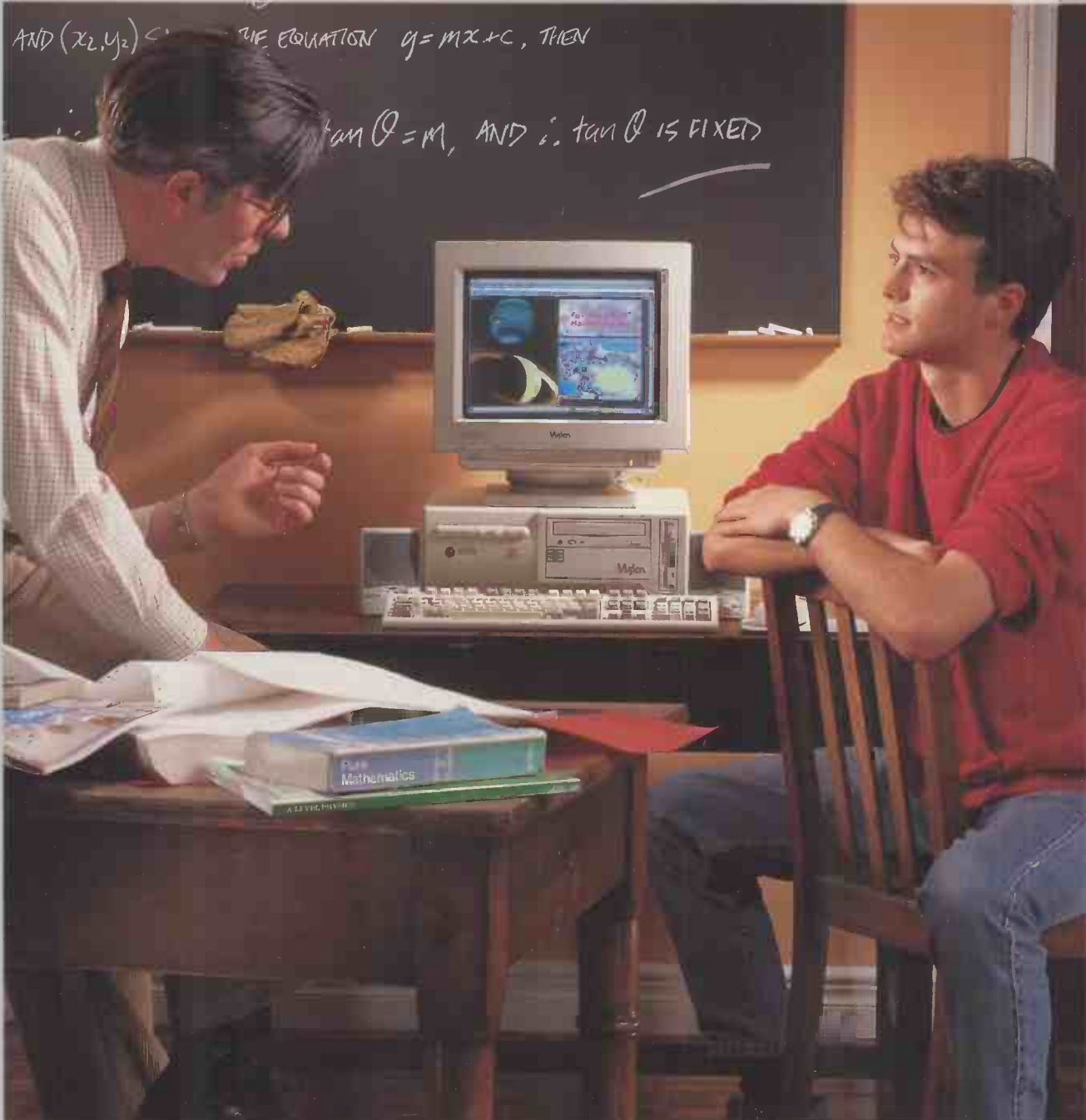
AND $(x_2, y_2) <$ THE EQUATION $y = mx + c$, THEN

$\therefore \tan \theta = m$, AND $\therefore \tan \theta$ IS FIXED



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3 POWER 133 MULTIMEDIA PC

NEW SPEC.

The Power Multimedia PC takes the Performance Multimedia PC a stage further, with a faster processor, more memory and a 15" monitor, providing increased performance capabilities.

16MB EDO RAM
1GB HD
15" Colour Monitor
Quad speed CD ROM Drive
14400/14400 Voice Fax Modem
Internet Access Software
256K Pipeline Burst Cache

PENTIUM® PROCESSOR 133MHZ

- Viglen Genie® PCI Medium Tower with Intel Pentium® 133MHz Processor
- Fast 64 bit PCI Graphics card (1MB)
- 2 serial, 1 parallel, 1 games port
- 3.5" Floppy Drive
- Ergonomic Compact Keyboard
- Genuine Microsoft® Ergonomic Mouse
- Microsoft® Windows® 95

Plus

- On board sound
- 15W Stereo Amplified Speakers
- Microphone
- Microsoft® Works for Windows® 95
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- Microsoft® Money
- Microsoft® Multimedia CD Titles from Microsoft®: Encarta® '96 (US version), Musical Instruments and Golf
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Professional Desktop case option available. Please allow extra delivery time.

HOT TIP In order to enhance this system even further, may we suggest an upgrade to Microsoft Office or Office Pro for Windows® 95 (See Software Bonus Upgrades).

5 AWESOME 166 MULTIMEDIA PC

NEW SPEC.

If the Ultimate 150 system was not powerful enough, Viglen offer you even more power and specification with this Awesome 166 configuration. This system provides more memory, the highest performance Video Card (3D Accelerated graphics), a 17" monitor and the most powerful Pentium® processor yet.

32MB EDO RAM
1.6GB HD
17" ENVY17 Colour Monitor
Matrox Millennium Video (2MB VRAM)
Six speed CD ROM Drive
14400/14400 Voice Fax Modem
Internet Access Software
256K Pipeline Burst Cache

PENTIUM® PROCESSOR 166MHZ

- Viglen Genie® PCI Medium Tower with Intel Pentium® 166MHz Processor
- 2 serial, 1 parallel, 1 games port
- 3.5" Floppy Drive
- Ergonomic Compact Keyboard
- Genuine Microsoft® Ergonomic Mouse
- Microsoft® Windows® 95

Plus

- SoundBlaster AWE 32Value sound card
- 15W Stereo Amplified Speakers
- Microphone
- Microsoft® Works for Windows® 95
- Microsoft® Publisher
- Microsoft® Money
- Multimedia CD Titles from Microsoft®: Encarta® '96 (US version), Musical Instruments and Golf
- CRT Easy Tutor for Windows® 95

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£2999 +Delivery & VAT = £3541.45



Professional Desktop case option available. Please allow extra delivery time.

HOT TIP In order to enhance this system even further, may we suggest an upgrade to Microsoft Office or Office Pro for Windows® 95 (See Software Bonus Upgrades).

4 ULTIMATE 150 MULTIMEDIA PC

NEW SPEC.

In the middle of 1995, the Ultimate 120MHz system won the PC Magazine Editors choice for the ultimate system. The new Ultimate 150 now offers even more power and more features than ever before to make this one of the most desirable systems available yet.

16MB EDO RAM
1.6GB HD
15" Colour Monitor
Stealth 64 Video (2MB VRAM)
Six speed CD ROM Drive
14400/14400 Voice Fax Modem
Internet Access Software
256K Pipeline Burst Cache

PENTIUM® PROCESSOR 150MHZ

- Viglen Genie® PCI Medium Tower with Intel Pentium® 150MHz Processor
- 2 serial, 1 parallel, 1 games port
- 3.5" Floppy Drive
- Ergonomic Compact Keyboard
- Genuine Microsoft® Ergonomic Mouse
- Microsoft® Windows® 95

Plus

- On board sound
- 15W Stereo Amplified Speakers
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HOT TIP In order to enhance this system even further, may we suggest an upgrade to Microsoft Office or Office Pro for Windows® 95 (See Software Bonus Upgrades).

Software packages

The Viglen Personal Configurations are each supplied with a different variety of software packages which are pre-loaded, include full user manuals and disks and are ready to use. Here, we have briefly outlined each package to help you decide which Special Configuration is right for you.



Microsoft® Works for Windows® 95
Five essential tools for easier everyday computing. Word processing, spreadsheet, database, graphics and communications tools.



Microsoft® Money
A complete set of financial management and planning tools to manage your investments and expenditure.



Microsoft® Publisher
This desktop publishing software is the key to producing professional quality output, layouts and clip art.

MULTIMEDIA TITLES



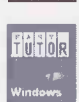
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Easy Tutor
A comprehensive interactive tutorial guide to learn Windows® 95.

SOFTWARE BONUS UPGRADES

All the special 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. If you require pre-installation please specify and allow extra delivery time for these options.



Microsoft® Office for Windows® 95

A popular and powerful integrated software package from Microsoft featuring the technology of Intellisense and including Word for Windows® 95, Excel for Windows® 95 and Powerpoint for Windows® 95 and Microsoft Schedule+. Supplied pre-installed with full manuals and disks. Order code **WAPMMY9A** Bonus Upgrade Price **£159+VAT** (CD version with full manuals)



Microsoft® Office Professional for Windows® 95

This is the same as Microsoft® Office for Windows® 95 with the addition of the latest version of Access for Windows® 95 the powerful yet simple to use Windows based database. Supplied pre-installed with full manuals and disks. Order code **WAPMMY9B** Bonus Upgrade Price **£229+VAT** (for CD version with full manuals).

Please note some software may be supplied in Viglen OEM packaging

MONITOR UPGRADES

You can upgrade your special configuration monitor to an even higher specification.

1, 1a and 2 Home and Performance

Upgrade to: ENVY 15D, 15" Monitor

Price to add: £90+VAT

Upgrade to: ENVY 17, 17" Monitor

Price to add: £330+VAT

3 and 4 Power and Ultimate

Upgrade to: ENVY 17, 17" Monitor

Price to add: £240+VAT

Upgrade to: ENVY 17PE, 17" High spec Monitor

Price to add: £320+VAT

5 Awesome

Upgrade to: ENVY 17PE, 17" High Spec Monitor

Price to add: £80+VAT



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Our sales staff will gladly guide you through the jungle of computer jargon with help on the ideal system for you. **Technical specialists are always available** for more specialised advice.



Each Viglen system has a **12 months parts and labour warranty**, including collection from and return to you at our expense (mainland UK only). For complete peace of mind there is also a further choice of low-cost on-site service packages for up to 5 years. With mission critical systems, such as file servers, our 4 hour response premium on-site service is available.



Our pedigree is impeccable, with over 20 years experience in providing quality manufacture and support services.



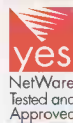
Don't worry about compatibility Viglen's PCs are guaranteed to run all software that operates on equivalent IBM PC/AT. Viglen is licensed under the relevant IBM patents.



Viglen's PC systems are made in the UK to exacting quality control procedures to give you added confidence in our products. In addition, all Viglen PCs are approved with the CE mark.



Extremely competitive repair and upgrade services are always available from our service department.



As a Novell authorised OEM Viglen take the work out of networking by providing the very best in network solutions and support - for 2 to 250+ users. In-house Novell certification labs and the availability of more than two Certified Novell Engineers at all times mean that Viglen are a networks supplier to rely on.



Our quality and reliability standards are second to none, thanks to the latest design and manufacturing processes approved to BS5750 quality standard.

Remember to carefully read the small print of our competitors when comparing services. At Viglen we believe in giving you a choice and making that choice crystal clear.



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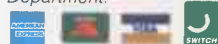
couldn't be easier *phone, post, fax, or e-mail.*

If you require any help or advice on choosing a system to suit your requirements please call our Sales Department. To help us identify your requirements please state the product code (where applicable), description and price of items required.

When you have decided on your system please fax or phone your orders. You will need to add £15.00 per system for courier delivery, add 17.5% VAT on top. Collections may be made by prior arrangement. 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.

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EASY2OWN monthly payment scheme is available to private purchasers subject to status. Typical example of payment calculation of PC costing £799 + VAT: £799+£15 (delivery) +17.5% VAT = £956.45 total cash price. 10% deposit of £95.65 required followed by 36 monthly payments of £31.27 (APR=19.9% variable). For finance over £1499+VAT, APR drops to 14.9% variable. Additional payment protection insurance is available. Viglen Ltd is a licensed credit broker.

EDI. Purchase orders via electronic data interchange accepted using INS Tradanet service.

Public sector customers may also purchase all Viglen systems through HMSO. Please ring 01603 694153 for pricing details.



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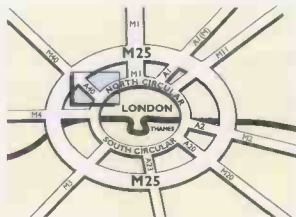
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