THE FINEST HI-FI MAGAZINE IN THE WORLD

### **SPEAKER MAGIC**

ATC's high tech tour de force











PLUS! Over 40 new models tested and rated

BUYING GUIDE

3,700 PRODUCTS LISTED!

Our experts name the best hi-fi
in the UK's definitive directory!



SEPTEMBER 2000

£3.25





# The best speakers are the ones who listen

E 870

### The SoundGuide®

What is good sound?

There is no easy answer. Good sound is individual. It is shaped by personal choices like room size and music style. Whatever your listening needs, there's a sound solution to meet them.

Jamo has developed the SoundGuide, an advanced resource that leads you to your perfect sound solution.

We listen to you before you listen to us.

For further information, call Jamo UK at 01788 556 777 or visit your local Jamo dealer. Tell us what you want. We'll listen.

www.jamospeakers.com





# AV5 Cyrus believes AV systems should be every bit as involving as our famous hi-fi systems. To achieve our goal we have incorporated the finest decoding technology available within an all new digital preamplifier platform. Including automatic setup and Cyrus system control software allows intuitive operation of this flexible system. Our wide range of flexible power amplifier options include the awesome 1500watt burst-power of the aPA7 through to more modest (and affordable) system options. MUTE DUD Digital AV5

Future Publishing Ltd, 99 Baker Street, London W1U 6FF

2 (020) 7317 2600 Fax (020) 7317 2686 Regrettably we cannot speak with readers or answer queries on the telephone. Please send a letter, fax or e-mail instead

- Editor Jason Kennedy
- jason.kennedy@futurenet.co.uk

  Deputy Editor Tim Bowern
- wern@futurenet.co.uk Art Editor Del Gentleman
- del.gentleman@futurenet.co.uk
- Production Editor David Bailey david.bailey@futurenet.co.uk
- Reviews Editor Nick Gear nick.gear@futurenet.co.uk

Consultant Editor Paul Messenger • Technical Editor Paul Miller Contributors Richard Black • Alvin Gold • Jimmy Hughes • Richard Stevenson • Phil Strongman • David Vivian **Photography** Chris Foster

- Advertising Fax (020) 7486 5676 Group Ad Manager Rob Debenham ② (020) 7317 0239 rob.debenham@futurenet.co.uk
- Ad Manager Andrew Goldsmith 2 (020) 7317 0202
- andrew.goldsmith@futurenet.co.uk

   Senior Sales Executive Debbie Maclaren 
  (020) 7317 0214 debbie.maclaren@futurenet.co.uk
- Senior Sales Executive Fiona Beech 2 (020) 7317 0217 fiona.beech@futurenet.co.uk
- Classified Sales Exec Andrew Maxey ☎ (020) 7317 0202 andrew.maxey@futurenet.co.uk

- **2** (01225) 442244
- Production Coordinator Rebecca Brooks
   Production Manager Fiona Milne
- fiona.milne@futurenet.co.uk

- Publisher Simon Davies ☎ (020) 7317 2600 on.davies@futurenet.co.u
- Managing Director Mike Frey
- mike.frey@futurenet.co.uk

  Group Publishing Director Jon Bickley
  jon.bickley@futurenet.co.uk

### BACK ISSUES – SEE PAGE 137 FOR DETAILS.

Selected back issues are available at £4.00 each (£6.95 overseas) inc. p&p. Call (01458) 271121 to order - all major credit cards accepted.

### ● SUBSCRIPTIONS - SEE PAGE 80 FOR DETAILS

To subscribe to *Hi-Fi Choice* call (01458) 271121, lines open 8am-8pm, Monday-Friday.

### NEW PRODUCT INFORMATION

We welcome information on all new and upgraded products please send all press releases to the Editor. The magazine is obliged neither to review nor return unsolicited products, and does not accept responsibility for unsolicited copy

Westside, London W1 Pr g St Ives (Plymouth) Ltd. Hi-Fi Choice is published 12 times a year by Future Publishing Ltd, 30 Monmouth Street, Bath BA1 2BW • All material © Future 2000. All rights reserved.

This publication may not be reproduced or transmitted in any form in whole or in part without the written permission of the publishers. While every care has been taken in the preparation of this journal, the publishers cannot be held responsible for the accuracy of the information contained herein, nor for any consequence aris ing. All judgements have been made in the context of equipment available to Hi-Fi Choice at the time of review. 'Value for money' comments are based on UK prices at press time (which are subject to fluctuation) and only apply to the UK market. If anyone in the office listened to - let alone enjoyed - the new Duran Duran album, it was a complete accident

#### OVERSEAS LICENSING ENQUIRIES

Hi-Fi Choice is available for licensed publication overseas. For further details contact Chris Power, on  $\pm 44$  (0) 1225 442244, by fax +44 (0)1225 732384; or by e-mail at chris.power@futurenet.co.uk







Hi-Fi Choice is the UK hi-fi magazine representative of the European Imaging & Sound Association (EISA). Every year EISA honours the finest hi-fi and home cinema products throughout Europe.

### EDITOR'S NOTEBOOK

**OPINION** 

All you copy-cats

might be in for a bit of a surprise – as Jason Kennedy reveals...

his month, we have finally been able to put together a large scale digital recorder test. It's been a long time coming, what with problems in the Philips camp having knock-on effects with other brands. But Alvin and Paul have been beavering away to find just which are the best recorders on the market. And if nothing else is certain, the supremacy of the CD-R/RW medium is. Some may feel it unfair to pitch MD with its ATRAC compression system against linear PCM direct dubs, but when it comes to domestic recording that is the choice to be made. MD clearly has advantages in terms of flexibility but if absolute

sound quality is the goal, then CD-R is very hard to beat. And here at Choice Towers, sound

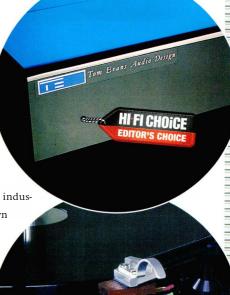
quality is where it's at. If you want bells and whistles, look elsewhere.

#### LOCKED OUT

I came across an article by Barry Fox lately (HFN&RR, March) in which he described a music software antipiracy system called AudioLock. This is apparently similar to the Macrovision system used to stop people copying pre-recorded video tapes and DVDs, and is said to be doing the rounds of the music industry this summer. If the system is as effective as Macrovision, it could have quite a dramatic effect on the long term viability of formats like MP3 which depend on the ability to copy software for their existence. Not to mention CD-R. To what extent this system will be taken up by the music industry remains unclear, but its fear of piracy is well known and AudioLock must look like a God-send.

However, speaking to Sony Music's New Media developments Manager, Tony Martin, I found that the company's hardware activity - especially Memory Stick (which relies on the user's ability to 'rip' discs on PC so that they can be downloaded) is restraining its copy protection activities. But not entirely. Apparently Sony Music has its own proprietary copy protection system which was used on 32,000 copies of a single title released in the German market recently. It included a freephone number on the case to see how many buyers found the protection an issue. So far only 10 calls have been received. Which either means that digital copying is not such a big thing in Germany or that the buyers of the disc have yet to try and 'rip' them.

Should a system such as AudioLock be adopted on a large scale there will, no doubt, be someone who cracks the code - as has occurred with DVD. So computer users will be able to carry on dubbing, likewise large scale piracy operations. It may be that those of us wishing to make compilations for the car or personal stereo are left to pay the price. So if you're building up a wish list of discs to buy, now might just be the time to do it - software that can be copied might be highly prized in the years to come.



#### **EDITOR'S CHOICE**

HI FI CHOICE

Tom Evans Microgroove p.16 This month's tranche of ECs goes to an unashamedly vinyl-oriented pair of products. Tom Evans has been making fine phono stages for quite some time and his latest Microgrooves do nothing but enhance his reputation. If you have a decent record player you'll be shocked at not only the resolution its capable of, but also how quiet LPs can be with a great phono stage.

Well Tempered Reference p.64

The latest incarnation of this radical record player may not appear as extreme as it did when it first appeared but it's nonetheless a striking bit of lateral thinking that seems to work very well. For Paul Messenger to call into question some aspects of his beloved Linn/Naim deck's performance takes a very special player indeed.



# Reviews





A classic record player returns in Reference form.



**HEADPHONES** 

Nick Gear checks out 10 of the best corded cans on offer.



**JVC XV-D723GD** 

JVC's debut DVD-Audio player.



### ATC SCM70ASL

Studio technology for your living room.



### **EDITOR'S NOTEBOOK**

Jason Kennedy reports on this month's happenings and Editor's Choices.

### **PAUL MESSENGER**

Paul's feeling flat, and he likes it!



### **PHIL STRONGMAN**

More classic cuts on virgin vinyl and CD.

### **DAVID VIVIAN**

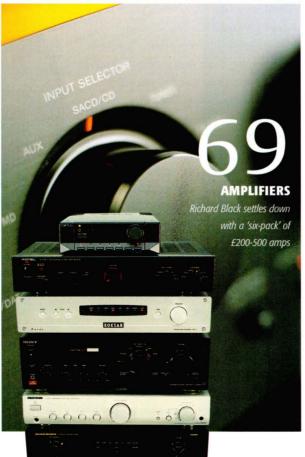
T+A's CD player with knobs on.

### PAUL MILLER'S OASIS OF SANITY

How much headroom does an amplifier really require?

### JIMMY HUGHES

Jimmy dons his flares and relives the hip grooves of Supertramp's Crime of the Century album.





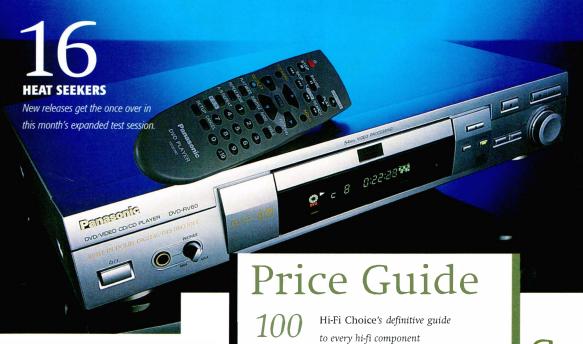
### **NEWS & VIEWS**

All the current news and developments in the industry



### PRODUCTS IN THIS ISSUE

Amplifiers			
Audion Platinum	17	Grado SR325	85
Cyrus 5	70	Philips HP910	87
Kenwood KAF-3030R	71	Sennheiser HD590	87
Marantz PM7000	72	Sony MDR-CD2000	88
Roksan Kandy	73	Stax System II	88
Rotel RA-972	75	Technics RP-F800	89
Sony TA-F740R	77	Vivanco SR222	89
Sony TA-VA777ES	63	Loudspeakers	
CD/ DVD/ DVD-Audio		ATC SCM70ASL	60
JVC XV-D723GD	58	Castle Pembroke	16
Panasonic DVD-RV60	18	Jamo E850	19
Rotel RCC955	19	Mission 783	
CD Recorders		MiniDisc Recorders	
JVC XLR5000BK	28	JVC XM448	41
LG ADR-620	30	Kenwood 5020	42
Marantz DR17	31	Pioneer MJD508	43
Philips CDR-950	33	Sony MDSJA555	46
Pioneer PDR-509	35	TEAC MD-8	47
Pioneer PDR-W739	37	Turntable	
TEAC RW-800	39	Well Tempered Reference	64
Headphones		Systems	
AKG K100	84	JVC FS-SD9R	16
Beyer DT531	84	Phonostage	
JVC HA-DX3	85	Tom Evans Microgroove	17



SPEAKER SUPPORTS AND **EQUIPMENT STANDS** 



In need of hi-fi advice? Tim "Doctor" Bowern answers your hi-fi queries.

## Letters

Send us your views. The best 24letter wins a TDK goody bag

currently available in the UK.

### Hi-Fi Directory

A complete listing of current hi-fi 112 kit reviewed by us over the years with ECs, BBs and Recs.



# Services

### **80** SUBSCRIPTIONS

Save time and money when you subscribe to the finest hi-fi magazine in the world.

### 93 READER CLASSIFIED

Track down a hi-fi bargain by checking out our plethora of lovingly owned kit.

### THE HI-FI CHOICE ARCHIVE 137

How to accesss our reviews and features via back issues, Factsback and photocopies.

# NEWS & VIEWS

Tim Bowern and Nick Gear report the latest developments in the world of hi-fi.

### **NEWS IN BRIEF**



TEAC has unveiled the complete Reference Series DVD home theatre 5.1 system. The LS-5.1U is finished in jet-black, complementing the lifestyle champagne silver AV-H500D amplifier and DV-H500 DVD player, and includes six bipolar speakers and an active subwoofer with variable crossover and gain. The system is £349.95, or £1,099 for the special DVD, amp and speaker package. @ (01923) 819630

ALBA'S sub-£150 DVD103 player is the company's first foray into the DVD market. Both DD and dts ready, it has all the essential user-functions such as multi-angle selection, plus coax digital, S-Video and audio outputs. **2** (020) 8594 5533

HARMAN/ KARDON is offering the three dts, Dolby Digital and Dolby ProLogic AV receivers with built-in tuners. The AVR500 (£600) delivers 2x80 Watts, the AVR300 2x55 Watts and the entry-level AVR200 5x40 Watts. All the models are supplied with a System Link remote system for compatible equipment. @ (01908) 317707

**ELECTRO-HARMONIX** releases the

300B EH tube, matching the Western Electric originals in curves and DC characteristics, suitable for vintage and modern amps. Facets include an eight course directly heated filament, 40-Watt plate dissipation, large shoulder tube glass and is available singly or in matched 300B EH pairs **☎** (001) 212 529 0466

TITAN'S Cinemods multichannel loudspeaker package includes TS surround speakers with 120mm polykevlar sandwich cones with twin voice coils, and an aluminium voice coil, ferro-fluid filled soft dome tweeter. The TC centre speaker mirrors the surrounds with magnetic shielding on both drivers. The Mercury subwoofer facilitates a 75-Watt power amplifier and a 150mm spun aluminium cone. ☎ (01702) 206870

OT'S latest incarnation of the original OT Turntable, christened Evolution. retains many of the original techniques, but with refinements to the materials and power supply. In addi-

# **Fashionable Naims**



Naim has broken with tradition and introduced a fresh look for its new entry-level components. Both the CD5 CD player and NAIT5 integrated amp feature styling culled from the company's recently released high-end NAP 500 power amp. They are housed in a totally new low-

vibration machined aluminium chassis, but their revamped design is more than merely skin deep.

The CD5 costs £1,125 and sports a new power supply

with a particularly large dual winding transformer. This powers the analogue and digital circuits separately, the aim being to reduce distortion and improve dynamic range. Philips' VAM 1205 transport mechanism is also employed, coupled to an 18-bit DAC and a central microprocessor running proprietary software.

Much is made of circuit layout, with high quality boards mounted on decoupling pillars to ensure optimum signal transfer. This is something also touted for the NAIT5, a £799 model described by Naim as "the best sounding,



0000000

the preamp section is a discrete resistor ladder volume control, a network of hand selected resistors and solid-state switches controlled by a microprocessor, which allegedly adds up to a volume control of rare functionality and sound quality.

The power amp section is based on circuitry developed for the aforementioned heavyweight NAP 500. A new transformer has separate windings for the preamp and power amp circuits and all preamp supplies are double regulated. All functions are controlled by a microprocessor, though digital circuitry is switched off during music replay to curb noise, and facilities include a pre-out socket and programmable gain matching for each input. Both the NAIT5 and CD5 should be in the shops by the time you read this. Naim Audio Ltd 2 (01722) 332266





AVI's NuNeutron speaker has been replaced by a new model - the £499 Neutron III. It takes its design cues from its predecessor, a speaker known for the quality of its midband, but is claimed to be more sensitive,

clearer-sounding and easier to drive.

AVI makes much of its crossover network, which it says behaves with the accuracy and predictability of an active unit. It has lowered the crossover frequency to 2.8kHz, as opposed to the NuNeutron's 3.6kHz, asserting that the crossover is inaudible and a lower frequency puts less strain on the main drive unit. Other than that, the picture is similar to the model it replaces - a 265mm high cabinet with a 12.7cm doped paper mid/bass cone and a 28mm soft dome tweeter. Sensitivity is 88dB and impedance is 6 Ohms, existing NuNeutron owners can upgrade for

AVI claims that exceptional

small speakers will outperform their larger brothers in most listening rooms. Is that the case here? Look out for a review in HFC. AV International Ltd 2 (01453) 765682





### **Philips joins SACD**



Philips is set to enter the race for new music format supremacy when it unveils its first Super Audio CD (SACD) player in the last quarter of

this year. The player in question is the SACD 1000, expected to have a price tag of between £1,500 and £2,000. It incorporates a six-channel output for surround sound purposes and is the first SACD player of those firmly announced so far to support DVD-

Video discs.

The SACD 1000 will follow the launch of a more expensive SACD machine from Philips-owned specialist brand Marantz. As revealed in HFC last month, the £5,000 SA-1 will be the most costly player yet when launched this September. We're aiming for an exclusive review next month, so keep 'em peeled. Philips UK Ltd 🕿 (0208) 689 2166

# **Nautilus hits mid-price B&Ws**



B&W has revamped its CDM range of speakers by filtering down elements of high-end Nautilus technology, as featured in the acclaimed

Nautilus 800 series. The new line-up is called CDM NT and includes three models: the standmounting CDM1 NT (£750), the floorstanding CDM7 NT (£1,250) and a centre speaker, the CDM CNT (£395). A purpose-built surround speaker, the CDM SNT, is set for a later launch.

The range combines the sloping tweeter baffle of the original CDM speakers with the Nautilus tube-loaded tweeter assembly – a tapered tube mounted behind the tweeter to absorb acoustic energy and in theory produce more focussed and natural treble. All speakers sport a main driver with a 165mm woven Kevlar cone, while the CDM7 NT includes an additional 165mm bass cone made from a paper and Kevlar mix.

Also common throughout the range is B&W's Flowport technology. This concerns the port's internal and external flares, which are dimpled like a golf ball to improve airflow. A 'bullet shaped dispersion modifier' (phase plug) is set in the centre of each main drive unit and all models come in a choice of three wood veneers: black ash, cherry, and red stained cherry wood. The CDM1, CDM7 and CDM CNT will be available from mid-August, together with a matching stand for the CDM1, priced at £200. B&W Loudspeakers 2 (01903) 750750



## **Denon joins CD recording frenzy**



Joining the CD recording ranks is Denon with its débutante model, the £400 CDR-1000.

Compatible with both CD-R and CD-RW, this model possesses a sampling rate converter to cope with different digital sources and a 24-bit Analog Devices D/A convertor.

User features include three 'easy to use' synchronised record modes, variable record levels for digital recording, one button and double speed finalising, and a text writing facility for artist and song titles.

Internally it incorporates selected components in the audio circuits, individual power supplies for analogue and digital circuits and the ability to act as a monitor for sample rate or A/D, D/A conversion. Denon has fitted a host of terminals including an optical and two coaxial

digital inputs, an optical and coaxial digital output plus a set of analogue stereo input/outputs.

Hayden Laboratories Ltd 2 (01753) 888447



## **Five channels of Musical Fidelity**





Musical Fidelity is set to launch a multi-channel power amp to partner its HTP surround processor, unveiled in last month's HFC. The HT600 is priced at £1,999 and features

five monoblock amplifiers inside a single case.

Employing the same circuitry as the A3(CR) power amp but without choke regulation, this power amplifier has an output rating of 5x120W. The chassis is fashioned from high quality punched steel with the front panel machined from aluminium and has 24k gold plated fittings. A matching DVD player will be launched in due course. Musical Fidelity 2 (0208) 900 2866



### **† NEWS IN BRIEF**

tion, the QT Swing Weight, a counter weight for use with Rega tone arms replaces the standard counterweight with a gunmetal weight mounted below the centre line of the arm. The rear stem is also replaced by a stainless steel threaded item.



**2** (01777) 870372

SHARP'S latest range of compact MD systems is headlined by the champagne gold MD-MX30H with beech-effect MDF speakers. Featuring a servo-powered volume control that retracts for a flush finish, this system boasts a high-speed digital recording facility, 25W per channel output, a three-mode graphic equaliser and an RDS EON tuner with 40-presets. The range is be completed by the arrival of the MD-MX20H and MD-MX10H. **2** (0800) 262958

IXOS 126AV Mallard Scart cable has been specifically constructed for use with DVD and VCR machines. The cable is made with cast metal plug bodies, high-tensile 24kt hard goldplated signal pins and a low-loss 110AV cable. The new interconnect is available in a 75cm length. **2** (01494) 441736

SONY is promoting an MD bundle with the MZ-R70PC. Allowing users to record a combination of Web music, tracks from CD collections and songs off the radio, the package includes a plug and play PCLink USB interface and MD Walkman with 'smart' remote, digital Mega Bass system and 40-second anti-shock memory. **2** (01932) 816000

**HUNGARIAN** enthusiasts should note that the Budapest high-end show will run from 10 to 12 November at the Grand Hotel, Margitsziget.

**TECHNICS** last month confirmed a three-year sponsorship deal with the Mercury Music Prize, an event it has backed for the last two years. The nominated 'Albums of the Year' will be announced on 12 July followed by the award ceremony on 12 September.

TAG MCLAREN AUDIO has added a

TAGtronic Programming cable (£69.95 for 2.5m), an S-Video interconnect (£99.95 for 0.5m, £19 for each additional metre) and an Analogue Balanced XI R (£156.95 for 1m, £44 for each additional metre) to its Cable AvantGarde range. TAG has also reduced the

price of its 60i amplifier to £499. **2** (01480) 415600

TOM EVANS and Ted Jordan are providing products, technical background information and a user forum via their ambitiously named website. Visit www.besthifiintheworld.com for further details.

# NEWS & VIEWS

# PREVIOUSLY UNHEARD

Phil Strongman digs out rare and classic tracks appearing on CD or virgin vinyl for the first time. May the groove be with you.





### **CREAM** Wheels of Fire

The last major album by the 60s supergroup, and Eric Clapton's discreetly distorted guitar is still strident enough to crack the sound stage in half. Sounds better than the CD version, although perfectionists will no doubt notice a smidgen of hiss and surface noise but as I've said before, if you want to avoid such horrors completely then turn your system off. Highlights include the throbbingly edgy *White Room* and a wild take of Robert Johnson's *Crossroads*, live at the Fillmore. Can blue men sign the whites? Damn right they can.

Simply Vinyl 180g DBLE LP.

Music Sound So

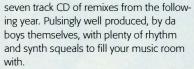
### **CARLY SIMON** The bedroom tapes

The 70s singer-songwriter returns with 11 choice cuts of Manhattan angst which she recorded herself at home – hence the title – in 1999 with a little help from her industry friends. Full of the crafted songs and casually brilliant phrasing that's obviously influenced the likes of audiophile diva Patricia Barber.

Music OCO Sound OCO

### **LEFTFIELD** Leftism

The soulfully dark and moody dance music classic of 1995 gets reissued along with a



Hand CD

Music CO CO CO Sound CO CO CO

### KING TUBBYS MEETS

### LARRY MARSHALL I Admire You In Dub

Half the trendy-wendy restaurants in New York have been playing dub over the last year since it usually manages to combine simple but effective tunes, blistering bass and enough mid-band space to allow conversation. Admire You In Dub might be 25 years old but it fits the bill handsomely with some marvellous moments being conjured up by the reggae veterans.

Motion CD and 180g LP

Music COCO Sound COCO

### **JACQUES LOUSSIER Play Bach No.1**

Recorded in gay Paris in 1959, this is easy listening of the highest order as the Gallic pianist strolls through the back (or should that be Bach?) catalogue of Johan Sebastian. Preludes covered – with crisp backing from Pieree Michelot's bass and Christian Garros' drums – include Numbers 1, 2, 5 and 8.

Decca-Universal CD

Music O O O O Sound O O O O

### **PATATO** The Legend of Cuban Percussion

A post-Buena Vista delight with the well-baked Patato giving us 72 minutes of beautifully delivered pieces – and, I hasten to add, with a surplus of melodic gold-dust from younger jazz musos such as Omar Sosa and Ivan 'Melon' Gonsalez. Has more real timing and energy than the current Top 40 in its entirety. Effortlessly pleasing.

Six Degrees CD









### **Howard's Return**



Featuring a smaller cabinet, the new Howard S3 speaker is actually derived from the shelved Super Harlech project. Integrating a twin-pipe, it

uses two 150mm woven carbon fibre coned bass units, one forward firing, the other vertical, tuned to different frequencies with the pipes vented downwards. Included are 32mm coils and vented T-poles on the bass and mid units whose cone has been specifically created to minimise standing waves, improve linearity and remove response anomalies. The 28mm fabric dome tweeter is specially damped with a high viscosity material. The S3 is available at £1,349.90 in one of Castle's seven veneers or £1,599.90 for rosewood and yew.

Also new is the Keep 2 centre channel speaker for £249.90 in standard veneers or £299.90 for rosewood and yew, plus The Classic Sub subwoofer system for £799.90 or rosewood and yew for £949.90.

Castle 🕿 (01756) 795333



### Linn's fine tuning



As digital radio technology gradually gains pace, Linn is hoping to squeeze more out of traditional FM/AM broadcasts with the launch of the

two-band Pekin tuner. Priced at £545, it is designed to offer high signal sensitivity and a high-level of performance with even faint signals.

General characteristics include improved user options, two RF signal inputs for aerial or cable feeds, a signal strength meter and adjustable mute/scan threshold controls. Other highlights include 80-presets, two pairs of audio outputs, a software port for future upgrades and an optional RS232-C interface for computer network control. *Linn* **2** (0141) 307 7777



THE BEAUTIFULLY DESIGNED PORTABLE MINIDISC THAT COULD ONLY COME FROM SHARP.

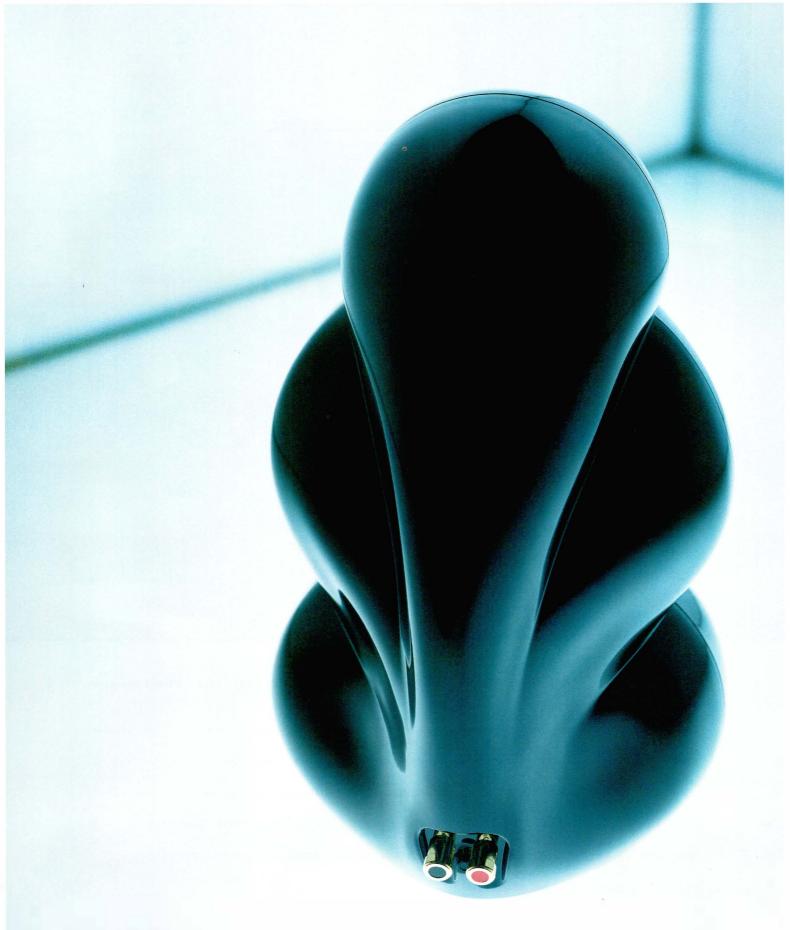
SO SMALL, SO SLIM, SO LIGHTWEIGHT. SO EASY TO ENJOY MUSIC WHEREVER THE MOOD TAKES YOU. WITH LONGER PLAYBACK AND RECORDING TIMES THAN ANY SIMILAR MODEL. PLUS A LONG LIST OF ADVANCED FEATURES. INCLUDING 40 SECOND ANTI-SHOCK MEMORY, SAMPLING RATE CONVERTER, FULL EDIT FUNCTIONS AND BACK-LIT LCD REMOTE CONTROL.

THE NEW SHARP MD-MT831H. WHERE LEADING EDGE DIGITAL TECHNOLOGY



MEETS THE CUTTING EDGE OF STYLE.

FOR INFORMATION AND NEAREST STOCKIST, FREEPHONE 0800 262 958. WWW.SHARP.CO.UK SHARP ELECTRONICS (UK) LTD, SHARP HOUSE, THORP RD, NEWTON HEATH, MANCHESTER M40 58E.



the future shape of sound

www.minipod.com

see you@live 2000 tel: 44 (0)1903 260033



# NEWS & VIEWS

## **Tasty Danish**



Dali's tiny but impressive-sounding Royal Menuet speakers have spawned a larger brother. Despite the new Royal Sceptre's

greater dimensions – devised to incorporate a more substantial 127mm mid/bass driver – it remains a smart and compact standmounting speaker, only 30cm high.

The model on which it is based has become widely renowned for producing a well-scaled sound from a minuscule enclosure, and no less a feat is claimed by the Royal Sceptre in relation to size. Its rear-ported cabinet is made from 22mm MDF and finished in polished cherry wood veneer, incorporating a 19mm soft dome tweeter to go with that coated paper-coned mid/bass unit.

Its Danish maker claims linear impedance, which should make it suitable for use with valve amps as well as transistor designs.

The speaker's crossover network is hand-soldered and hard-wired, with each component individually selected on the basis of sound quality. Four gold plated binding posts are provided per speaker for single or

Audio Club 2 (01296) 482017



### Shearne's new phase



Enter Phase 2, a new integrated amplifier from Shearne Audio which boasts a whole host of improvements over its predecessor, the

Reference.

A 10th anniversary special edition, the amplifier includes a power section with a redesigned heat sink for higher power dissipation, together with revisions in the preamp stage. An upgraded transformer has been employed, which uses two smaller modules. configured to create the effect of one transformer, twice the size of each of the individual units used. Consequently, Shearne Audio has been able to maintain the same outer casing as the Phase 2 Reference allowing present owners the option to upgrade to the new standard.

Specified at a respectable 70 Watt per channel, the Phase 2 Anniversary costs £999 and sports five linelevel inputs, gold plated knobs with fascia mounting screws and a remote control.

Shearne Audio 🕿 (01438) 740953





### PAUL MESSENGER

Mr Messenger's feeling flat – and he likes it.

t was in Autumn 1996 that the Verity/Mission Group first released details of the NXT flat panel speaker technology it was developing, based on work originally pioneered by DERA (the MOD's R&D operation). The company's subsequent growth has been as spectacular as any dot.com operation. At the time of writing NXT plc has a market value of £783.5 million, and a roster of some 50 highly qualified employees. Its rapid expansion has already outgrown two premises, so on June 9th yours truly, together with many other journalists and associates, were invited to the formal opening of a new headquarters building, three times the size of its predecessor.

NXT is not a manufacturer. Mission is now a completely independent entity, and although NXT retains ownership of the Cyrus specialist hi-fi brand, that operation is now essentially autonomous. NXT's attention is now firmly focused

on its core business of establishing, protecting and licensing the intellectual property rights to its flat panel speaker and related technologies.

It's still much too early to predict what impact these speakers will have on the hi-fi scene, especially as their properties seem rather more obviously suited to a whole variety of other sound reproduction applications. Although NXT doesn't manufacture, it does make things. While many of its key personnel are engaged in figuring out

theoretical issues (such as how the panels work and how to predict how any given panel type will work, as well as preparing the software so that licensees can make their own predictions), many others are working on the engineering prototypes which are exploring future applications for the technologies.

The typically low cost and weight of NXT panel speakers will be welcomed by car (and aeroplane) manufacturers as a matter of course. Add in the ability to mould the panels into complex curved shapes and you've got a very potent recipe for fulfilling many of the ideal requirements for 'line fit' in-car speaker systems.

SoundVu is a relatively new spin on the NXT theme, using edge-driven transparent panels rather than the normal opaque panels with distributed drive coils. This has two obvious potential applications, and prototypes of both were demonstrated to very good effect. The mobile phone simulation was most impressive. The SoundVu panel here was simply the transparent top half of the phone's front panel, giving plenty of space for a good size display underneath. With the volume up, speech was clearly audible from six feet away; with the volume low, you could hear clearly at the ear. In between, it should be ideal for hand-held internet/video phones.

The other was a PC monitor sound system, using a transparent SoundVu panel across the display screen to reproduce mid and high frequencies, backed by a conventional bass driver. We were also shown a slimline 'monitor style' television set, where the complex ducting normally used to bring the sound forward had been replaced by much simpler (hence cheaper) NXT panels, placed on the sides.

What about the hi-fi side? Due to go into production this September with a predicted price tag of £1,900, the Cyrus Icon is an ambitious attempt to develop a hi-fi speaker using NXT panel technology. Very elegantly styled and finished, it's a hybrid of course, using a low-set box-loaded conventional bass driver up to 400Hz and a tall, slim monopole panel thereafter. The demonstration suggests the Icon is definitely to be taken seriously, with several interesting qualities different from conventional speakers. Moving the crossover point down three octaves might explain the fine voice-band coherence, while there's also no obvious stereo 'sweet spot', nor treble 'hot spot'.

Even more ambitious is a new Elac development – a very large video projection screen which combines three NXT panels alongside six 180mm metal-cone bass drivers. The panels provide midband and treble for the left, centre and right front channels, and actually incorporate the Novalux surface on which the image is projected.

The big seller is likely to be the new Mission FS2, an ingeniously designed 'lifestyle' satellite/subwoofer speaker system that's amazingly discreet and very flexible, with an exceptionally high domestic acceptance index. Available in stereo at £450 and 5channel surround at £800, with various upgrade paths, the NXT satellites are small 13x29cm affairs primarily intended for mounting across room corners, while the conventionally driven powered subwoofer is similarly equalised for working in a corner.

Time alone will tell whether these or other NXT products hit the commercial jackpot. What is undeniable is that NXT has made dramatic strides with its new speaker technologies in a remarkably short timespan.



The original Q Series won so many awards that it was tempting to leave well alone.

So we changed it.

We improved the Uni-Q® driver array with an acoustically purer polypropylene midrange cone, and a high frequency unit with a more powerful magnet for greater accuracy at high volume. We fine-tuned the crossovers for even smoother response, and mounted them directly to the bi-wire

terminals for optimum signal transmission.

The gorgeous new front baffles are contoured to eliminate edge diffractions, and finished to match the cabinets\* in Natural Cherry, Dark Apple or Black Ash.

And the end result? All the acoustic transparency of the original, with an even sweeter, more open sound.

There's no such thing as perfection - but now, you can get pretty close.







# The Missing Link

Alan Sircom untangles the wires behind his hi-fi and slips in Sony's sleek new computer-ready system.

or most people, hi-fi means CD, analogue radio and a recordable medium, increasingly MiniDisc. But none of these are that new. MiniDisc can remember The Happy Mondays before they were a comeback band; CD is old enough to vote and analogue radio is only a refined version of what Marconi used when he got tired of shouting

almost 100 years ago.

Beneath the surface, though, things are stirring. A plot to bring these central pillars of today's hi-fi reproduction into the e-volution age. And Sony's £1,000 LISSA system is just one example of this behind-the-scenes development. In essence, it is a three box almost-separates system, like the kit that Denon and Teac do so well. But where these are applying trad hi-fi values in a smaller, cheaper box, the lozenge-shaped LISSA kit breaks a lot of rules. It doesn't look like normal hi-fi and its strange sandwich design is stylish and different. But, in particular, this trio of

MD, CD and receiver do without the normal collection of phono plugs or even ribbon cables. Instead, a single I-Link cable hooks up one component to another and the products can be daisy-chained together from CD to MD to receiver.

Data is sent in the digital domain from product to product, with A/D and D/A conversion taking place in the central receiver itself. As such, the way music is passed from component to component is more akin to computer data than music. Signals are spooled into a buffer in the receiver for synchronising the rate of data flow from the source component, using the receiver's master clock to control the source's speed of data transmission. Lastly, because the system works by passing all data through the I-Link chain back to the receiver, individual sources do not need specific inputs or outputs; you simply hook a single I-Link cable into the new device and it automatically recognises it. Computer types will see strong similarities between this system - dubbed HATS (High quality digital Audio Transmission System) - and Plug 'n' Play and Small Computer Serial Interface (SCSI) connections used in the PC world. Running signals from the CD and MD units in the digital domain helps to keep noise low and the way the connection works is suggested to put jitter out of reach. This seems plausible, I-Link is designed to be a high-bandwidth video/data connector, audio signals should be no problems at all, in theory at least.

It is also the first domestically available hi-fi system to be controlled by a PC, if you wish. To eek out the last few performance enhancements, you need a VAIO PC with an I-Link connector and the requisite LISSA software. This allows you to control the three components, edit a MiniDisc and apply more complex parametric equalisation than the simple front panel and wafer-thin remote control would normally allow.

One obvious criticism of LISSA's paradigm shift is that it gives no quarter to virtually every bit of existing hi-fi equipment. If you plan to hook up anything to LISSA that does not have an I-Link connec-

tion, you can virtually forget it. There is a single set of 'legacy' phono inputs, but otherwise the choice is extremely limited. Of course, if LISSA takes off, there will be a whole series of products with I-Link connections fitted. MemoryStick, Sony's cool and tidy answer to the raft of MP-3 players on the market, is a logical I-Link candidate, especially via the VAIO link. We could also expect to see DVD players and AV processors with an I-Link connection, along with SACD and other formats, and many will probably be in the LISSA style.

All of this is pointless if sound quality is poor. In fact, performance is moderately better than most integrated systems, but not by a substantial margin. There is a sense of solidity and insight to its CD sound, but with this comes a touch of hardness. Five minutes with a Basement Jaxx CD is likely to be enough for most people, and anything recorded in the Dark Ages of digital recording will sound extremely steely. However, there is a better sense of 3D sound-



staging with LISSA than a number of integrated systems at

in stone, so while I-Link connections will happily speak to all

guaranteed with other Firewire connections. But hopefully our

manner of other I-Link connections, the same cannot be

fears will remain unfounded, and a world of total digital

interconnectivity may be just around the corner.

But with this system, sound is for once almost secondary to the groundbreaking technology it employs. It is a fascinating pointer to the the shape of hi-fi systems to come - more and more kit in the future may use I-Link connections, or something similar (see box on this page). Ultimately, technology like I-Link could offer sophisticated multi-room style connectivity at a fraction of the cost. Sony 2 (01932) 816000

### **HEAT SEEKERS**

### **JVC** FS-SD9R £299.99

Tim Bowern eyes up a saucy new micro system from JVC and finds it fit.

Style is an individual thing. Some people dress down and play it cool, others go glam and dress to impress. Same with audio. In Paris, Milan, and Tottenham Court Road, sex(y) sells and glammed-up micro models are all the rage. And in that department few companies are better equipped than JVC.

JVC is counting on its new Lumirague range to bring in big bucks. There are three systems in all, each like a miniaturised 'music centre' from the '80s with CD, amp and three-band radio in a single box. The one in our grasp tops the line-up, the FS-SD9R with its rather saucy little cylindrical speakers. They're cherry veneered and sport a single drive unit, reflex loaded with a front-firing port. Their shape may actually have some practical use in reducing the effects of diffraction, though the worth of such a thing at this level is debatable. But my, they sure do look 'priddy'.

The main unit is equally gorgeous, with its top-loading CD section and transparent lid. Press the 'open' button and it glides first back and then up, sparking off a gently-flashing orange landing light in the loading bay. Major controls are conveniently located at the front edge of the uppermost surface, while an informative display glows at the front. Comprehensive functions are handled by the remote and there's an auxiliary in/out, an optical digital output and a subwoofer output round the back. Speaker wires and basic AM/FM antennas are also supplied.

### **SOUND QUALITY**

OK, we're not talking high fidelity here. We're basically looking at a drool-some second system for the bedroom, dining room, kitchen or study, an addendum to the separates system every music lover should (theoretically) possess. It is small, stylish and attractively priced, and as a provider of background music it is a perfectly satisfactory performer. Sound from both CD and radio is really quite substantial, lacking deep bass and real dynamics but avoiding the thin, reedy quality that afflicts many units at this level. There's a fair degree of punch on offer, and though treble can sound thin with driving rock and acoustic instruments lack detail, the presentation as a whole is well-rounded and cohesive. Especially with electronic music – try the *Chilled Euphoria* compilation.

It achieves its aims admirably, but most people will buy this system for the way it looks, not the way it sounds. Indeed, when you see it for the first time there is but one irresistible urge: put on your best Leslie Phillips impression and purr "he-llo!".

00000

JVC 🕿 (020) 8450 3282





### **CASTLE** Pembroke £499

Nick Gear uncovers the hidden strengths of Castle's latest floorstander.

Christened Pembroke, this floorstanding loudspeaker is the smallest in Castle's catalogue and is available in nine real wood veneer finishes, including the ever-popular cherry. Great care has clearly been taken in the design stage. The 73x19x21cm cabinet is beautifully crafted, well constructed and pleasing to the eye. Featuring a traditionally inspired design that projects a regal quality, its aesthetics would be at home in any domestic surroundings.

The front baffle houses a 130mm carbon fibre coned bass unit with a shaped 30mm pole, oversized magnet and long throw voice coil. The higher frequencies are controlled by a proprietary low modulus polyamide dome tweeter, as used in the majority of the new Classic Range speakers.

### SOUND QUALITY

As found on its new Severn model, Castle's downward firing reflex port technology has been incorporated with the intention of reducing harmonic distortion, which is claimed to be shortcoming of forward firing reflex designs, it also allows greater freedom of placement in the room. Claimed sensitivity is 88dB for a nominal eight Ohm load.

Regardless of music type, this loudspeaker is a capable performer with an effortless and clear bass response, and a spacious, enthusiastic treble. When all this is coupled with the speakers' dynamic mid-range, the end result is a sonic presence of pure quality and class. Its treatment of Jean Michel Jarre's *Oxygen* was uplifting – each element was delivered with heart-warming sincerity and assurance. Tested on bass-heavy tracks such as Prodigy's *Firestarter*, the Pembroke stays in control and shows great maturity for one so young. Again with classical and jazz compositions, the recordings are performed with a newfound freshness.

All in all, this floorstanding loudspeaker would grace any living room. With its elegant design, professionally crafted build quality and allround audiophile performance, this is a spectacular addition to Castle's range.

00000

Castle Acoustics Ltd 2 (01756) 795333

### **AUDION Platinum** £1,395.00

Tim Bowern investigates Audion's new amplifier. Is it the best of both worlds?

ever a name with the highest of profiles, Audion has nevertheless built a pretty mean reputation among valve aficionados. Several of its tube amps have won acclaim, and the odd dabble with transistors under a different moniker has also proved intriguing (see the AMP pre/power in *HFC* 187). Now enter the Platinum, an attempt to meld valve and solid state technology into a flexible integrated package.

A pretty hefty beast, it weighs in at 18 kilos and sports an aluminium main casing. The face plate is also aluminium but looks rather old-fashioned, an impression not helped by poor fit and finish to the controls. Three buttons nestle beneath the volume knob, two for cycling between inputs and the other for tape monitoring, and all functions are operable via a supplied remote control.

Round the back you get four line-level inputs plus a tape loop, with pre-out and power-in sockets, for additional amps/processors, together with a solid set of gold-plated speaker cable binding posts. Under the lid lies evidence of hybrid credentials, with two '6922' input valves and four transistors in the output stage, each channel delivering a speaker-friendly 40 Watts. An MM/MC phono stage can be fitted for an extra £250.

### **SOUND QUALITY**

First impressions find the Platinum weighing in with fine musical attributes. It maintains much of the character of pure valve designs at a similar sort of price, with an effusive delivery in the midband and gorgeous subtle detail in the upper mid/lower treble region. It is a touch smoothed-over at the highest frequencies, but the over-riding impression with most material is one of musicality, integrity and a fair degree of guts.

Acoustic music fairs best of all, with strong timbral detail, dynamics and weight. It proves expressive with classical too – a shot of Brahms' *Second Symphony* found resonantstrings and a genuine feeling of 'togetherness', though individual aspects of performance could be sharper.

This probably isn't the ideal amp if rock or dance fair makes up a large portion of your listening. Hard-driving music lacks some grip and tension and ends up as something of an amorphous mass; far from the limp, warm cocktail supplied by gutless examples of valve technology but still without the punch or snap to really get things rocking. Stick with more fluid music to hear how ebullient it can be.

00000

Audion 🕿 (01903) 750755

Audion's



# groovy little mover. AUDIO DESIGN

Microgroove £399.00/£699.00

Tim Bowern vivifies his vinyl with the latest phono stages from Tom Evans.

You need a phono stage to listen to vinyl. And if you want to hear what's really in those grooves, it needs to be a good one. So welcome Tom Evans, music fan and technical wizard. This man has an uncanny ability to weave sonic magic from basic electronic building blocks; witness his work for Michell, Pioneer, Trichord and Acoustic Precision down the years. More recently he has been creating products himself, and the last to fall into our hands was The Groove, a phono stage of revelatory resolve. But at £1,500 it isn't exactly cheap, so what can Evans do for those of us with more limited cash reserves? The Microgroove, that's what.

Anyone familiar with Michell's Iso will see the link here. Evans describes it as a modern day version of that respected phono stage, the same basic design but with crucial upgrades to chip sets, power supplies and the like. It is, in effect, a stereo version of The Groove's dual-mono design, amalgamating its twin circuit boards into one and employing less costly components in a few key areas.

Two versions are available, the basic Microgroove at £399 and a more costly version with Lithos voltage regulation at £699. An Intelstyle badge distinguishes this from its cheaper counterpart, suggesting a Lithos inside will do for your music collection what a Pentium III does for a PC. Evans claims it speeds 'things' up by a factor of 50.

#### **SOUND QUALITY**

The Microgroove is available for use with both moving coil and moving magnet cartridges. I opted for moving coil and listened to both the basic and Lithos-fitted versions to assess the difference.

Before indulging in this review, I must confess I hadn't listened to vinyl for a while. Time spent with my ever-growing CD collection and checking out new formats had put records on the backburner, a situation exacerbated by a recent change of abode. I had not yet found the time to properly set-up my turntable, but then... the Microgroove reminded me what I was missing.

Never has this system dug so much detail from the grooves of my much valued (if recently neglected) record collection as it does with the £699 Lithos-equipped Microgroove. From Hendrix to House of Love, it brings pin-sharp focus to each note and rhythm, with every edge and nuance placed in sharper relief. It is fundamentally honest, so the ride isn't always smooth, but its analytical ability doesn't come at the expense of musicality. It just makes it that much more engrossing.

With the basic £399 version the character is similar, albeit with a less exacting degree of space and resolution. Ultimately, both are exceptionally good for the money. Hello, vinyl. Welcome Back.

00000

Tom Evans 2 (01443) 833570

### **HEAT SEEKERS**

# PANASONIC DVD-RV60EB £449.99

Nick Gear debates the delights of Panasonic's delectable DVD player.

anasonic has expanded its current DVD player line-up to include three new models with this, the DVD-RV60, the top-of-the-line option.

However, the Japanese giant seems to have been concentrating on audio and video performance at the expense of appearance. In fact, compared to the company's early DVD outings there seems to have been little stylistic progress.

Finished in silver, the fascia contains all the vital controls in such a way as to make them easy to find. For added versatility a jog shuttle and a headphone socket are also fitted.

Style aside, this machine is a great vehicle for Panasonic's eye for detail and innovation. The picture quality is as you would expect from a highly regarded and accomplished pioneer of DVD; the colours are bright and defined while contrast levels are rich and consistent. Furthermore, the player is equipped with a number of custom options to tailor the picture to your tastes. All the on-screen icons and displays are blissfully simple and organised, as is the practical, user friendly remote control.

#### SOUND QUALITY

Boasting both a built-in Dolby Digital and DTS decoder, this silverclad player's audio quality is pretty impressive. There is an abundance of options that allow you to alter and fine-tune the player to suit your system. Among the options are Virtual Surround Sound with three DSP modes that offer a variety of spatialising effects in an attempt to emulate multi-channel set-ups.

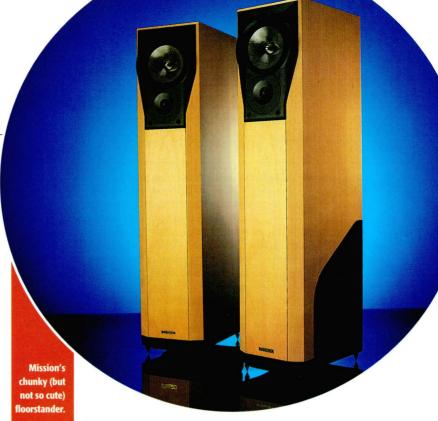
Viewing the high-octane scenes from *The Siege*, you are immediately aware of the refined, crisp and clear sound quality of the DVD-RV60. The dynamic and complex audio tracks giving the player little trouble. Used as a standard CD player through a two-channel amplifier, the sound is surprisingly organised and balanced with minimal bass distortion or tonal vagueness.

As you would expect for a top-line model, its rear is a packed with a plethora of gold-plated terminals for 5.1 output, video in/out, plus two Scart connectors and, unusually, dedicated stereo outputs.

Compared to the contemporary appearances of Philips and Sony offerings, this is by no means a stunner, but the DVD-RV60 is a great machine that boasts a huge 'audio and video' personality.

**♦ 2000** Panasonic **№** (01344) 862444





MISSION 783 £999.90

Paul Messenger takes a first look and listen to Mission's new loudspeaker.

ig brother to the 782 (*HFC* 199), Mission's new thousand-pounder follows precisely the same formula as its sibling, but with everything scaled up by around thirty per cent. With nearly twice the internal volume, it stands 14cm taller, and is 4cm wider too, two factors which unfortunately drop its cuteness rating by several dB.

The 783 is three-way design which mounts the bass unit on the side near the floor, the better to keep the front profile slim and provide good stability. It carries a £1,000 price tag, which seems fair enough in the 782's £700 context, but looks a tad expensive compared to Mission's significantly larger £800 775 (reviewed in HFC 204).

That said, it's artfully styled and beautifully finished, with a heavily chamfered front baffle edge, and hefty, well braced cabinetwork and plinth. Chunky 8mm spikes give fine stability, while the use of substantially larger bass and mid drivers than the 782 has led to considerably improved neutrality and smoothness, and a modest increase in sensitivity. However, presumably because of the ceramic Keraform midrange cone, the latter is well down on the 775's rating. Paradoxically (since this is a three-way), twin terminal pairs are fitted.

### SOUND QUALITY

Experiments suggested that it's better to leave some sort of gap between the 783 and a wall, and indeed the smoothest overall measured in-room balance was with the speakers a metre out into the room.

Neutrality is its greatest strength. This speaker is beautifully, evenly balanced, so that no part of the spectrum stands out. It's also something of a 'sweet spot' speaker, delivering impressively precise and well focused images free from boxiness. At the same time, however, the speaker seemed somewhat lacking in transparency, and reluctant to generate convincing dynamic drama and tension. Voices too showed a touch of nasality, making me wonder whether perhaps the speaker would benefit from a more running in than our schedule allowed.

Polite and well behaved to a fault, the 783 won't disturb your equanimity with intrusive 'nasties', but neither does it generate the most involving sound around. It's a good looking design, which performs rather better than the 782, but lacks the latter's cute compactness.

00000

Mission Electronics 🕿 (01480) 451777

### **JAMO** E850 £299.99

## Tim Bowern checks out the latest floorstanders from Danish giant Jamo.

n an effort to raise its profile, Jamo is revamping its image and restructuring its vast range of speakers. Names have changed (the Concert 8 is now the D830) and new products have emerged, like E8: a four-strong line-up comprising a standmounter, two floor-standers, a subwoofer and a centre speaker.

The E850 is the smaller of the two floorstanders, attractively proportioned with dimensions of 17.5x86.2x34.1cm (WxHxD). The cabinet is fashioned from particleboard with an MDF front baffle, and the entireconstruction is coated in black, beech or cherrywoodwrap. Driver configuration is three-way, with a pair of 110mm mineral-reinforced cellulose cones for middle and bass frequencies, and a 25mm soft dome tweeter delivering the treble.

To the eye the cumulative effect is largely pleasing, bar the silver-coloured plastic badge and feet, and attention to detail is impressive: useful protectors are supplied for those who balk at spikes embedded in their parquet flooring and even the instruction book is unusually clear and informative. Twin sets of binding posts are provided for bi-wiring, while a claimed sensitivity of 89dB and 6 Ohm impedance should give most amps little cause for concern.

### **SOUND QUALITY**

Producing a well-balanced budget speaker has always been tricky, and a well-balanced budget floorstander trickier still. But now designers have to pitch their products at the rapidly expanding home cinema market as well as coping with music applications, which puts even more strain on their expertise as they strive to find a happy medium. This is exactly what Jamo has tried to do here, and sure enough there's plenty of low-down thump to cope with movie bangs and crashes, together with a rather wispy treble exposed by a certain midrange reticence. It isn't all boom 'n' tizz, but there's a lack of coherence overall.

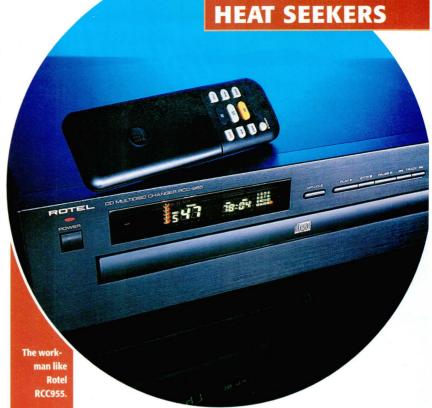
A leaden sound at low listening levels comes to life as you jack up the volume, the soundstage expanding along with the emergence of decent musical tension. But despite the bass thump, presence remains shut-in and vocals turn out thin and shouty — trancey non-vocal dance music and orchestral stuff, oddly enough, turned out best.

This, then, is a not unreasonable stab at producing a high-value floorstander that can handle both music and movies with equal aplomb. But in the end its orientation veers more towards Hollywood than Abbey Road.

00000

Jamo UK 🕿 (01327) 301300





### ROTEL RCC955 £500

Single disc performance from a multidisc player? Nick Gear checks it out.

n the literature supplied with the £500 RC955 player Rotel asks the question "Can a CD carousel provide the same sound quality as a single-disc player?".

On the evidence provided Rotel seems to have turned the trick, at least as far as some less expensive single disc players are concerned. It may not be the most visually inspired model on the market, but inside its conservative shell beats the heart of a decent player.

Compared to the low-profile construction of the Nakamichi MB-10, the RCC955 features what can only be describe as an '80's black-box' design. Ditching exquisite lines and contemporary colours for work-manlike build quality and functionality.

Rotel has decided to opt for a five-tray transport, which possess a smooth and quiet action. The key buttons are easily located and all the important information is displayed on a large, user-friendly display.

The RC955 boasts a large selection of options including the standard random, repeat and intro modes, and 32-track programming for 5 discs. Operating each function is painless and navigating each disc is extremely easy and trouble free.

Other attractions include a basic, but easy-to-use remote control, plus digital and analogue socketry. Rotel has also incorporated Pacific Microsonics' popular, if no longer so new, HDCD DAC and filter.

### **SOUND QUALITY**

Playing your favourite tracks on the RC955, its qualities are immediately obvious. Put on the rip-roaring sounds of Wagner's *The Ride of The Valkyries*, and it would seem that Rotel has pulled of a fine trick. Played through an Arcam Alpha 7R and B&W 601 S2 speakers, the sound is precise and dynamic, making for an enlightening experience. The lower priced Nakamichi MB-10 reviewed in the July-August issue did however manage to show the Rotel a thing or two when it came to overall resolution and balance.

Rotel's RC955 is a confident CD changer that merits the asking price on build qulaity grounds. If you are pondering upgrading your single player to a changer, then this machine is a serious contender but not the only one.

00000

Gamepath Ltd 🕿 (01908) 317707

# Once Upon A Time...





...Home Theatre systems used to be big, cumbersome and ugly. And, their performance was pretty ordinary too.

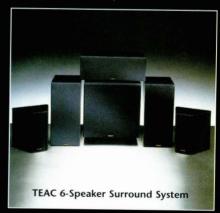
But, all that has now changed. Because TEAC have just introduced a Home Theatre System with stunning looks and a performance way beyond its compact size. It is light years beyond your imagination. It comes complete with a 5x 50W amplifier, Dolby Digital DVD Player and a 6 Speaker package that includes an active sub with variable crossover and gain, matched

voicing centre, left and right speakers, and bipolar rear speakers.

It's all ready to plug in and play, all you need is a television. It will change the way you watch movies and other programmes at home for good. And best of all, the system costs less than £1100.

For once, a movie story with a happy ending.

Visit your TEAC Stockist for a demonstration or call TEAC on 01923 819630 for information on this extraordinary system.





The TEAC DVD Home Theatre System

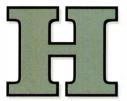
### DAVID

It seems our David is unable to keep his straying hands from

# VIVIAN

fiddling with knobs. You purists may sigh in disgust, but hear him (and the music) out...

In my book there's nothing



ere's a thought to grapple with. Should hi-fi be regarded as absolute or malleable? Is there only one true and righteous path to audio nirvana? Or does having a selection of user-chooser options that acknowledges the mythical nature of perfect high fidelity

reproduction make it easier to love the music and be less hung-up about the hardware?

It's fashionable, and has been for as long as I can remember, to be absolutist. The psychology is powerful. People buy amplifiers without tone controls because they're told it shortens the signal's path through the amp and therefore protects its purity. But the actual hook is the notion that there can only be one 'right'; any deviation from this is a distortion of the truth. It's a bit like having a television with an RGB output. You feel reassured because you assume the colour balance is spot on. The only way to get a better picture is to buy a better telly. Embrace this logic and it follows that if you want more bass from your system you have to buy a bigger pair of speakers. And if you're going to be really pedantic about

the meaning of bass (hard-bitten audiophiles are seldom anything else), it's probably true.

My hunch, however, is that this is a bunch of arse and it cuts against the common sense instincts of most ordinary people. I'd be surprised, for instance, if any given group of

viewers' preferred colour settings (imagine they were given plenty of time to fine-tune what, to them, seemed a natural-looking TV picture) would mimic the RGB standard, the settings of other members in the group or, indeed, yours or mine. Moreover, they would occasionally feel the need to tweak the settings to suit the programme material. We all would.

I also suspect that more than a few of us would prefer to turn a knob two notches to the right than shell out for a new pair of speakers. In my book, there's nothing bogus about tailoring sound to suit personal tastes. If tone controls hadn't been stigmatised by the purists throughout the 80s and 90s, we'd now have more top kit with them still intact; and I'm sure they'd work beautifully. The added flexibility would be liberating.

More power, then, to blossoming German manufacturer T+A (it stands for Theory and Application) which not only makes amplifiers with tone controls but a CD player (the £1,185 CD1210R) employing a switchable filter system that effectively gives five different-sounding CD players in one box. When Alvin Gold reviewed it as part of a *Super Test* in *HFC* 188 he





commented that the filter system "might be seen as a tacit admission of defeat, an acknowledgement that there is no single 'right' setting". But surely that's the point, Alvin? In the real world, there <code>isn't</code> a 'right' setting. Unfortunately, T+A rather undermined its case, in the listening panel's estimation, by producing a player that didn't sound exactly great on any filter setting. 'Unsubtle' was the concensus. I was intrigued enough to get one back in, even so.

T+A, founded as a speaker maker in 1978 by one Siegfried Amft, today styles itself as the Audi of hi-fi: stylishly understated, solidly built and – perhaps most importantly – impressively endowed in the *vorsprung durch technik* department. The five-way selectable filter is proprietory T+A technology and was the subject of a Paul Miller analysis in *HFC* 189. In essence, these filters trade time against frequency distortion – at one end

of the scale you can choose maximum (digital)
noise rejection and at the other you can



minimise timing errors. The latter filter setting – referred to as the 'Bezier' technique in T+A's technical paper – gives the crispest performance of all, but at the expense of slight high frequency roll-off and more noise for the amplifier to deal with.

I'd be tempted to christen it 'The Naim Setting': punchy, rhythmically coherent, fast, foot tapping, if lacking a little 'air' and (yes) subtlety. It's the one I'd choose, if I had to forget about the other choices – for no other reason than I listen to more rock, dance and jazz (to which it seems brilliantly well suited) than classical and small ensemble acoustic. But, as the owner of a 1210R, I'd be drawn into playing more classical stuff because, on settings two and three, it breathes and sounds convincingly richly textured.

In the end, it's hard to believe one CD player can encompass so many diverse presentational styles. Perhaps it isn't the master of any of them but the longer you spend with it, the more alluring its versatility becomes. With a little experimentation, I reckon it could sound 'good' for more of the time (given a wide and varied diet of discs) than just about any similarly priced, maybe ultimately more capable, rival. If you're into the music rather than the machines, that's a definite plus.

# COMPETITION

# WIN SOUND ORGANISATION HI-FI SUPPORTS

Win one of a dozen Sound Organisation equipment and loudspeaker supports.

his month we are offering an amazing 12 prizes courtesy of those super generous and all-round great chaps at Sound Organisation. Worth a hefty £1,500, the prizes include six of Sound Organisation's silver-finished Z545 (£160) four-tier equipment racks and six of its Hi-Fi Choice Best Buy Z522 (£90) speaker stands.

Standing an impressive 70cm tall and measuring 46cm wide by 36cm deep, the Z545 is the ideal stand for those compact hi-fi separates. A stylistic variant of the Best Buy black-livery Z545, the silverversion is identical in all other respects.

Furthermore, all the Z series equipment supports feature adjustable and removable glass shelves, spikes and just two uprights to keep contact with the shelves to a minimum therefore reducing vibration transmission. This is further enhanced by the use of isolating rubber feet between the glass shelf and support frame.

Alternatively, if you prefer a pair of speaker stands to improve the acoustic and stylistic qualities of your system the Z522 is the second prize option. Again based on the black version, this speaker stand was our Best Buy winner back in May 2000. Designed to ensure a "rigid and secure support" for a wide range of loudspeakers, the Z522 is provided with audiophile spikes at the top and bottom. The support is configured with "four tightly" packed rectangular uprights and a solid



holes to support the speaker. In our detailed speaker stand Super Test in May,

Richard Stevenson described the Z522 as "polite, with a relaxed air that also makes for easy-going entertainment".

For this month, *Hi-Fi Choice* is giving you lucky people the option to choose your goodies. Just write on your entry form or card the prize you want to win and your wish is our command. All you have to do is answer these two easy questions and keep your fingers crossed!

### **HOW TO ENTER**

Answer the questions below by circling the correct answers, then fill in your name, address and daytime telephone number in the spaces given.

Q1. How many shelves does the Z545 feature?

A 3

**B** 4

C 5

Q2.Both prizes are finished in silver, but what is the chemical symbol for this precious metal?

A. Au

B. Ag C. S

Post this entry form to:

Hi-Fi Choice Competition (CHFC 0008A)

Kirsty Husband, Database Direct, PO Box 9, Dunoon, Argyll PA23 800

All entries must arrive by First Post, Wednesday, 30 August 2000. Please remember to tell us whether you are over 18 years of age.

Address (inc. postcode)

**Day-time Telephone Number** 

Please tick one only of the following:

☐ Are you a current subscriber? OR Are you a regular reader? OR ☐ Are you an occasional reader?

COMPETITIONRULES

1) The closing date for the Sound Organisation competition is First Post, Wednesday, 30

submitted, and drawn at random after the Closing Date given in 1) above.

3) All winners will be notified by post. 4) The Editor's decision is final and no correspondence will be entered into

5) The Sound Organisation Competition is not open to employees of Future Publishing

Ltd, Sound Organisation, their suppliers, agents or associates

6) We regret this competition is open to UK residents only

7) No cash alternatives will be offered.

8) We reserve the right to substitute alternative prizes with equal value to these shown

in the unlikely event of stock being temporarily unavailable

9) By entering the competition, you agree to be bound by the rules

10) No purchase necessary, send the details requested on the left on a postcard to the address given. Please note: only one entry per household.



THETA Digital was founded a decade ago with a mission to put back the musical emotion many listeners found lacking in Compact Disc player reproduction. Since the Theta has grown a family of outstanding digital products.

Casablanca proved to be the most exciting home entertainment product ever—showing the future of audiophile audio/video. Modular design means Casablanca can be anything you want: an audiophile analogue preamp, a high performance digital preamp, a home cinema processor, a high fidelity video switcher or surround sound processor. Buy just a basic system and later add 'the works'. You won't have to worry about trading in out-of-date home cinema kit, Casablanca lets you add and expand, growing with your needs and new standards. And from Theta you know build quality is



Entertainment magazine was sufficiently impressed to award the Editor's Choice and say "turns in the best performance we have yet seen from a DVD player" (Home Entertainment April/May 1999)

Voyager is a Universal DVD/CD/LD transport that will play any digital disc out there and some more when they become available. Its performance was described as: "a definitive lesson in what separates a true high-end product from the mainstream" (Jonathan Valin Fi-Delity January 1999).

> Pearl brings Theta quality into a new price range. Pearl features the jitter reduction technology and multiple high quality power supplies that made the early more expensive Theta transports perform so well.

Jade is Theta's new high-end CD transport which draws on technology from the Pearl. To quote one reviewer "it stretches the compact disc medium about as far as it will go and a long way further than many not exposed to this level of ability would credit" (Alvin Gold, Hi-fi News September 1998).

Miles is Theta's first integrated CD player and is available in both balanced or single ended output forms. Alan Sircom was "entranced with

the sheer sophistication of the sound. Every time I played a disc, I had to play another" (Hi-Fi Choice March 1998).

We still feel the Theta Data Basic II and Pro Basic IIIa make a magical combination, providing a true state-of-the art, high value CD player/DAC combination at under £5500. High-value high-end products from Theta include the Chroma D/A converter available

with or without HDCD offering unbelievable performance under £1000 and ILC 'Timebase Linque Conditioner' is a staggering anti-jitter bargain at just £199. This tiny box reclocks the optical output of a CD player or transport for a

in glare and harshness" (Ken Kesser, Hi-Fi News April 1995).

full details of dealers where you can hear Thetal Attraction in action.



exceptional. You pick the processing: Dolby Prologic™, Dolby Digital AC-3™ or DTS Coherent Acoustic. Casablanca can be configured to control up to nine sound channels with balanced or single ended inputs. It can be chosen with remote control and is programmed through either its LEDs or via on-screen

display on your TV.

CasaNova borrows the processor heart of Casablanca to produce a AV processor of exceptional performance

"one of the most rewarding AV processors we've beard to date for both music and movies alike and comes with the strongest recommendation" (Home Entertainment April/May 1999). And what better to partner the CasaNova than Theta's new Dreadnought multichannel power amplifier. You start with the channels you need and add later what you want. Dreadnought is

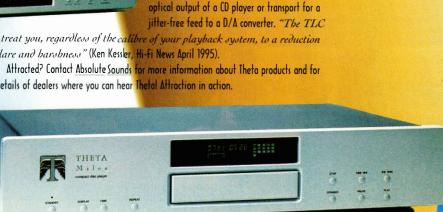
Theta's answer to those underpowered and sonically bare acceptable multichannel amps foisted on videophiles. Theta call it an amp that 'truly serves the music'.

DaViD is Theta's DVD/CD transport.











Absolute Sounds 58 Durham Road London SW20 ODE 020 8 971 3909 O700 ABSOLUTE 020 8 879 7962

Email info@absolutesounds.com http://www.absolutesounds.com

Casablanca



# LBIBRS

Hi-Fi Choice's very own 'points of view' page, where you, the reader, can express your opinions!

LETTER OF THE MONTH



#### PRAISE VOI

Back in issue 160 Alan Sircom waxed lyrical about the Jamo Concert 8s, and I thought they may make a suitable replacement for my ageing Celestion SL600's. But I thought I'd wait until they were group tested. It didn't happen! But I got a pair nevertheless.

They are simply delightful in the mid-range and the bass. In fact my REL Stadium hasn't been fully employed for a while!

I have managed to put together a fair system over the last few years and all of it is made up of separates recommended at some time or another by the stalwarts from HFC. It makes quite a nice musical sound! So my thanks are therefore overdue to all the reviewers, past and present, who've contributed to HFC and shaped my thinking and helped me to judge equipment meaningfully. Especially the two Pauls, without whom we would have no way of interpreting the 'technoblurb' often resorted to by manufacturers.

Thank you everyone. (Even Jimmy Hughes who worries me sometimes, still, if you think he's OK).

Geoff H, near Maidstone

The Editor replies...Sorry we never got round to group testing the Concert 8, now rebadged D830, but it sounds like it made the grade nonetheless.

### **CONFUSED MD**

I live on the Shetland Islands and generally buy blank MDs by mail order. I have recently discovered a company on the internet which was advertising a wide variety of media including MDs which had 74, 80 and 200+ recording capacity. When I rang the company, the person I spoke to was unable to confirm whether the 200+ minute discs are compatible with ordinary MD recorders. Can you please advise, as a few longer MDs would be very useful.

 $And rew\ Mc Pherson,\ Shetland\ Islands$ 

The Editor replies... At present MiniDiscs are available in 74, 80 and 90 minute lengths. The confusion seems to have originated from the manufacturer's product description. Normally a brand will specify the recording time. However, some brands prefer to quote the capacity in MB (megabytes). The worrying fact is the company actually thought a 200 minute MD existed!



#### THE DAC LASHBACK

After purchasing an external DAC I am amazed at the improvement. Would it be a good idea to do a review of slightly older DACs which due to the fact that they are no longer in fashion are being sold at bargain prices! I just bought an Orelle DA188 for £175 and have since seen an ex-demo model for sale for under £150. It just seems people are missing out on potential bargains. It fits in to my system which consists of Rega Planet, Orelle SA100RX amp, Rega Radio, Yamaha 580 tape deck and Rega Jura speakers. With the DAC I feel have found true synergy!

I have just changed speaker cables from cale talk concert biwire to Audioquest Indigo+ biwire and wow what a difference. Either the cable talk is very poor or the Audioquest is a revelation.

Mark Owen, Enfield, Middx.

### BEG TO DIFFER

Could you please explain to me why you gave an Arcam Alpha 8R

amp a Best Buy award (issue 192), yet in issue 196 you gave the impression that the Alpha 7R was nothing special at all.

Your own Paul Miller said in his lab report that the 7R was a lower power version of the 8R. And if you compare both lab reports they are indeed identical.

Charles Agnew, Liverpool

The Editor replies... Regardless of the differences or otherwise between these two Arcams, the rating each received depended on the standard on offer from their competitors in each group. Quite probably the 7R ended up in a much stronger group than the 8R.

### SPLENDID SPENDOR

Being a confirmed fan of Spendor loudspeakers, but frustrated since there is no longer a dealer in Australia, can I ask why we never see reviews of them anymore? Surely if they don't bring out new models, they would be continuing to periodically upgrade classic models like the SP100 and SP2/3 which would render them worthy of a re-visit. Also I never see them in group comparisons. Are they 'persona non grata' these days? Thanks.

Curious Cam, Australia

Editor replies... Spendor has been keeping a low profile in this country for the last few years, concentrating its efforts on the professional market as far as we know. But if anyone from the company is reading, we'd love to review some of you speakers.

### WRITE TO US

Let it all flow and send us your points of view on all that is hi-fi. The author of the best missive wins a prize for their efforts. Get writing to: The Letters Page, Hi-Fi Choice, Future Publishing, 99 Baker Street, London W1M 1FB, or send your e-mail to: jason.kennedy@futurenet.co.uk







Letters page sponsored by



at the heart of it

TDK's audio CD-R range



# The Response range from ProAc.

Proof that you can please most of the audiophiles most of the time.

Since the Response range was launched ten years ago, we've sold around 10,000 pairs worldwide. In the rarefied world of high-end audio, that's a lot of loudspeakers.

Conceived on the basis of sound quality alone, with cost as an afterthought, Response models have always incorporated the finest contemporary hardware elements available.

This cutting edge technology, allied to inspired design innovation, has resulted in a series of models which have consistently produced smooth natural sound with pinpoint imagery in an expansive soundstage.

The wide network of ProAc dealers will be pleased to put our current range of world-beaters through their paces for you. Call us for your nearest dealer and arrange a demonstration soon.



Highpoint House, Riding Road, Buckingham Road Industrial Estate, Brackley, Northamptonshire NN13 7BE

Tel: 01280 700147 Fax: 01280 700148 Website: www.proac-loudspeakers.com

# Digital Recorders

With digital recording taking a hold in many systems, Alvin Gold pits CD-R and MD recorders against each other to find the best format and the best hardware.

elcome to the big one: the most comprehensive test of digital home recorders ever, in this or any other magazine, here or (as far as we can ascer-

tain) abroad. This is a test whose time has very definitely come. We have assembled no less than 12 recorders, seven CD-R/RWs, and five MiniDisc. There are several digital formats that could have been included – DAT and MP3 to name but two – but we wanted to limit attention to formats that can either make a realistic claim to high fidelity, or which are at least commonly regarded as such.

As this is a first, let's lay the groundwork with a quick look at the two formats. MiniDisc was the first digital disc-based recording system for domestic use, and uses a data reduction (sometimes incorrectly described as data compression) codec that loses about 80 per cent of the data required by compact disc. It uses a perceptual filter which removes the information that is least likely to be audible, based on a real time analysis of the audio spectrum which is split for the purposes into three bands. MiniDiscs consequently need less surface area than CDs, and so are tiny and well protected inside a sealed caddy. MDs are available in two forms, pre-recorded, which are optical discs, and magneto-optical discs, which can be recorded, erased and re-recorded like a cassette tape. From the outset, prerecorded discs have been available only in very small numbers. In the course of this test, checks with local WHSmith and Our Price branches confirmed that both are selling off their stocks, which will not be replaced. This may not be a general pattern, and of course it doesn't necessarily impact on the popularity of MD as a recording tool.

But there is no doubt that the recent resurgence of interest in CD-R, fuelled by lower prices and the fact that recorded CDs are just that – CDs – has taken the market by storm. CD-R is succeeding even in the central bastions of MD, like Japan, and MD has never had much presence in the USA. But there are clouds on the horizon for CD too. Recordable CD exists in two forms, the non-erasable CD-R, and CD-RW (ReWritable), which are CD compatible except their low reflectivity requires a different laser configuration that is simply not a part of most CD players. A miss is a good as a mile of course, and this is a major breach of the CD standard. Also note that computer data discs cannot be used in domestic recorders. Irritatingly, domestic blanks

THE CAST	LISI
CD-R/RW	
JVC XL-R5000	£450.00
LG ADR-620	£350.00
Marantz DR-17	£1,499.90
Philips CDR951	£380.00
Pioneer PDR-509	£300.00
Pioneer PDR-W739	£400.00
Teac RW-800	£349.95
Minidisc	
JVC XM-448	£220.00
Kenwood DMF-5020	£249.95
Pioneer MJ-D508	£200.00
Sony MDS-JA555ES	£649.99
Teac MD-8	£599.95

carry a recording levy that in the UK is not passed on to the copyright owners, at it is in some foreign countries. Both CD-R/RW and MD uses SCMS copy management, which prevents digital domain recording beyond the first generation.

#### CD-R/RW recorders

One striking difference between the CD-R and the MD recorders is the sheer variety of configurations available in the CD-R format. There are single disc recorders, dual recorders with a single play and a single record capable mechanism, and finally there are models with a single record mechanism and multiple players. The range of prices also stretches wider than MiniDisc, but only because one model was priced way out on a limb. This of course is the

Marantz DR-17, which is the only CD-R in the test designed to address the high end as a CD player that can also be used to make discs, probably for archiving or use in the car.

Most of the others address a rather different set of requirements. With the multidisc units in particular, it is clear that their principal market is for making CD compilations, and most of the models tested will accept microphones, which can be mixed with the analogue and digital inputs, which suggests a spectrum of uses broadly centred on the idea of a home studio. The LG ADR-620 is an interesting variant on the theme. It is the first domestic CD-R capable of dubbing complete discs played internally at 4x play speed, which means very rapid copies can be run off, though it is worth remembering that most computer CD-R drives can perform the same trick. But no computer drive known to the author can play two separate discs at once in different rooms!

### MiniDisc recorders

In stark contrast to the CD-Rs, the MiniDisc recorders are all basically of one type; that is they have similar levels of functionality, the main area of differentiation being related to build and (of course) sound quality. The fact that there are no twin decks is a direct consequence of the fact that the market for recorded MiniDiscs never really took off. It is harder to explain why there are no MD recorders with integral CD players, but this may be partly political. Sony is strictly MD, and Philips is four-square behind CD-R, and merely acknowledging the existence of the other side somehow probably involves some loss of corporate face. Note on this topic that Pioneer is about to reclaim its virginity (see review). And you didn't think it was possible...

### How the tests were done

Our 12 recorders were subject to the usual battery of tests, including a close physical examination, unsighted panel based listening tests in a high grade system, hands-on listening, mainly using a more representatively priced range of speakers and amplifiers, and a computerised measurement test programme (by Paul Miller). Each recorder was run in and warmed up prior to being auditioned.

For the panel tests, a standard music programme was recorded onto identical discs, one for each recorder. Panel testing was conducted so that no panel member knew the identity of the player on test, and with levels carefully normalised at the

beginning of each test run. The system used on this occasion included a Krell KPS25sc, used as a CD source and as a preamplifier, a McCormack DNA-125 power amplifier and JM Labs Mezzo Utopia speakers for the unsighted and some of the hands-on tests. Speaker cables and interconnects were from Nordost. Hands-on listening also included a Primare A-10 amplifier, and Castle Severn 2SE speakers.

### The listening panel

Once again, our usual thanks go to those who contributed their listening skills and time. This month's batch included the following: Colin Hinkins

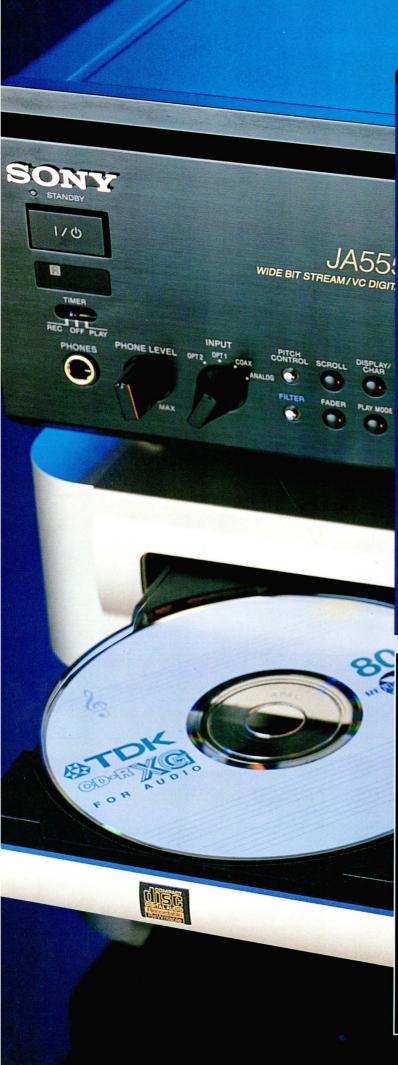
(Mirage, Energy), Keith Haddock (REL) and Tony White (Mission). The test programme was broken down into bite size chunks to avoid fatigue, with repeats and replays of the original material from CD.

### Test music

Mozart – Flute Quartet *Rondeau* (EMI) Lorna Hunt – *Long Hard Road* from *All in One Day* (Classic Records)

Ravel/Boulez/Cleveland Orchestra – *Piano Concerto* in G Presto (DG)

Keb' Mo' – Dangerous Mood from Just Like You/ Okeh (Epic)



### GLOSSARY

CD-R: Recordable compact disc that cannot be erased, though discs that have not been completely filled can have more tracks added later until the disc is finalised.

CD-RW: Recordable/erasable and rerecordable disc, the true successor to the compact cassette, and comparable in its capabilities to recordable MiniDisc. Finalised CD-RW discs must be unfinalised before they can be rerecorded.

FINALISE (CD-R): The process of copying the Table of Contents from its temporary area on CD-R and RW where it is ignored by CD players, to the final position where it is recognised by CD players.

ATRAC (MD): Adaptive Transform
Acoustic Coding is the core data
reduction algorithm that allows digital
data to be represented by about onequarter the amount of data required
by compact disc standard audio.

DAC FUNCTION (CD-R AND MD):
The digital to analogue converter of some of the recorders can be used independently of the record function.
Some models (the Pioneer MJ-D508 for example) have noise reduction circuits which could be used to denoise vinyl replay, which can be encoded through the A/D converter prior to de-noising and replay through the D/A, or archival onto disc.

EDITING FEATURES (MD): MiniDisc has extensive editing features, making it the natural choice for creative recording. Tracks can be moved, divided, merged or deleted at will, features which are not matched by CD-RW, still less CD-R.

es BOB DYLAN 91 SOm24:

#### **HINTS & TIPS**

Be aware of the length of blank media. If the aggregated track time approaches 74 minutes, for example, use an 80-minute disc instead, and in any case use good quality media. From long experience, different disc brands do sound different. In general avoid using the digital volume control (where fitted), and stick instead to the standard setting, which avoids any translation process, and which inevitably sounds better. Use a CD-R pen if you want to write on a disc label. In dual transport CD-Rs, the recording mechanism usually sounds better for playback. Finally, remember that most CD players won't play CD-RWs, though the situation is changing.

HOED

### **VARIABLE DIGITAL RECORD LEVEL:**

Some of the CD-R and MD recorders incorporate digital gain that allows the digital record level to be increased beyond 0dBFs, often as high as +12dBFs in some instances. If your source material never exceeds -12dBFs then the digital gain will optimise the dynamic range of the signal for playback purposes. If, however, the applied digital gain was to cause the incoming digital data to exceed 0dBFs (-5dBFs incoming with +12dB gain gives a notional +7dBFs level), then the record/playback chain would be plunged into instant and massive distortion. Unlike analogue recording, which typically overloads quite gracefully as levels are pushed into the red, digital recordings offer less and less distortion as the digital level reaches its peak at 0dBFs but then crashes into 100% distortion the instant this level is exceeded. Play safe and leave any digital gain control set to '0dB'.

### **SAMPLE RATE CONVERTERS:**

Because the incoming digital signal could, in theory, originate from sources other than a CD player, the sample rate might be 32kHz, 44.1kHz or 48kHz. All CDR/RW and MD machines use some form of sample rate conversion (SRC) to deal with this possibility and ensure the digital data that hits the disc during recording is running at 44.1kHz – the same rate as CD. SRC is also typically necessary when recording at 2x or 4x speed to ensure the finished CDR/RW is compatible with standard CD players.

Obviously, where the incoming digital data originates from a CD source, there's no need to convert the 44.1kHz code back into – er – a 44.1kHz code, nevertheless some machines still perform this 1:1 conversion unnecessarily. The penalty is often extra digital jitter, which can make your copies sound worse than the original. See the Lab Reports to see where SRCs are used and have some impact on performance.

# **IVC** XL-R5000





he XL-R5000's middle names are (or should be) Flexibility First. The three-disc playeronly section uses three separate loading drawers stacked above each other, though they won't play unfinalised CD-Rs or RWs. The CD-R mechanism completes the package, and CD Text is supported.

Because the play and recording mechanism are under the JVC's control, they can be speeded up, allowing normal (real time) or 2x speed recording. Complete CDs can be copied at the press of a single button, but it is little harder to make compilation recordings from a selection of tracks on up to three discs. It is also possible to make recordings from the 6.3mm stereo microphone input, which can be mixed with the other inputs. Fine control of pitch (plus/minus 12 per cent) is possible, and so is timer record operation.

The JVC is equipped with a sample rate converter for 32kHz and 48kHz, but 44.1kHz signals are bypassed to optimise sound quality in this mode, and must remain bypassed if HDCD coding is to be retained on the recorded disc. (Note that the XL-R5000 does not have its

### "This is a pleasing player... smooth, averagely detailed, and without vice."

own HDCD decoder.) The recorder can be connected to other JVC systems components for linked operation. About the only trick the engineers have missed is electrical digital socketry, which will make it difficult to use in some systems.

#### SOUND QUALITY

This model was well received by the panel. There were some criticisms: 'It sounds very slightly restrained,' wrote one in his sum-up notes, and another complained of 'a hint of splashiness', but they were muted comments, and more than offset by the positives. 'This sounds pretty good,' said one in an après-listening discussion. 'The recordings sound similar to the original, there's plenty of detail and it's easy to follow.' He also remarked on what he heard as a lower noise floor than that of the previous player he had listened to. Although he didn't know it, the comparison he was making in this case was with a MiniDisc recorder, which

doesn't have the same subjective dynamic range as CD-R, and does often sound subjectively noisier.

In contrast to the others in this test capable of recording at higher than normal play speed, the JVC ended up making clearly superior recordings at normal speed. High speed dubs lacked resolving ability and the three dimensional imagery in some of the recordings (not the featured titles used in the panel tests) gave signs of a concertina'd depth plane and a loss of 'air'. In addition, there was a clear performance gap between the play-only and the record mechanisms, the advantage as usual going to the latter. Where the JVC scores over some of the alternatives is that its internal electronics are fairly transparent. This is a pleasing player even when used in the company of more costly systems, not because it is unusually detailed, dynamic or involving, but simply because it is smooth, averagely detailed and essentially without vice.

#### CONCLUSION

The model that comes closest to matching the JVC XL-R5000's abilities head-on is the Pioneer PDR-W739, which offers similar performance, but a wider range of input and output socketry – and a £50 lower price tag (though prices tend to be ephemeral). This rules out a formal recommendation of the JVC, but the XL-R5000 nevertheless remains an extremely powerfully equipped disc spinner which will do anything any reasonable person could ask, and do it well.



### THE LAB REPORT

hen Philips launched its first budget domestic CD-R recorder a couple of years back (see HFC 174), the CDR-870 was flawed by its use of a sample-rate converter (SRC) even when copying at a fixed 44.1kHz. The same fate would have befallen JVC's XL-R5000 if it were not for the fact that its SRC may be bypassed via the set-up menu. Dubbing at 2x speed from the internal multiplay drives forces the SRC on and results in a massive and subjectively undesirable >30,000psec of jitter. Recording at 1x internally or via the optical digital input with the SRC facility turned off results in jitter drop-

perfect, is a dramatically better outcome. Either way, the best replay performance is achieved viathe single CD-R/RW driveand not the multi-play drives, which suffer some 475psec of jitter

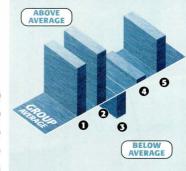
to the single drive's 262psec. Noise and distortion are also slightly inferior via the multiplay section, leaving the fixed drive to achieve a good mix of very low THD (0.002 per cent, falling to 0.0007 per

cent at -10dBFs), an adequate 97dB S/N ratio, very flat response and excellent lowlevel linearity. Good rejection of ultrasonic noise and digital 'images' are also trademarks of JVC CD players, and the XL-R5000 is no exception.

### **HOW IT COMPARES**

ow distortion and good low-level resolution with a 16-bit noise performance by the skin of its teeth. Double-speed performance is poor, however.



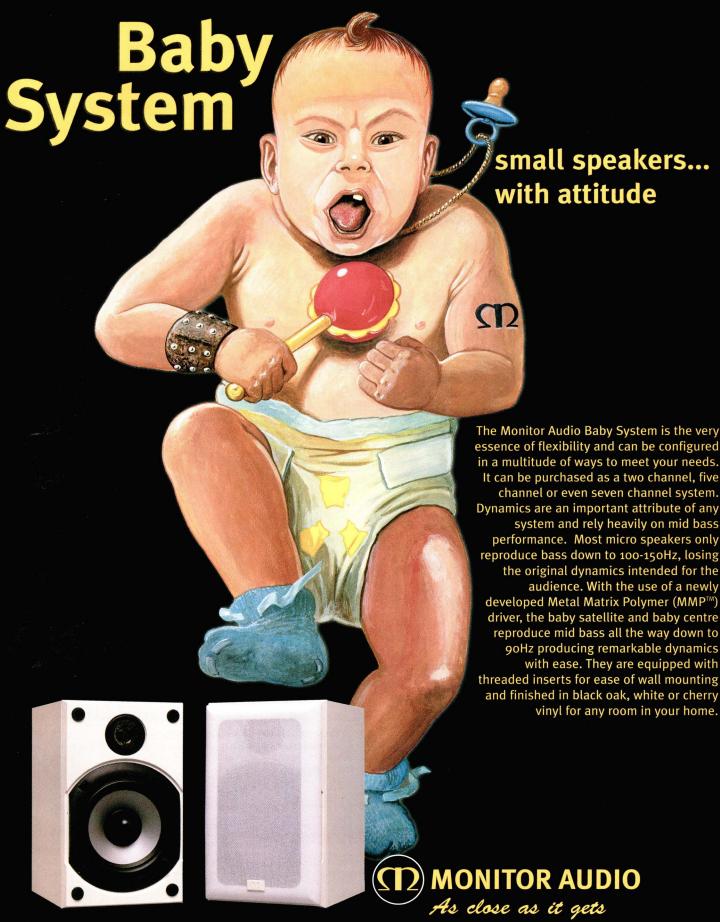


### SPECIFICATIONS

SPECIFICATION	CLAIMED	MEASURED	
■ Distortion @ 1kHz/0dBFs	0.004%	0.002%	
■ Maximum output level	2V	2.07V	
■ A-wtd S/N ratio	97dB	96.6dB	

ping to just 450psec which, though not

### the new Monitor Audio



34 Clifton Road, Cambridge CB1 7EB England. tel: 01223 242898 fax: 01223 214532 email: info@monitoraudio.co.uk Web: www.monitoraudio.co.uk

## **LG** ADR-620



twin deck unit, the LG (née Lucky Goldstar) has twin mechanisms, one a CD-R/RW recorder, and the other a playback unit, each with its own electrical digital output. The ADR-620 looks and behaves like a latter day simulacrum of a dual cassette deck, and it is easy to load up a CD in one mechanism, a CD-R or RW in the other, hit 'CD sync' and leave it to go about its business - but there are other possibilities. For example, the recorder can be used to dub complete finalised CD-Rs (subject to SCMS copy management restrictions) at normal, 2x or even 4x normal play speed.

One peculiarity with this model is that the two mechanisms can be used independently. There are two sets of outputs, which can be used to play from either mechanism or both. sequentially if two discs are inserted. Alternatively, press the Dual button, and each disc will play through its own output, which has obvious applications in a multi-room set-up. The controls on the remote handset are shared, and must be assigned by selecting CDP or CDR first.

### "A player described by the panel as 'strange', 'weird', and 'annoying'."

A full set of optical and digital outputs is available on the back panel, but it also includes a front panel electrical input for easy access from a portable, which avoids rooting through the spaghetti at the back.

The build quality of the model is less impressive. The LG looks businesslike, but control feel is poor, which is reflected in the noisy drawer mechanism, and the remote control buttons are of varying and excessive stiffness.

### SOUND QUALITY

There was some spread in the scoring of this model, but this was no surprise for a player described independently by different members of the panel as 'strange', 'weird', and in one case 'annoying'. The substantive comments spoke in terms of a 'billowy' bass (the Ravel especially, but not exclusively), and there were several unusual observations, such as one of a 'lack of upper

midband presence', though there was no shortage of upper frequency detail. Two listeners independently described the LG as tonally 'cool'.

Since the panel was listening to a self-made recording from an external CD source, and replayed on the LG's own CD-R mechanism, this is only part of the story. One of the first points noted in the hands-on testing was that the two mechanisms sounded different. The clock error identified by PM is not always directly audible as a pitch change, but there are other more subliminal effects, and the record mechanism sounded clearer and more threedimensional. On the plus side, there was very little difference in sound quality between recordings made at normal, twice or even four times speed, but there is a qualification here in that none of them sounded great. The electronics have a distinctive transistor radio-like tinge, which is probably the cause of the panel's

unease, and recordings made on the LG sounded significantly better when played on other CD players.

#### CONCLUSION

An interesting unit, this twin-mechanism player is rather costly for the musical performance on offer, though it is sold through major chains rather than specialist dealers, and the price quoted may drift quite quickly. There are also some interesting features – high-speed dubbing and the ability to play different discs in different rooms.



### THE LAB REPORT

ood quality 96kHz-compatible hybrid DACs are used here and this is reflected in the ADR-620's very low distortion, flat response, good de-empha-

sis accuracy, excellent low-level resolution and wide 102dB A-wtd S/N ratio. Some peak-level stress is suggested by a mild increase in THD from 0.001 to 0.002 per cent (-30dBFs to 0dBFs at 1kHz) and from 0.005 to 0.035

per cent (-30dBFs to 0dBFs at 20kHz), but this is related to the op-amp's rather than the recorder's digital 'core'. Good circuit layout is reflected in the wide separation figures of >110dB and >80dB at 1kHz and 20kHz, respectively.

Unfortunately, the replay-only drive is compromised by very poor clock selection and shows a 1135ppm error with 1370psec of widely-distributed jitter. The

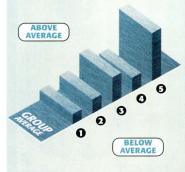
> CDR/RW drive's clock improves to 370ppm but iitter increases to 1440psec, a figure that remains consistent with 1x internal dubs from CD to CD-RW and only increases slightly to 1560psec for x2 and x4 dubbing.

Frankly, you might as well opt directly for the x4 mode as the 'damage' done by 1560psec of jitter will be indistinguishable from 1440psec. The ADR-620's internal SRC only kicks in when incoming rates other than CD's 44.1kHz are detected.

### **HOW IT COMPARES**

choice digital chipset yields low Adistortion, noise and excellent linearity, but poor clock selection spoils the brew.





#### **SPECIFICATIONS SPECIFICATION** CLAIMED **MEASURED** ■ Distortion @ 1kHz/0dBFs 0.01% 0.002% ■ Maximum output level 2V 1.95V ■ A-wtd S/N ratio 105dB 102.4dB

### **MARANTZ** DR-17



he parallel between this and the Sony MDS-JA55ES, by far the best engineered and most sophisticated of the MD recorders on test, is clear. The Marantz weighs more and is much better endowed, inside as well as out, than any of the other CD-R decks. Indeed the DR-17 is intended to be the best possible CD player consistent with budget and Marantz's normal design priorities, but it also happens to be able to make CD-R and CD-RW recordings. Only the discreet addition of a record level control and some apparently minor associated switching distinguishes it from their more upmarket CD players.

Back panel fittings are comprehensive, with good quality socketry used throughout. The DR-17 has digital optical and electrical in and outputs, and using the familiar D-Bus links it can be linked to other Marantz components or systems and controlled from a single handset, which allows for automatic recording starts with Marantz CD players.

Internally the DR-17 features many of the technologies associated with the brand, including a symmetric lavout of the audio circuits following the

### "A distinctly superior digital recorder and CD player alike."

D/A converter. This is Philips-sourced (of course), and includes a Bitstream ADC and the venerable differential mode 1547 DAC7 DAC, and a high slew rate HDAM output stage. The mechanism (CDM36) is die-cast and quick acting, and the 'finalise' function that prepares discs for replay on CD players is particularly quick acting

On the recording side, the usual sample rate converter that allows recording from non-44.1kHz sources is bypassed when it is not required. This avoids the inevitable translation errors (essentially noise and distortion) that can arise with some recorders where all signals are fed through the converter, whether necessary or not. When the SRC circuit is off, HDCD data is preserved through the record chain, and in contrast to the other recorders in this month's group, an HDCD decoder is included for appropriately encoded recordings.

### SOUND QUALITY

A clearly superior machine on test. the DR-17 lacks the smooth but

rather blowsy bass that characterises a number of their CD players, but it has the familiar vitality and resolution in the midband, which extends also into the treble, though it sometimes stepped over the line and veered towards sounding aggressive.

'I really like this one,' was one quite typical comment from the panel. 'Everything sounds more closely miked than (the last player), and a wealth of detail shines through' – a reference in this case to the excellent Ravel recording. Another described the Marantz as 'a tad upfront, but nonetheless enjoyable' in his concluding notes, while explicitly pointing to the 'strong vocal presence' in the Lorna Hunt, and the 'sense of space' in the Ravel. Like others, though, he also highlighted some edginess on the orchestral strings, which didn't go unnoticed by the rest of the panel either.

Once again, there appears to be a relationship between playback jitter identified by the lab tests and a degree of hardness and grain, but

although recordings could be clearly improved by replay through better external CD players like the test Krell, this remains an excellent sounding player in all modes. It has a much more polished and subtle sound quality, a more potent bass and more three dimensional imagery than was achieved elsewhere in this group.

### CONCLUSION

The relatively high jitter takes some toll on performance, but this remains a distinctly superior recorder and CD player alike, which swings the decision its way for Recommendation.

VE	RDICT
SOUND	00000
BUILD	00000
VALUE	00000
PRICE	£1,499.99
Recommended	but we think that the

jitter problem should be resolved, which would probably improve sound quality significantly.

### **■ TWO YEAR GUARANTEE**

Marantz Hi-Fi LIK Ltd. Kingsbridge House Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 0EH.

**2** (01753) 680868

### THE LAB REPORT

suspect the naming of the DR-17 was not entirely arbitrary, for though its CD-R/RW drive is bang up to the minute Philips stock, Marantz's choice of DAC (if not filter tech-

nology) owes more than a nod to the older CD-17 CD player (see HFC 155). Hence we find the rather unusual combination of Pacific Microsonics' PMD100 **HDCD** digital filter (in place of NPC's SM5841) with Philips' venerable SAA7350 and

TDA1547 chipset which, lest we forget, is the old DAC7 Bit Stream combination. Marantz's HDAM buffer stage drives the

analogue output to 2.2V while the very low distortion of the DAC7 (typically 0.001-0.007 per cent 20Hz-20kHz), good resolution (errors of +0.0/-0.5dB over a 100dB range) and excellent 105dB stopband rejection go to show that modern '24-bit' DACs offer little practical advantage.

> The 99dB S/N ratio is below average, but it's well within CD's 16-bit specification. This leaves the player's inherent ~ 1000psec of low-rate noise-like jitter to spoil the party, and it is particularly disappointing

as CD-R/RW recordings made on the DR-17 suffer little or no additional jitter. It's only during replay on the DR-17 that the jitter arises, suggesting the full quality of your CD-R/RW recordings will only be realised when played back in a low-jitter machine. PMi

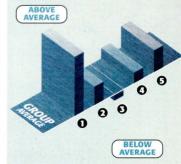
### **HOW IT COMPARES**

Record quality is excellent but, despite being based on proven DAC7 Bit Stream technology, it's the replay chain that lets the side down.



PARAMETER

■ A-wtd S/N ratio



#### **SPECIFICATIONS** MANUFACTR'S SPEC. **ACTUAL SPEC.** ■ Distortion @ 1kHz/0dBFs 0.003% 0 001% ■ Maximum output level **2V** 2.2V 105dB 99.1dB



### WE SELL THE FINEST PRODUCTS

and we bring you the benefits and security of buying from a larger dealer, vet each of our stores is run as an individual specialist shop. We are enthusiastic and friendly, with the knowledge and experience

to satisfy your expectations.



**BOW Technologies** was founded in 1994 by Bo Christensen and since its inception has pursued the holy grail of combining wonderful aesthetics and

good sound quality. BOW Technologies is a master of the art. It's electronics have won many awards around the world and much praise for their stunning looks and superb engineering.

The range consists of the ZZ Reference Series and newly introduced W Series.

Available at OXFORD, WEST HAMPSTEAD, HIGH WYCOMBE, EPSOM

Wilson Benesch has, in less than ten years, earned a world wide reputation for producing innovative, elegantly designed audio equipment. From turntables to

tone-arms and in 1995 - the A.C.T. One - the World's first curved floor-standing loudspeaker. With its multi alloy baffles and advanced carbon fibre composite structures, it remains as contemporary and successful today as it was five years ago.

Available at BRENTWOOD, BRISTOL, CARDIFF, EPSOM, READING, SOUTHAMPTON, SWINDON, WEST HAMPSTEAD





### • CHORD •

**Chord Electronics** has become synonymous with outstanding performance. The company's range of products fulfils every stereo or multi-channel system requirement. Continual dedication to research and innovation, combined with excellence of build and sterling reliability have been rewarded by

continued growth. Chord users include many of the most demanding customers in the audio world, both from professional and high-end customer domains.

Available at BASINGSTOKE, BRENTWOOD, BRISTOL, CARDIFF, CHELTENHAM, EPSOM, EXETER, READING, SOUTHAMPTON, SWANSEA, SWINDON, WEST HAMPSTEAD

- 53 YEARS JOINT EXPERIENCE
   3 YEAR GUARANTEE ON HI-FI SEPARATES
- FULL DEMONSTRATION FACILITIES PRICE PROMISE 10 DAY EXCHANGES
- 30 DAY NO COST PENALTY UPGRADES

  PART EXCHANGES
- INTEREST FREE OPTION Subject to status. Written details on request
- HOME LOANS AND HOME DEMONSTRATIONS
- EVENING DEMONSTRATIONS BY APPOINTMENT

**BASINGSTOKE** 4 Feathers Lane 01256 324311

**BRENTWOOD** 30 Crown Street 01277 264730 Open late Thursday

**BRISTOL** 65 Park Street 0117 926 4975 Open late Thursday

CARDIFF 134/136 Crwys Road 029 2022 8565 Open late Thursday

CHELTENHAM 40/42 Albion Street

01242 583960

**EPSOM** 15 Upper High Street 01372 748888 Open late Thursday

**EXETER** 156 Sidwell Street 01392 491194

### **HIGH WYCOMBE**

30-32 Castle Street 01494 558585 Open late Thursday

LONDON: W. HAMPSTEAD

190 West End Lane 020 7794 7848 Open late Thursday

**OXFORD** 19 Old High Street Headington 01865 765961 Open late Thursday

**READING** 4 Queens Walk **Broad Street Mall** 0118 958 5463

### **SOUTHAMPTON**

2-12 Hursley Road Chandlers Ford 023 8025 2827 Open late Thursday

**SWINDON** 60 Fleet Street 01793 538222 Open late Thursday

**SWANSEA** 9 High Street 01792 474608

All shops are closed on Mondays



### **FREEPHONE** 0500 101501

(quoting CHE1) and ask for a FREE copy of our MUSIC AT HOME Guide





For the very latest information please check our web sites: www.audio-t.co.uk www.audio-excellence.co.uk

## PHILIPS CDR951



he CDR951 may look pedestrian, but a lot of new thinking has gone into this new model, which has resolved some well recognised shortcomings of its predecessor (one example being the inability to prevent gaps being inserted between tracks, which resulted in some well known recordings being reinvented in ways that were not to everyone's liking). The technical specifications have also been significantly enhanced over previous models.

A key thrust of the new player is the way that ease of use has been enhanced thanks to some much needed feedback in the display area which provide clear guidance through key operating procedures. There are also some thoughtful touches such as the ability to rename inputs to correspond to the particular composition of your system. The guid guo pro here is that the layout of the controls on the front panel looks scrappy, and is put in the shade by the Pioneer models, or (at a much higher price, admittedly) by the Marantz DR-17.

The record level and channel balance can be adjusted when recording digitally, and fades applied.

### "A lot of new thinking has gone into this top of the range model."

The recorder will also act as an A/D processor, converting analogue into a 44.1kHz CD-compatible datastream for use with external equipment even if no recording is being made. Philips has also been generous with rear panel socketry. The CDR951 will accommodate any combination of optical and electrical digital leads. with two electrical digital inputs instead of the usual one, allowing as many as three digital sources to be connected. This is in addition to analogue line and microphone level inputs, the latter though a single 6.3mm stereo jack socket, with the ability to mix different inputs.

HDCD recordings can be dubbed, retaining the HDCD data in the LSB, but there is no onboard HDCD decoder, and no means of dubbing CD Text from encoded discs, though titles can be input manually.

#### SOUND QUALITY

There were consistent if mild complaints throughout the blind

panel tests of a 'tinselly' and sometimes plain 'aggressive' treble, and in the Mozart, for example, of unwanted 'resonance' or 'coloration' in the woodwind. Every panel member made similar reference to this in one form or another, but these complaints were more than outweighed by praise for the 'good bass definition' of the Lorna Hunt track, the 'credible' piano sound of the Ravel, and the 'strong attacking drums' in the Keb' Mo'. 'It's spot on, and easy to follow,' was one of the final comments, and 'musical and exciting' was another.

There is no gainsaying the occasionally strident balance of this model when used as a player, but equally there was no gainsaying its overall superiority among the less expensive CD-R/RW recorders. The CDR951 sounds more lively and engaged, and in the end this makes it more persuasive. The strong but not in any sense overblown bass, and excellent soundstaging play a key role here, offset only slightly by a slightly

cluttered feel in the mid/high frequency area. Recordings retained the qualities of the original discs from which they were made when played back through the Philips, and sounded very close even through the more analytical Krell test player.

### CONCLUSION

There is no magic here, just some diligent design work which has produced a flexible and relatively easy to use recorder that unlike some of the direct competition is also a decent player in its own right. Best Buy.



### THE LAB REPORT

While many other recorders in this test are compromised by high-ish levels of iitter, Philips has seemingly learned from past experience (see the CDR-870, HFC 174) and tackled this key area very firmly.

Hence, recordings made onto CD-R typically have a (replayed) jitter level of ~220psec while those on CD-RW are actually fractionally lower at ~200psec. These are the sort of figures normally associated with the very best CD

players, let alone an affordable recorder. Ironically, it's in the conventional CD chain that Philips' foibles emerge. Rather than use all its own parts, Philips' CDR951 is equipped with Analog Devices' AD 1877 and AD1855 (16-bit ADC and 24-bit DAC, respectively). The latter has errors in lowlevel resolution approaching 1dB at -90dBFs but typically low (~0.0012 per cent) distortion at its peak 2.05V output. This

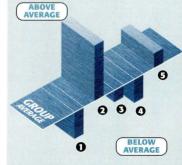
> sample did show a slight inconsistency between right and left channels, however, with THD at 0.006 and 0.003 per centat -30dBFs and the S/N ratio at 96.4dB and 100dB, respectively. Ultrasonic noise is generally well

maintained but the integral digital filter is not wholly effective, so digital 'images' are suppressed by just 38dB. Finally, the record/playback level display is uncalibrated, and so next to useless.

### **HOW IT COMPARES**

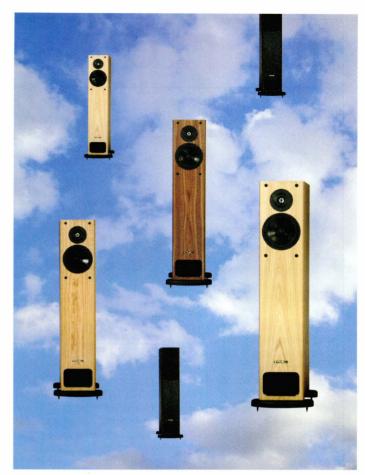
Painful lessons in the past ensure that this recorder produces very faithful digital copies. CD playback performance is less spectacular.





SPECIFICATIONS				
MANUFACTR'S SPEC.	ACTUAL SPEC.			
0.0017%	0.0012%			
2V	2.05V			
115dB	98dB			
	MANUFACTR'S SPEC. 0.0017% 2V			





£1275.00

FB1 Loudspeaker





01707 393002 www.bryston.ca/pmc sales@promonitor.co.uk

### Dealer

Ashford (Kent) Birmingham Bournemouth Brighton Bristol Cheltenham Chelmsford Chester Dunstable East Grinstead Glasgov Enfield Epsom Guildford Hitchin High Wycombe Ipswich Kingston Lakeside Leeds Leicester London (W1) London (NW) London (SE) London (SW) London (SW) London (SW) London (W) Margate Milton Keynes Nottingham Norwich Oxford Rayleigh Sheffield Southampto Southend St Albans Swansea Taunton Worthing

Yeovil

Soundcraft HiFi 01233 624441 Griffin Audio 0121 622 2230 Suttons HiFi 01202 555512 01273 775978 The Powerplant Radfords 0117 944 1010 01242 583960 Audio T Rayleigh HiFi 01245 265245 Audio Excellence 01244 345576 Technosound 01582 663297 Audio Designs 01342 314569 Stereo Stereo 0141 248 4079 Audio I 020 8367 3132 Audio T 01372 748888 PJ HiFi 01483 504801 David Orton 01462 452248 The Audio Room 01482 891375 Audio T 01494 558585 Signals 01473 622866 020 8943 3530 01708 680551 0113 278 6919 Rayleigh HiFi Image Audio Leicester HiFi The Cornflake Shop 020 7631 0472 020 7794 7848 Audio T Billy Vee 020 8318 5755 Auditorium 020 7384 3030 Oranges & Lemons 020 7924 2040 020 7819 1700 Thomas Heinitz 020 7229 2077 01843 220092 LMD Audio 01908 604949 Technosound Nottingham HiFI 0115 924 8320 01508 570829 Basically Sound Audio T Rayleigh HiFi 01268 779762 0114 275 6048 Moorgate Acoustics 023 8025 2827 Rayleigh HiFi 01702 435255 01727 855577 Radlett Audio 01792 474608 Mike Manning 01823 326688 01903 245577 Phase 3 Seven Oaks HiFi Mike Manning 01935 479361

### **PIONEER PDR-509**



he PDR-509 is Pioneer's single-disc CD-R recorder. It is a lightly built machine, quite button bound, but with attractive and well weighted controls and a selection of verbose control labels where unintelligible mnemonics are more usual. As a result it probably won't be necessary to do more than skim the instructions, and the absence of Philips CDR951-style prompting by the display is not much of a handicap in practice.

The capabilities of this unit are broadly standard for its type, and there are relatively few unusual extras - or omissions. The usual sample rate converter is included of course, and as in most of the better units it can be bypassed when recording from 44.1kHz sources (CDs or MiniDiscs). In this mode, HDCD coding is preserved, and so is the digital data on d HDCD-encoded audio CDs, though the PDR-509 doesn't have its own HDCD decoder. A full set of optical and electrical digital socketry is available, along with an SR (proprietary) control socket which can be patched through to a compliant Pioneer

# "Capable of making copies that are within spitting distance of the original."

system for operation by a single unified remote control handset.

It is also worth noting that this is one of a number of CD-Rs that allow digital record levels to be adjusted, which can be used to normalise the volume level with different recordings. There is a risk of distortion of the inputs if overloaded and, at the other extreme, resolution will drop and noise accumulate if the level is set too low. A fade in/out feature completes the record capabilities.

### SOUND QUALITY

The panel was unanimous that the Pioneer is a decent, middle of the road recorder, capable of making CD copies that are within spitting distance of the original discs, but with a hint of safeness in its delivery. This one sounds a bit lazy and far,' wrote one. 'It doesn't have the resolution of the original [referring to the CD playthrough of the source compact discs], and it doesn't excite'. Another

described it as 'inoffensive' and 'non-challenging', though he praised the quality of the cymbals in the Keb' Mo', and the detail in the Ravel.

There was a noticeable difference in the quality of CD-R replay from the Pioneer and from other CD players, the advantage resting with the latter. The Pioneer replay electronics (the digital filter perhaps?) appear to impose some loss of presence and detail, which may explain the nature of the comments from the panel, and indeed the hands-on tests. This quality is not inherent in the recordings, which played back through the Krell test player with verve and distinction, sounding very similar though not identical to the original CDs. Used on lesser CD players, the CD-R even appeared to deliver an advantage over the original, perhaps because the pre-formed wobble groove on the CD-R gives the player servo an easier time. In any case, what losses are imposed are subtractive in nature, and the character of the original is hardly affected.

### CONCLUSION

The disadvantages of this model are that the loader is graunchy and asthmatic, although it functions satisfactorily, and that its replay electronics sound a tad lazy and soft. But to its credit, the Pioneer is capable of making excellent recordings, and given that the user will already have a CD player that can be used for replay, this model can be welcomed with open arms. Recommended.

### 

The straightforward design is easy to use, and it makes excellent recordings that are slightly dulled by the replay chain.

#### ■ ONE YEAR GUARANTEE

☑ Pioneer High Fidelity (GB) Ltd, Pioneer House, Hollybush Hill, Stoke Poges, Slough Berks SL2 4QP.

**2** (01753) 789789

### THE LAB REPORT

n common with Pioneer's CD players, this CD-R/RW also features a Legato Link digital filter (see *Oasis*, *HFC* 188, 189 and 203). Its gentle roll-off produces a -2.3dB droop at 20kHz and a minimal 6dB sup-

pression of digital images immediately outside of the audioband, but the 'rippling' effect of the filter is far less violent than occurs with conventional, high-order types. This ensures the player has a characteristic sound but, importantly, because the Legato Link filter is only invoked through the playback chain, it's not one

that's transferred by digitally recording.

Crucially, recordings suffer little or no extra digital jitter (~210psec, which is com-

parable with a very good CD player) while the A-wtd S/N ratio is a very respectable 102dB. Distortion is very low at ~0.0015 per cent from 20Hz to 1kHz at peak output but

increases to 0.03 per cent at

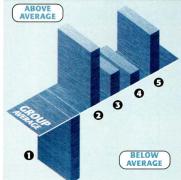
20kHz. This is not 'high' but, along with the Pioneer PDR-W739, is the highest of the (CD) group. Distortion at low signal levels is well maintained, however, while the errors in low-level resolution of just +0.0/-0.4dB over

a 100dB rangeare certainly better thanaverage. The stereo separation of just 75dB at 20kHz is a little weak (compared with the CDR951 at>100dB) but, otherwise, the PDR-509 remains a solid piece of kit.

### **HOW IT COMPARES**

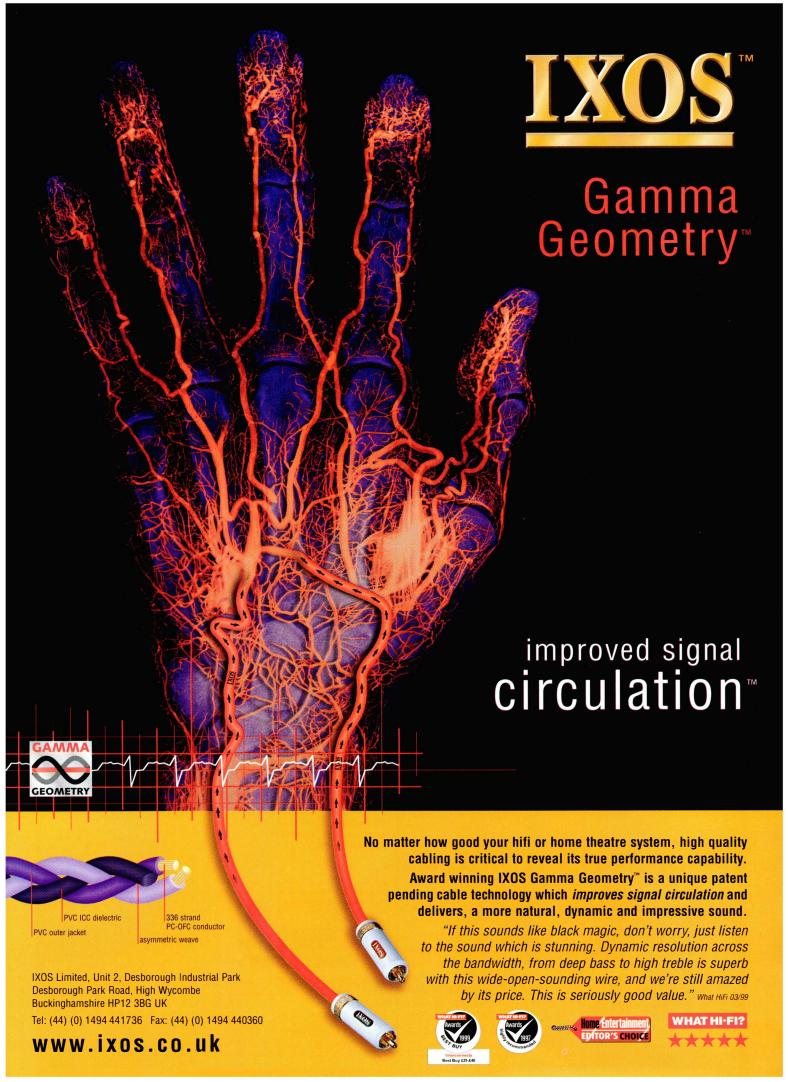
Pioneer's Legato filter influences the playback performance only, while very low levels of jitter ensure that recordings sound as close to the original as possible.





### SPECIFICATIONS MANUFACTR'S SPEC.

ARAMETER	MANUFACTR'S SPEC.	ACTUAL SPEC.	
Distortion @ 1kHz/0dBFs	0.0017%	0.001%	
■ Maximum output level	2V	2.2V	
■ A-wtd S/N ratio	112dB	102.1dB	



## **PIONEER** PDR-W739



he PDR-W739 is comparable to the JVC XL-R5000 in that it is equipped with a CD-R/RW recording mechanism and a threedisc play-only deck. But whereas JVC opts for three separate single disc mechanisms, the Pioneer employs a single drawer which will accept up to three discs, manipulated by complex internal clockwork consisting of a series of winches, pulleys, a couple of wings and a prayer. We admit to some unease about the integrity of the replay mechanisms, which appear to be rather flaky.

The excellent control layout of the JVC model has been broadly followed here, but the extra functionality makes it a little harder to get to grips with. That said, better than average (if verbose) instructions and a quick setup guide help, and there is little here that will cause confusion for long. The feature set parallels the PDR-509 readers are referred to the review in this issue - but includes the ability to record complete discs at double speed, and to record a selection of tracks programmed from one, two or three discs.

## "An excellent solution for those who want a self-contained recorder that can dub CDs."

## SOUND QUALITY

In the sighted listening tests, this model was all but indistinguishable from the single-disc Pioneer PDR-509 when recording from the same external CD player, and when the discs were replayed on the same player (that is, not the Pioneer). This is the true measure of the PDR-W739 as a recorder, and shows that it is capable of making excellent recordings which are more or less on a par with the best of the group. The Pioneer has limitations, but they lie elsewhere. The basic replay quality of the player is quite similar to the PDR-509, but ultimately a little sharper and more precise. The panel even found replay quality a tad thin. 'Woodwind quality is different to the others,' said one in a slightly disapproving tone, commenting on the Ravel, but he was more favourably disposed to Lorna Hunt's voice, the strong piano sound in the Ravel, and the drum

sound in the Keb' Mo'. Others pointed towards a slightly overblown quality in what appears to be a variation on the theme that the PDR-509 sounds slightly too smooth and dull.

The PDR-W739 can sound dynamically challenged at times, but it is a smooth performer with retains the essence of the musical argument, especially when recordings are replayed using quality external players. The multi-disc replay mechanism doesn't sound quite as good as a source or for replay, generally sounding flatter spatially and lacking in ambience and stereo focus, findings often associated with the presence of jitter. The best quality recordings will be those made with a good outboard player through a digital input. The internal mechanism still makes good quality recordings, however, which sound virtually identical whether recorded at normal or double speed. In this respect at least comparisons

with double cassette decks should not be stretched too far

#### CONCLUSION

This model is an excellent solution for those who want a self-contained recorder that can dub CDs with little fuss. There are some quibbles over quality, but recordings sound excellent, especially when recording from an external CD player, and they're more than impressive even when using the internal replay mechanism.



#### THE LAB REPORT

s this multi-disc recorder shares the Asame basic Legato Link filter technology as Pioneer's single-deck PDR-509 recorder, my previous comments regarding its playback performance also hold

true here. Comparing the performance of the two is instructive, however, as the PDR-W739 does trade a little in ultimate quality for the ease of multi-disc operation. Its output level is some -0.05V lower than the PDR-

509 and distortion just fractionally worse at all frequencies and levels, 0.003 versus 0.0016 per cent at 20Hz and 0.04 versus 0.03 per cent at 20kHz, respectively, for example.

Copies on CD-R media replayed through the PDR-W739 have some 280psec of

jitter, those from CD-RW a little less at 260psec, much of it related to the shared power supply. Neither figure, I'm bound to say, is especially debilitating. The final 102dB S/N ratio is very good,

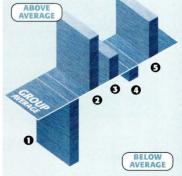
> though lower than Pioneer's own figure which is determined under idealised but less realistic conditions (as is that for the PDR-509). The presence of spurious idle patterns

(low-level tones and whistles) is very well suppressed in both players, incidentally, to the tune of 120dB or more. The common digital hierarchy also ensures the PDR-W739 enjoys the same excellent lowlevel resolution as the PDR-509.

## **HOW IT COMPARES**

**■**ery small increases in digital jitter and harmonic distortion are worthwhile trade-offs for the extra flexibility afforded by this multi-disc recorder.





	ECIFICATIONS	
PARAMETER	MANUFACTR'S SPEC.	ACTUAL SPEC
■ Distortion @ 1kHz/0dBFs	0.003%	0.0016%
■ Maximum output level	2V	2.15V
■ A-wtd S/N ratio	105dB	102dB

# Wooden't it be lovely

...if all your hifi looked this good



# ...or was such great value



Pro-ject Debut From around £110

Superb record playing systems from

Henley Designs
The Old Coach House, The Street, Crowmarsh Gifford

The Old Coach House, The Street, Crowmarsh Gifford Wallingford, Oxfordshire, OX10 8EH. Tel: 01491 834700 Fax: 01491 834722 WWW.henleydesigns.co.uk



## **TEAC** RW-800



relatively shallow but crowded fascia that includes extras like a set of microphone inputs with associated level controls puts this model in a powerful position as an uncomplicated way of making live recordings in the home or home studio. The microphone input is automatically mixed with any signal present on the line input, along with an attenuated version of any digital feed. In standard record mode, digital recordings cause the analogue inputs to be muted to avoid adding noise unnecessarily to recordings. Adding to the Teac's home studio credentials, a 'rehearsal' feature allows the start point for synchronised recordings and for automatic track division to be set precisely. A fade in/out feature can be used to package individual tracks, and it is also possible to adjust the record level from digital sources as a means of levelling the track by track volume on compilation discs. The extra circuitry, all of which takes a hit on sound quality, can be bypassed by selecting 'digital direct', which also bypasses the sample rate converter for non-44.1kHz sources.

## "Not bad, but some niggling faults preclude a formal Recommendation."

A clock and timer are available for unattended operation, typically from radio. There are no system link connections, but the RW-800 will respond to digital datastreams, releasing 'pause' from 'sync rec' mode when the external source starts.

#### SOUND QUALITY

For the most part, the Teac does a pretty good job, but with some caveats. 'I enjoyed this one through the whole programme,' one of the panel commented. 'Timing is good; Keb Mo's vocal is realistic, and the bass is powerful and effective. Another made similar comments, pointing to 'enjoyable' sounding CD-R dubs, and agreeing that the bass was one of the Teac's stronger points, but he did identify some 'coarseness' in the treble, and this set the tone for the final panel member whose remarks pointed to the generally 'sonorous' and 'lifelike' quality of the recorder, again highlighting a less than excellent treble, and also identifying a lack of dynamics, especially in the Mozart and the Keb' Mo' excerpts.

A degree of harshness and loss of fine detail was identified in the hands-on testing with compact discs and CD-R copies alike, though there was no lack of treble presence. Just the opposite in fact, and the whole effect could be rather strident when auditioned with closely miked rock. for example, which was under-represented in the panel test sessions.

The Teac RW-800 was one of several players to make recordings that sounded virtually identical to the original disc from which they were ripped, but where the discs performed significantly better when replayed on other players. Some difference is expected of course when the comparison is with a big hairy model such as the one used for testing, but the character and degree of the difference was consistent with the jitter identified in the lab test and so was the bright, fierce quality of some early Denon recordings that were made with pre-emphasis and that were therefore not being replayed correctly due to the lack of a de-emphasis network.

#### CONCLUSION

Not bad then, but there are some niggling faults that preclude a formal Recommendation. Most notable of these was a rather steely edge to the sound, which was widely, though not universally identified by the panel, and the (accidental?) omission of a de-emphasis network, which is significant for those with collections of discs dating back more than, say, a decade.



## THE LAB REPORT

EAC's mechanism uses a Sony-based optical read/writepick-upwith, I'd guess from the quick track access, Sony servos and decoder. Otherwise its performance is rather mixed. On the positive side, distortion at - 10dBFs ranks the lowest (along with JVC's CDR) at 0.0006 per cent but climbs very slightly to 0.002 per cent at its 1.8V peak output (re. 1kHz) and to 0.012 per cent at 20kHz. The A-wtd S/N ratio is below average at 97.5dB but still within the 16-

bit specification, though errors in low-level

resolution are very minor indeed at just

+0.3dB/-0.4dB over a full 100dB dynamic

range. Oddly, Teac has forgotten to flag-up

the player's de-emphasis network, so pre-

emphasised discs suffer a +9dB treble boost while standard CDs are as flat as a pancake. Replay jitter is pretty high at ~750psec and is dominated by unpleasant datainduced phenomena from, I

presume, Teac's self-styled 'Converter PCB'. Jitter is unaffected by choice of CD-R or CD-RW media or. indeed, whether the sample rate converter is switched in or out ('Digital Direct' OFF and ON respectively).

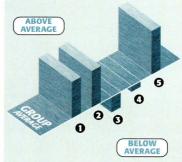
This is great news from the encode point of view because discs produced on the RW-800 are of excellent quality. Only, you won't fully realise that quality by playing your work back on the RW-800...

## **HOW IT COMPARES**

**2** (01923) 819630

ecord quality is excellent but the Rmachine's potential is compromised by jitter etc. and incorrect de-emphasis in the replay chain.





SPI	ECIFICATIONS	
ARAMETER	MANUFACTR'S SPEC.	ACTUAL SPEC.
Distortion @ 1kHz/0dBFs	<0.004%	0.002%
Maximum output level	2V	1.85V
A-wtd S/N ratio	>97dB	97.5dB



# A3 RANGE. MACHINED, MIL-SPEC ALUMINIUM FRONT PANEL.

TWENTY-FOUR CARAT GOLD PLATED FITTINGS.

REMOTE CONTROLLED.

PHONO STAGE.

POWERFUL, ROBUST, BUILT.



ere is a more or less straight MiniDisc recorder, with a broadly standard set of features, with one key exception which we'll come to later. The player is neatly designed, with a clear, uncluttered fascia. Two optical inputs are provided, selectable on the front panel, but there is no electrical option - this may not matter in JVC systems, but it will be important in some others. On a more positive note, proprietary Compu-Link connections mean that complete JVC branded systems can be used with a single controller, often allowing single key operation of multi-step operations (for example selecting the appropriate input on a partnering amplifier when 'play' is selected). Additional Text Link connections allow text from CD Text or MD players to be displayed on the recorder's display panel, or routed to the MD recorder along with the music that is being recorded.

Standard editing features include dividing, moving, joining and deleting tracks, with auto track numbering when recording digitally, and a choice of auto and manual from analogue sources (for which the

# "One word set the tone for the panel's reaction – 'aggressive'."

cramped record level meters looks rather mean). Of course it is also possible to add disc and track titles manually, and this is where the XM-448's *pièce de résistance* is to be found in the form of a flap on the large but otherwise unremarkable looking remote control which opens to reveal an alphanumeric keypad. It's not exactly suitable for touch typing, but it has a QWERTY layout, and is light years ahead of the usual obstructive provision. On this subiect, why don't manufacturers (those who don't want to go as far as JVC) provide a computer keyboard socket?

#### SOUND QUALITY

One word was used on a number of occasions and it set the tone for the panel – 'aggressive'. The Mozart flute piece was described as having 'steely strings', and another agreed, describing the JVC as 'over enthusiastic, with a close balance' and yes, he too found the sound 'aggres-

sive'. 'It has a good stab at reproducing dynamics,' he noted in his sum-up remarks, 'but it has a mechanical quality. It sounds better than some of the other models in the test, but it has a long way to go to catch up with the (CD based) originals.

A later presentation of the JVC confirmed the basic thrust of the comments, but some of them were more emollient. 'It is quite aggressive, but because of that it is also quite detailed, which makes it quite arresting, even interesting. I could live with the model for a while,' said one. Another wrote that the JVC had a good go at reproducing dynamics, though he too pointed to a 'mechanical' quality.

Hands-on testing confirmed that the JVC was a sharper, more strident sounding recorder than most, and that the organisation of musical ideas was superior to some of the other MiniDisc recorders (but not the Sony). But although superficially sharp and clear, the loss of subtle background information was obvious, and musically the JVC was at best unengaging.

#### CONCLUSION

In one respect, the XM-448 sets a pattern that others would do well follow: JVC has provided a QWERTY keyboard which changes disc and track titling from a 'life's too short' activity to a viable proposition.

Otherwise, this is an initially bold, but ultimately rather crude sounding, recorder that fails to stand out from the crowd



the remote control is a great idea, but musically the JVC can sound rather cool and strident.

#### **■ ONE YEAR GUARANTEE**

☑ JVC UK Ltd, JVC Business Park, Priestley Way, London NW2 7BA

② (020) 8450 3282

## THE LAB REPORT

First and foremost, the XM-488 has a fundamentally lower output level than any other MD or CD player in this survey (1.1V instead of ~2V) and, though this is well within JVC's very honest specification, it does mean that the product will be at a severe disadvantage

it does mean that the product will be at a severe disadvantage in quick A/B listening demonstrations. The lower output also compromises the maximum S/N ratio that can be achieved during playback, amounting to a sub-16bit 94dB. Importantly, this does not affect the inherent S/N of digital recordings, so MDs recorded on the XM-488 will still realise a greater range when replayed on competing MD hardware.

Channel balance is excellent, though crosstalk (separation) is the worst in the test and some de-emphasis inaccuracy amounts to a +1dB boost at 20kHz on replay. Errors in low-level resolution are within +/-0.5dB at 1kHz but increase to +0/-2dB at

By CD standards, however, MD's jitter is

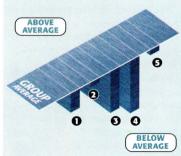
uniformly very high indeed.

20kHz where distortion also increases. THD at peak level is up with the best, however, at 0.003 per cent (1 kHz) and 0.002 per cent (20kHz). Record/replay jitter is a little higher than the other conventional (i.e. non-DRIVE) MD players at 2290psec and is purely related to MD's longest 11.6msec encode block rate.

## **HOW IT COMPARES**

Watch out in quick A/B comparisons because the XM-488 has half the output of competing machines. It's also 'noisier', but I'd be surprised if you hear any extra hiss!





SPECIFICATIONS					
PARAMETER	MANUFACTR'S SPEC.	ACTUAL SPEC.			
■ Distortion @ 1kHz/0dBFs	Not given	0.003%			
■ Maximum output level	1.1V	1.06V			
■ A-wtd S/N ratio	93dB	93.9dB			

## **KENWOOD** DMF-5020



n attractively wide, low-slung machine, the DMF-5020 is a powerfully equipped MD recorder which has all the usual functions associated with the medium. plus some extras: quick move and quick erase which help speed things up. The well implemented jog wheel aids disc navigation whether searching by track number or title, and is also used when programming titles. Using a rear panel wire link, record starts can be synchronised with the source, and pause engaged when the source ends. As usual with MD recorders, there is a headphone socket which is controlled by a volume control, but this one is a stepped attenuator that also varies the main output, which is a recipe for reducing resolution and increasing distortion if the output is not left set

The remote control is no oil painting, but there has been some attempt at grouping controls by function, and the panel graphics are particularly clear. The player is equipped with optical and digital in and outputs, in addition to the usual line level analogue connections.

## "As a serious high fidelity tool, the Kenwood fails to make the grade."

#### SOUND QUALITY

Following a CD playthrough, the panel was clearly impressed, but for all the wrong reasons. 'This is great,' as one put it. But he wasn't talking about the player. 'I hope the others are similar because it makes my job very easy. This player sounds misty, it lacks the resolution of the original [CD] and, with every music extract, timing seems to be out as well.'

The panel found the Kenwood lacking in resolution (Mozart), and in bass weight and general presence (Lorna Hunt). The Ravel track was 'recessed' and the Keb' Mo' recording 'lacks the fidelity of the original... but it's pleasantly tight', according to one. A second listener described the vocal contribution to this track as 'resolved better than the original', and although this may appear to contradict causality, ATRAC processing sometimes seems to have the effect of underlining foreground events at the expense of other background ones,

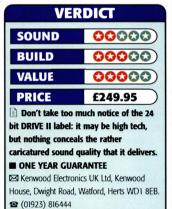
making the general thrust of complex recordings clearer while diminishing the subtleties. But there are other effects too. 'There is a certain steeliness and a loss of the integration of the original,' one said of the Mozart recording, while the female vocal in the Lorna Hunt track was written off as 'restricted and hardened'.

The hands-on listening agreed with the panel. Recordings tended to be rhythmically sound, but the hardness was confirmed, and there was an apparent loss of bandwidth at both frequency extremes. The treble lacked air and the bass too failed to breathe naturally, though these findings were not apparent with all recordings, or throughout recordings where the problems were apparent.

#### CONCLUSION

As a tool for making recordings for casual listening, the benefits of MiniDisc generally (and this certainly extends to the Kenwood) cannot be

gainsaid, but as a serious high fidelity tool, the Kenwood fails to make the grade. The A/D converters allowed the Kenwood to make pretty good recordings, but rerecorded material sounded lifeless and wooden - an all to common finding. Although well equipped (there are many secondary features not discussed here), the Kenwood simply doesn't hit the sonic G-spot. Home brewed analogue recordings sounded relatively poor, and the replay quality of digital recordings was also suspect.



### THE LAB REPORT

**S** uperficially, the DMF-5020 seems to behave itself but, under the surface, its performance is atypical. The low 0.002 per cent distortion at its 2.1V peak output level is just fine, as is the wide 102dB S/N ratio, flat response (with or without emphasis), wide 90dB+ sep-

aration from 20Hz-20kHz and tight +4.2ppm master clock selection. These basic tests indicate that it's no different from any other MD recorder, but its reaction to the jitter test suggests otherwise.

Instead of the usual 86Hz sidebands relating to MD's 11.6msec block rate, the DMF-5020 responds with a significant increase in noise (typically 20-30dB) and a series of

very high-rate sidebands. The vast total in excess of 30.000psec probably contributes to the lack of subtle detail, sharpness and loss of 'musicality' suffered by this machine. Interestingly, this only occurs while record-

ing because the DMF-5020 performs faultlessly with discs recorded on other machines.

> As these recorders are all using generic encoders, I would suggest the anomaly is caused by Kenwood's proprietary

DRIVE processor, designed to 'enhance' low-level detail in CD players. In this instance, errors in low-level resolution are greatly magnified, to the tune of +4dB/-8dB over a 100dB range.

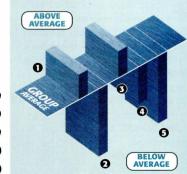
## **HOW IT COMPARES**

technically and mechanically A robust machine flawed, presumably, by the inappropriate use of DRIVE technology in the MD encode chain.



PARAMETER

■ A-wtd S/N ratio



#### SPECIFICATIONS MANUFACTR'S SPEC. **ACTUAL SPEC.** ■ Distortion @ 1kHz/0dBFs >0.007% 0.0016% ■ Maximum output level 2.1V 2V 105dB 102.4dB

## **PIONEER MJ-D508**



he MJ-D508 has been available since autumn last year, so it hardly qualifies as cutting edge in this fast moving sector of the market, but it is extremely attractively priced, and more than routinely equipped. In common with its predecessor (MJ-D707) - and in contrast to their competitors, almost all of whom source their mechanisms from Sharp or Sony - Pioneer uses home-grown mechanisms. Pioneer also uses its own variant on the ATRAC data reduction codes, the data-compression heart of MiniDisc Advanced Parameter Processing. which uses DSP to control the distribution of digital bits around the three frequency bands that ATRAC uses to code the input signal. The aim is to provide better psychoacoustic masking while retaining compatibility with standard ATRAC, Pioneer claims.

The Pioneer jumps through all the usual MD-type hoops, and in addition has an internal memory which allows late starts to recordings without truncating the beginning of the music. There are some other unusual features too, such as the

## "Although the player sounds fairly smooth, there is no slam in the bass."

ability to adjust the record level when making digital recordings (which are normally made bit-for-bit) as a means of normalising volume levels between tracks when making compilations, though this will inevitably involve translation losses and the possibility of clipping high level signals when gain is increased above nominal. It is also possible to use the internal D/A converters separately from the rest of the recorder. The MJ-D508 even includes a replay-only noise reduction circuit, a form of 'gating' circuit that reduces steady high frequency noise, though sensibly this feature is user-selectable.

## SOUND QUALITY

'It was not great for me,' was a concluding comment from one of the panel. 'The whole effect is disjointed, with a start and stop character, a loss of musical integration.' And another: 'Musical detail seems too carefully ironed out, and ultimately it all seems rather mundane. Fine detail is rounded down, and although the player sounds fairly smooth, there is no slam in the bass.' These points were developed by another panellist, who concluded that the player has a mechanical, almost clockwork-like quality, as though the musical information has been fed through a sequencer and retimed, giving a tooperfect effect that is ultimately devoid of feel. Another complaint, echoed in tests of the other MD recorders, was of a loss of background information, for example the 'missing' Hammond organ from the Keb' Mo' track.

Some of these comments may seem contradictory, but in a sense this is the nature of the beast, and most are standard criticisms of all the MiniDisc players, which were not identified separately from the CD-R recorders in the panel tests. The hands-on testing suggested that the Pioneer was bland and uninvolving, and tonally rather dull, though on the whole it was not unpleasant. As usual, the failings were reinforced when listening to pre-recorded MiniDiscs.

#### CONCLUSION

Ultimately, the MJ-D508 is bland and lossy, and evokes no real sense of occasion or insight. On the other hand its failings are not different in kind to any other MD recorder, and the Pioneer does at least have the benefit of some useful value-added features, and a sharp selling price, and for this reason is Recommended.

VE	RDICT
SOUND	00000
BUILD	00000
VALUE	00000
PRICE	£200.00
	but musically sleep-

inducing player, recommended on the grounds that you will have to pay a lot more for a materially better performer. **■ ONE YEAR GUARANTEE** 

☑ Pioneer High Fidelity (GB) Ltd, Pioneer House, Hollybush Hill, Stoke Poges, Slough Berks \$12.40P **2** (01753) 789789

## THE LAB REPORT

Ithough the recorded MD response is a higher-than-average channel balance Anotionally flat, replaying through the MJ-D508 means the signal travels through Pioneer's Legato Link filter which imposes a 2dB droop at 20kHz and releases additional out-of-band energy in

the form of digital 'images' (see Pioneer CD-R recorders, this issue). Otherwise the D508's performance is very conventional with a 2.1V output level (Pioneer's 0.5V rating seems to be culled from an old tape deck specification), low0.002 percent distortion at 1kHz and mild +0.0/-0.5dB errors in lowlevel linearity over a 100dB dynamic range.

As far as this sample is concerned, there's

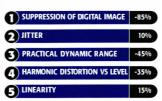
error of 0.3-0.4dB across the audioband with output and S/N higher on the left than right channel (2.14V and 96.6dB versus 2.05V and 94.6dB, respectively). The jitter spectrum is slightly 'noisier' than that obtained from the Sony

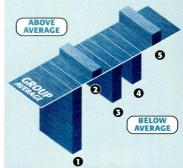
and Teac recorders, but remains far superior to the Kenwood. The 1575psec of discrete jitter is, once again, linked solely to the 11.6msec block rate used by the ATRAC

compression algorithm and seems impossible to avoid in practice. Along with the effects of data reduction and compression, I'm convinced it has much to do with the recognisable 'sound of MD'.

## **HOW IT COMPARES**

Ds recorded here will play back in other machines with a 'flat' response but will have a rolled-off treble in the D508 thanks to Legato Link filtering.





SPECIFICATIONS					
PARAMETER	MANUFACTR'S SPEC.	ACTUAL SPEC.			
■ Distortion @ 1kHz/0dBFs	Not given	0.0018%			
■ Maximum output level	0.5V	2.1V			
A-wtd S/N ratio	100dB	95dB			

# "It's a rare combination of superb sound, and terrific value" WHAT HIVE!?

## and only available from these authorised dealers...

Sevenoaks Hi-Fi 01224 587070 ACCRINGTON Oryers 01254 391440 AYLESBURY 01296 428790 BANBURY BANGOR BARNSTAPLE 01271 324384 BATH Moss of Bath 01225 465085 BECKENHAM Musical Images 0181 663 3777 BEDFORD 028 9024 9117 028 9032 1332 BIDEFORD 01237 421791 BIRMINGHAM Music Matters 0121 429 281 0121 742 0254 0121 622 2323 0121 643 1516 BLACKPOOL BI ACKROCK Sound Academy 01922 473499 01208 75579 BOLTON 01204 531423 Practical Hi-F 01204 395789 Sound & Vision BRACKNELL

BRENTWOOD 01244 345576 01277 264730 CHICHESTER Now That's ... Hi-Fi BRIGHTON 01243 537788 Hill's Sound & Vision 01273 418006 CHORLEY Richer Sounds 01257 271935 01273 673333 COLCHESTER the powerplant hi-fi 01206 573288 BRISTOL COVENTRY Audio Excellence 0117 926 4975 024 7652 5200 Superfi 0117 942 9370 024 7622 3254 Richer Sounds CREWE Cloughs A.V. 0117 974 3727 CROYDON 020 8680 1177 Peter's Hi-Fi Richer Sounds 0151 344 1874 020 8667 1100 BROMLEY Sevenoaks Hi-Fi 020 8655 1203 Hi-Fi Experience BROMSGROVE 01325 481418 Spains 01527 872460 CAMBERI EV Audio T 01276 685597 DUBLIN CAMBORNE **HM Entertainment** 01662 3332 E.T.S. Richer Sounds 01209 712344 01671 9666 CAMBRIDGE J.D. Brown 01223 304770 01382 226591 The Audio File 01223 368305 01382 229588 DUNSTABLE 01223 354237 01582 663297 **EAST TWICKENHAM** CANTERBURY Canterbury Hi-Fi 020 8892 7613 01227 765315 EDGWARE 020 8952 5535 029 2022 8565 **EDINBURGH** Hi-Fi Corne 0131 2201535 0131 556 7901 029 2046 5654 Sevenoaks Hi-F Richer Sounds CARLISLE ENEIEI D Practical Hi-Fi Audio T CASTLEFORD **EPPING** Eric Wiley Hi-Fi Chew & Osborne 01992 574242 CHELTENHAM **EPSOM** 

EXETER Audio Excellence 01392 491194 01395 272838 FALKIRK Hi-Fi Corner 01324 629011 GATESHEAD Lintone Audio 0191 477 4167 GLASGOW Glasgow Audio 0141 332 4707 James Kerr GLOUCESTER Audio Excellence 01452 300046 Sight & Sound 01452 503691 Hughes Electrical 01493 330886 **GUERNSEY** 01481 722323 Rogers Hi-Fi 01483 561049 Sevenoaks Hi-Fi 01483 536666 HARROW Harrow Audio 020 8863 0938 01424 437165 HELSTON 01326 573285 HEREFORD 01432 355081 HIGH WYCOMBE 01494 558585 The Sound Gallery 01494 531682 HORNCHURCH Rhythms Hi Fi 01708 455646 HOUNSLOW Musical Images 020 8569 5802

HULL The Audio Room 020 7580 1577 01482 896166 Sevennaks Hi-Fi 020 8567 8703 01482 587171 Superfi 020 7794 7848 01482 324051 Bartletts Hi-Fi 020 7607 2148 Brians Hi-Fi 01482 587397 020 7631 1109 **INVERNESS** The Music Station 020 7352 2596 01463 225523 020 8769 0466 **IPSWICH** Eastern Audio 020 8200 7676 01473 217217 Sevenoaks Hi-Fi 020 7226 5500 01473 286977 Hi-Fi Confidentia 020 7233 7225 KETTERING Hi-Fi Surplus Store Classic Hi-Fi 01536 310855 Kamla Electronics KIDDERMINSTER 020 7323 2747 MAY 020 8400 5555 01562 822236 M. O'Brien Hi-F KINGSTON UPON 020 8946 1528 THAMES 020 8943 3530 Myers Audio Richer Sounds 020 8549 9999 Oranges & Lemons 020 7924 2040 Sevenoaks Hi-Fi PRC Hi-Fi & Video 020 8547 0717 020 8470 3499 LANCASTER 020 7352 8496 Practical Hi-Fi 01524 39657 020 7403 120 LEEDS Richer Sounds 0113 245 5717 Richer Sounds Richer Sounds 0113 245 2775 Sevennaks Hi-F 0113 244 9075 020 8886 2777 LEICESTER 020 7722 9777 0116 262 3754 020 7352 9466 May's Hi-Fi 0116 262 5625 020 7837 7540 Richer Sounds Sounds of Music 0116 255 4656 LINCOLN Spatial Audio Superfi 01522 520265 LIVERPOOL LOSSIEMOUTH John Munro 0151 709 9898 LOWESTOFT MACCLESFIELD Peter's Hi-Fi

MANCHESTER 0161 834 6700 Practical Hi-Fi 0161 839 8869 0161 835 1156 MANSFIELD Techniques MARGATE LMD Audio 01843 220092 HARBOROUGH The Auditorium MIDDLES PROLICH Gilson Audio 01642 248793 01908 604949 NELSON 01282 612901 NEW MALDEN Grandix 020 8942 9567 B&B Hi-Fi 01635 32474 NEWCASTLE 0191 230 3600 Richer Sounds 0191 230 1392 0191 2212320 NEWPORT NEWTOWNARDS Moore's Hi-Fi noaks Hi-Fi NORTHALLERTON Maywells 01609 773535 01604 231261 Listen Inn 01604 37871 01604 624488 NORWICH 01603 622063 **Hughes Electrical** 01603 620860 Sevenoaks Hi-Fi 01625 264666

0115 958 4404 0115 962 2657 John Kirk 0115 925 2986 0115 952 2716 0115 924 1551 0115 941 2137 OXFORD 01865 765961 Oxford Audio PENZANCE 01736 64274 PERTH 01738 634809 Link Electronics 01733 553333 01733 897697 PLYMOUTH 01752 222256 Movement Audio 01202 730865 PORTSMOUTH Now That's Hi-Fi PRESTON Practical Hi-Fi Sevenoaks Hi-Fi 01772 825777 PRESTWICH Richer Sounds READING Audio T 0118 958 5463 B&B Hi-Fi Richer Sounds 01734 591111 0118 9597768 ROMFORD Richer Sounds 01708 747727 Chew & Osborne SALISBURY Salisbury Hi-Fi SEVENOAKS 01732 456573 Sevenoaks Hi-Fi

Moorgate Acou 0114 275 6048 Mike Manning Audio 01823 326688 Richer Sounds 0114 266 1616 TEWKESBURY Sight & Sound 01684 298109 Sevenoaks Hi-Fi THORNTON HEATH AWE 0114 272 3768 020 8653 3657 SHREWSBURY TRURO F.T.S. 01743 241924 01872 79809 TUNBRIDGE WELLS 01743 232317 Sevenoaks Hi-Fi 01892 531543 Superdeal 020 8309 5400 Sounds of Music SLOUGH 01892 547003 Frasers Hi-Fi UXBRIDGE Uxbridge Audio SOUTHAMPTON 01895 465444 WALLINGFORD 023 8023 1311 Astley Audio 01491 839305 WARRINGTON Doug Brady Hi-Fi Radlett Audio 01925 828009 Practical Hi-Fi ST. AUSTELL WATFORD 01923 226169 01480 471202 Richer Sounds 01923 218888 Stamford Hi Fi Sevennaks Hi-Fi STEVENAGE WEYBRIDGE Audiovision 01438 355507 Cosmic STOCKPORT WII MSI OW Richer Sounds Swift Hi-Fi 0161 480 1700 01625 526213 WITHAM 0161 429 9080 Sevenoaks Hi-Fi STOCKTON-ON-TEES 01376 501733 MSV 01642 676444 WOKING STOKE 01483 771175 Living Designs WOLVERHAMPTON 01782 260047 Superfi 01902 772901 01782 265010 Music Matters Sight & Sound 01384 444184 01905 22335 SUTTON COLDFIELD 01905 612929 0121 354 2311 WORTHING Bowers & Wilkins 0121 321 2445 01903 264141 Audio Excellence 01903 245577 01792 474608 WREXHAM Quinn's A.V. Acton Gate Audio 01792 773644 01978 364500 01792 465777 SWINDON Mike Manning Audio 01935 79361 Audio T 01793 538222 YORK Sight & Sound 01793 611253 Vickers Hi-Fi

Audio T 1994

01242 583960

Best Speaker Cable

BRADFORD



Best Interconnect Recommended Speaker Cable

Sevenoaks Hi-Fi



HUDDERSFIELD

Huddersfield Hi-F

Best Interconnect & Best Speaker





Highly Recommended Speaker Cable





# One of Life's affordable luxuries...



For further information please write, telephone, fax or e-mail to Cable Talk, Unit J, Albany Park, Camberley, Surrey GU15 2PL

Tel (UK only): FREEPHONE 0808 100 6868 or Tel : (+44) (0)1276 686717 Fax : (+44) (0)1276 686353

E-mail: info@cabletalk.co.uk Website: www.cabletalk.co.uk

Quoting HFC CT 09/00

## **SONY MDS-JA555ES**



erely unpacking the Sony is enough to show that it is in a quite different league to the other MiniDisc recorders in this test. It weighs about five times as much as most, and its power supply (based on two R-core transformers) is extremely well endowed. In every respect construction quality is in a class of its own.

The key to this flagship model is ATRAC DSP Type R, which as the name suggests uses DSP to refine bit allocation between bands, plus other measures designed to improve the computational accuracy of the coding, along with much enhanced D/A and oversampling filters. The Sony includes a version of the manufacturer's now traditional variable coefficient digital filter with three 'slow' settings and the standard 'brick wall' one, which on the whole gave the most consistently satisfying results, and was used for much of the testing.

The list of user features includes the ability to adjust replay pitch (potentially useful for karaoke applications), and a fade in/out facility. The

# "The Sony is in quite a different league to the other MD recorders in this test."

Sony has a digital record level option, and stores six seconds of data allowing late recording starts without missing the beginning of the music. It is also possible to control the Sony by computer, but even when used on its own the control system has the customary clarity and simplicity of the best Sony equipment.

The back panel has a good selection of in and outputs. There are two optical and an electrical inputs, and electrical and optical digital outputs, the result of which is that the Sony will make the most of virtually any system, however complex. System link sockets can be used to integrate the deck into Sony branded systems.

#### **SOUND QUALITY**

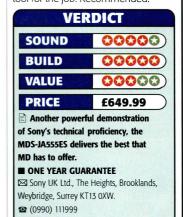
The panel was in no doubt that the Sony was quantitatively and qualitatively different to the other MD recorders. There was also, however, a measure of consensus that it was not

completely consistent musically, and that its strengths were more in areas associated with tonality and musical expression than in the dynamic properties of music. The flute in the Mozart was mentioned by two of the panel for its subtlety and realism, and the Lorna Hunt vocal was described as 'light and well defined'. One listener noted how he 'warmed' to the Sony, though he still found it disappointing after listening to the same music on compact disc.

But this is a classy machine, and recordings have a feeling of space and ambience that eluded the other MiniDisc recorders, along with an unusual measure of musical consistency that sustains the musical flow, irrespective of dynamic changes in the musical landscape. Compared to others of its type, the bass and the treble both seem more alive, and imagery is more finely resolved around the speakers.

## CONCLUSION

It may seem rather brutal to suggest that the talent expended on this player has been applied to a medium that simply doesn't fully repay the effort. Nevertheless, the Sony represents the current state of the art in MiniDisc recording, and its sound is well ahead of the other MD recorders in this test. If you're keen to exploit the benefits of the powerful editing and convenience features of MiniDisc, there is certainly no finer tool for the job. Recommended.



## THE LAB REPORT

The undoubted star of the MD show also has a high 2.4V output, which will give it a further (but unfair) boost during quick A/B demonstrations. The advanced DAC and switchable 8x oversampling filter technologies yield a vanishingly low 0.0005 per cent distortion at this peak output which gradually increases to just 1.9 per cent at -

90dBFs (the JVC MX-488 reaches 28 per cent). Any spurious idle patterns and digital images are suppressed below the level of

noise while the dynamic range of the signal is still up with that of a good CD player.

In fact its 104dB A-wtd S/N ratio is nearly 2dB better than the best CD-R/RW recorders in this survey, while the errors in low-level linearity of just +0.0/-0.4dB over a 100dB range are a match for the top performers. Naturally, even a superior MD recorder of this ilk cannot outperform a linear recording on

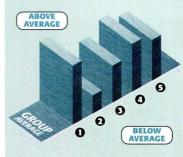
CD-R or CD-RW because its data is cleverly, but not entirely inaudibly, compressed by a factor of 5:1 via the ATRAC encoder. Hence the 1225psec of jitter, which is primarily based around

the 85.9Hz 'repeat' frequency of ATRAC's 11.6msec block length. This figure is state-of-the-art for MD but nearly 10x higher than that expected of a good £200 CD player.

## **HOW IT COMPARES**

A s far as MiniDisc goes, the MDS-JA555ES is just about as good as it gets. But the best CD-R or CD-RW will always be better.





## **SPECIFICATIONS**

SPECIFICATIONS						
PARAMETER	MANUFACTR'S SPEC.	ACTUAL SPEC.				
■ Distortion @ 1kHz/0dBFs	Not given	0.0005%				
■ Maximum output level	2V	2.4V				
■ A-wtd S/N ratio	105dB	104dB				

## **TEAC MD-8**



his is quite a costly MD recorder, the features rollcall of which includes a sample rate converter which enables recording from any digital source up to 48kHz. There are two digital inputs, one optical and one electrical, but the only digital output is optical. All the usual editing features that make MD such a powerful recording tool are available, including divide (making two tracks out of one), combine (one track from two) and move, and of course the ability to erase tracks, which is not possible with CD-R, though it is usually possible to bypass unwanted tracks. CD-RW of course does offer full record, erase and re-record facilities.

The front panel control system is one of the Teac's better points. The yellow dot matrix display is attractive and informative, and the jog dial, an indented rotary control, provides pain-free rapid access to tracks, and help when programming alphanumeric labels. The remote control is comprehensive but artless, reinforcing the conclusion that this is not a player that goes out of its way to meet granny halfway.

# "This is a player that should appeal to the home recording enthusiast."

#### SOUND QUALITY

The MiniDisc recorders in this group didn't exactly manage to camouflage themselves in the listening tests. The panel, as ever, were not told whether they were listening to MiniDisc or to CD-R, but in every case when they were listening to MiniDisc they were aware that what they were listening to wasn't quite right, and the Teac was no exception.

In fact the Teac MD-8 was by no means the worst offender of the bunch. As one put it: 'This one's much better [than the previous player]. It has some feeling for light and shade, and much greater finesse', and 'string sound is projected with greater gusto'. In the Keb' Mo' recording, there were complaints that the Hammond organ almost vanished from view, and that the treble sounded forced, along with comments that the Teac was slow and plodding. In the Ravel recording, there was praise for the 'excellent decay' of the kettle drum,

and in general on its 'faithfulness', but again this was in comparison with the previous rather unsatisfactory player, and the consensus view when the Teac was compared to the reference CD player was that the Teac sounded two-dimensional in the Mozart, slow and plodding in the Lorna Hunt, and that in general that it was shut in (an MD trademark) and lacking in the snappiness and timing of the sound from compact disc and the best of the MiniDisc recorders.

These observations are par for the course, and they corresponded closely with this writer's own notes based on hands-on listening. The sense that background events were swimming in and out of earshot was peculiarly pervasive with the tested MD players as a whole, but it was more noticeable here than with some of the others, and the music was grubbier and coarser in texture still when recording from an analogue source.

## CONCLUSION

By MiniDisc standards, the Teac MD-8 is a reasonable performer, but it is not the best in class, and it is no match for recordable compact disc when measured by sound quality alone. This is, however, a player that should appeal to the home recording enthusiast. Its full roster of editing features and the excellent front panel controls point this way, and the rather forbidding appearance won't alienate this type of user either. But the cost is undoubtedly high when checked against the competition.



#### THE LAB REPORT

n line with Teac's CD-R/RW recorder (p39), this MD-8 player also employs a Sony-derived pickup mechanism. Its record/replay jitter amounts to 1395psec, slightly higher and slightly less tidy (from a spectral point of view) than the

a spectral point of view) that Sony ES player, but distortion remains very low at 0.0008 per cent around the -10dBFs level. This increases to 0.003 per cent at the peak 1.95V output (1kHz), escalating at the frequency extremes (0.02 per cent at 20Hz and 0.

cent at the peak 1.95V output (1kHz), escalating at the frequency extremes (0.02 per cent at 20Hz and 0.12 per cent at 20kHz), reflecting the fact that the MD-8 is no ES-beater. Nevertheless, its 101.7dB A-wtd S/N ratio is very respectable, idle patterns are suppressed by>117dB and

digital images by >82dB while errors in low-level resolution amount to just +0.0/-0.6dB over a 100dB range.

Measuring the response of an MD recorder in any meaningful way is tricky. A swept tone gives a false impression

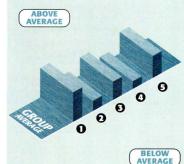
> of a flat response because, moment by moment, the ATRAC encoder only has to deal with one frequency at a time. Impulses or multi-tones yield a far messier-looking response but are more reveal-

ing of what's happening during recording. To this end, the MD-8 shows a +0.6dB treble boost but does not suffer the de-emphasis error that afflicts the partnering RW-800 CD recorder.

## **HOW IT COMPARES**

Astrong digital heart ensures quality MD recordings, but the (analogue) replay electronics increase distortion through bass and treble at high levels.





## **SPECIFICATIONS**

MANUFACTR'S SPEC.	ACTUAL SPEC.					
Not given	0.003%					
2V	1.95V					
103dB	101.7dB					
	MANUFACTR'S SPEC. Not given 2V					

## 4

# Recorders Conclusions

So where is the state of the digital recorder art? If your interest has been piqued by these tests, join Alvin Gold as he rounds up the cream of this MiniDisc and compact disc recorder round-up.



## MARANTZ DR-17 (CD-R) £1,499.99

The most costly model in the test, the Marantz DR-17 is a discreet high end CD player that is also able to make recordings. Surprisingly, the Marantz is rather more jitter-bound than expected for such a superbly engineered recorder and this appears to have some impact on sound quality. But it does little more than dull the shine on a diamond, and this remains a subtle, three-dimensional and highly sophisticated model, and a thoroughly engaging one too. It also fully supports HDCD, not only by preserving HDCD data when recording, but also because it has its own HDCD decoder for replay.





#### PHILIPS CDR951 (CD-R) £380.00

Five models from the 12 tested have been singled out for particular commendation, but only one has been awarded the ultimate Best Buy accolade: the Philips CDR951. This is fitting in one way. Philips (with Sony) was the originator of compact disc, and has played a key parenting role in the development of consumer CD-R and its sibling, CD-RW. On the other hand, the last range of Philips CD-R recorders were widely regarded as... Well, let's just say they were not among the best in class.

The CDR951, the flagship of a new range, is a clear improvement. A great deal of work has gone into the general area of usability, which has been neutered to a certain extent by what could be seen as an over-reliance on the jog wheel – an evil which has promulgated like a cancer through the global community of digital recorders – and by the ministration of the industrial designer (OK then, the village idiot) who was responsible for (dis)ordering the controls and displays on the front panel. But enough evidence of good work remains, and although there are criticisms that can be levelled of the CDR951 as a CD player too, it remains a classy machine that makes classy recordings. It just a pity it doesn't quite look the part.





## PIONEER PDR-W739 (CD-R) £400.00

Here is one from the sub-genus of CD-R recorders that are also multidisc players. The name of the game is flexibility and ease of use. No external player or amplifier is required for CD dubbing, and the internal mechanism, which can deal with three discs, can be used to record multi-disc selections, or to make CD dubs at twice normal play speed. The controls are particularly well labelled, and this is an honest and well specified model that doesn't stretch the performance envelope for CD, but which does sound pleasingly consistent for the most part - and it makes excellent recordings.



MAKE	JVC	LG	MARANTZ	PHILIPS	PIONEER	PIONEER
MODEL	XL-R5000	ADR-620	DR-17	CDR951	PDR-509	PDR-W739
PRICE	£450.00	£350.00	£1,499.90	£380.00	£30000	£400.00
SOUND	00000	00000	00000	00000	00000	00000
BUILD	00000	00000	00000	00000	00000	00000
VALUE	00000	00000	00000	00000	00000	00000
GUARANTEE	1yr	1ут	2yrs	1yr	1уг	1yr
DISTORTION @ 1kHz/0dBFs	0.002%	0.002%	0.001%	0.0012%	0.001%	0.0016%
WAXIMUM OUTPUT LEVEL	2.07V	1.95V	2.2V	2.05V	2.2V	2.15V
A-WTD S/N RATIO	96.6dB	102.4dB	99.1dB	98dB	102.1dB	102dB
STATUS			HI FI CHOICE RECOMMENDED	HI FI CHOICE BEST BUY	HI FI CHOICE RECOMMENDED	HI FI CHOIC

n the event, this test turned out to have more angles than a suitcase full of set squares, but certain points stood out. The first is that there is no real comparability between MiniDisc and CD-R. Although they are both tailored primarily for making recordings from compact disc, their appeal is different. On the results of this test, there can be no longer be any doubt that MiniDisc cannot mount an effective challenge to compact disc on sound quality grounds, which is an important hurdle. Even the very best MD sounds inconsistent and lossy, and once its trademarks have been learned, which probably won't happen until you've lived with one for a while, the shortcomings are not easy to ignore. But it is equally hard to ignore the strengths of MiniDisc: its packaging, the potential for creative editing, and its relative immunity to movement while playing. On the other hand it was hard to ignore how strikingly awful most pre-recorded MDs sounded on all of the recorders when compared to the equivalent CDs.

Of course CD-R sounds better, but CD-RW is an untidy addendum, a bodge that MD doesn't require, and the format would have had a much smoother ride if CD players had been made CD-RW compatible at a much earlier stage. Only now are some manufacturers (notably Philips and Marantz) making their CD players RW compatible, and observers might be forgiven for concluding that it is too late. Except of course that there has been a tremendous recent surge of interest in CD-R generally, which seems to be carving chunks out of MD's market share.

It is tempting to try and conclude that if you pay more, you get more. It's a nice theory, but this is clearly not the whole story. The Sony and Marantz models, both more costly than the rest, do justify their extra cost on the whole, but it certainly doesn't take into account that the names better known for optical media probably enjoy much larger cost savings which they are able to pass on. This may explain the fact that the Pioneer models all did better than average when judged against price, and the

## **BEST BUYS & RECOMMENDATIONS**



BEST BUYS: Our famous Best Buy swingtag is awarded to hi-fi equipment which offers an excellent standard of performance at an attractive price. Best Buy winners are superb all-round components.



RECOMMENDED: Recommended products are first-class audiophile propositions, losing out to Best Buy status only because of a higher price or less competitive overall sound quality.

## **UNDERSTANDING OUR BAR GRAPH MEASUREMENTS**

Behind Hi-Fi Choice's unique bar graphs are some of the most advanced measurements made anywhere on the planet. They are provided by our Technical Editor, Paul Miller, using both GPIB-controlled measurement hardware and his own, award-winning, PC-based Virtual Instrument software. Each bar graph value is derived from a weighted statistic of several key measurements and is displayed relative to a notional zero per cent which represents the group average for that particular category.

## **O**SUPPRESSION OF DIGITAL

IMAGES: This indicates the effectiveness of the player's digital filter in removing 'aliasing' or 'stopband' distortions immediately outside of the audio band.

② JITTER: Any uncertainty in the timing of the digital code produces digital jitter which manifests as an insidious form of distortion during digital-to-analogue conversion. The lower the figure the better.

## **OPRACTICAL DYNAMIC RANGE:**

This is determined by the player's Signal-to-Noise ratio and to what degree it is compromised by any Noise Modulation occurring under real signal conditions.

#### **OHARMONIC DISTORTION VS.**

**LEVEL:** This bar chart value is derived from the variation in distortion both with frequency and signal level. The consistency and nature of the distortion also forms part of the equation.

**GLINEARITY:** Linearity is a measure of the player's low-level resolution. If a signal coded at -80dB emerges from the player at -80.5dB then this represents a deviation in its linearity of 0.5dB.

## **PIONEER PDR-509** (CD-R) £300.00 A thoroughly competent recorder, which is even easier to use than the senior multi-disc models thanks to a thinned out list of features. Of course it lacks some of the ease of use of its multi-disc cousin, but it still offers a DAC function and a noise reduction circuit. And because recordings rely on an external source player, recording quality can be better. In fact, recording quality was quite similar to the PDR-W739, sounding safe and pleasant, but enjoyable on the whole.

## **PIONEER MJ-D508** (MD) £200.00 Pioneer's MiniDisc recorder employs some surprising sophistication for a model priced at only £200. The MJ-D508 has Pioneer's customary and highly intelligible control system. Recordings are about average in class - it suffers from some of the usual inconsistencies that afflict the medium, but on the whole it works well from one musical genre to the next, favouring commercial pop with its strong rhythmic elements, emphasis on the leading voices and instruments, and narrowed dynamic focus.

## **SONY MDS-JA55ES (MD) £649.99**

Superbly built and well endowed under the bonnet, this flagship recorder is capable of results that transcend the other MD players in the group, and go a long way to bridging the gap with CD-R. Musically it's good, but not that good. Dynamics are somehow evasive. It's OK in the foreground with lead instruments, but elusive with background events, although the effect, which is characteristic of MD, is well handled by the Sony. And there's more. A Variable Coefficient Digital Filter allows the sound

to be tuned to personal taste, and there are other cool features; pitch blending for example.



ABOVE AVERAGE	
6	
	G
	0
180 0	0

THE BAR GRAPHS

MAKE	TEAC	JVC	KENWOOD	PIONEER	SONY	TEAC
MODEL	RW-800	XM-448	DMF-5020	MJ-D508	MDS-JA55ES	MD-8
PRICE	£349.95	£220.00	£249.95	£200.00	£649.99	£599.95
SOUND	00000	00000	00000	00000	00000	00000
BUILD	00000	00000	00000	00000	00000	00000
VALUE	00000	00000	00000	00000	00000	00000
GUARANTEE	1yr	lyr	lyr	lyr	1yr	lyr
DISTORTION @ 1kHz/0dBFs	0.002%	0.003%	0.0016%	0.0018%	0.0005%	0.003%
MAXIMUM OUTPUT LEVEL	1.85V	1.06V	2.1V	2.1V	2.4V	1.95V
A-WTD S/N RATIO	97.5 <b>d</b> B	93.9dB	102.4dB	95dB	104dB	101.7dB
STATUS				HI FI CHOICE	HI FI CHOICE	

## HELP

My system needs more warmth and emotion. Can you suggest a **CD** player with 'valve-like' qualities to go with my Musical **Fidelity** pre/power amp and **Celestion A1** speakers?

> George M. Vourlides, Greece

**Try the Arcam** FMJ CD23 (£1,100) and **Tube Technology** Fusion II.

They seek it here, they seek it there, that elusive synergistic system. But have no fear Tim Bowern knows where it's at.

## **Ready or not?**



My current system is made up of the following: Arcam Alpha 7SE

CD Player and Alpha 8R Amp, Eltax Symphony 8 speakers, OED Silver Spiral interconnects and Gale speaker

cable. I feel the time is right to upgrade the speakers and I want to buy a pair good enough to cope with SACD and DVD-Audio in the future. I've made a shortlist, but my question actually concerns my amp. I'm not convinced that the Arcam will be able to cope. Would it be worthwhile adding an Alpha 8P or 9P power amp to my 8R, or should I consider buying an 'SACD ready' amp like Sony's TA-FB940R? My music tastes range from Crowded House to Offspring.

A. M. Muthiah, via email

The whole issue of 'SACD ready' or 'DVD-Audio ready' amps is a rather murky one at present. Some manufacturers like Sony are producing models claimed to deliver an extended bandwidth, making them suitable for use with these new high performance music formats. However, wide bandwidth amps are actually nothing new, and whether an amp like the TA-FB940R is funda-



mentally better suited to SACD replay remains to be seen. We'll give this model a full group test rundown in a future issue.

Regarding your specific amp predicament, the Alpha 8P is an effective way to upgrade an 8R integrated amp, and the 9P is even better. As long as the speakers you choose are bi-wirable, bi-amping them in this way will provide better grip and dynamics than your 8R alone. This costeffective upgrade should be adequate to cope if you decide to add SACD at the front end, and rest assured you should hear the benefits even if your partnering gear isn't touted as 'SACD ready'. In the long term you may wish to upgrade again, perhaps to an audiophile-grade multi-channel amp to cope with future formats.



## Separation anxiety



I'm interested in the Kenwood system tested on page 20 of your June issue (HFC 203). You give it a Best Buy, so it must be pretty good – but is it as good as a separates system would be at the same kind of price? I'm more interested in sound than looks. James Oliver, Swindon

It is indeed a great little system, however, though this kind of system is a viable means to an end, it is not 'hi-fi'

as we know it. If sound quality is your goal you would be better off with a separate CD player, amp and speakers, even if your budget is just £450. Try a Sony CDP-XE330 CD player (£100) with an NAD C320 amp (£200) and Tannoy mX2 speakers (£150). Alternatively, toddle over to Richer Sounds and see what kind of package they can put together for you. You might like to try a more upmarket dealer too - who knows, given the right demonstration you may decide to stretch your budget somewhat further.

## Is it worth it?



I've heard a lot about things like cables and racks being important to make the most of your system, but do they really make a difference? I own a budget system (Sony CDP-XE530/Arcam Alpha One/KEF Cresta 2), but at the moment it's just sitting on a shelf. I'm using the free cables that came with the CD player and I'm really not sure what the speaker cable is - the dealer threw it in when I bought the system. I once heard a new cable in a friend's system (I think it was a Linn) and I couldn't hear the difference. Is it really worth it? Gus Appleby, Chester

Yes, but it does depend on the situation. The differences can be fairly small but some people's ears/tastes crave that extra level of detail. To others the contrast may not be worth the cost, so there's no easy answer. The effect also depends on the system used and the room in which it is placed. In general terms, though, the right cable and supports are vital if you want to hear a system at its best, even at budget level. For starters, try getting hold of a pair of Atacama Nexus 6 speaker stands (£50) and go from there.





## Two for the price of one



I want to upgrade my budget Ariston amp. I was considering the Creek 4330, as so many people rate it highly, but then I discovered the Cambridge C500/P500

pre/power amp. What I need is someone to help make my mind up. I'm attracted by the idea of separate pre and power amps and the Cambridge combo is extremely cheap at £150 for each box. Most pre/powers from other manufacturers start at around £600 or £700, so how come the Cambridge is so cheap? My CD player is a Cambridge C500 and my speakers are Mission 731is. Andy Dillan, via email

By splitting the functions of an amp into two boxes – pre and power – you can isolate sensitive circuitry from potential interference and concentrate on optimising the components for each part. Most manufacturers who make separate pre and power

models take the logical view that integrated models should sit at the lower part of the range, while more costly two-box systems make up the upper echelons.

For Cambridge Audio, however, the priority is to provide decent quality at very low prices, rather than optimising components and upping the cost. Its products are made in China, according to the brand's own designs, which keeps costs down and allows some surprisingly good gear to emerge through the Richer Sounds retail chain. We have yet to review the combo you mention, but it is likely its internal components are more or less the same as a cheaper Cambridge integrated model, the A500 perhaps, separated into two parts to give the benefit of increased isolation (and raise perceived value). Without hearing it we cannot pass judgement, though we like the A500. You'll have to listen for yourself, and also consider integrated models like the Rotel RA-971 MkII (£225) and NAD C340 (£270) alongside the attractivesounding Creek.

## A confused man writes...



I have read your words of hi-fi wisdom for some time and have to admit I'm in need of some advice myself. I recently bought a Musical Fidelity X-Ray CD player and X-A1 amp but I'm completely confused as to which speak-

ers I should be short listing for demonstration. I want

to get some floorstanders and was thinking about the Mission 782 or Musical Technology Falcon. Connor Grindlay, via email



Both the speakers you mention are strong candidates, though they offer quite distinct characteristics. The Musical Technology Falcon (£680) is a smooth and musical-sounding option, easy on the ear without being overly warm. If you like your sounds to soothe while they involve, it would make a great choice. On the other hand, the Mission 782 (£699) is considerably more upfront in nature, engaging from the off with substantial bass, plenty of punch and a glorious midrange. It needs a decent sized room to work at its best, but fans of more upbeat sounds may well find it the more entertaining of the two. And it's an easy load to boot. If you want to add a couple more to your list, Triangle's invigorating Zephyr II (£599)

an intriguing partner. And if you can bear to consider a standmounter, Dynaudio's Audience 50 (£577) makes an exciting part-

ner for the X-A1.

could prove

## **Snug fit**



I'm planning on upgrading my CD player and I want to make sure I choose one that is compatible with my

existing components. I currently have a Rotel RA-921 amp and B&W601 S2 speakers. My CD shortlist consists of Marantz's CD6000 OSE, NAD's C540 and Arcam's Alpha 7SE. Which would fit best? Mike Harrison, via email

All three players you mention are strong buys, and the ideal scenario would be to audition them all in tandem with your system. However, if you want some pointers we'd suggest the Marantz CD6000 OSE (£300) or Arcam Alpha 7SE (£350) would make the more engaging partners for your Rotel/B&W combination. Between those two, the Marantz is built to thrill but is probably pipped to the post in the allround stakes by the eminently likeable Arcam it should suit your system well.

## What is the best DVD player you've ever heard?

Martin Thompson, Suffolk

That would be the Theta Carmen DVD/CD transport (£3,299). It is truly superb with both CD and DVD-**Video** software, when used with a suitable DAC.



## HELP

Would the addition of a power cable upgrade improve the sound of my system?

Bram Hillen, Holland

The short answer is yes -**Kimber or PHY-**HP are a good bet. Check out our next issue for a full roundup of mains cables, blocks and conditioners.



## Lovelorn



I have fallen in love with Tannoy's Revolution R2 speaker - a Best Buy in HFC 197 - having heard it in action here in Singapore. I'm keen to buy a pair, but I can't decide

which amp to partner it with. Which budget model would suit best, bearing in mind I listen to all kinds of music? Also, would it be possible to use this amp for home theatre at a future time? Francis, Singapore

If funds are tight Rotel's RA-971 MkII (£250) would do a decent job of driving the Tannoys, but bear in mind they sound substantially better when used with amps of a higher calibre. There are several new models around the £500 mark which would suit very well, not least of which is likely to be the Marantz PM6010 KI (£500). We are awaiting a sample as we go to press, so cannot yet comment on its abilities, but if it is anything like its KI predecessor the synergy between Marantz and Tannoy should pay sonic dividends. At the same level, you should also look out for the

## Hi-fi bad?



I use a separates system consisting of an Arcam Alpha 9 amp, Trichord Genesis CD player and Castle Severn (Mk. I) speakers. Recently I bought a Denon 6.5 mini system

on behalf of my parents-in-law and was impressed with how much better and more listenable it sounded compared to my own system. Is this to do with synergy? I have to admit I bought my speakers on size and looks without auditioning them with the other bits.

Can you recommend any changes to my separates combination to improve its sound, and any particular speakers to audition with the 6.5 system if I decide to go with that system instead. Celestion A1s perhaps?

David Buckley, via email

We won't pretend we're not a little surprised by your comments, Richard, but it does happen sometimes. The Denon is a solidsounding mini system, but it should be no match for a selection of separates like yours. All three links in the chain are quality products in their own right, but they obviously don't gel when you put them together. It just goes to show how important it is to audition properly if you're to reap the benefits of going the separates route.

On sonic grounds, we wouldn't encourage you to go the Denon system route, and you certainly shouldn't expect it to make the most of speakers like the Celestion A1s you suggest. Better to get the most out of what you already have - make sure you're using good quality cables and supports, then get busy with auditioning. Listen to some speakers in partnership with the Alpha 9 amp, ones that will bring a tighter, cleaner feel to proceedings: Mission, Musical Fidelity and Dynaudio would make good starting points.

Musical Fidelity X-A2 (£499) and Primare A10 (£500), both of which deliver the kind of agility required to really get the Tannoy's moving.

The best way to take you system into multichannel a little way down the line is to add a good quality off-board processor. These are currently out of fashion at lower price points which is a shame – adding one to a top performing budget amp is the best way to ensure you get a good quality musical performance with musical sources as well as decent home cinema from one system. There's a new model on the way from Yamaha, and that is probably your best bet.



## **Picking brains**



What do you think of Arcam's FMJ range? You list the FMJ A22 amp as a Best Buy in your Directory section,

but what do you think of the rest? I want to get the CD player and integrated amp for now, but do you think it would be worth adding the power amp and bi-amping? I'm thinking of partnering them with the PMC FB1 speakers. Brian Andersen, Cardiff

So far we've tested the A22 amp, which we rated a Best Buy as you rightly state, and the CD23. The latter was a Heat Seeker, which is why it is not yet listed in the back – we only list products once we've given them a thorough group test, so you can be sure the Directory is as reliable as possible. However, you can rest assured it is an excellent product – not just a spruced up Alpha 9, but notably better in terms of performance too. It is also due to feature in a group test in our October issue, so keep 'em peeled.

> We haven't yet tried the A22 with the P25 in bi-amp configuration, but you can expect a review soon. On past experience, the improvement is likely to be worthwhile, particularly if you're driving speakers like the PMCs.



## **Biding time**



At present I'm using a Naim CDX CD player, feeding a Krell KSL/Bryston 9B-ST pre/power combination which drives KEF 105/3 speakers. The Naim replaced an old

Meridian 200/203 transport and DAC combo and has improved the sound from being over-refined and a tad laid-back to a more punchy, rhythmic delivery.

Though mostly satisfied with the Naim's sound, the Meridian had some strengths I miss. It delivered a more three-dimensional soundstage and more natural acoustic ambience, something most noticeable with audiences clapping on live recordings. Comparatively, the Naim can sound slightly processed and lacks soundstage depth. I appreciate that the sound I'm after won't come cheap, so I'm considering a further upgrade to the CD player. Could the addition of a Naim XPS power supply deliver this or should I consider a Krell KAV300cd or even the Marantz CD7? One concern I have is that forthcoming SACD/DVD-A universal players might play CDs even better, and consign even these players to a museum. Should I buy or should I wait? Tom Stuart, Middlesex

Don't worry about CD players of this calibre becoming obsolete overnight. Dedicated players like these will play CDs considerably better than any first wave 'universal' machine that is likely to emerge, and it is open to debate as to whether such a level of performance will ever be surpassed with standard CDs. It makes sense to get a top-notch CD player now and buy into the new formats when they reach some kind of maturity.

We would recommend you audition three or four top-notch CD players to see if they deliver what you're after. The Krell and the Marantz would make good options - we can particularly recommend the Marantz. Also seek out something from Wadia for an interesting three comparison. As for the addition of a XPS power supply to your existing machine, it would undoubtedly lift the sound up another notch and may prove your most cost-effective option. It should add some ambience, but only an audition will tell you whether it does the trick.

Which speakers under £130 would you partner with a **NAD C300** amp for a second-room system?

James Ashford, Surrey



Naim Nait 3R

## **Take careful Naim**



My system consists of Meracus Tanto CD player, an Audiolab 8000A amp and Epos ES11s with Epos stands. I just bought the CD recently and the sound is much

improved, but it has also revealed that I need to upgrade elsewhere. The system seems to lack the power to control symphony music, so now I need your advice – should I change the amp or the speaker? And if I go for the amp, would Meracus be a good

Wiboon L, Thailand

Some careful auditioning is called for here. With regard to the sonic changes you're after, the little Epos speakers have plenty of grip but may lack power with symphonic stuff. A change to a speaker with deeper bass and a larger scale sound may take things in the right direction for you - something like PMC's FB1 (£1,275). On the other hand, the ES11 is capable of some pretty special tricks when it's treated right. Naim/Epos is a classic match – seek out a Nait 3R (£780) or a Naim pre/power. Creek also tends to match up well if you fancy a slightly smoother, more subtle approach. The P43/A52 (£849) pairing should do a fine job in that respect. As for Meracus, we haven't tested any amps from this brand as they don't seem to exist in the UK, but if you like the CD player it makes sense to give that option a try.

## **Missed grille**

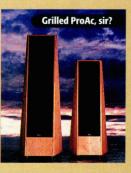


I notice that you always photograph speakers with the grilles off. Should I listen to them in this way, or can I keep

the grilles in place? My speakers are damn ugly without them! Andrew Wilson, London

Most speaker grilles affect sound to a lesser or greater degree. To ensure you're hearing your speaker at its best, you should take them off while lis-

tening - unless your speakers specifically state in



the instructions that they are designed to be heard with them on. However, if you were to find the sound of your system a little too bright, keeping them on might help to soften the sound a touch. And if you've got small children, or you

simply can't take the looks of naked speakers, you may decide that the small sonic compromise is a cross worth bearing in return for the qualities they provide.

Tannoy's mX1 (£120) would be a top candidate, or Mission's 700 (£130) if you like your sound with plenty of wallop.

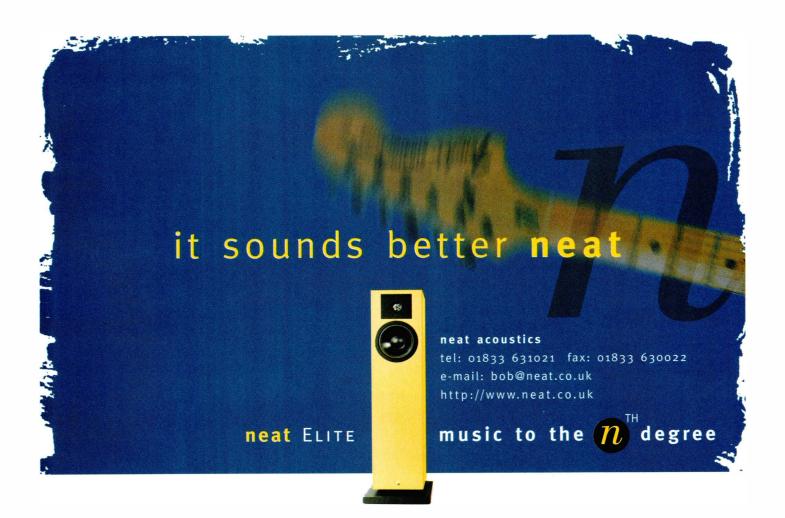
# SME MODEL 10



successful. The SME Model 10 mirrors their exacting standards and ease of use. Novel features include polymer isolators contributing to a pleasing detailed sound balance that encourages fresh exploration of any record collection. Untroubled by the most complex material it's firm clean bass makes this a turntable that will set your feet tapping!

Details and reviews on request from:

SME LIMITED • STEYNING • SUSSEX • BN44 3GY • ENGLAND • 🕿 +44 (0)1903 814321 • 🔯 +44 (0)1903 814269 www.sme.ltd.uk • e-mail – sales@sme-ltd.demon.co.uk



## STAINE ENIDE LO

# **CD PLAYERS**



While some remain wrapped in the old CD versus vinyl debate, it seems incredible to think that CD has been with us for almost 20 years. "Perfect Sound

Forever" was the slogan that launched the ubiquitous silver disc, its comparatively robust nature the major selling point. (Remember the *Tomorrow's World* jam experiment?) Of course, these discs are neither indestructible nor perfect in sound, or we wouldn't need new kids on the block like SACD and DVD-Audio. Yet, despite the anti-digital arguments, the format has matured into an excellent music carrier with an awesome back-catalogue.

## Do all CD players sound the same?

In the early years of CD, some less learned quarters decried the opinions of hi-fi magazines and declared that all CD players must sound the same because of the very nature of digital technology.

Rubbish. True, many manufacturers bass their creations on the same essential building blocks. For example, there are few proprietary transport mechanisms around and many manufacturers source theirs from either Philips or Sony, the co-inventors of CD. And quite a few players use similar combinations of digital circuitry, particularly at lower price points. But it isn't just of case of what you use, more how you use it – even rudimentary building blocks can sound amazingly good when imaginatively applied.

What's more, digital circuitry is only part of the internal make-up of a CD player. Analogue circuits play a sizeable part, and it is from this that many sonic differences are derived. Good old-fashioned analogue design principles can make a huge difference to CD performance, as can upgraded power supplies, isolating circuit topology, resonance-resisting build, interference screening and so on.

If anything, there is probably a greater differential between low cost CD players and high cost units than ever before. Sure, there are some remarkably good budget models out there, and some less than spectacular costly ones, but generally speaking you get the sound and level of engineering you pay for.

#### One box or two?

A few years back, it was generally thought a good idea to split a high performance CD player into separate boxes: the transport and the DAC. The theory was much the same as with pre/power amps — isolate sensitive circuitry from elements that may influence sound. A fine theory, but for the emergence of jitter as

a major factor in CD player performance. Jitter is a term used to describe errors in the timing of digital signals, which can lead to muddled detail and defocused imagery. Transferring data from one box to the other was found to exacerbate the problem, which in turn made the two-box option unfashionable. However,

## SIX OF THE BEST

## ARCAM Alpha 7SE £350

A dynamic and engaging player, strong enough to slay a number of giants at considerably higher price points. A fine all-round buy.



facturers have managed to get around the problem by clock-linking the two boxes and the most expensive players use this approach.

## CD versus the new formats

SACD is now with us, and DVD-Audio is imminent at last. The question is, why buy a dedicated CD player when it won't play these new formats? Well, given that you probably already have a large collection of CDs, and CD is set to remain the most prolific music format for years to come, sound quality with CDs is still a crucial issue. And a good quality dedicated CD player is likely to do the job better than any combination player.

## Compatibility

When buying a CD player the main factors to consider is how well a new player will work in your system, so wherever possible listen to the player in that context. If that's not possible do your best to combine the proposed player with your amplifier, some players produce ultrasonic noise with which some amps are better able to cope than others. Check out the lab reports on appropriate reviews to see if a shortlisted player falls within this category.

The other potential problem is where a player's output is greater than an amp's line input can cope with, this is not likely to be a problem with recent amplifiers but some older designs (those without a dedicated CD input) may not be suitable. Again check lab reports on amp and player for the specifics.

#### **CAMBRIDGE AUDIO D500 £200**

A clean and articulate sounding player – shows how good a budget model can be when designed to the right standard.

#### **MARANTZ CD-7 £3,500**

A true heavyweight in every respect, vigorous and precise in equal measure. A splendidly exciting listen.

## **ROTEL** RCD-991 £750

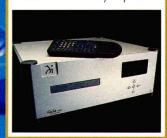
A wonderfully solid and cohesive performer, musical enough to worry some very serious contenders indeed. Features unique user-switchable dither levels.

### SONY CDP-XB930E £300

Fine, flexible player, which also has an excellent feature set – including CD text – and good build quality to match. Also offers various filter options.

#### WADIA 860x £7,450

One of the latest creations from digital masters Wadia. A player with few peers and a magnificent music-maker in every respect.



# OASIS OF

Paul Miller takes a peak (groan) at this month's tested amplifiers to SANITY

illustrate just how much headroom an amp needs to cope with the ups and downs of real music.

he July 2000 issue of Hi-Fi News and Record Review carried an informative article by Keith Howard, entitled 'How much Power?'. Here, Keith successfully demonstrated that momentary, peak levels in modern, recorded music are often significantly higher than the loudest sustained passages might suggest. This, in turn, implies

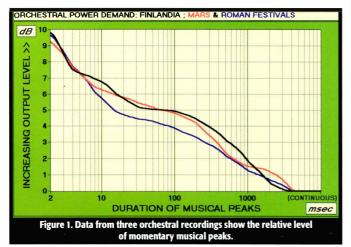
that the momentary demands placed upon the amplifier are substantial indeed. The question is, if you set your amplifier volume so that a continuously loud passage will push it near full output, then just how much short-term power do you need above and beyond this to prevent even the briefest of clipping?

#### **GONNA TAKE YOU HIGHER**

Loud passages from three orchestral recordings were sampled by computer and the musical peaks separated according to the brevity of their duration (see Figure 1). Using data supplied by Keith (interpolated in my lab to provide smooth curves), the *Finlandia* excerpt (Decca 417-762-2) depicted by the black trace, shows that musical transients lasting 100msec (0.1 second) are up to +5dB higher in level than the maximum continuous output of the track. A 50W amplifier running near full power would require a dynamic headroom in excess of 150W to accommodate these sorts of peaks. An excerpt from Respighi's *Roman Festivals* (Chesky, CD18) shown by the blue trace, requires less than +4dB for peaks lasting 100msec but demands +7dB of extra power for percussive transients lasting 6msec and a whopping +9.7dB for the sharpest 2msec peaks (or 467W for a 50W amplifier).

Naturally, the briefest high level peaks occur less often than bursts lasting in excess of 100msec. With *fortissimo* classical recordings of this sort, it's estimated that peaks up to +1dB occur about 15 times a second. Peaks up to +2dB appear 12 times per second, those at +3dB at 8 per second, +4dB at 4 per second while the real 'biggies' (+9dB for just 2msec) may only appear once a minute. Subjectively, the impact of a momentary clip and the distortion that results will depend on many factors, not least the 'masking' effect of the underlying music, the nature of the distortion itself and the finite time taken by the amp to recover.

With this in mind, it's not unreasonable to demand a burst of power some four times the amplifier's continuous rating (200W for our 50W amplifier), which is equivalent to a headroom of some +6dB. So, just

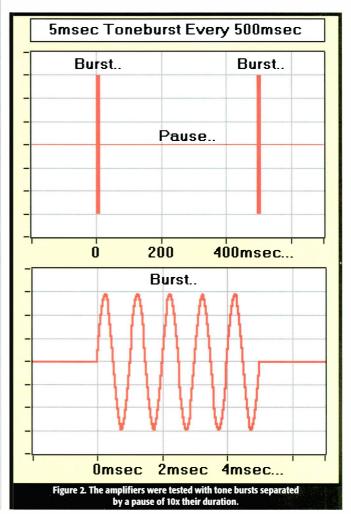


how would the six integrated amplifiers reviewed by Richard elsewhere in this issue fare? And how would they rank against a budget £200 amplifier specifically promoted for its dynamic power output – the Best Buy NAD C320 from *HFC* 186?

#### **SIZE MATTERS**

Regular readers will know that I have published dynamic power measurements for all amplifiers tested in *Choice* over the last 10 years or so and, in the last few years, developed unique software that profiles the dynamic behaviour of amplifiers into low impedance loads (see *Oasis*, *HFC* 175). Nevertheless, these results are typically limited to tone bursts lasting 20msec, 10msec or, in the case of peak current measurements, 5msec duration. Keith's results, by contrast, suggest that not only must extreme peaks be tackled over minuscule 2msec periods, but that sustained musical bursts lasting up to 500msec must also be accommodated by the amplifier.

Intrigued by these findings, I have modified my software to provide precision tone bursts as long as 1000msec (1 second) and as short as 2msec (just two cycles of a 1kHz sinewave). Viewed on an old-fashioned 'scope, the tone bursts would appear as Figure 2, with each burst separated by a zero-output pause lasting 10 times as long, giving the





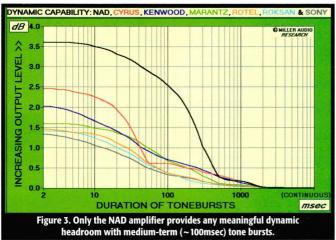
amplifier's power supply plenty

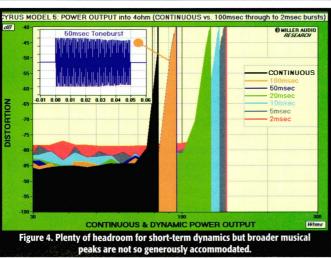
> of time to recover. These bursts are captured from the amplifier. driving a 4 Ohm load, and analysed for distortion over its entire working range (0-145W in the case of the Cyrus Model 5, for example).

## ROOM ON

Figure 3 demonstrates the practical performance of our seven ampli-

fiers handling tone bursts from 1000msec through to 2msec and driving a 4 Ohm load. In all cases, the 0dB horizontal axis represents the maximum continuous power output of the amplifier, regardless of its absolute value in Watts. Note also that the vertical scaling is reduced to +4dB as none of the amplifiers comes close to mirroring the





demands of the classical recordings. The table below compares the maximum continuous with maximum 2msec burst power outputs from each amplifier, with the overall dynamic headroom this represents in each case.

## POWER OUTPUT TABLE (ONE CHANNEL, 4 OHM), RANKED FOR INCREASING DYNAMIC HEADROOM.

	Sony	Roksan	Rotel	Marantz	Kenwood	Cyrus	NAD
Continuous	105W	203W	177W	215W	110W	82W	10W
2msec Burst	143W	281W	248W	310W	176W	145W	248W
Headroom	1.34dB	1.41dB	1.47dB	1.59dB	2.04dB	2.48dB	3.60dB

The NAD C320 (black trace) is clearly streets ahead of the other amplifiers, not only in its ability to sustain peaks some +3.5dB for 10msec (~240W into 4 Ohm) but, importantly, by offering a good +2.5dB buffer for sustained musical bursts lasting 100msec. It's these medium-term bursts that occur more regularly in real music, so the NAD has a genuine and practical advantage in circumstances where the other amps are offering just +0.35dB to +0.75dB of headroom. Nevertheless, even the NAD falls short of the of headroom indicated by the classical recordings (Figure 1).

It's worth remembering that the C320 has pretty much the same *continuous* output as both the Sony TA-FB740 and Kenwood KAF-3030R and yet, despite looking similar on paper, has the capacity to generate higher sound levels thanks to this enhanced headroom. Just compare the black (NAD) with the dark blue (Kenwood) and grey (Sony) traces. All else being equal, this is just one reason why one amplifier can sound louder than an ostensibly 'equivalent' model.

## **DYNAMIC PROFILES**

On paper, too, the Cyrus Model 5 comes top of this month's group with a maximum dynamic headroom of +2.5dB. So why did it not sound as open and dynamic as this might suggest? The red trace on Figure 3 hints at why, because the amp's headroom only really exists for musical peaks shorter than 40msec or so. Medium-term musical peaks lasting around 100msec fare no better than they do with any other amp in the test.

This is confirmed by the dynamic profile for the Cyrus 5 (Figure 4) which shows some small (+0.6dB) increase in output over 100msec but little or no further boost for shorter peaks until 40msec or so is reached. The blue, inset 50msec tone burst, recovered from the Cyrus 5 shows an obvious collapse beyond 0.03seconds (30msec), contributing to an early increase in distortion

Power supply regulation is a key factor because, unless the amplifier is designed to service high dynamic rather than continuous outputs (so-called commutating amplifiers), then increased PSU regulation typically means a reduced dynamic headroom. On the other hand, the amplifier's ability to drive lower impedance loads is typically improved. It's a trade-off that must be juggled by every designer and one of many factors that determines just how loud and how convincing different amplifiers sound in practice.

Of the amps in this month's test, Kenwood's KAF-3030R (dark blue

trace, Figure 3) represents about the best compromise between medium and short-term dynamic output, but it's still no match for the C320. And yet, even this amp lacks the reserves to meet our conservative 4x headroom rule (+6dB) suggesting that, whatever make or model you drive, it's likely to be pushed momentarily into the red more easily than you'd think...

Do you have a subject matter for the Oasis? Please contact
Paul Miller via E-mail on
MILLER\_AUDIO\_RESEARCH@

compuserve.com

## GLOSSARY

CLIPPING: An amplifier's output waveform is 'clipped' if the volume is advanced too far and no more 'volts' are available to sustain ever increasing power levels. Distortion increases dramatically at this point.

MASKING EFFECT: The audibility of distortion and/or quieter instruments in a mix depends upon the intensity of the music as whole.

TONE BURST: In this instance, a short, whole number of sinewaves

designed to simulate a brief musical

peak or transient.

# Safe As Houses

Paul Miller takes JVC's new DVD-Audio player for a spin.

W

ith very little fanfare and absolutely no accompanying literature, the first fully-functional – by that I mean production quality – DVD-A player has arrived in the *Choice* office. Not from Technics and not from Pioneer – but from JVC who, assisted by the fast

turn-around of production facilities in China, has succeeded in pipping its mass-market competition to the post. And the mass-market is precisely where its £500 XV-D723 DVD player is targeted, for this feature-lead machine is no heavyweight meant just for audiophiles.

A glance at the sleek, champagne gold fascia, the comprehensively-equipped remote control and busy, on-screen display confirm the multiple roles of this one machine: a player compatible with CD (but not CD-R or CD-RW), DVD with DTS, DD and MPEG multichannel encoding, with early 96kHz/24bit DVD music discs and, as the icing on the cake, both two and multichannel DVD-Audio (DVD-A). Naturally, the XV-D723 wouldn't recognise an SACD disc from a hole in the ground.

This is also the first player I've seen to sport the MLP logo. MLP stands for Meridian Lossless Packing, a transparent data compression scheme developed by this Cambridge-based firm to optimise the coding efficiency of DVD-A without resorting to the invasive data reduction techniques used by MD, MP3, Dolby Digital, DTS and the like. In practice, Dolby is handling the licensing for manufacturers wishing to develop the MLP decoder chips that are required and,

players. Producers of DVD software, however, are not obliged to use MLP compression unless the overall flow of data exceeds some 9.6Mbpsec which it would, say, with a 5.1 channel recording, sampled at 96kHz and quantised to a 24-bit accuracy. Either way, this puts the 128kbps, 284kbps and 290kbps data rates discussed in relation to MP3, DD. and MD, respectively, into some perspective (see *Oasis*, *HFC* 196, 201 and 204).

Back to the machine itself, and should any MLP-compressed DVD be used then a flag to this effect, along with Dolby Digital, DTS, MPEG, is revealed on the fluorescent display. Uncompressed media, such as CD or standard DVD-A, are revealed by an 'LPCM' flag which stands for Linear Pulse Code Modulation, the coding topology used by CD these past 20 years.

Over to the right of the player, you'll see three LEDs indicating which of the 44.1/48kHz, 88.2/96kHz or 176.4/192kHz sample rates is selected. The latter is what marks out the XV-D723 as the first of a new breed among DVD players for, within, JVC has included its latest MN35505 DAC – ostensibly capable of running at a full 192kHz to accommodate the fullest extent of two-channel DVD-Audio. In fact, there are three of these DACs, included on three identical daughter boards which service the front L/R, rear L/R and centre/sub channels, respectively. However, with a nod towards the future potential of DVD-Audio, JVC has equipped the front L/R board with some superior components. Meanwhile, optical and coaxial digital outputs are fitted, along with SCART, S-Type and composite video connections.

I've decided to hold off publishing any graphs demonstrating the XV-D723's engineering prowess until next month's Oasis, where I'll run a side-by-side comparison with Sony's SCD-XB940 SACD player (see HFC 204). However, using 96kHz/24bit test DVDs, I can confirm the fine technical performance of this early unit whose response proved flat to 44kHz (-0.2dB) and where distortion was as low as 0.0005 per cent at 20Hz and 0.009 per cent at 1kHz before increasing to 0.016 per cent at 20kHz and 0.05 per cent at 40kHz. With 44.1kHz/16bit data, the overall S/N was good enough at 104dB and jitter pretty low at 308psec.



This 'safe as houses' DVD-A
promoted a very light, airy
and transparent sound full of
effervescent and thoroughly
unchallenging strings.

hard-bitten listeners.

**Sound Quality** 

As far as possible, our auditioning of JVC's DVD-A player followed the panel-based, blind listening routine adopted for Sony's SACD player. On this occasion we were able to

compare conventional CD software and two-channel 96kHz/24bit DVD with both

two-channel 192kHz/24-bit and 5-channel, 96kHz/20bit DVD-Audio. Years of blind panel testing have rewarded us with very consistent results from one or two manufacturers, notably JVC. Its highly evolved, PEM-based bitstream CD technology almost always provides a very smooth, utterly inoffensive – but occasionally rather bland – sound. To a large degree, this 'house sound' is carried through to the XV-D723, which provides a very self-effacing view of musical events with CD. Shawn Colvin's One Cool Remove sounded both composed, balanced and integrated but lacked the vim and vigour that would transform the sound into a living, breathing event to capture the imagination of our

Annie Lennox's *Diva* was requested by one of our listeners for its extended low frequency and very open soundstaging. JVC's interpretation of *Why*, in particular, was a little softer than anticipated, lacking some weight and extension. Instead of allowing the midband to flourish, it sounded a little messy and cluttered. By way of confirmation, we span Massive Attack's *Karmacoma* which, instead of rolling along on an unstoppable tide of bass, offered a ripple of its normal intent – clean but lacking both momentum and drive.

After a time, we also became aware of an unpredictable foible, a wavering or modulation of loud percussive sounds, particularly at the introduction of a track. The guitar string that opens *There's a Rugged Road* did not sound consistent, giving the impression of mistracking, though the disc was free of obvious blemish. There was also concern over the track time display, or at least the software driving it, as the digits were obviously not updating at precise one second intervals.



DVD

LFE

Existing 96kHz/24bit DVD recordings are a stepping stone to the full 196kHz potential of DVD-A, and here the XV-D723 gave a better account of itself even if it did not deliver the "extra dimension" we might have anticipated and, indeed, experienced with SACD. Rebecca Pidgeon sounded sharply focussed, articulate and bold through MacDougall's Men, the player displaying a better sense of stereo imagery and lower coloration than heard with CD. It was certainly easier to pick our way through the lyrics, strings and backing pipes, enjoying the music with little or no stress. There's a better sense of depth, percussive attack and crispness but still a pervading 'smoothness' that gives the music too polished a feel, in place of its natural dynamics and expressiveness.

Our one true 196kHz/24bit DVD-A recording (which looks suspiciously like a DVD-AR rather than a 'pressed' silver DVD-A) was described by our panel as "a very nice recording of some undemanding classical music". It's certainly difficult to judge low bass quality with just a cello on board while upper treble is limited to the harmonics of violins – some brassy percussion or piano would have more useful, methinks. As a 'chaperone' disc to accompany a virgin medium, Tchaikovsky's 'Serenade for Strings in C Major' fitted the bill perfectly. Accordingly, this 'safe as houses' DVD-A promoted a very light, airy and transparent sound full of effervescent and thoroughly unchallenging strings.

## Conclusions

While familiar CDs sounded below par in the busy electrical environment of the XV-D723, both 96kHz DVD and 192kHz DVD-A helped rescue the player, bringing it up to an acceptable standard - but not, importantly, vastly better than a good mid-priced CD player. As I suggested in our review of Sony's £550 SCD-XB940 SACD player, it's tempting to think that no manufacturer has an incentive to 'tweak up' the player's CD sound when it's the contrast with its notionally superior DVD-A (or SACD) facility that will drive sales of the product. The bigger the difference between onboard CD and DVD-A or SACD, the greater will seem the advantage of the new medium.

Naturally, it's difficult to judge any medium with such limited software, so it's tempting to blame the hardware and not the future potential of DVD-A which, theoretically, has the march on CD. Nevertheless, listening to this player was not so profound an experience as, say, our first outing with the TACT Millennium digital amplifier (HFC 178) or, indeed, Sony's debut SACD player (HFC 194).

Yet, while we continue to await the launch of DVD-A in an audiophile context – from Meridian, perhaps – with baited breath, this is to miss the point. The XV-D723 is a DVD player for watching movies: the fact that it'll handle DVD-A is a mere bonus, not its *raison d'etre*. And in this respect, it represents great value indeed. And it is for this universal appeal that it is awarded eight stars.

September 2000 HI-FI CHOICE 59

## **Professional Conduct**

ATC brings studio technology to your living room, and Paul Messenger likes the sound of that.

ew loudspeaker brands achieve equal recognition and respect from both the professional and domestic sectors of the audio marketplace, but ATC has achieved that distinction over the past quarter century. Respect then, to Billy Woodman, who spent his formative years in Australia prior to joining Goodmans 1970, subsequently leaving to set up ATC in 1974.

The company is at heart a drive unit specialist, making some of the most beautiful and massively engineered drivers on the planet. Moreover, its major contribution to the art has been the three inch midrange dome drive unit, which the company has pioneered since its earliest days, and which has long been a popular choice amongst promonitor builders.

ATC builds systems as well as drivers, and the larger models such as the SCM50 and SCM100, are primarily large stand-mounted, prooriented active designs. They have built-in multiple power amplifiers, and a size, shape and finish which is unlikely to be welcomed in many domestic environments. That hasn't stopped them building up a growing cult following amongst hi-fi enthusiasts, but it has undoubtedly restricted their appeal amongst less committed music lovers.

Enter the SCM70, which re-packages the company's classic threeway active pro monitor into a slimmer floorstanding enclosure, while also introducing some novel techniques to improve the overall

performance. This might be the size and shape of a large domestic floorstander, but the aesthetic treatment – contrasting greys and shiny aluminium with black lacquered side panels – still screams pro.

It's lovely to find a speaker which has

genuine bass weight without any of the

boominess that usually comes with the territory

The whole effect will look wonderful in an appropriately modern hitech interior, but did rather clash with my stained Edwardian beams and floorboards.

Aesthetically quite 'busy' with a variety of finishes and embellishments, the front view looms large: the speaker's moulded Corian (a granite/epoxy composite) top stands 125cm off the ground, and it's a hefty 40cm wide too. However, there are no flat surfaces or sharp edges here, so the overall effect is somehow friendlier than traditional box forms.

Although available in active or passive forms, the latter is only made to order, so the former, priced at £10,500, was the only effective option for this review. An active rather than conventional passive drive has profound implications (see boxout). In this instance the power amplifiers and active filter units are all built into the loudspeakers, an arrangement which is very convenient from a packaging point of view, though it does of course remove much of the opportunity to mix 'n' match the system electronics to taste.

Indeed, the SCM70 goes one step further still. Its input sockets are pro-style balanced-line XLR sockets, which are therefore best suited to being driven by a preamplifier similarly equipped with balanced line output sockets. This is the pro way of course, and makes good sense with complex installations and long cable runs. Balanced sockets are also found on some high end hi-fi equipment, and the technique has proved popular in the USA, but rather less so hitherto in Britain. Since my normal (Naim NAC52) preamp lacks balanced outputs, ATC also sent over its SCA2 preamp (£2,699) and appropriate interconnects.

The electronic filtering operates with nominal crossover points of 350Hz (bass to mid), and 3.5kHz (mid to treble), and also incorporates time-delay phase compensation, while the three power amps deliver up to 200W, 100W and 50W respectively to the bass, mid and treble drivers. In a change from previous ATC practice, the electronics are now made using discrete components, and actually contribute some

4.5kg to this speaker's very substantial 72kg total weight (and account for around £2,000 of the price). Individual gain adjustment to the contributions of each driver is, however, only possible by dismantling the loudspeaker – I for one would have welcomed the ability to make fine adjustments here.

The three drive units are the heart of the SCM 70 of course, and ATC sent over a set for my scrutiny (and to forestall me attempting to dismantle a speaker). ATC's bass driver is built on a 235mm (9 inch) cast frame, has a 180mm doped paper cone, and a magnet of similar diameter! It features the company's proprietary 'Super Linear' magnet construction (SLMM), a technique in which the pole-pieces are coated in a near-insulator with high magnetic permeability, in order to reduce hysteresis. The result, according to ATC's white paper, is a dramatic reduction in third harmonic distortion. This woofer also adopts the 'long-gap/short-coil' approach, sacrificing efficiency in the interests of high excursion linearity, which is one factor which explains why the overall sensitivity of the passive version is specified at a very modest 85dB/W.

ATC's midrange dome is similarly over-engineered. The dome is a 75mm fabric hemisphere, edge-driven by a similar diameter voice-coil, and with a phase compensating short horn flare. It's energised by an exceptionally powerful 21,500 Gauss magnetic field, enabled by using Swedish iron metalwork. Having previously favoured Vifa tweeters, ATC went right around the block when developing the SCM 70, eventu-

ally ending up with its own variation on a

 $familiar \ and \ respected \ high \ end \ SEAS \ theme.$ 

The 70 litre ported enclosure is no less interesting. Narrower

across the back than the front, and with sides that are convex, it's an excellent shape to spread internal

reflections and standing wave modes. The four vertical edges are substantial aluminium extrusions, nicely radiused at the front, and heavily finned at the rear, where they act as heat sinks for the power amps. Matching moulded Corian ends form the base and top, the latter held under decorative bolts. The base sits on four very hefty blunted spikes, which regrettably offer no height adjustment.

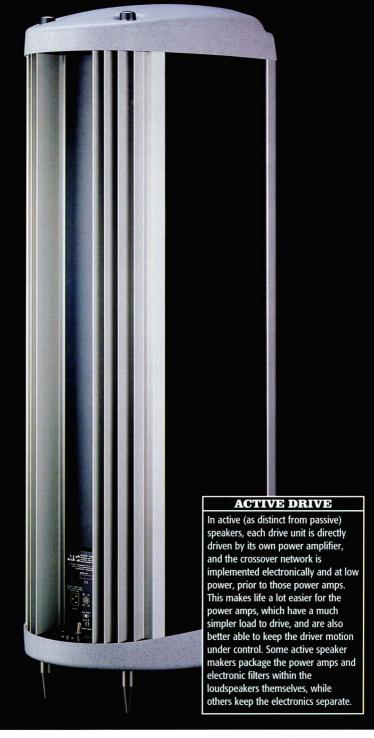
The far-field in-room responses look very well judged indeed, especially through the bass region, which is noteworthy for delivering considerable deep bass output (sub-60Hz), without an over-abundance of mid and upper bass. Indeed, in some rooms I suspect the SCM 70 could be placed quite close to a wall without excessive 'thickening', though free-space siting still looks favourite here. The broad midband decade is impressively flat and smooth, if just a little prominent in the upper octave, while the presence and lower treble are just slightly restrained.

### Sound quality

When the SCM70s arrived, I'd just spent two weeks enjoying a pair of single-driver, horn-loaded Beauhorn Virtuosos driven from a single-ended triode valve amplifier. The contrast couldn't have been greater. In driving terms it was a bit like jumping out of a dune buggy and into a tank – going from something which is all about manoeuvrability and agility, to something focused firmly on weight and power.

For the first week at least I was a very unhappy bunny, trying to come to terms with such a paradigm shift which included changing the pre and power amps as well as the speakers. There was potential here, no question, as the sound was notably clean and well balanced, but its musical communication skills were woeful.

I had a word with Nigel at The Chord Company, and a few days later a lead arrived which let me connect the (unbalanced) output of my Naim preamp directly to the speakers. Though the NAC52 isn't noted for its suitability to drive necessarily long leads, and seemed to lose a little tautness in the bass, the improvement in speed, openess and



detail at the top end was dramatic. I returned the SCA2 to its carton forthwith, and at last started to get to grips with the potential of these substantial speakers.

The top end is still lacking some sparkle, transparency and 'bite' (which I suspect has as much to do with the electronics as the speaker itself), but in every other respect this is an outstanding loudspeaker, with exceptionally low coloration and wide dynamic range. It's lovely to find a speaker which has genuine bass weight and drive without any of the boominess that usually comes with the territory, even though it takes a little while to adjust the ears to this unusual situation. Perhaps there is a slight lack of bass 'punch' here, but that's far preferable to the thickened textures and thump so often encountered in large speakers.

These monitors dissect the recordings they are fed with matter-of-fact ease. Tonality seems very accurate across all types of music, and the midrange in particular is far superior to my previous experiences of large dome drivers, due in no small part to the active drive approach, I suspect. Essentially smooth and even, it also has dynamic grip, tracking and precision the equal of anything I've heard.

There's no apparent boxiness here, and stereo images are precise and

very well focused. And of course, it goes loud. Very loud, though not stupid loud. With no audible signs of distress, or even significant change in character. The conservatively laid back top end can sound a little shut in, and may not appeal to all tastes, but it does mean the speaker can be driven to high levels without harshness, even with unhelpful recordings.

## Conclusion

A genuine monitor which will lay bare your recordings accurately and unambiguously, for good or ill, the SCM70 has the palpable effortlessness of a speaker with massive headroom reserves and exceptional bass extension. The sound is notably clean and clear with very superior dynamic range, especially through the midband, which probably has as much to do with the active drive electronics as the loudspeaker itself – but at the same time I suspect those active electronics might well be responsible for inhibiting the ultimate transparency that many audiophiles seek. I'd also welcome the inclusion of accessible 'trim tabs' (as fitted to ATC's Pro models) to fine-tune the overall balance to system and room.

## 0000000000

£10,500 Loudspeaker Technology Ltd 2 (01285) 760561

# LIVING VOICE



Auditorium



Auditorium Avatar



Auditorium Avatar OBX-R



Air Partner

Tel: 44 (0)115 973 3222 Fax: 44 (0)115 973 3666 website: www.livingvoice.co.uk email: shout@livingvoice.co.uk

## definitive audio



...land of opportunity and adventure...

We could tell you that Definitive Audio is the most highly acclaimed audio specialist in the country. Thankfully we don't have to, other people have been doing it for us.

We are regularly featured in specialist journals, underground fanzines, high circulation glossies and even the odd radio programme. The interest is flattering.

Paul Messenger described us as having "The crucial X factor that makes a good system great".

Jason Kennedy said, "Every time I visit Definitive Audio the systems sound better and better".

Alan Sircom said our £3.5k system "...breaks almost all the rules ...l have encountered few systems that sound as good as this one – at any price".

We could go on – but enough of the trumpet blowing. Our real success lies in providing an open-minded environment that is free from hype, a quality of relationship with our customers that is second to none, and an experience that is as reassuring as it is refreshing.

Our showrooms are situated in a roomy Victorian mill 1 mile from Junction 25, M1.

Please ring for appointments, general enquiries or for more information.

Part exchanged and ex-dem items	Sale	New
Hadcock Tonearm - NEW	£400	£600
Linn LP12 with Avondale PSU	£500	£1300
Nottingham Analogue Mentor	£1900	£2600
Nottingham Analogue Space Deck	£550	£800
Wilson Benesch Full Circle TT - 0.5 arm	£1500	£2000
Wilson Benesch Act1 & Act2 toneams	£550, £650	£1000, £1200
Wadia 860x Ex-Dem	£5900	£7500
Audio Innovations Series 800 Mk3	£650	£1000
Audio Innovations Series 800 Anniversary	£850	£1550
<b>Audio Innovations</b> 2 <sup>nd</sup> Audio monos. 15watt triodes.		
Come with Border Patrol PSUs	£1950	£4200
Art Audio Quintet monos	£2100	£2900
Art Audio Diavolo SE integrated – chrome/gold	£3500	£4500
Cary 300 SE1	£2300	£4000
Cary 805 805 50watt SE monos	£5000	£8500
Jadis JA80 monos – boxed, perfect	£6000	£10000
Living Voice Auditorium - black lacquer - seconds	£1100	£1500
Snell Types K (Mk1), J and E (MkII) – including stands		/£500/600
Sonus Faber Gueneri Homage	£4500	£6500

Our stock of part exchanged items is constantly changing. Most items come and go before they can be included in these monthly ads. Call for specific requirements.

## AMEX · VISA · MASTERCARD Tel 0115 973 3222 Fax 0115 973 3666

internet: www.definitiveaudio.co.uk email: shout@definitiveaudio.co.uk
Living Voice · Helios · Border Patrol · Art Audio · SJS Electroacoustics · Wadia
Vitavox · Lowther · MF · Nott'm Analogue · Western Electric · SME · Canary

Could this be the answer to all your

nome cinema and hi-fi needs?

## Two Into Five Does Go

Richard Stevenson considers Sony's entrant in the great Amplifier For All Seasons competition.

ntegrated amps have thus far come in two flavours hi-fi stereo and AV multi-channel - and, in most cases, the twain have been far from an amicable meeting. However, with home-cinema becoming as popular as hi-fi and high quality multi-channel music formats around the corner, it stands to reason that there is a future for amps that handle both well. That was certainly Sony's brief when it came to designing the TA-VA777ES.

This chunky but rather fetching £1,500 integrated design effectively pairs a high-end, wide bandwidth (10Hz-100kHz) analogue preamp design with the very latest word in digital signal processing and five discrete 100 Watt amplifier channels. Inside is a no-compromise mix of top quality components, such as individual DSP chips and dual pellet transistors, and outside is a vibration resistant chassis with a lustrous gold finish and rather trendy motorised flap.

The trick in successfully merging stereo and digital multi-channel performance is in not letting the two sections interfere with each

other. As such, the internal design of the TA-VA777ES is about as divorced as it can get without using two separate boxes.

There is even an 'analogue direct' button that completely shuts down all of the digital and video processing functions to avoid interference with the hi-fi circuits.

Even as the volume increases to heroic levels there is a supremely neutral balance across the entire audio spectrum.

The remote control is the key to this amp's operation, being a twoway, touch-screen LCD device. Not only does it send commands to the VA777ES, it receives info in terms of set-up, volume and state of play. This effectively removes the need to generate an on-screen display for AV operation - a circuit that Sony has long believed to be detrimental to sound quality. It's a sexy remote no question, but quite why it is dull old grey when the amp is champagne gold is a mystery.

Complex does not even begin to describe the AV side of the VA777ES. The digital electronics themselves are a work of art and offer the sort of fine adjustments that would not disgrace an AV mixing studio. The multi-layer menus on the remote control seem to go on forever and every imaginable parameter of the surround sound set-up can be adjusted. Establishing even a rudimentary level installation takes quite a while and to finely tune the system, several hours - if not days - of tweaking is required. On the other hand, for stereo music you can simply switch it on, press the 'analogue direct' button and enjoy. Phew!

#### **SOUND QUALITY**

It takes only a few bars of the first CD to realise the TA-VA777ES is a bit special. In the analogue direct mode there is a presence to music that eludes many dedicated analogue amplifiers and just about all of the integrated AV variety.

With more up-tempo music the bass is tight and detailed making each instrument and each note a distinct entity rather than the over-zealous bottom end blur that many multi-channel amps produce. Even as the volume increases to heroic levels there is a supremely neutral balance across the entire audio spectrum; the soundstage simply getting bigger and better defined.

This polished and analytical presentation could so easily ring the death knell of a multi-channel film soundtrack by robbing it of warmth and fun - but not so. Once the DSP and video circuits are engaged, the TA-VA777ES turns in an equally spectacular surround sound performance. The dynamic scale is something to behold and the detailed, precision placement of effects is really quite eerie. It scared the hell out of me watching *The Sixth Sense*, I can tell you.

If it has sonic flaws, they are minor. It perhaps lacks the grace and relaxed poise of a big pre/power combination and this gives the impression that it is working hard all the time. This is easy enough to forget,

though, as you become enthralled in the beautiful midrange and almost physical presence.

## Conclusion

Sony claims that the TA-VA777ES is its best integrated AV amp to date, and it's difficult to disagree. With normal stereo music, it has all the right ingredients to keep you exploring your CD collection through the night.

Put on a DVD and it's exactly the same story with surround sound - be it subtle drama or explosive home-cinema action.

Every now and then a product comes along that takes your breath away and moves the goal posts, and the TA-VA777ES is just such a product. AV convergence is upon us but, as long as products of this calibre emerge on the scene, the future looks bright for home-cinema and music fans alike.

**000000000000** 

£1,500.00 Sony UK Ltd 2 (0990) 111999

# Temper fidelis

Paul Messenger examines the latest incarnation of a very unusual record player.

surprising number of top quality vinyl turntables have continued to thrive in this digital age. Many follow well trodden paths, applying high quality engineering to established design stereotypes. A few are more adventurous, but none travels down the trail of unorthodoxy anything like as far as the Well Tempered models.

This is not a new design in concept terms. American enthusiast Bill Firebaugh first put his Well Tempered ideas into practice back in the mid-80s. Plenty of changes have gone on since then, and current production – now carried out by the Transparent cable people – has undergone extensive development for improved refinement and consis-

tency. This particular Well Tempered is the Reference, a relatively recently introduced top-of-the-liner which represents the current state of the Well Tempered art, and costs around £5,500. Don't despair or stop reading, though, because there are two less expensive WTs: the £1,995 Record Player and the £3,500 Classic V. (There's a measure of upgradeability in the range too.)

As seems to be the way with American turntables, this is a large and very heavy piece of apparatus, sufficiently so as to discourage me from moving it around once it was planted. Received wisdom is that it works best on a large and massively built wooden support cabinet, and Pear Audio lent just such a unit for the review. The reason for the considerable weight is that the 480x80x350mm plinth is made from granite particles held in an epoxy matrix. It's actually a sandwich construction, made up of four separate slabs, each 20mm thick, with thin layers of damping material providing the 'filling'. The finish is very good, and the polished charcoal grey 'fleck' looks suitably classy.

The plinth acts as the mechanical earth for the platter and arm base, but the motor is a separate standalone unit that remains isolated from the plinth. It sits inside a cut-out in the plinth, so that the drive

pulley (and on/off switch) are just outside the platter edge. There's the obvious advantage of avoiding any vibrations from the very substantial motor being fed directly into the plinth (though some may be transmitted via the support shelf, and some also through the belt into the platter). I must admit, however, that I'm

slightly concerned that such an arrangement doesn't precisely define the position of the drive pulley, and hence presumably the belt tension.

The most extraordinary part of this record player must be the tonearm, simply because it doesn't use bearings. The arm tube is actually suspended from a gantry by a couple of filaments (fishing line, I believe), but it isn't simply allowed to hang free. Below the arm tube is a 'paddle' which sits inside a bath of sticky (i.e. high viscosity) silicone fluid. The result is effectively a 'bearing' which is free of play, 'chatter' and (strictly speaking) friction, but which also imposes a very heavy amount of damping to any arm movement.

Fluid damping is effectively frequency-selective friction. Simplistically, the idea is to keep the arm 'stationary' at all audio frequencies (so that the stylus and cantilever trace the groove accurately), and at some subsonic frequencies (to control the fundamental arm/cartridge resonance), while also permitting movement at very low frequencies (i.e. sub-10Hz) so the whole arm/cartridge can follow the inevitable vertical warps and lateral 'swingers' endemic in vinyl pressings, without inducing cantilever motion and hence signal output from these unwanted effects

This tonearm looks a little intimidating and complex, but that's really just a function of its considerable flexibility. The ability to adjust all the geometrics (including azimuth), and 'dial in' variable damping should enable

maximum performance to be extracted from any given cartridge, given a little atience.

Once set up, it's a delight to use, as the damping provides a positive 'feel' and obviates the need for a separate cue. Just release the arm a little ahead of the spot you want, and it drops gently down, drifting backwards a little due the bias compensating torque thoughtfully provided by a twist between the two filaments. A further bonus of the damping is that the arm is totally immune from external shock. Thump the support table with your fist and you'll get a very slight reaction, but it stays in the groove, no problem.

The turntable bearing is as bizarre as the tonearm's. The shaft attached to the platter runs in a silicon bath, and is located and supported by five Teflon points – one underneath and two pairs set at right angles to each other, in contact with the sides of the shaft. The lower pair are on the opposite side from the motor, the upper pair on the same side. Fit the belt around the platter and drive pulley, and this pulls the shaft into contact with both the opposing pairs. Once again, there's no bearing play or chatter, even though it's a little alarming to





find the platter apt to 'fall over' while you're changing the record.

Damping is a common theme throughout this record player, and extends into the platter itself. This has a slightly concave plastic surface, and is used with a hefty screw-down clamp, so the disc is damped by close contact with the platter, while the underside of the platter has a captive fluid damping layer. The drive has a twin stepped pulley, providing both 33 and 45rpm, while the belt is given a half-twist between platter and drive belt, apparently to reduce any 'stiction' as the belt peels off the platter edge.

#### **SOUND QUALITY**

Pear Audio let me hang on to this turntable for a couple of months, which was long enough to overcome initial unfamiliarity with a qualitatively very different kind of vinyl

replay, and - rather to my surprise – sufficient time

to get me firmly addicted to the WT way of doing things. PA also fitted it

with the rather wonderful Dynavector XV-1 cartridge, which proved a fine sonic match much better suited to this record player than the Linn Arkiv B which I use in my Linn/Naim vinyl spinner. (Perhaps the Well Tempered prefers lightly to heavily damped cartridges?)

I was initially rather underwhelmed by this record player. It sounded exceptionally clean and controlled - but maybe a little too controlled, as the sound seemed a bit constrained in the extreme bass and treble, and the music a little short of 'bounce' and 'life'. That character persists, but I've come to regard it as at least as much of a strength as a weakness, while I've steadily grown to appreciate other important subtleties in the WT's performance.

It actually makes vinyl sound remarkably unlike vinyl, inasmuch as it seems to 'clean up' the signals from the cartridge to a remarkable degree, right across the audio band. The result is certainly more CD-like in terms of balance and coloration levels, but still retains vinyl's magic. In a very real sense, I'm reminded of mastertape reproduction, so clean

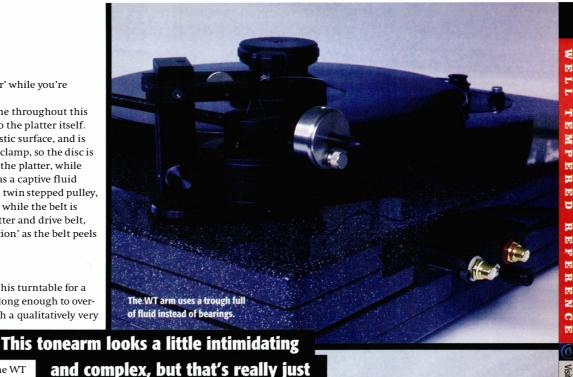
and finely etched are individual voices and instruments, so free is this turntable from the usual colorations and 'character' of vinyl replay.

It has a remarkable ability to make 'difficult' voices and lyrics intelligible, and to distinguish between multi-tracked vocal harmonies. More telling still is the way this turntable seems to highlight the contrasts between different recordings. I started going through the back catalogue of several favourite artists, and was amazed at how different each album sounded, and how easy it was to hear the characters of the different studios and equipment. Just compare Captain Beefheart's dreadfully recorded Spotlight Kid (1971) with his next release, the marvellous Clear Spot (1972) (both on Reprise).

#### CONCLUSIONS

Although the Well Tempered Reference flies firmly in the face of my preconceptions about record player design, the bottom line is that its superb mechanical stability and sheer unflappability make it a delight to use and a joy to listen to. Measurements confirm that the 'super damping' approach does indeed 'remove' the subsonic arm/cartridge resonance, and this in turn leads to a very distinctive quality of vinyl replay - one which seems every bit as valid as more conventional alternatives. The sound might be a little over-damped for some tastes, but I find it hard to imagine a turntable which gives cleaner reproduction, or which tells you more about how your recordings were made.

**00000000000** £5,500 Pear Audio 2 (01665) 830862





## **DAMPING DILEMMAS**

A major inspiration behind the Well Tempered tonearm design came from a very interesting lecture/paper which B&K's Poul Ladegaard delivered to the London AES in 1977 (which, coincidentally, I attended), on the subject of very low frequency intermodulation distortion in record players\*.

In the typical turntable/arm/cartridge combo, the latter's cantilever is a spring (compliance) which supports the effective mass (inertia) of the cartridge and arm. All such mass/compliance systems have a natural frequency, known as the fundamental resonance, around which even modest energy input creates considerable mechanical excitation. To minimise this effect, the compliance and masses of quality record players are usually chosen to place this resonance between 10Hz and 15Hz - below the audio band, but above the typical frequency

However, Ladegaard's measurements indicated that this fundamental resonance tends to be in a permanent state of excitation even in a well chosen arm/cartridge combination, which in turn has a pernicious influence on signals, blurring their precision right up through the audio band.

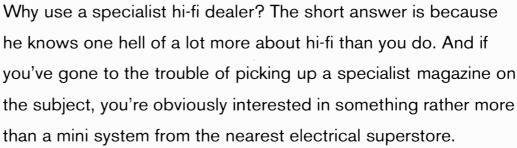
The aim of the Well Tempered arm is to critically damp, and hence effectively remove, the effects of this fundamental resonance. The Townshend Rock with its headshell-damping trough is an alternative approach to achieving a similar end, but the arguments about the best way to apply tonearm damping - and indeed whether one should rely instead on internal cartridge damping – are much too long and complex for further examination here.

\*Poul Ladegaard: The Audible Effects of Mechanical Resonances in Turntables, AES 1977



# Five Stars

Paul Messenger explains why you should visit an independent



You've probably bought this magazine for one of two reasons. You're looking for advice (presumably unbiased and good) on choosing and using your hi-fi system, and/or you're checking out the ads to decide where to go and buy it.

The independent specialist dealer doesn't know everything, and he doesn't know much about you, but if music's an important part of your life, he's the only guy around who's able (and hopefully willing) to help you choose the equipment which will give you the best long term satisfaction.

## **Power of the Press**

Dealers sometimes moan to me about the power of the press, and the disproportionate influence of its 'Best Buy' and multi-star ratings. Well, I've been in the press for twentysomething years, and still feel more ignorant than powerful.

The more I mess around with hi-fi gear, the more I become aware of our lack of real understanding of the subtleties involved, and the more I appreciate the importance of the dealer's skills and experience, in bringing together components so that the whole is greater than the sum of its parts.

We hacks get paid to write words, often about components in isolation, because individual product reviews are still the staple diet of the press. They can sometimes provide a useful guide to the way a product performs, but only under the particular circumstances in which the review was conducted.

The hi-fi reviewer attempts, with varying degrees of success, to evaluate a particular component, and find something interesting (and

hopefully positive) to say about it. That's about the end of it, and it's on to the next product.

The magazine prints the review, and that very process magically confers a measure of authority. Experienced hi-fi enthusiasts, who read reviews over a period of years and try out various products themselves, soon start to realise the limitations of that approach. Some reviews are better than others, but none can get to grips with the real heart of the problem - whether a given product will improve your musical satisfaction, in your system and your room.

## The Role of the Dealer

The dealer's role is very different, and potentially much more valuable. He has the chance to talk one-on-one. If he's good at his job, he'll use that opportunity to find out what you as an individual are looking (or listening) for.

His motivation is very different too. Sure he wants to make a sale. That's the lifeblood of any shop. But he also knows that if something he sells really does deliver long term satisfaction, there's a very good chance you'll come back again to see if he can repeat the trick some time in the future.

If you go into a shop and demand a particular CD player, on the basis that it got seven stars (out of five) in last month's magazines, the shop will probably simply take the line of least resistance and sell it to you. (Or switch-sell you to a similar price alternative, if he's fresh out of stock of that particular flavour-of-the-month.)

If you go in and say you're looking for a CD player, and want his advice on what to choose, things are liable to become more interesting. The



## specialist dealer if you are searching for real hi-fi satisfaction

onus is now on the dealer to show what he can do. His first task is to ask the right questions to try and get some idea of what you might be after.

Asking the questions is the easy bit. The real skill comes in using the information to come up with a shortlist of likely contenders, and then conducting a demonstration so that you have a real chance to play a central role in the decision making process.

Putting together a successful hi-fi system might not be as difficult as it was twenty or thirty years ago, but it's just as easy to make a mess of things. Put the 'wrong' combination of components together and it'll still sound a lot better than any cute little mini system package. It might even

"If music is an essential ingredient in your daily diet, you owe it to yourself to become a member of the discriminating minority."

rate a five star review. But it won't match the potential of a carefully balanced and properly installed system, and it certainly won't cater for your own particular preferences and personality.

We British are notoriously undiscriminating consumers, at a mass market level at least. The majority of the population don't even bother to drive a car they're thinking of buying, never mind take the trouble to listen to hi-fi equipment.

The majority will therefore end up with hyperstore mediocrity, and hi-fi that's about as tasty as supermarket bread. But if music is an essential ingredient in your daily diet, you owe it to yourself to become a member of the discriminating minority.

You know full well that your music collection is as individual as your wardrobe, and just as precious too, so it's worth taking the time and trouble to search out the dealer and equipment

that will make that collection come alive, and give you a new buzz every time you play your favourite discs.

The independent specialist may not beat the chain store on price, but he continues to thrive in a hostile environment because real hi-fi is so much more than a matter of price. The people who work in these shops are themselves enthusiasts, often with many years of experience in meeting customer's needs, and the very necessary expertise to ensure that the whole thing is properly set up to deliver the best results.

The better the hi-fi, the more important it is to get the fine details right at the installation end of things, but even the least expensive equipment can be made to sound a whole lot better if good care is taken over the fine details - the support furniture, the cabling, the positioning of speakers and so on.

Without expert assistance even high class hi-fi can give mediocre results. With it you'll stand a very good chance of ending up with something rather more than a consumer durable - something which will be a source of considerable pleasure and genuine emotional satisfaction for decades to come.

I agreed to write this signed piece, irrespective of the specific sponsors, because I believe the independent specialist dealer plays a vital role in giving customers long term hi-fi satisfaction. The views and opinions expressed here are my own and not necessarily those of Hi-fi Choice.

## Paul Messenger

The specialist Dealers listed here are professional and enthusiastic. Give your nearest a ring for a demonstration.

## **STAR QUALITIES**

value for money service facilities verdict



## **TOP 20 UK SPECIALIST** HI-FI DEALERS

## **LONDON**

N1 GRAHAMS HI-FI

190a New North Road 020 7226 5500

**SW11 ORANGES & LEMONS** 

61/63 Webbs Road, Battersea 020 7924 2040

W4 MARTIN-KLEISER Ltd

109 Chiswick High Road 020 8400 5555

**SOUNDCRAFT HI-FI** 40 High Street

01233 624441

Chelmsford RAYLEIGH HI-FI 216 Moulsham Street 01245 265245

**East Grinstead AUDIO DESIGNS** 

26 High Street

01342 314569

Kingston-upon-Thames INFIDELITY

9 High Street Hampton Wick 020 8943 3530

Lakeside Retail Park

**RAYLEIGH HI-FI** 

Dansk International Furniture World 01708 680551

Rayleigh, Esse

**RAYLEIGH HI-FI** 

44a High Street 01268 779762

Southend-on-Sea

**RAYLEIGH HI-FI** 132/4 London Road

01702 435255

**Uxbridge UXBRIDGE AUDIO** 278 High Street,

01895 465444

## **MIDLANDS Banbury OVERTURE**

3 Church Lane 01295 272158

**Birmingham SOUND ACADEMY** 

152a High Street, Bloxwich 01922 493499

**Leicester CYMBIOSIS** 

6 Hotel Street 0116 262 3754

**Northampton LISTEN INN** 32 Gold Street, 01604 637871

Shrewsbur

**CREATIVE AUDIO** 

9 Dogpole 01743 241924

Cheadle (Stockport)

**AUDIO COUNSEL** 

14 Stockport Road 0161 428 7887

**Oldham AUDIO COUNSEL** 

12/14 Shaw Road 0161 633 2602

**Sheffield MOORGATE** 

**ACOUSTICS** 

184 Fitzwilliam St 0114 275 6048

SCOTLAND

**RUSS ANDREWS HI-FI** 34 Northumberland Street

0131 557 1672 **Glasgow STEREO STEREO** 

260 St. Vincent Street 0141 248 4079

# Free Classic Movies Themes CD



With the new issue of Total Film On Sale Now!

# Amps

Richard Black considers the factors that are really important when you want to find a great budget integrated amplifier.

here not much of the hi-fi market that isn't hotly contested at the moment, but no area is quite as tough as budget amps. 'Budget' means different things to different people, of course, but on the whole I think it can fairly apply to the amps

THE CAST LIST

Cyrus Integrated 5 £500.00

Kenwood KAF-3030 £250.00

Marantz PM7000 £299.90

Roksan KA-1 £475.00

Rotel RA-972 £450.00

Sony TA-FB740R £200.00

presented in this review, which range from £200 to

£500. A mere six of them is a small sample, but it's one that covers many bases and (not wishing to give away too much of the plot in advance!) includes no duffers and plenty of talent to admire.

One of the aspects of amplifiers that often confuses hi-fi newcomers is the way the number of features decreases as price rises. If you get tone and balance controls, switching of two sets of speakers, built-in phono stage etc, in a £200 amp, why on earth not in a dearer one? What's more, the rated power may be about the same and in all probability any other published specifications will be pretty similar too. How do they justify that?

The simple answer is that the published specs of an amplifier are only a very sketchy outline of its performance – a bit like specifying a car in terms of its length and number of doors only, on which basis a Porsche 911 would look less impressive than a budget Daewoo. But it remains true that the essential differences between amplifiers are rather more intangible than those between cars or other common consumer appliances. Although it is possible to get a pretty fair impression of how an amp will sound from measurements, you would need a large list of those measurements to be able to compare them in detail – and in context with a set of references which only experience can provide. Which is why, in essence, comparing amplifiers by listening is generally the quickest and most reliable way of assessing them – whether you're a hi-fi nerd like me with a laboratory in the spare bedroom, or simply a music-lover saving up for a first 'real' hi-fi.

And the lack of features on the more expensive models? That's largely because people realised a few years ago that on balance things like tone controls do more harm than good – more bits of electronics in the way of the signal, which in practice many folks hardly ever use. A few of the fancier amps do offer them and they don't really cost all that much to include, but they're often perceived as an active turn-off.

As for the listening itself, the real difference between a good amplifier and a bad one since even the bad ones these days handle the absolute basics like frequency response perfectly well – is that the good one will allow you to hear more of the music with less effort. Any dealer should be able to demonstrate the improvements brought about by better amplification, and I suggest that by far the most important is the ability to lose oneself in a performance – or indeed, the fact that one can't help but be drawn in.

#### Hints and tips

Even with modestly priced amps, it's well worth scraping together a couple of tenners for some decent interconnects, if only for your main source. Likewise speaker cable.

Most integrated amps don't run very hot at idle, but it's still not wise to leave ventilation holes covered up. And don't push an amp too hard against a rear wall – phono plugs and sockets won't take much abuse. Amplifiers are typically the least microphonic components in a system, but it's still worth keeping them reasonably clear of speakers: don't make them share a shelf if you can help it. They do tend to generate some stray hum field, so keep them away from sensitive components like LP decks and cassette decks.

## How the tests were done

According to my usual practice, I gave each amp a fairly long session on its own (a couple of hours at least) before performing some informal random comparisons. There was also a rather more formal rapid-fire session with only a couple of minutes per amp, changing over as fast as possi-

ble. Partnering equipment included ATC SCM20 speakers (principally) and also Quad electrostatics and JBL LX20s, plus Rotel RCD971 CD player, Pink Triangle/SME/Highphonic LP deck and Revox FM tuner. I tend to stick with quite a small selection of very familiar recordings most of the time.



CLASS A: Operation of an amplifying stage or device in which current always flows, as opposed to Class B, where some of the devices are effectively turned off some of the time. Class A tends to give lower distortion. Most practical amps operate in Class AB: Class A for the first fraction of a watt and Class B thereafter

LINE-LEVEL: practically every modern source component (except phono cartridges) give an output in the region of 1-2V, commonly referred to as 'line level'. It follows that all inputs labelled 'CD', 'tuner', 'aux' or 'tape' are usually interchangeable. Watts (per channel); the watt is the unit of electrical power and, honestly quoted (which it usually is these days), the WPC rating is the maximum average undistorted power that an amp can deliver to a typical speaker. However, differences in speaker sensitivity between models can more than make up for differences in amplifier output in many cases.

TRANSISTOR/MOSFET: the two main types of power semiconductor used in amplifier output stages.

Differences are subtle and much argued over!

## **MUSIC USED**

Philadelphia Orch./Sawallisch – *Nature's Realm* (Water Lily)
Donald Byrd – *A New Perspective* (Blue Note)
José Antonio Guzmán – *Ambrosio* (Sonora)
Ibrahim Ferrer: *Buena Vista Social Club presents Ibrahim Ferrer* (World Circuit)

## **CYRUS** 5

yrus has made good use of its trademark casework design, and quite rightly. It's an ingenious 'one size fits all' metal casting, incorporating various internal fixing points and the heatsinks, and it's about as small as is plausibly possible for the job in hand. So small is it that the back panel layout has arguably suffered somewhat in terms of accessibility - ten sets of phono sockets and biwiring speaker terminals on a panel not quite eight inches wide makes for tiny labelling and awkward cable removal. But it's a small price to pay for the elegance of the unit.

Despite the small size and light weight of this unit, rated output power is a useful 40 Watts per channel (more than adequately met in practice). Basic features already look quite attractive, with seven line inputs and tape and preamp out, but there's more... With the aid of the remote, the volume control can become a balance control and can also be programmed with different basic gain settings for each input. This is useful if you find, for example, that your CD player blasts you away when you switch over from a perfectly acceptable level on the tuner without adjusting the volume control. All that is possible thanks to the electronic volume control employed, which

In addition, there are various upgrade paths available, including bi-amping and having the 5 upgraded to a Cyrus 7 at the factory, for little more than the initial difference in cost between the two units. After that you can add a PSX-R external power supply. The possibilities are nearly endless.

gives accurate 1dB steps

at all levels

and excellent channel tracking

Construction and attention to detail are up to Cyrus' usual high standards. The electronic volume control limits input level handling, but it's high enough, at 4.5V, not to be a real problem. Much of the electronics is composed of surfacemount components and thus that's all pretty compact, and there's next to no loose signal wiring. Quite intelligent protection circuits shut the unit down if overloads or other fault conditions are detected. Speaker

outputs are on the new 'BFA' connectors: a set of suitable plugs is supplied with the amp.

## **SOUND QUALITY**

There are certainly aspects to admire in this amp's performance, but overall it never quite managed to produce a completely transparent window on a musical performance. The good points include a neutral tonal balance with a very comfortable bass, which doesn't obtrude but confidently underpins the music when required, and sweet, undistorted treble. Those characteristics suit light music well a bit of Mantovani or Tony Bennett in the background. But they can't quite offset the slightly thick and opaque

such as a Mahler symphony or wellproduced rock or country. It's quite a hard thing to pinpoint, but there is a rather consistent veiling of subtle details in pretty much any

amp is dealing

"It never seems to become stressed or coarse, right up to the

point where it runs out of power."

kind of music. This has various knock-on effects, including somewhat limited stereo image depth and climaxes which are a bit flat dynamically. It's not enough of an effect to make detail completely unrecoverable, but one has to listen that little bit harder to be sure exactly what instruments are playing or what the lyrics to a song might be, and that can be tiring.

Then again, if you're not such a detail freak all this might matter a good deal less. In that case, the amp's impeccable manners will please – it never seems to become stressed or coarse, right up to the point where it runs out of power. It does that quite abruptly, but at least you know where you stand and 40odd clean watts translates to quite vigorous performance even into the relatively inefficient ATC speakers used for most of the auditioning.

## CONCLUSION

There's no denying that this amp, especially as part of a complete Cyrus system, is in many ways a most appealing proposition. Its sonic flaws are likely to be something of a matter of opinion and it's worth giving it a spin. Taking the excellent flexibility and good construction into account, it just



## **SPECIFICATIONS**

- Inputs: 7 line-level
- Outputs: Preamp, 1 tape, 2 speakers (biwire), headphones
- Power into 8 Ohms: 45W



## **KENWOOD** KAF-3030R

n HFC 203, Paul Miller waxed more than a little lyrical about this amp, and he's a hard man to please. So, what's the deal? The only remarkable bit of technology that Kenwood advertises here is 'TRAIT' - Thermally Reactive Advanced Instantaneous Transistor – a syntax-defying mouthful that actually refers to a neat trick that should have been done years ago. Instead of using the usual output transistors and associated biasing circuits, Kenwood has produced its own devices which integrate thermal and current sensing elements into the same package as the output transistor proper. This tidies up both circuitry and performance and is clearly 'A Good Thing'. That apart, this amp follows the

current trend (as also exemplified by the Rotel and Sony amps in this survey) for enhanced bandwidth to complement the new digital audio formats, coupled with low distortion and noise. There was an infamous period in the 70s and 80s when many manufacturers aimed for low 'spec-sheet distortion' but achieved pretty nasty sound. It's important to realise that current thinking is a good deal more sophisticated. regarding

distortion as

should be minimised at all

something that

levels and frequencies

other than just 1kHz and

full rated power, as was once

that distortion is desirable, so intelligent steps to reduce it should

the way. Few would seriously claim

be welcomed. The construction of this amp is absolutely typical in its class decent enough components, but nothing tweaky. Most of the audio circuitry uses discrete transistors, though there are a few ICs in evidence including, apparently, the source selector. Such devices can have drawbacks including limited input headroom, but the inputs here will handle more volts than I've ever seen from any domestic source component. If you're really worried you can use the 'Advanced DA/CD' input and hit the 'Direct' switch, which as well as bypassing the tone

controls also bypasses the selector IC. For other inputs, the 'Source Direct' button merely avoids the tone and balance controls. At the rear are two tape outputs and system remote control connectors. The unit is optionally available in black.

## **SOUND QUALITY**

Let's get the bad news out of the way first: the phono stage is grainy and lacking detail and could seriously justify some upgrading for anyone intending to listen to vinyl a lot. Otherwise this amp is really rather lovely. Its best feature must be its clarity, which is about as good as I

every sense of the word, performance is very fine indeed. The tonal character of instruments is faithfully preserved, textures are easy to follow and (if you want to) dissect, and imaging is generally good too (a little compromised in depth, perhaps, but really top performance in that department is generally the preserve of the high end).

VOLUME CONTRO

can recall hearing

around this

price. In

in an amp

"Its best feature must be its clarity, which is about as good as I

can recall hearing in an amp around this price."

Just occasionally there's a suspicion of some slight tonal coloration in the upper bass, which subtly warms up sounds like male vocals or cellos, but it's slight and hardly likely to be a problem. The treble, however, is really very sweet and open at any level. At low playback levels one can still hear the inflections in a singer's voice, while at high levels there's little or no crunching or loss of precision in an orchestral tutti or a bit of rabid rock 'n' roll drumming.

In ultimate terms, resolution of detail is still good and, as a result, long term listening is stress-free and relaxed. The only area where it seems to fall down slightly is with complex, high-frequency-rich sounds such as orchestral violins, which develop just a touch of artificial sheen, robbing them of some immediacy. Even so, that's a very common failing and one that you'll probably not avoid completely in any direct competitor to this amp.

## CONCLUSION

Full marks to Kenwood for this particularly well judged amp. It's got an excellent spread of virtues and a very small collection of vices - all of them minor – and should suit many listeners in many situations very well. Best Buy.



SOUND BUILD 00000 VALUE PRICE £249.95 Highly capable amp with particularly

good treble, good bass and fine detail.

#### **■ TWO YEAR GUARANTEE**

M Kenwood Electronics UK Ltd, Kenwood House, Dwight Road, Watford, Herts, WD1 8EB. **2** (01923) 816444

## SPECIFICATIONS

- Inputs: 5 line-level, phono (MM)
- Outputs: 2 tape, 2 speakers (switched), headphones
- Power into 8 Ohms: 65W

## **MARANTZ** PM7000

ig integrated amps never went away, although they were admittedly in decline for a while. The rise of home cinema has brought them back, though, and companies like Marantz have obviously taken courage and reintroduced them in straight stereo form like this beast. I suspect few would describe it as beautiful (and I'd personally prefer the alternative gold finish) but it's at least tasteful and well laid out for easy use. Facilities are sensibly pitched: six line-level inputs plus MM phono, two tape/CD-R outputs and a 'processor' loop. Tone and balance controls can be bypassed with the 'source direct' button, which rather confusingly also disables the tape outputs.

Principally driven, no doubt, by the need to make everything remotely controllable, all switching is done by relays, which at least means internal signal paths are reasonably straightforward. The volume control uses a motorised potentiometer. Audio circuitry looks typical of the breed, though some critical bits are enclosed in shielding cans which also keep out a reviewer's prying eyes. Two pairs of output transistors per channel, mounted on large internal heatsinks, allow safe operation to well in excess of the rated 95 Watts per channel: I obtained more like 115

## SOUND QUALITY

115 Watts is a fair chunk of power for the money, and headbangers will be pleased to hear that the PM7000 positively delights in delivering all of 'em. No, it hasn't the sophistication that you'd expect from a product at three times the price, but it can get down and dance with abandon. Anything that's more to do with visceral energy than subtle shades of musical colour is fair game, and I had equal fun with Pink Floyd, The Mayericks and some of Shostakovich's more ebullient creations. Of course there are other amps around that are even more powerful, but this one just seems to ask to be played loud.

Part of the reason for that, you may have guessed, is that it's not so convincing at lower levels. In fact it seems to sound less loud than other amps when the meter suggests it should be at the same level. And

that in turn is largely due to the way it slightly muffles detail, making you want to turn it up to hear what's going on. I'll try a visual analogy: some amps seem to smudge detail, like a deliberately soft focus photo, but this one is more like a very grainy print, with a harder texture but the same end result – you can't quite discern everything, however hard you squint.

the effect isn't so very great and I've certainly heard worse at higher prices. It's also offset, some of the time, by a small degree of upper-

marantz "One of the toughest tests I tried, high orchestral violins, was actually very successful with a low 'shriek factor'." bass coloration touch dull dynamically. which warms CONCLUSION things up a bit at best and at worst does little to distract. Ultimate bass extension is not vast but

This amp may well appeal to some simply for raw power at a price, but I'd argue that Marantz has been a bit over ambitious on that front and other models – perhaps even Marantz's own – can offer generally better sound, with just a little less grunt, at a similar price.

**VERDICT** 

#### SOUND 00000 BUILD VALUE 00000 PRICE £299.90 Lots of power for a very modest price, but detail and subtlety seem to have been sacrificed. **■ TWO YEAR GUARANTEE** Marantz Hi-Fi UK Ltd, Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middx. UB7 0EH.

## **SPECIFICATIONS**

- Inputs: 6 line-level, phono (MM), processor loop
- Outputs: 2 tape, 2 speaker (switched), headphones
- Power into 8 Ohms: 115W

That sounds a bit damning, but

violins, was actually very successful with a low 'shriek factor'. The phono stage, which appears to be pretty much typical of its kind, does a typical job - fairly quiet and tonally neutral, but more than a

pretty much

adequate, and

usually neutral with

some occasional mild

'presence' boost on

bright instruments like trum-

pet. In fact after a few minutes of

listening the balance issues tend to

disappear from the picture – a clear

For the rest, imaging is quite clear

(if a little ping-pong) laterally but less

good in the depth direction, and the

ambience on naturalistic recordings

tends to die a little fast. Solo voices.

particularly operatic ones, can be a

toughest tests I tried, high orchestral

bit inexpressive: but one of the

sign that they're not serious.

the treble is

## **ROKSAN** Kandy KA-1

art of a matching range of Kandy separates, this modest-looking amp is actually something of a powerhouse, with 110 Watts on tap according to the book (even more in practice). Fit and finish are excellent, as is Roksan's custom, but the construction is basically quite modest and simple: money has evidently been spent on the important bits. Most obvious on opening the case is a monster toroidal transformer, a clear sign that some serious power delivery is intended. That's backed up by the twin pairs of MOSFET output devices per channel, mounted on large internal heatsinks.

The circuitry actually looks fairly straightforward and uncomplicated, with discrete transistors in the power amp section and a few op-amps elsewhere. Input switching is all handled by relays and the volume control is motorised. Thoughtfully, Roksan has provided a 'mute' function which, rather than killing the sound altogether, simply cuts the level by 20dB so that one can easily answer the phone

or whatever without forgetting

that the music

is still playing. Of the seven inputs available, one is switchable to work as either line or phono (MM). which is a neat compromise. There's also a buffered output (before the volume control, strangely) which is normally linked to a 'preamp input'. The manual doesn't make the purpose of this arrangement very clear. However, operation is convenient and the protection works nicely – it saved my bacon once in what might have been a nasty lab accident! The review sample had some parasitic oscillation at the 'pre amp input', which I cured with a couple of external components before reauditioning

#### Roksan is looking into it. **SOUND QUALITY**

To be realistic, one doesn't expect an amplifier at this price to be completely unblemished. The key is to make the blemishes relatively insignificant to a majority of listeners,

the amp: it didn't seem to make any

vast difference to the sound, but

and I suspect Roksan has been quite successful in this. The blemishes in fact consist largely of a slight lack of bass extension and a small degree of 'dryness' in the sound. The former is in any case offset by the KA-1's very good control of bass, which with many speakers on the market will probably make for a good end result. Judicious choice of speaker cables may help too.

As for the dryness, it manifests principally as a lack of resonance on acoustic instruments both high and low in pitch, making plucked double bass sound slightly damped and speeding the decay of small percussion instruments. It has just

on solo vocals. reducing the immediacy of the emotion by a barely perceptible shade. On the plus side. though, there is good detail available across the board and particularly admirable stereo imaging, with creditable depth – always a tricky area. Dynamics are natural and free-flowing, and with all that power on tap it's good to find that the sound stays clean and even up to the peak of a climax: just occasionally I thought I detected some hardening of the tone in fullblooded opera choruses and similar material. Orchestral violins sound as sweet as with any of the amps here. and at the other end of the musical spectrum there's plenty of energy available for a bit of techno or rock 'n' roll. The power is always delivered with refinement, though, and the amp's also perfectly happy playing string quartets at low levels.

the smallest effect

"With all that power on tap it's good to find that the sound stays

clean and even up to the peak of a climax."

The phono stage fared slightly less well: it lacks the detail and insight of the rest of the amp but then Roksan (which after all started as a turntable manufacturer) at least offers the higher quality Artaxerxes add-on phono stage.

RECOMMENDED

#### CONCLUSION

The technical performance of this amp is interesting, with distortion which hovers around a low but not vanishing level over a wide range of frequency and output level.

Output impedance is slightly higher than average at high frequencies, which might lead to just-noticeable dullness with a few speakers. None of that is worrying, though, and the overall sonic performance certainly seems to warrant Recommendation.



SOUND BUILD 00000 VALUE PRICE £475.00

Something of an iron fist in a velvet glove: power with control, barely compromised by a small degree of dryness.

#### **■ TWO YEAR GUARANTEE**

Marksan Audio Ltd, Unit 6, Northfield Industrial Estate, Beresford Avenue, Alperton, Middlesex, HAO 1NW.

#### **SPECIFICATIONS**

- Inputs: 6 line-level, one line-level/phono (MM)
- Outputs: 1 speaker, headphones
- Power into 8 Ohms: 120W

# Bought a Box?

(and wished you hadn't?)



# Make sure that the next piece of equipment you buy is just right for you ... benefit from our FREE, IMPARTIAL ADVICE!

Is your existing home entertainment retailer giving sufficient guidance and advice? Some stores will only give you part of the story; at Practical Hi-Fi we give you the full picture and the benefit of our considerable expertise. Also, we explain things in Plain English; Practical Hi-Fi is a Jargon Free Zone! If high technology gives you high anxiety, we cut it down to size.

## Practical Hi-Fi

- ABSOLUTELY IMPARTIAL ► GUIDANCE
- EXCELLENT RANGE OF EQUIPMENT
- SPECIALISTS IN HOME CINEMA
- DEMONSTRATION ROOMS IN ALL SHOPS

- PART EXCHANGES ARE ► WELCOME
  - **DELIVERY AND** ĬŇŠŤAĽĽÁŤIÖŇ SERVICE
- UP TO THREE YEARS WARRANTY
- INTEREST-FREE CREDIT FACILITIES\*

\*Subject to Status - On Selected Items. Written quotation available on request

## ...all this, AND AT THE RIGHT PRICE!

- MANCHESTER: 65 Bridge Street / 0161 839 8869 (Sunday Opening 12noon to 4.00pm)
- **PRESTON**: 43 Friargate / 01772 883958 WARRINGTON: 88 Bridge Street / 01925 632179
- CARLISLE: 106 English Street / 01228 544792
   BLACKPOOL: 81Whitegate Drive / 01253 300599
- LANCASTER: 84 Penny Street / 01524 39657
   BOLTON: Knowsley Street / 01204 395789

http://www.practicalhi-fi.co.uk













#### **ROTEL RA-972**

t's a matter of taste, of course, but I think Rotel has one of the neatest family looks of any of the big brands. The controls on the 972 are all big enough to use comfortably but not garishly huge and it's altogether a pretty svelte affair.

I wish I could report that the insides are similarly tidy, but actually it's a bit of a rat's nest in there. One of the reasons for that, though, is that Rotel appears to be attempting a simplified version of Kenwood's 'TRAIT' output devices, mounting driver transistors directly on top of the output devices on the heatsink so as to achieve good thermal tracking. Further concern with thermal stability is shown by the use of some small-signal transistors sandwiched in pairs with thermal paste: this kind of attention to detail helps ensure that performance is minimally affected by warming up or by recent 'history' of the signal a few seconds

or minutes ago. Specifications are very much par for the course - six line inputs and no phono. Output is very conservatively rated at 60W. though the heatsink is a little on the small side for continuous flat-out use (no real problem in practice). The large toroidal transformer, twin pairs of output transistors and fairly generous power supply capacitors bode well for tolerance of awkward speaker loads. There's a preamp output for biamping duty. As with the other amps here, input selection is switched on the circuit board, electronically – in this case using relays near the input sockets. That's great, but since the record selector is a conventional switch there are printboard traces carrying signal from rear to front of the unit anyway to service that. Incidentally, this amp has one

#### **SOUND QUALITY**

Despite high expectations born of

of the widest bandwidths I've ever

to act as a repeater for Radio 4 on

Long Wave (with a suitable aerial)

with a range of several miles!

seen and sufficient HF output power

past Rotel successes, this amp somehow failed to make a very strong impression. There's no denying that in many ways it's perfectly competent, but somehow it just seems to lack the involvement that some of the other amps here (including cheaper ones) achieved.

UNEF

For a start, is has a distinct character, which in itself will of course provoke both friendly and adverse reactions. The balance is noticeably on the warm side of neutral, with a little less edge but more lower midrange bloom than most other amps. How this coloration affects

LISTENING the sound depends is playing, and on one of my favourite tests. plucked double bass, it was really quite pleasant, warming and rounding the sound in a way reminiscent of much more powerful and highflown amps. The drawback, though, is that this is inconsistent across the range and sounds like

trumpet are distinctly on the laidback side, too much so for my tastes – if a sound is supposed to be bright and arresting, an amplifier should be able to keep it that way.

In addition, although low sounds may be fine tonally, the detail in that region is not outstanding and textures can tend towards woolliness. In fact that's probably the biggest contributing factor in making this amp rather uninvolving over extended listening periods.

Despite the slight dullness, detail at higher frequencies is quite good and this leads to good ambience and stereo imaging. Dynamics are handled in a reasonably confident manner, with little compression of peaks, but the bass thins out a bit as the music gets really loud and this can lead to some sense of harshness. Nevertheless, the amp can sound quite exciting at sustained high levels, though it's perhaps is not the most rhythmically powerful in the world.

#### CONCLUSION

"The sound (is) in a way

reminiscent of much more

powerful and high-flown amps.'

A slightly mixed performance which is likely to appeal to some tastes a good deal more than others. It's probably worth a try as it's quite individual, but the '972's achievements are too uneven for a formal recommendation.



BUILD COCCE

VALUE C450.00

PRICE £450.00

Better in the treble than the bass, which is a little too rounded and woolly.

#### **■ TWO YEAR GUARANTEE**

☑ Gamepath Ltd, 28 Heathfield, Stacey Bushes, Milton Keynes, MK12 6HR. ② (01908) 317707

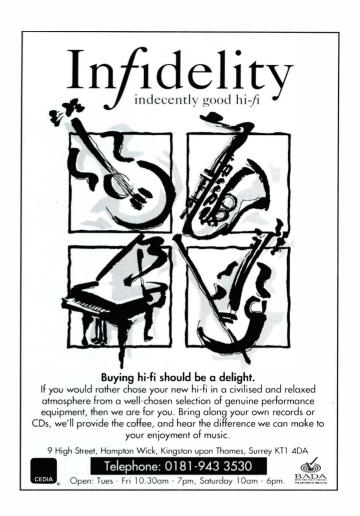
#### **SPECIFICATIONS**

- Inputs: 6 line-level
- Outputs: 2 tape, 2 speaker (switched), headphones
- Power into 8 Ohms: 90W

e headp ■ Poo Avantgarde, Argento, Audio Synthesis, Advantage, Audio Physics, Audio Refinement,

## Sounds of Music

Acoustic, Base, Balanced Audio Technologies, Beyerdynamic, Boulder, Bow, Bose, Burmester, Cabasse, Carfrae Horns, Covergent Audio Technology, Chord, Copland, Cadence, Cable-Talk, Celestion, Copulare, Clear Audio, Duntavy, Echo-Busters, Electrocompanient, Eikos, FM Acoustics, Genesis, Graham, Goertz, elseinean, Grado, Hal Hovland, Jamo, JM Labs, Koetsu. Krell, KEF, K yra, Lumley, n. Musical Technology, Magnum Dynalab, Micromega, Marantz, MVL, Martin Logan, CiOMD Dare Fidelity, Neat, Nordost, Opera, Optimum, Ortofon, Orthid1 Parasound, Passlab ath The Plinius, Project, Pro-ac, Pink Triangle, Primare, QED, Quad, Rel, Soundstyle, Sound Organisation, Sumiko, Straight Wire, Sonic Frontiers, Sonus-Faber, Stands let us help you to make the right audio decisions Thule, Townshend, Transparent, Transfiguration, Triangle, Unison Research 10-12 Chapel Place, Hull, VTL, Wisdorfunbridge Wells, Kent JN1 1YQnesch. tel: 01892 547003/616383 fax: 01892 547004 web: www.sounds-of-music.co.uk





#### **SONY TA-FB740R**

ony proudly trumpets this amp as one of a new breed expressly designed to make the most of SACD and the ultra-wide bandwidth that the medium offers (around 100kHz). Hence the 740's 'Linear Phase Circuit' which achieves, according to the blurb, a bandwidth of 300kHz. Actually that's more than a little dependent on volume control setting (70kHz worst case!) but it's a sign that the basic power amp section has been quite cleverly designed and the claim of linear phase is certainly justified. And even if you haven't got SACD yet (who has?), it's no bad thing to have some extra bandwidth: in fact it's more useful in an amp than in a digital recording system, because of the different ways in which the two

systems roll off. Apart from the frequency response, Sony makes various technical claims for the amp of more or less relevance – the 'optical bias circuit' (an LED, as far as I can see) is not in itself the least bit responsible for 'stable sound localisation' - but all the same it's an unusually complex piece of kit for the price. The output stage uses MOSFETs, biased to an unusually high current so that about half a Watt is delivered in Class A: the disadvantage of this is a static power dissipation in excess of 30 Watts, so don't block

ventilation holes! Input

switching for

tape and SACD

uses relays, but

the rest appear

to be selected

with an integrated-

circuit switch - at any

rate, input headroom is

Construction is pretty good for a product at this price. There's even a toroidal transformer, albeit the scruffiest one I've ever seen (tidy winding keeps stray hum fields low). The phono stage has its own circuit board. The only oddity seems to be the tone controls, which don't work with the volume control at maximum and have rather variable effect at lower settings: what's more they are not absolutely disabled by the 'source direct' switch, although their effect is much reduced. Apart from that everything seems in order. Features are as seen on the front panel: there are two tape outputs and a dedicated SACD/CD input.

amp's biggest problem - not actually a fault in itself - is its lack of wow! factor. It's not particularly likely to blow anyone away: but then most budget amps that do blow people away either have some fairly serious counterbalancing flaws or indeed rely on some more or less subtle flaw to impress. No, the theme here is more one of quiet competence and as such there's little to complain about

SONY

Well, one might, with some justifi-

well handled and the way this amp can reach a climax without strain is wholly admirable. That's equally of benefit in music which is just plain loud, and you can have a lot of fun headbanging with it too, the sound staying very clean right up to overload. And tonal evenness is excellent: there are more variables at work in determining this than just wide bandwidth, but high treble is certainly very smooth and even, while bass extends to a good depth with decent weight. Even the phono stage seems unusually capable for an amp of this class.

#### CONCLUSION

This would appear to be one of Sony's best of late - and the average standard has been good too. A highly competent all-rounder and a very safe Recommendation.

#### **VERDICT**

SOUND 00000 BUILD VALUE PRICE £199.99

le Very open and clear sound, comfortable with a wide range of musical styles.

#### **■ ONE YEAR GUARANTEE**

Sony UK Ltd, The Heights, Brooklands, Weybridge, Surrey, KT13 0XW **2** (0990) 111999

#### SPECIFICATIONS

- Inputs: 5 line-level, phono (MM)
- Outputs: 2 tape, 2 speaker (switched), headphones
- Power into 8 Ohms: 60W



**ONCLUSIONS** 

s I said earlier, it's a hardfought battle between amps in this price range, but it's probably fair to say that none of the present contestants emerges disgraced or defeated. Coming back to my point in the introduction about hearing more of the music, any of these should offer distinct benefits over most of the even cheaper models around – some of which in turn are nothing to sniff at. It's one of those little ironies of hi-fi that the difference is in the overall big picture but that picture is made up of a lot of little details..

Probably the least successful amp here was the Marantz, and it's precisely because of its little details - or lack thereof - that it loses out to the others. It's not a bad amplifier, it's well specified and decently made and powerful, but ultimately it doesn't seem to offer either the refinement of most of the others here, or any strong alternative suits of its own that might win it a gong.

Rotel's RA972 was a harder

one to reject, especially since its overall performance seemed in the end to be quite close to that of the Cyrus, which is dearer and less powerful. They don't sound the same, but in many ways it's a case of six of one and half a dozen of the other. However, listening over longish periods finally convinced me that the

Cyrus just has the edge in the allimportant listenability. It also has a very attractive specification, not just in terms of existing features but in upgrade potential, a useful factor to bear in mind.

Between the Sony and the Kenwood there was a similar stand-off, and at one time I nearly reversed their respective

positions. Again, it was a longer listening period that finally tipped the balance in favour of the Kenwood: it seemed to offer more musical detail and less of itself. It was a close thing, though, and Sony can take a bitter consolation from the fact that the TA-FB740 would probably have come out with a Best Buy had the Kenwood not been in the scheme of things. As it is, the Sony will be a very strong contender for those who simply can't make the extra £50.

That brings us to the Roksan, which although it doesn't quite make Best Buy status is a strong Recommendation. For a start, its specification is very good indeed for the price. Its sound is good all round, and if Roksan could perhaps find a way to ameliorate the dryness I noted, it could be a stunner. As it is, it faces some strong competition - not least from Musical Fidelity and Arcam but I dare say few music lovers would kick it out of their system for eating crisps!



#### BEST BUYS AND RECOMMENDED



CYRUS Integrated 5 £500.00 Although this is not the most detailed amp in the group it is Recommended for what it does well, particularly its impeccable manners and tonal neutrality, and for its upgrade potential.



**KENWOOD** KAF-3030 £249.95 An elegant looking unit that produces what one might call an elegant sound, with very little to detract from musical pleasure. Particularly well balanced and very detailed sound for the price.



**ROKSAN** KA-1 £475.00 Something of a powerhouse but still capable of plenty of subtlety. Its only real drawback is some slight dryness: apart from that it is neutral and confident. Also available in various colours!



**SONY TA-FB740R £200.00** Hailed by its maker as the new wave in amplifiers, and doing a lot to justify the pride too, this unit offers sweet and detailed sound and should give pleasure with a wide range of music.

A	M	P	L	I	F	I	E	R	C	0	M	P	A	R	I	S	0	N	T	A	В	L	E

MAKE	CYRUS	KENWOOD	MARANTZ	ROKSAN	ROTEL	SONY
MODEL	INTEGRATED 5	KAF-3030	PM7000	KA-1	RA-972	TA-FB740R
PRICE	£500.00	£249.95	£299.90	£475.00	£450.00	£200.00
SOUND	00000	00000	00000	00000	00000	00000
BUILD	00000	00000	00000	00000	00000	00000
VALUE	00000	00000	00000	00000	00000	00000
GUARANTEE	2yrs	2yrs	2yrs	2yrs	2yrs	1уг
POWER OUTPUT, 8 OHMS	45W	65W	115W	120W	90W	60W
DISTORTION 20HZ-20KHZ, 1W/8 OHMS	0.002-0.09%	0.001-0.01%	0.001-0.008%	0.02-0.07%	0.001-0.12%	0.001-0.035%
SIGNAL-TO-NOISE RATIO	80.4dB	84.9dB	84.3dB	84.8dB	82.5dB	80dB

# Getting Persona.

et's Get Personal. Danish based loudspeaker company Jamo has recently sharpened its entire philosophy. The idea is to 'get personal'! Don't worry – Jamo won't be asking for your phone number or e-mail address. It just wants to know what you expect from a loudspeaker. Your loudspeakers to be more precise. What makes 'perfect' sound quality in an individual's listening environment is a highly personal thing. So, in order to 'get personal' the loudspeaker giant is now providing the tools that might just revolutionise the market.

With an annual production of over one million loudspeakers, Jamo – established more than 30 years ago in Denmark – is the largest loudspeaker manufacturer in Europe. Lots of exciting new things have been happening at Jamo recently. No stone has been left unturned in creating a true loudspeaker company of the future. There is a new logo, a new product name structure and new production methods. But the cornerstone of the of the new concept is the Jamo SoundGuide, a tool that has been developed to give the consumer an overview, and to help him or her choose the best personal solution. A solution that fits whatever he or she wants. Not what the loudspeaker manufacturer thinks they want!

The Jamo SoundGuide is structured on the primary parameters for choosing a loudspeaker. Together with your dealer's help – or on your own if you prefer – you can use this innovative tool to quickly determine which loudspeaker is best for you on the basis of a short set of simple questions. The SoundGuide is closely integrated with the Jamo SoundCatalogue. This new catalogue is also organised according to consumer needs, instead of just presenting a baffling series of models. This is where the consumer can go in depth and concentrate on the details of the loudspeakers that are relevant to him or her. And this is where the consumer can make personal decisions on power handling, materials, finish or colours - without any biased advice!

With the new way of addressing a customer's needs using the Jamo SoundGuide there is also a new range of products.

First of the 'New Jamo' loudspeakers is the E8 Series, created to form a complete line of easy to place - "slim line" - speakers with contemporary Scandinavian design to fit perfectly into modern interiors. Additionally, Jamo has incorporated technology from the larger and more expensive Jamo models, particularly speaker and crossover techniques from the highly acclaimed D8 series. A neat entrant is the E800 bookshelf loudspeaker, which will retail for just £199.99 in the UK.

The E800 is a Two-way bass reflex loudspeaker which uses a newly developed 5" woofer and a 1" soft dome tweeter. Features include the new Jamo Convex Tapered Vent, a high flow design which ensures less turbulence and allows 5dB higher SPL before port noise occurs. The Bookshelf or stand-mounted E800 has bi-wiring terminals and is compatible with the "large" setting on 5.1 decoders. Its long/short term power handling is 100/140W.

Then there is the all-new D8 Home Cinema System, a series of audiovisual loudspeakers designed to achieve ultimate sound quality for all sight and sound media. The D8 System comprises the Jamo D8 CEN, high-end centre channel loudspeaker, (£549.00 each); Jamo D8 SUR, high-end surround loudspeaker, (£550.00 per pair) and the stunning Jamo D8 SUB, electronic "closed box" subwoofer at £950.00 each.

There's plenty to choose from within the Jamo range. A loudspeaker to suit everyone. And with the Jamo SoundGuide available to make it that much more easier to select what's best for you, it's time you took a listen to Jamo – a loudspeaker company that's prepared to listen to you before

For further information, or to receive the Jamo SoundGuide, call Jamo UK on 01788 556 777 or visit your local Jamo dealer. Tell Jamo what you want - and they will listen.

Let's Get Personal.

www.jamospeakers.com



With an annual production of over one million loudspeakers, Jamo is the largest loudspeaker manufacturer in Europe.



## **SUBSCRIPTION OFFER**

#### Yes I want 13 issues of HI FI CHOICE

YOUR DETAILS
TitleInitials
Surname
Address
PostcodeCountry
Tel no. (inc. code)
E-mail address
PLEASE CHOOSE YOUR METHOD OF PAYMENT: 1 OR 2  1. DIRECT DEBIT  UK only £7.49 every 3 months – save £10.33 Complete form below.  1 understand that I will receive 13 issues during the next 12 months.
Instruction to your Poul or Publisher Society to you Direct Daking
Instruction to your Bank or Building Society to pay Direct Debits.  Originator's Identification Number
7 6 8 1 9 5
Forume Publishing Ltd. Cary Court, Somerton. Somerset: TAI1 6BR.
Name and full postal address of your Bank or Building Society branch     T. T. M. M. A. C.
To: The ManagerBank/Building Society
Address
Postcada
Postcode
2. Name(s) of account holder(s)
3. Branch sort code (from the top right hand corner of your cheque)
4. Bank or Building Society
account number  5. Instruction to your Bank or Building Society
Please pay Future Publishing Direct Debits from the account detailed on this Instruction subject to
the safeguards assured by the Direct Debit Guarantee. I understand that this instruction may remain with Future Publishing and if so, details will be passed electronically to my bank or building society.
Signature(s)Date
Ref No (Office use only)
Banks and Building Societies may not accept Direct Debit Instructions for some types of account.  You may photocopy this blank form and then complete it.
You cannot fax or e-mail Direct Debit forms.
a CUPOUT/COPPOIT CARD
2. CHEQUE/CREDIT CARD
UK £29.97 - save £10.33
Direct Debit (UK only) I wish to pay £7.49 every 3 months. Complete form above.
Cheque (E's sterling drawn on a UK bank account payable to Hi Fi Choice)
Mastercard Visa Switch Issue no./valid date
Card no.
Expiry date/ Tick if you don't wish to receive mail from other companies
SignatureDate
SEND TO: HI FI CHOICE Subscriptions ,
UK: Future Publishing, FREEPOST BS4900, Somerton, Somerset, TA11 6BR.
Overseas: Future Publishing, Cary Court, Somerton, Somerset, TA11 6TB, UK.

Order code: P205

#### HOW?

SIMPLY COMPLETE the subscription form opposite and return it to:
HI-FI Choice, Future Publishing,
FREEPOST BS4900,
Somerton, Somerset TA11 6BR
(no stamp required).

## Why subscribe:

- ✓ 13 ISSUES FOR THE PRICE OF 10
- ✓ The latest Hi-Fi news every month
- ✓ SAVE over 25% on the shop price
- ✓ FREE delivery to your door (UK only)

## How:

Offer ends: 30.08.00

- Complete and return the form on this page.
- Call our credit card hotline on:
  01458 271171
  overseas readers call: +44 1458 271171
- @ Subscribe online: www.futurenet.com/promotions/pg205/89

HI-FI CHOICE

SUBSCRIPTION OFFER

# subscribe for OILY

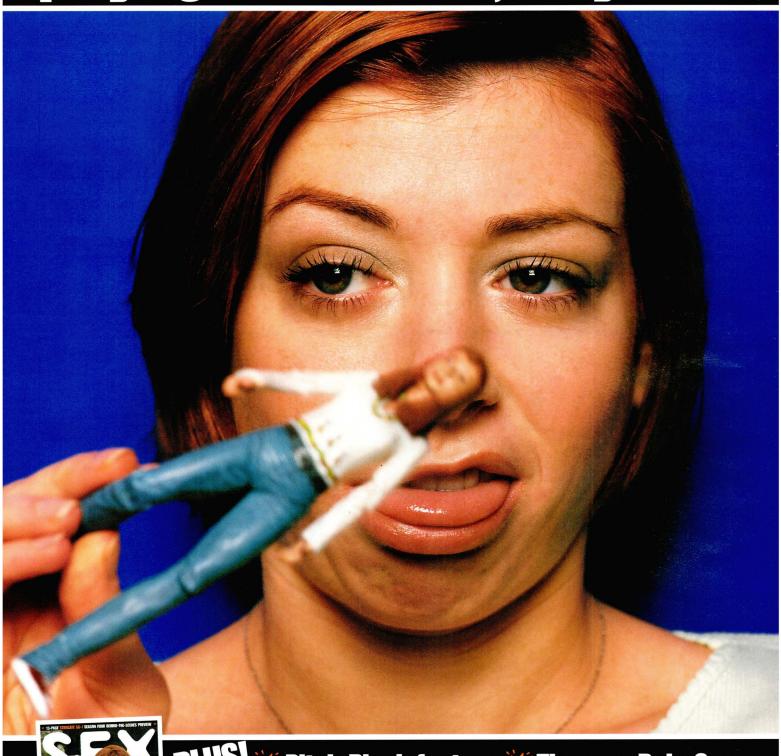
EZZE





website: www.futurenet.com/promotion/pg205/89 or call: +44 (0)1458 271171

# Catch Buffy's Willow playing with herself, only in...



**PLUS!** \*\* Pitch Black feature \*\* The new RoboCop \*\* 13-page Stargate behind-the-scenes **EXCLUSIVE!** 

SFX67 ON SALE NOW!

## Headphones

Say what you like about Nick Gear, he can't hear you. He's listening to his headphones...

n a world where everything is shrinking and small is cool, it is refreshing to find a realm in which big is better. As personal audio listening re-defines the term compact, the traditional, full size headphone still rules the roost in the household. Forget constant battles with neighbours screaming over the loudness of your tunes or family members moaning about missing Friends, for the full-size

headphone offers a completely individual and isolated escape from such distractions.

THE CAST	LIST
AKG K100	£35.95
Beyer DT531	£105.00
Grado SR325	£300.00
JVC HA-DX3	£200.00
Sennheiser HD590	£159.95
Sony MDR-CD2000	£200.00
Stax System II	£400.00
Technics RP-F800	£49.99
Vivanco SR222	£30.00

Just imagine a world where you can forget the woes of life and relax in perfect harmony with your music; a place where time is irrelevant and insignificant.

For true audiophiles, the idea of plugging a set of cans into their prized equipment would be considered blasphemous. Why compile the best quality loudspeakers and amplifier only to use a trivial accessory like a headphone?

The intimate characteristic of a headphone makes it an essential element in the equipment catalogue. A set of high-quality cans can elevate your adored albums and tracks to new and exciting heights. If bought wisely, a

fine headphone can pick out the all the nuances that have previously been hidden.

There is also the added bonus of music on the move. The majority of headphones now come fitted with a personal stereo oriented 3.5mm jack (inside a 6mm converter) so you can plug into MD, CD or even DVD players. You may look unusual with your those buns strapped to your head on the train, but who cares? The level of enjoyment negates the embarrassment. In one simple move you have full enclosure, with only yourself for company. Eliminate those boring

conversations or the constant rumble of the tracks.

This Super Test picks out 10 serious contenders ranging in price from the affordable at £30 to an extravagant £400. One of the key considerations is the distinction between open and closed back design. Open back boasts a far more spacious and ethereal sensation, but does allow sound to escape. This is adequate for home listening but if you are thinking of the portable aspect then be careful because this will annoy Joe Public.

The closed back design produces virtual isolation from external sources and is great for noisy scenarios. The design generally lends itself to a heavier bass response, but can limit the sense of stereo space.

There are a number of other pointers that must be investigated in the decision process. Comfort is an intrinsic component with extended listening. There is nothing worse than having fantastic acoustics if you cannot wear the 'phones for more than 10 minutes before the head-in-a-vice effect sets in.

Finally, earphone padding design falls into two camps: circum-aural has the ear-piece fully enclosing the lobe while supra-aural consists of a flat pad that sits on the ear.

#### **Hints and Tips**

Listening to headphones at high volumes for prolonged periods is bad for your hearing. If you are serious about cans it pays to fork out for a dedicated headphone amplifier, as most amplifiers and CD players have rather basic built in amps.

#### How the tests were done

he 10 products in this test were subjected to both quick-fire sessions and a period of extended listening. Each model was reviewed using a Denon DVD-655 CD player through an Arcam Alpha 7R amplifier and Musical Fidelity X-Can headphone amp. The range of musical

material used included:

Prince - Dance On, Mascagni - Intermezzo from Cavalleria Rusticana, Mozart's Requiem, Miles Davis - A Kind of Blue, Cypress Hill - Black Sunday and Tequila Sunrise, and The Beatles -Blue Album (1967-70).



the ear-pieces consist of a flat pad that sits on the ear.

CIRCUMAURAL: Here, the style of padding is of the

variety that encloses the ear.

BEYERDYNAMIC

D

T 53

#### **AKG** K100

hile the majority of manufacturers prefer to issue their headphones with a wrap of cloth on the pads, it is pleasure to see AKG still adopting 70s style faux leather. Employing speaker diaphragms of a reasonable size, these headphones have something of the Jaguar feel about them. The K100 is an open-back design. The leatherette cushions are extremely comfortable, but on those hot summer days, they can get humid and sweaty with extended

The cord length is a healthy three metres, so hopefully you will avoid strangling yourself. The lead is fitted with a 3.5m jack with a 6.3mmm adapter supplied for use with full size jack sockets.

#### SOUND QUALITY

The K100's made an excellent first impression, their sound is a joy to experience: the mid-range and treble are balanced and precise, while the bass is crisp and beguiling. The sonic environment created is a positive and uplifting experience. The various test tracks sounded wonderfully rich with a strong attack and timing. The classic Miles Davis,



Beatles and Prince songs were perfectly delivered. The timbre of each instrument was captured with admirably clear detail and without

any muddiness.

The bass-heavy Cyprus Hill track, Tequila Sunrise, was presented with a fantastic sense of aplomb and

structure. Fast, rhythmic dance tracks also fared just as well. For a model that is in the under-£40 bracket, the K100 is an all-round mature performer. AKG appears to have learnt its lesson from the under-powered K301 we tested in the last round-up: what it has in the K100 is a product that is certainly no pretender. It looks cool in its leatherette rags, and it sounds great



#### **BEYERDYNAMIC** DT531

eyer has been manufacturing headphones since 1924 and its latest DT531 reverts back to the basics it founded the company on. An open back design, the headphone is claimed to offer "maximum wearing comfort, superb performance and gives a magical quality to even the most intricate of musical passages".

Unfortunately, as with a lot of manufacturers' waffle, these claims are not entirely accurate. The general build is satisfactory, solid and sturdy and the single headband is typically simple and practical. But the cable is criminally flimsy and way too short for unlimited and unrestricted free movement. The circum-aural cushions sit neatly around the ears, but they feel heavier than the claimed 245g. The padding and fit feel good initially, but you soon realise the extra padding has a detrimental affect on the internal temperature. After only 10 minutes of use the heat inside the cavities had risen to a discomforting level.

#### SOUND QUALITY

What strikes you first is the absence of punch and clarity. The treble and



mid-range are respectable but the bass is rather lifeless and flat. Despite this the DT531 is an amiable performer of jazz, blues and classical. The headphone brings a

warm and inviting ambience to Mozart's Requiem and Davis' Flamenco Sketches. Pop and dance tracks were less impressive, the DT531 exhibiting an apathy towards

the bass, vocals and percussion. At times, the treble came across as forced and abrasive making listening uncomfortable.

The DT531 is a rather uninspired entry from an established player. For phones' that cost over £100. Beyer's latest cans are a disappointment. But if you prefer classical and iazz or other acoustic music they could well be worth a listen.

VER	DICT
SOUND	00000
BUILD	00000
COMFORT	00000
VALUE	00000
PRICE	£105.00
■ Average perform established player. L ■ ONE YEAR GUAR  ☑ Veda Products, 5 B	acks punch and bite.
Estate, Stansted Road, Herts, CM23 2TH.	0
<b>☎</b> (01279) 501111	
SDECIEL	
JI LCIII	CATIONS
■ Weight:	245g
Control of the Contro	

#### **GRADO** SR325

emoving the SR325 from its box, you are immediately struck with a feeling of nostalgia. Featuring a retro design and minimalist styling, the SR325 is reminiscent of the headset used by Phones in Gerry Anderson's Stingray. Purported to be "truly the world's finest", the SR325's greatest assets are its robust build and sound quality rather than its functionality. Although the style is practical, the drawback is its lack of 'wearability'.

The SR325 is fantastically conceived with solid metal earpieces and a simple, manually adjustable single headband - but I found the ear-pieces distinctly uncomfortable. But comfort is a very subjective thing and previous reviews have been more positive in this respect. My key concern is the size of both the pads and the speaker diaphragms. Maybe it is the shape and size of my lobes, but the Grado earpieces compact and slight nature meant the tips of my ears were pinched through use.

#### **SOUND QUALITY**

However, all the discomfort is easily forgotten when you listen to this model in action. The sound is bass



strong, energetic and delivered with great balance and clarity. Although the headphone has a tendency towards the bass, the general effect

is articulate and lacks coloration. It may not look the most hi-tech and ergonomic, but the SR325 is a truly wonderful headphone. Transparent and effortless, the Grado uncovered the complex and intricate detail of Miles Davis' Flamenco Sketches and Mozart's Requiem with ease. The bass has a great sense of attack, allowing dance and pop tracks to be portrayed well.

Costing upward of £300, the SR325 represents a serious audiophile alternative. But its lack of basic comfort makes the price tag appear over inflated.

VER	DICT
SOUND	00000
BUILD	00000
COMFORT	00000
VALUE	00000
PRICE	£300.00
down by idiosyncrating ■ TWO YEAR GUAR  ☑ Goldring Products, St Edmunds, IP32 7DX ② (01284) 701101	RANTEE 8 Greyfriars Road, Bury
SPECIFI	CATIONS
■ Weight:	200g
Cord:	2m
■ Type:	Open-back

#### **JVC HA-DX3**

he HA-DX3 is the one member of this group that is guaranteed to make its wearer stand out from the crowd. Guaranteed only because it is produced with shiny copper ear pieces that, when worn, look like a couple of small saucepan lids strapped to your head.

Described as Digital Reference (whatever that means), these 'phones are a joy to wear and listen to. The cans are ergonomically styled to snuggle perfectly around the ears, and with its super-soft cloth pads the experience is satisfying for long and short periods.

Its weight of 340g makes it the heaviest in the group, but the double headband sufficiently reduces the pressure on the head and lobes to belittle the heft. The end result is near-perfect luxurious comfort. The cable is detachable for easy replacement, and it's the longest in the test at 4 metres.

#### **SOUND QUALITY**

Not only great to wear, the HA-DX3 is a lively and enthusiastic performer with a wide soundstage that exudes confidence, precision and clarity. The



sound delivery is unlike any of the other candidates in this test. JVC has widened the source projection within the cans. This results in an ethereal listening experience, which

simulates a much larger acoustic arena than usual.

From jazz to pop, this headphone breezed through the test. The treble and mid-range are managed with

care and attention and although the bass can border on the uncomfortable, even the stinging bass of Cyprus Hill's Tequila Sunrise was treated with respect.

It is difficult to fault the HA-DX3 on all counts. It is responsive, beautifully balanced and most importantly, a set of headphones you could wear all day. The only

negative point is	its £200 price tag.				
VEF	RDICT				
SOUND	00000				
BUILD	00000				
COMFORT	00000				
VALUE	00000				
PRICE	£200.00				
Great headphone with a rich bass,					
careful mid-range a to wear.	and very comfy				
■ TWO YEAR GUA  IVC, JVC Business London, NW2 7BA.  (020) 8450 3282					
SPECIF	ICATIONS				
■ Weight:	340g				
Cord:	4m				
■ Type:	Closed-back				

#### THE RADIUS PORTFOLIO OF HI-FI FURNITURE FROM SOUNDSTYLE

brings an exciting combination of STYLE and true audiophile PERFORMANCE. Study the SOPHISTICATION and understated ELEGANCE.

- A perfect combination

# engry after 50UND admire the ST

Style Sophistication Elegance









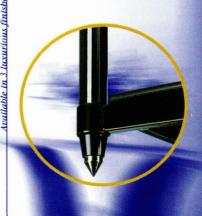


represents the ultimate marriage of materials and audio engineering know how, crafted into hi-fi furniture to complement your environment as well as your hi-fi.

#### SOUNDSTYLE (

Soundstyle, 8 Greyfriars Road, Bury St Edmunds, Suffolk IP32 7DX England Fax: (01284) 750040 Email: sales@goldring.co.uk





FOR FULL DETAILS AND A COLOUR BROCHURE CALL US NOW ON (01284) 701101 OR COMPLETE AND RETURN THE COUPON BELOW

Name .....

Telephone .....

#### **PHILIPS HD910**

f design is any indication, Philips is directly targeting the affluent, style-conscious buyer with the HD910. Configured with an emphasis on dance music in all its various forms, this model is aesthetically innovative with its open back design, aluminium-finish, softpadded cans and cool blue headband.

The resultant product is an extremely comfortable experience even on those longer sessions. The ergonomic design makes the headphone lightweight to wear while creating a spacious and roomy sound. For a product clearly aimed at budding bedroom DJs, it is a disappointment that the speakers cannot be flipped. The cable is fitted with a 3.5mm jack plug while its length is an adequate three metres.

#### SOUND QUALITY

Its strengths are simple. On hardedged works such as Cyprus Hill's Insane In The Membrane and Prince's U Got The Look, it certainly enjoyed itself, rolling its sleeves up and diving headfirst into the melée. The sound is spacious, combining pure, assured bass and a respectable mid-range.



There is a downside: the treble is the annoyingly weak, even on those dance tracks. Flimsy and harsh, the higher frequencies are handled without any great refinement. Its treatment of *So What* by Miles Davis and Mascagni's *Intermezzo* from *Cavalleria Rusticana* can only be described as machiavellian, portrayed as a cacophony of screeching horns and harsh strings, and handled with little finesse.

If your musical taste is towards the faster rhythms of acts such as Moby and the Chemical Brothers, rather than the lilting strains of Mozart, then the Philips is worth considering. It is comfortable to use, has clear sonic strengths and is built to a high standard.



#### **SENNHEISER HD590**

ennheiser is synonymous with top quality, professional headphones that compromise on neither performance nor build quality. The Prestige 590 is yet another fine specimen with a build and comfort that reach the high standards normally associated with the brand.

Using an open-back design to create a spacious stereo atmosphere, the ear-pieces are relatively plain and conservative. Finished in black, its aesthetically pleasing structure makes for a balanced and surprisingly lightweight performance — despite weighing 270g. This flagship model uses a single adjustable headband and large, soft cloth pads to ensure a degree of comfort which is refreshingly inviting for both short and extended listening.

Furthermore, the longevity of the HD590 is assured with a detachable cable fitted with a mini-jack, and replaceable components.

#### SOUND QUALITY

The HD590 offers a 'carefu'l bass response and a crisp mid-range. For its excellent reproduction of mid and lower frequencies, though, the



headphone has rather obvious treble performance. This may be Sennheiser's style, but the overriding effect is not very sympathetic with modern material. The delivery of the Beatles' Long And Winding Road was lively enough with the string sections handled with great gusto, but the treble was inexplicably sharp and intrusive.

Where the HD590 wins its merit points is in its treatment of classical and jazz tracks. Mozart's *Requiem* was performed with zest and energy while Miles Davis' So What came across with subtlety and clear distinction.

The HD590 offers unrivalled comfort but at a price. The Prestige is best suited to gentler, softer musical genres, but at £159.95 it is rather expensive for a design that seems to only sound impressive with acoustic music But if that's what you like it's worth a try.

that's what you like	e it's worth a try.
VER	DICT
SOUND	00000
BUILD	00000
COMFORT	00000
VALUE	00000
PRICE	£159.95
Assured and confi	
ample clear mid-rang response, but rather	
■ TWO YEAR GUAR  Sennheiser UK, 3 C Road, High Wickham, B  (01494) 551551	entury Point, Halifax Bucks, HP12 3SL.
SPECIFIC	CATIONS
■ Weight:	270g
■ Cord:	Open-back

#### SONY CD2000

hen you first try on these headphones, you may be forgiven for thinking you've slipped a pair of your favourite slippers on your head. A closed-back design, the fundamental concern with the luxurious cloth pads (the largest of all the test models) is the amount of heat that is generated. On those few and farbetween days when this country's temperature soars, prolonged wearing is uncomfortable.

Weighing 300g, the phones are too heavy to make them ideal, but they are comfortable enough to wear over short periods. Longer stints will make your head feel constricted and eventually leads to a head-in-a-vice sensation.

Reversible ear-pieces lend it to DJ-style one-ear listening, and the CD2000 can be folded up to fit nicely into a wicked little leather carrying pouch. A removable coiled cable gives up to thee meters of unrestricted movement, and the standard 3.5mm jack plug is supplied with a 6.3mm adapter.

#### SOUND QUALITY

Sony has taken strictly neutral approach to the sound balance of



the CD2000. These headphones are balanced and refined with the emphasis on the mid-range and treble. Listening to Mascagni's Intermezzo from Cavalleria Rusticana

was sheer bliss, with every aspect of the composition clear. There was no hint of background interference as each instrument was delivered with subtle precision and assurance.

Disappointingly, for enthusiasts of less bass-driven genres, the sound is fine but could be significantly improved. The bass performance being slightly hollow. For a set of phones that are priced around the £200 mark, the CD2000 is a frustrating under-achiever. A lot of good work has gone into creating a wonderfully clean, detailed and rich mid and treble at the expense of a lack of solidity in the bass.



## **STAX** System II

osting upwards of £400, you might expect the Stax System II to conquer all and (if it did have hands) with one hand tied behind its back. The most expensive model in the test, it is supplied with its own headphone amplifier and power supply.

The reason for the high price and separate driving amp is that this is one of those rare beasts, an electrostatic headphone. This is Stax's speciality, it's so called earspeaker designs having garnered acclaim for their transparency around the globe. The arguement for the high price being that, you'd have to pay considerably more for loudspeakers of a similar quality.

Stax has focused on getting both the acoustics and the comfort right. Initially the System II does feel awkward and ungainly, but after some use those negative issues can be easily offset against the sound. In fact, the comfort level is remarkably good considering you are essentially wearing a pair of loudspeakers fixed to a headband! No doubt the lack of pressure has a bearing. My only gripe for a product of such expense is the short length of cable supplied.



#### **SOUND QUALITY**

The sound delivery is the best I have had the pleasure of experiencing. The piano on Miles Davis' Flamenco Sketches never sounded so delicately pure and defined. Each musical note, instrument and inflection in the recording could be instantly plucked from the performance and enjoyed separately. Even on the

faster dance and pop rhythms, it still had no difficulty in combining its rich and dynamic bass, mid-range and treble to produce a truly enlightening experience.

An exceptional gem, this neutral performer confirms the old adage that simple is best. Once again Stax has managed to produce ahighly transparent earspeaker system that

	warrants the fines	t ancillaries.					
	VER	DICT					
	SOUND	00000					
	BUILD	00000					
o	COMFORT	00000					
	VALUE	00000					
	PRICE	£400.00					
	Maybe the most expensive in the test, but the delivery of sound is five star all						
	the way						
	■ TWO YEAR GUAN □ Path Group, Unit 2 Park, High Wickham, B ② (01494) 441736	, Desborough Industrial					
	SPECIFI	CATIONS					
	■ Weight:	295g					
	■ Cord:	2m					

Open

■ Type:

#### **TECHNICS RF-F800**

ositioned in the competitive sub-£50 category, the Technics RF-F800 is the smallest headphone in this group. But don't let this fool you. It may be the compact but this little firecracker boasts a powerful punch to ward off potential bullies.

Built to the usual Technics standard, this model features a single bar headband, which can be manually positioned. Adorned in a sleek black livery, the ear-pieces are dressed in a tough cloth and integrate 40mm drive units.

Mixing balance and poise, the design is joyfully traditional and functional. For both long- and shortterm usage, the RF-F800 is great to wear. The experience is pleasant, with the only shortcoming being the lack of full ear enclosure from the relatively small capsules. It includes a three metre lead, a 3.5mm jack plug and 6.3mm adapter.

#### **SOUND QUALITY**

Stunning, was my reaction when first hearing the F800's first performance. No matter what your musical preferences, the RF-F800 is a consummate gentlemen with them all. Bass, treble and mid-range work



effortlessly together to generate a rich and sensational listening experience. The soundstage and environment created is second to none. From jazz to hip-hop, the results were surprisingly positive

with the phones passing the examination with full colours. Particularly impressive was its treatment of bass-driven material such as Cyprus Hill's Insane In The Membrane.

Technics is to be congratulated for this tasty design - not only has it a sound to die for, but it also has a commendable tariff to boot. In fact, when I originally saw the price tag, I thought they'd made a mistake.



#### **VIVANCO** SR222

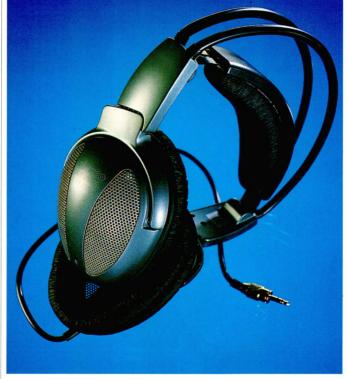
ncorporating what Vivanco calls an Airspace stereo system, the SR222 combines a futuristic design with earphones that are described as half-open and have both pads and speaker in contact with the ear.

The result is a headphone that possesses remarkably clear sound quality, but is defeated by clumsy ergonomic design. From the moment you put the 'phones on, you notice the awkward positioning of the pads, headband and speakers. It makes you wonder whose head they used as a guide..

Vivanco has obviously compromised comfort for performance. At £30, they may be the cheapest of all the models in the group, but the wearability is proved poor for me. The pads are too hard, the speaker units rub and the double headband does little to ease the pressure for prolonged periods. The cable length is sufficient at 2.7m, but could do with being a little longer.

#### **SOUND QUALITY**

The SR222 is a good performer with a gentle, natural and bright response with the majority of musical types. In



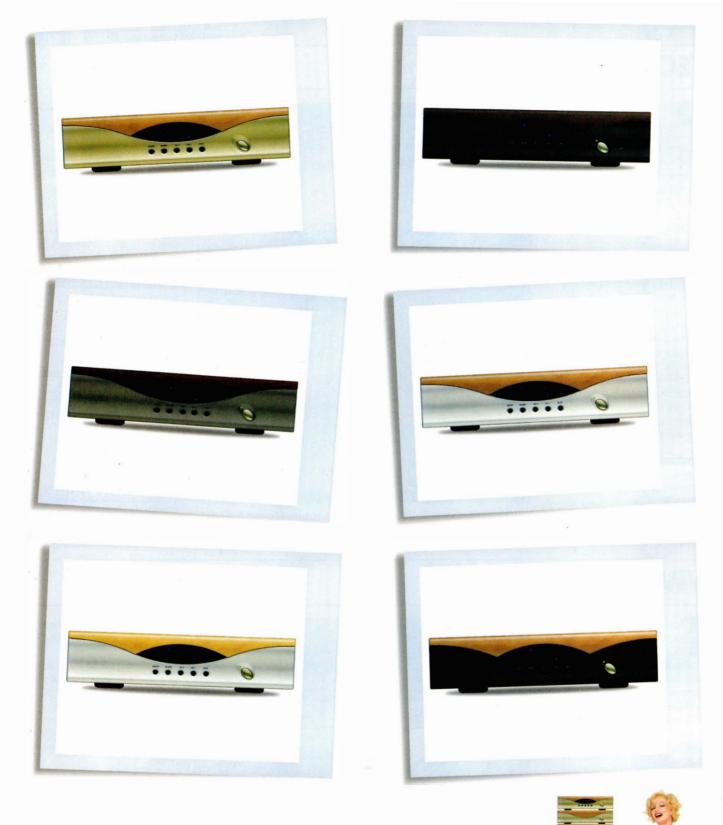
particular, jazz, classical and blues are portrayed with a dynamic verve surprising for such a budget priced model. Not surprising for a budget

headphone is the reduction in bass depth and attack. Listening to Prince's Dance On, the SR222's Achilles heel is evident. The lower

frequencies are smothered and uninspired with those heavy bass

Considering the potential value for money it offers in sound alone, surely it would be easy to forgive the wayward design? But user comfort is an integral ingredient in the enjoyment factor and this, like Chris Waddle, misses the target by a mile.





...so you just want black?





# CONCLUSIONS HEADPHONES

A fter spending many an hour enveloped inside this selection of headphones, the results should be conclusive and there should be clear winners. But sometimes, theory and practice are miles apart – as in this case. Hours of listening have made me realise just how intimate the headphone experience can truly be and how complex the decision making process is.

Forget about expensive loudspeakers, if you want to really explore the workings of your favourite tracks in fine detail then a great set of cans is the only way. Songs that you have enjoyed for years can seem reborn when revisited through a pair of high quality headphones. Similarly, a sub-standard model can reduce your music to a depressing mishmash of notes and noises.

Making the right choice is never easy with the plethora of models available. And in this test, we have targeted corded products only, but the world of wireless is just another piece in the puzzle.

Choosing the right model for you is a matter of taste – both sonic and ergonomic. Musical preferences will be the main factor in selecting the right headphones. Whether you prefer dance or classical, it is vitally important to purchase a product that is versatile with all musical forms. There are many questions and dilemmas to torment the soul: price, design, comfort and performance are major considerations. The best strategy, as always, is to test drive the products before you buy.

Each product in the group is worthy of note but, as they say, there has to be a winner. In fact there are four winners. These champions have been awarded their grades because they exhibit all the ingredients I have talked about with assurance, efficiency and style.

## HI FI CHOICE BEST BUY

**TECHNICS** RF-F800 £49.99 The smallest on offer, these Technics headphones are an engaging listening experience for a remarkable price. It offers a clean and surprising bass response coupled with lively mid and treble ranges.



**BEST BUYS & RECOMMENDED** 

AKG K100 £35.95

An all-round, assured headphone that is extremely comfortable to wear and has a very respectable price tag attached. Dynamic mid-range and treble and slamming bass are its major strengths.





JVC HA-DX3 £200.00
The surprise package of the test, these
JVC headphones are dynamic and
competent performers of great clarity
and assurance. Great to wear, it copes
admirably with everything you can
throw at it.



STAX System II £400.00 Looks ungainly, but this is the Rolls Royce of the test. An extravagant model that is worthy of its price tag due to its delivery of electrostatic loudspeaker sound quality in the confines of a headphone.

	H I	EADPH	O N E	S C	OMPA	RISO	N T	ABL	E	
MAKE	AKG	BEYERDYNAMIC	GRADO	JVC	PHILIPS	SENNHEISER	SONY	STAX	TECHNICS	VIVANCO
MODEL	K100	DT531	SR325	HA-DX3	HD910	HD590	CD2000	SYSTEM II	RF-F800	SR222
PRICE	£35.95	£105.00	£300.00	£200.00	£80.00	£159.95	£200.00	£400.00	£49.99	£30.00
SOUND	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
BUILD	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
COMFORT	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
VALUE	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
GUARANTEE	1yr	1 уг	2yr	2yr	Туг	2уг	lyr	2уг	1уг	lyr
WEIGHT	190g	245g	200g	340g	247g	270g	300g	295g	160g	248g
CORD LENGTH	3m	2.5m	2m	4m	3m	3m	3.5m	2m	3m	2.7m
TYPE	Open	Open	Open	Closed	Open	Open	Closed	Open	Closed	Open



#### Tomorrow's Technology Today





From high-end audio and home cinema to the latest digital delights, if it's hi-tech and cutting-edge it's in **73** 

August issue on sale now. Don't miss it

Get **THREE** trial issues of **73** delivered **FREE** for just **£6.95!** 

www.t3.co.uk

## READER CLASSIFIED













- Musical Fidelity E100 (amp), E600 (CD), E500 (tuner) as new, boxed, c/w system remote and VDH leads (£1,900) £1,000. Immaculate Michell Bronze Gyro (unique spec), RB300, AT OC5, QC power supply (£1,800+) £1000. Going surround! Call (01474) 704382 or (07747) 642272 (North Kent).
- Audiolab 8000 CD/Q/2xm, £1,800. B&W P4 (Cherry), £250. Audioquest Midnight plus 2x5m pairs, £300. Quartz 3 interconnects x2, £100. Call Simon (01442) 392004.
- Linn Classic (white), sealed box, £850. AudioNote CD2, sealed box, £550. B&W CDM7SE Speaker, red ash, as new, £675. Call (01952) 502097 (Telford).
- Linn Karik 3, Numerik, Kairn (phono), Klout, tri-wired Kabers, all cables, interconnects, remote, etc, Soundstyle table, mint, £3,500. Will not split. Call (01279) 718072.
- Arcam alpha 5 CD player, upgraded to 6 spec by Arcam, excellent condition, £175. Call (01323) 486216 (eve).
- Monitor Audio Studio 20SEC Cherry, as new with plinths and manual, boxed. £1,900 new, will accept £1,400.
   Call (07720) 061885.
- Rotel RB981 power amps x2, stereo or bridged. Latest model, £720 new, will accept £390. Would split. Audiolab 8000T, boxed, (£800) £350. Call (01904) 708382 or (0403) 656458.
- TEAC VRDS 10, CD player, excellent condition, complete with original box, remote control and manual, £280. Call (07801) 948015.
- Castle Winchester speakers, excellent condition, £400 (£1,200). Call (01704) 550247.
- Castle Howard S2 speakers, oak, immaculate condition. Demonstration available. Originally £1,200, exceptional sound quality for £600 o.n.o. Call (01843) 298538.
- Castle Severn II speakers, rosewood, lyr old. £200. Pioneer A407R amp, £50. All excellent condition. Call (01795) 479303.
- Kenwood tape deck KX3060, £50. Kenwood tuner KT2060L, £30. Both excellent condition. Call (01795) 479303.
- Arcam Alpha7 CD player, Rotel RC-970BX pre-amp, Rotel RB-970BX power amp, Mission 734 speakers, Van den Hul interconnects, £650 o.n.o. Call (07973) 422841.
- Pair of Townshend Seismic Sinks. Since bought Soundstyle racks, can't accomodate platforms also – hence reluctant sale. Mint. Sensible offers. Call Darren (020) 7473 4095.
- Meridian 506.1 CD player plus 551

#### **ADVERTISE IN HI-FI CHOICE FOR £5\***

To advertise on this page, write your advert in block capitals and send it to: Reader Classifieds, *Hi-Fi Choice*, 99 Baker St, London W1M 1FB. Include a cheque for £5\* made payable to **Future Publishing Ltd**. The advert will appear in one issue only, must be no more than **20 words** (or five lines) long, and **must** include your phone number.

Please ensure your ad is clear and legible (if possible, typed) and give your name, address (if these aren't included in your advert) and daytime phone number in case we need to check anything. Reader Classifieds are for the use of private individuals only. All Reader Classified adverts will be printed on a first-come, first-served basis, subject to available space, and Future Publishing Ltd accepts no liability for the accuracy of the information contained therein, nor any consequence arising from it, nor for any typographical errors.

We reserve the right to amend or refuse adverts at the Editor's discretion and cannot guarantee that an advert will appear in any specific issue. \*This service is FREE to subscribers, provided that their subscriber number is enclosed.

- amplifier + remote, manuals, all boxed, immaculate condition, £950. Call (01562) 742683 or (0966) 391123.
- Mana Acoustics Sound Bases, £80
   pair. Flatline gold bi-wire speaker
   cable, 2x2.5m, £25. Hitachi DE57
   cassette deck, £30. Call (01733) 706175.
- Townshend Glastonbury prototypes. Ribbon tweeter, metal coned bass, plaster cabinets, spiked mini-stands, 100cm tall, £395. Call (01926) 740254.
- Cyrus 3 Amplifier. Great sound, immaculate condition, boxed. £250 o.n.o. Call (01455) 633350.
- Musical Fidelity X-Tone tone control, mint, boxed, £40 o.n.o. Call (01730) 892507.
- Save over £100. Denon DCD835 CD player, brand new and unused, unwanted prize, £175 or very near offer. Call (01992) 572098.
- Naim Audio CDX, NAC102/PSC, Hi-Cap, 3xNAP180s, EPOS ES22s plus stands, cables, etc. All three months old, boxed, immaculate. Call (01773) 832738.
- Restek Concret CD player, £1,750 o.n.o. Restek Fable amp, £1,350 o.n.o. Both as new condition, boxed, etc. Call (01206) 211172 (Colchester).
- Naim 32-5/110 and 2x5m A5 cable, £395 o.n.o. LP12/ITTOK/K18, £345 o.n.o. Call (01332) 769779.
- Harman/Kardon tuner/amplifier, 5 CD player, Infinity Delta 60 speakers, new, boxed, Value £1,330. Accept £950 o.n.o. Call (01752) 311876.

- Michell Argo HR pre-amp with Hera PSU, upgraded with Panasonic pot volume control. Mint. £499. Call (01952) 406759.
- Leak Troughline 2 valve tuner, original maroon and gold. Valves and components to spec, serviced. Plus De Paravicini Stereo Tube Decoder, superb condition. £235. Call (01202)
- Nakamichi 1.5 cassette deck. £275 o.n.o. Call (01296) 433217.
- Quad 99 stereo power amp, boxed and virtually unused due to upgrade.
   Two-year guarantee remaining. £450 o.n.o. Call (0118) 931 6585.
- Sound Organisation 2 shelf hi-fi stand, £25. Motion Electronics TV tuner, £25. Luxman CO2 pre-amp, MO2 power amp, £600. No offers. Call (01708) 457691.
- Harman Kardon HK1400 amp, £100 o.n.o. Yamaha DSP E390 AV processor, £50 o.n.o. All boxed. Call (01484) 718640
- Rega Planar 9 turntable (£1698) £1150 o.n.o. Naim Headline/PSC headphone amp (£401) £315 o.n.o. Naim CDs CD player, boxed (v. late serial number) £2050 o.n.o. Naim CD3 CD player £565 o.n.o. Call (0118) 9461132 eve, (0118) 9585463 day.
- Sony 715E CD player, two outputs, "A gold-plated Best Buy" *HFC*. Excellent condition. £200 o.n.o. Call (01782) 744875.
- Krell KSA100 Mkll, £1,300. Audio

Research pre-amp SP14, £1,100. Copland CDA277 CD player, £900. Sonus Faber Speaker Concerto with wood/iron stand, £950. Or all for £4,000. (Herts.) Call (01707) 392063.

- Naim NAP250 (Naim serviced Jan 2000) £765 including carriage. Call (01200) 426983.
- Monitor Audio 14 speakers, black, floorstanding cabinets with spiked feet, boxed with quality cables, very good condition. £120. Call Chris (01444) 443144.
- Grado RS1 Reference wooden headphones. One month old, hardly used. Cost £695. Sell for £400. Call (01745) 338328.
- Castle Howard S2 Antique Oak (original price £1,200) £675! Immaculate, boxed with instructions. Call Steve (01474) 352435 or (07768) 512850. (Gravesend, Kent.)
- Audiolab 8000s, 1.5 years old, boxed as new, inc Chameleon2 interconnect (£80 new) plus Sony Dolby S cassette recorder (£300 new), £500 o.n.o. Call (0790) 9913322.
- B&W P5 floorstanding speakers, astounding sound and looks, 1.5 years old, boxed as new, will include two 3m Linn bi-wire cables (£100+ new), £600 o.n.o. Call (0790) 9913322.
- Epos ES22 floorstanding speakers, cherry finish, excellent condition (£1,350 new), £500. Call John (01202) 516289 evenings, or (01425) 489196 daytime.

#### WANTED

● Tannoy 638 Profile speakers, must be good condition. Call Mark (020) 8429 3664 or (07887) 720868.

## (9)

## **BUYING TIPS**Buying secondhand can be

a great way to pick up a bargain. A formerly-expensive secondhand component might well prove a better long-term bet than a brand-new product engineered down to a price. Do some research on which brands and products have a good service back-up, so if something does go wrong, you can get it fixed. Unless you purchase from a second-hand hi-fi dealer, you're unlikely to get any warranty. So it's up to you to ensure the fitness of any gear that you buy. Products such as speakers should be less prone to breakdown than amplifiers, and amps should be more reliable than CD players. But any abused component could be troublesome - have a proper dem, and



judge the seller as well as the goods!

BIRMINGHAM



## MUSIC MATTERS





Our extensive range of products includes the very finest hi-fi and home cinema from Arcam, Audioquest, Audio Research, B&W, Castle, Celestion, Chord, Cyrus, Denon, DPA, Dynaudio, Jamo, KEF, Kenwood, Krell, Marantz, Martin Logan, Meridian, Michell, Mission, Monitor Audio, Musical Fidelity, Panasonic, Pioneer, Polk, Pro-Ac, Project, Quad, REL, Rogers, Rotel, Ruark, Sennheiser, SME, Sonus Faber, Tag McLaren, Tannoy, TEAC, Technics, Theta, Thorens and Yamaha.

A wide range of classical CD's is available at our Birmingham branch.

Open Tuesday to Saturday 10.00 - 5.30. late night (not Stourbridge) Thursday till 7.00



INTEREST FREE CREDIT ON SELECTED ITEMS
APR 0%. Written details on request.
Licensed Credit Broker.

ISA • MASTERCARD • SWITCH • AMEX • DINERS

363 HAGLEY ROAD, EDGBASTON, BIRMINGHAM B17 8DL.

TEL: 0121-429 2811 FAX: 0121-434 3298

93-95 HOBS MOAT ROAD, SOLIHULL, WEST MIDLANDS B92 8JL

TEL: 0121-742 0254 FAX: 0121-742 0248

9 Market Street, Stourbridge, West Midlands DY8 1AB

Tel: 01384 444184 Fax: 01384 444968

BRANCH NOW OPEN 10 Boldmere Road, Sutton Coldfield, West Midlands B73 5TD Tel: 0121 354 2311 Fax; 0121 354 1933

#### BIRMINGHAM



## HI-FI CHOICE

#### BRISTOL

#### V'audio Hi-Fi Consultants

Home demonstrations and honest advice a speciality, using specially selected equipment from AVI, ALON, ELECTROCOMPANIET, HEYBROOK, RUARK, SHEARNE, AUDIO ALCHEMY, OPERA,

ORACLE, MICHELL, MARK LEVINSON etc. Home cinema on demonstration using: NAKAMICHI, HARMAN-KARDON, SONY, DAVIS, SELECO, STEWART SCREENS, JAMO, TRIANGLE etc

Please ring for an appointment

36 Druid Hill, Stoke Bishop, Bristol BS9 1EJ. Tel: 0117 968 6005

#### VISA

E

F

1

X

0

S

#### BERKSHIRE

#### -Frasers-

Independent Audio Visual Specialists for over 16 years Demo Room Available

Brands include:

• ARCAM • B & W • CASTLE • DENON •

• (DENON GOLD) • KEF •

• LOEWE • MARANTZ • MISSION •

• MUSICAL FIDELITY • NAD • NAKAMICHI •
PIONEER • QUAD • REL • ROTEL • SONY •

• TALK ELECTRONICS • TANNOY •

• TEAC • YAMAHA

• TEAC • YAMAHA
Unit 35, Observatory Centre, High Street,
Slough, Berkshire SL1 1LE
Tel: (01753) 531785

WARRINGTON STORE 01925 636215

#### CHESHIRE

## SADA TITISH AUDIO DEALERS ASSOCIATION TE Symbol of security

#### Doug Brady Hi-l

Family business est. 1960. Home trials. Systems £500-£60,000: CD/DVD/VINYL/AV

Kingsway North, Warrington Tel: 01925 828009 Fax: 825773 2.3miles J21-M6. Private Parking Map FAXED & on website www.dougbradyhifi.com Email:

doug.brady@dougbradyhifi.com

HI-FI SEPARATES

MINI-DISC

**SYSTEMS** 

**DOLBY PRO-LOGIC** 

G

E

M

#### CHESHIRE

• TECHNICS • PIONEER • MARANTZ • TANNOY • SENNHEISER •

AKG • HARMAN-KARDON • PANASONIC • ROTEL • TEAC • JAMO •

WARRINGTON←□□□

01244 320414

JDIO-VISUAL CENTRES

#### BUCKINGHAMSHIRE



#### CUMBRIA

## ....Setting new standards in Hi-Fi retailing!

If you want to see the best brands want a great deal with the best service and demo included - pay us a visit.

6 ABBEY STREET, CARLISLE (01228) 546756 www.petertyson.co.uk

## CAMBRIDGESHIRE

DVD, VIDEO

**AC-3 SOUND** 

**CHESTER STORE** 



Please refer to dealer directory for further details

28/30 Burleigh Street Cambridge CB1 1DG Phone: 01223 461518 Fax: 01223 576743

#### **ESSEX**

**OPEN SUNDAYS 12am-3pm** 

wav@freenetname.co.uk



Akai • Alphason • Arcam • B&W • Bang & Olufsen • Cable Talk • Celestion • Dual • Loewe • Marantz

• Nakamichi • NAD • Pioneer • Pro-ject • Roberts Radio

• Ruark • Sennheiser • Sony • Tannoy • Target • Yamaha

148 HIGH STREET • EPPING • TEL: (01992) 574242 26 KING STREET • SAFFRON WALDEN • ESSEX • TEL: (01799) 523728

#### **HERTFORDSHIRE**

#### **AcousticA**rts

AUDIO MULTIROOM HOME CINEMA

FROM THE AFFORDABLE TO THE STATE OF THE ART

ALL LEADING BRANDS ESTABLISHED OVER 20 YEARS FOUR DEMONSTRATION ROOMS - TWO CINEMA DELIVERY AND INSTALLATION AVAILABLE MULTIROOM DESIGN AND INSTALLATION HOME DEMONSTRATION MAIL ORDER - WORLDWIDE

**JCT LISTING SEE** 

5 MINUTES FROM M25 AND M1 CREDIT - INTEREST FREE & BUY NOW PAY LATER 101 ST ALBANS ROAD, WATFORD, HERTS WD1 1RD Tel 01923 245 250/233 011 Fax 01923 230 798

STATE OF THE Arts

#### **IRELAND**



KEF THX Speakers TAG/MERIDIAN Processing TAG, ROTEL Power SONY Vision BOSE Digital...

> Telephone 353 1 6714343 Fax: 353 1 6714398 email: info@hificorner.ie

#### **IRELAND**

#### Hearing is Believing



55 Main Street, Blackrock, Dublin

Tel: (01) 2889449/2888477 Open: Tues - Sat 10 am to 6 pm. Thur - Fri 10 am to 9 pm.

Arcam B&W Castle Meridian Classé Marantz REL Tag Mclaren Jadis

**Living Voice** Copland Yamaha

Advertising in Hi Fi Choice works... you're reading this, aren't you?

**HERTFORDSHIRE** 

## Radlett Audio

#### THE HIGH-END SPECIALIST SINCE 1978

ATC, Audio Analogue, Avantgarde, Bow, Bryston Copland, EAR, Lyra, Mark Levinson, Naim Audio, Notts Analogue, PMC, ProAc, Proceed, Rega. Roksan, Ruark, Sonus Faber, Stax, Sumiko. TAG. Teac. Wadia and lots more

9 Holywell Hill, St. Albans, Herts. AL1 1EU Tel: 01727 855577 • Fax: 01727 858727

#### **KENT**

#### Canterbury

SPECIALISTS IN QUALITY AUDIO & VIDEO EQUIPMENT AUTHORISED STOCKISTS OF

Acoustic Energy • B&W • Celestion • Denon KEF • Kenwood • Marantz • NAD • Panasonic Pioneer • REL • Rotel • Sony • Tannoy Technics • Yamaha Mon-Sat 9.00-5.30

Unit 1, St George's Centre, Canterbury, Kent CT1 1UL Tel: (01227) 765315

#### **KENT**



#### FOR TOTAL HI FI & AV SHOPPING

MARANTZ • TANNOY • TECHNICS • PANASONIC • PIONEER • SONY • JVC • JAMO • TOSHIBA • HITACHI

109 BROADWAY, BEXLEYHEATH, **KENT DA6 7JH** 020 8298 7880

Mail Order: 01474 353000 (not available on Marantz)

#### **ESSEX**

#### **GRAYSTON** sound&vision

Comfortable demo rooms Free delivery/installation Home trials Musical evenings Excellent credit facilities available

CASTLE ACOUSTICS LOEWE, LINN, THOMSON MERIDIAN ARCAM, B&W BOSTON HARMAN/KARDON PHILIPS, MICHELL DENON, ROTEL MUSICAL FIDELITY ALCHEMIST. HARBETH KEF REFERENCE PIONEER, TEAC VIENNA ACOUSTICS

33 Sir Isaac's Walk, Colchester. Tel 01206 577682

#### **HERTEORDSHIRE**

#### Alidio File

COME AND EXPERIENCE HI FI AND HOME CINEMA AT ITS BEST

THE AUDIO FILE, 27 HOCKERILL STREET, BISHOP'S STORTED HERTFORDSHIRE CM23 2DH TEL: 01279 506576 FAX: 01279 506638 WEBSITE: www.audiofile.co.uk ABSOLUTE SOUNDS ACOUSTIC ENERGY BOSE ■ MISSION MILLER & KREISEL PMC ■ ARCAM **DENON** ■ **SONY** CYRUS ■ REGA LINN E NAIM TAG McLAREN SONY ■ PIONEER MISSION **LOEWE** ■ TEAC YAMAHA KEF ■ CASTLE MARANTZ PRO AC ■ QED SYSTEMLINE WHARFDALE NAKAMICHI

#### LINCOLNSHIRE

#### Lend us your ears and we'll blow your mind . . .

Arcam, ATC, B & W, Celestion, Denon, Kenwood, Kef, Marantz, Meridian, Michell, Mission, NAD, Pioneer, Panasonic, Quad, Rotel, Ruark, Sony, Tag McLaren, Tannoy, Teac, Technics, Yamaha and more.

Audition the very best at Lincolnshire's premier Hi-Fi dealer . . .



2-4 EDWARD STREET (Off Pasture St.) GRIMSBY. TEL: (01472) 351391

## HI·FI CHOICE I HI·FI CH

#### The best in sound advice from Kent's premier audio dealer

Linn CD12, ARCAM FMJ CD and Amp + PMC FB1's on

demonstration. If you haven't heard them, you ought to.

We also have the new Ikemi and Genki CD players for you to listen to with the addition of the new Classik, now with a free tuner and available in a variety of colours.

Naim NBL loudspeakers, CDS-III and NAP 500!!

You really need to audition this combination in our studio, bring some CD's

Soundcraft Hi-Fi
Isound advice from Kent's premier audio dealer
IRCAM FMJ CD and Amp + PMC FB1's on
on. If you haven't heard them, you ought to.
en ew Ikema and Genki CD players for you to listen to with the
we Classik, now with a free tuner and available in a variety of colours
udspeakers, CDS-II and MAP 500!
It to audition this combination in our studio, bring some CD's
the channel surround sound studio, complete with
12\* Plasma for that total entertainment experience.
It individuals sold with warranty, so you'll need to be quickur complete enjoyment our custom install team are available
best music system, home einema or music round the house,

At 40 High Street, Ashfor Visit our multi-channel surround sound studio, complete with widescreen 42" Plasma for that total entertainment experience. Visit Our multi-criainter surround source widescreen 42" Plasma for that total entertainment experience All items listed are individuals sold with warranty, so you'll need to be quick! To guarantee your complete enjoyment our custom install team are available; whether it is our best music system, home cinema or music round the house,

will get it sounding and looking great.

check our website: www.soundcraftkent.ltd.uk

Music Technology Condor
Music Technology Hawks
Marantz CD67-MMI (ex-dem)
Marantz PM66KI Sig, Amp
Naim NAC 72/NAP90
Sam NAC 72/NAP90
Sam NAC 72/NAP90
Sam NAC 72/NAP90
Sam NAT 102 Tuner ex-dem
Pioneer DV-525 DVD Player
Quad 34 Pre & Quad 306 Pwr £299
Ruark Icons (ex-dem)
Euark Sabres with stands
Sony DVP-S725 DVD Player
DL RTL-3 in cherry (ex-dem)
E200
TDL G30 in cherry (ex-dem)
E300
TDL RTL-3 in rose (ex-dem)
E301
T1124 8TE. Our exciting range

At 40 High Street, Ashford, Kent TN24 8TE. Our exciting range includes: Arcam, Ruark, Linn (CD12 in stock), Loewe TV, Naim, Rega, Rotel, Musical Fidelity & PMC.

To advertise in our

#### Dealer Guide

or our

## EALER

**Directory** 

call Andy Maxey on

2600

LONDON LONDON LONDON

#### AHD CONCEPT

#### 27 BOND STREET, EALING W5 & 020 8567 8703

AAVIK, APOLLO, ASH DESIGN, AUDIO ANALOGUE, BANG & OLUFSEN, BOSE, BOSTON, B&W, CABLE TALF WARM, PULLUL, PART LESISM, WILLIAM PROLICOUS PARMS & MUTIESM, PULSE, BUSINE, BOWN, BOWN, CHIEF PULS CHORD COMPANY, COSMIC, DENON, ELAC, EPOS, HARNON KAPRON, BLE, EF, MARANIZ MESSION, MUSICAL FIDELITY, MAKAMICHI, NORDOST, ONNYO, OPERA, CREILE, PRIMARE, CUIAQ, REL, POKSAN, ROTEL, RUARY, SONICLINK, SOUND STYLE, STANOS UNIQUE, STRAIGHTWIRE, SUPPA, TAG MCLAREN, TAKK ELECTHONICS, TARGET, FIEC, THORENS, WAN DEN HUL

Two demonstration rooms.

Repairs & Service, Closed Wednesday

#### LONDON



0% Instant Finance Available

Written details on request
Demonstration Room - Free car parking - Major Credit Cards
Personal Export - Mad Older - installation Service - Regair facilities
S miss lowak Raymas Park 8H - 20 miss Waterloo
S miss lom AR I Players Park 28E-20ct | 25 miss MES Junc 10
60 Durham Rd, West Wimbledon, London SW20 0TW
Tel: (020) 8946 1528 Fax: (020) 8946 0331
Email: obrienhi-fi@iname.com

#### **MERSEYSIDE**



Naim Audio, Linn Hi-Fi, B&W Loudspeakers, Knekt Multirooms, Musical Fidelity, Arcam and more



sales 0151 227 5007 Fax 0151 236 1403

email info@hi-fi.demon.co.uk Compuserve 100060.551

16 COOK STREET, LIVERPOOL

All Cards Accepted

#### **NEWCASTLE**



54-56 Grainger Street • Newcastle upon Tyne • NE1 5JG Tel: 0191 230 4141 • Fax: 0191 230 4343

Newcastle's latest independent specialist dealer
Our carefully selected product range includes:
Acoustic Energy • Alchemist • Creek • Chord • Dali
Epos • Craaf • Jamo • Monrio • MIT • Nakamichi • Neat
Onkyo • Ortofon Project • Panasonic • Polk Audio • Ouad
Sugden • Rega • 18A • Technics • Thule • Unison Research
Van den Hul and others.

We offer:

We offer:

Friendly and helpful advice from our experienced staff, two demonstration rooms with free delivery and installation.

Most products carry a free three year guarantee.

Finance is available and major Credit Cards are accepted.

Open Monday to Saturday from 10am to 5pm.

We are multi-region DVD specialists.

Email; andrew@newcastleaudio.freeserve.co.uk

**ADVERTIS** 

THE INNOVATIVE AUDIO/VISUAL HIFI RETAILER

SERVING LONDON FROM BATTERSEA

### ORANGES & LEMONS

020 7924 2040 61/63 WEBBS ROAD, SW11

Our sixth succulent year

0% Credit Finance available

ARCAM. B&W. CABLETALK. CASTLE. CHORD CO. DENON. EPOS. KEF. MARANTZ. LINN. NAD. NAIM. NEAT. QUAD. REGA. ROTEL. ROYD. RUARK. SOUND-STYLE. STANDS UNIQUE. YAMAHA

Visit www.orangesandlemonshifi.com

#### LONDON

STOCKISTS OF: Acoustic Energy, Advantage, Alon, ATC, Audible Illusions, Audio Physics, Boulder, Bryston, C.A.T, Cary, Chord, Clear Audio, Denon, DNM, Dynavector, Egglaston Works, Graham, Helios, Meracus, Michell, Musical Fidelity, Nordost, Oracle analogue and digital, P.M.C., Plinius, Quadraspire, Rockport, Shahinian, SME, Tara Labs, Target, Teac, Totem, Transfiguration, Trichord, Trilogy, Van den Hul, VPI, Wilson Benesch, Zingali. Players now available from Sony, Panasonic, Pioneer and many more.

- · Best prices paid for top quality equipment
- Generous part exchange
- € Show room/demo room
- Long term trade-in policy, to allow continual upgrading
- € All credit cards inc. Amex
- Mail order
   Export service
- Finance arranged subject to status
- Widest range available
- € In-depth experience on high-end used equipment
- € Unbiased advice
- Unique 'Hı-Fi Exchange' a computerised database of sales and wants - will put you in touch

tel 020 8392 1959 & 020 8392 1963

#### **NORFOLK**



The Old School School Road Bracon Ash Norfolk NR14 8HG Tel: (01508) 570829

BADA THE CLETCHARLES

#### Basically Sound of Norfolk

STOCKISTS OF LEADING HI-FI

SIOKNISI G LEADING HEPI Ambio Madigue, Beyer, Dynayetor, Final, PMC, Bryston, Sound Organisation, Teac, Naim Andio, Chario, Ghord Go, Opera Speakers, Denon, Ejos, Grado, Proke, QED, Rega, Royd, Soundstyle, Stax and others, O'6 Finance Available







#### **MIDDLESEX**



#### **MANCHESTER**



www.sales@centralradio.co.uk

#### SCOTLAND



#### SCOTLAND



520 ST. VINCENT STREET FINNIESTON GLASGOW 0141 221 0221 26 HAMILTON PLACE STOCKBRIDGE EDINBURGH 0131 226 6500



#### SOMERSET

#### SOUTH WEST ANALOGUE

SME • MICHELL • NOTTINGHAM ANALOGUE GARRARD PROJECT ORTOFON • ELECTROCOMPANIET • TUBE TECHNOLOGY • CASTLE . TARGET . UNDERSTAND SUPPORTS

Stunning SME Model 10 always in stock

01643 851351

Graham Whittley. Mon-Sun 9am-9pm Record Cleaners - Cleaning Service - Quality secondhand items

#### SUFFOLK



#### SURREY

Front End Problems?

#### The Cartridge Man

Decca – eater

Also agents for Croft, Moth. Hadcock & Michell & E.A.R.
/alve equipment re-build service available, also Cartridge Man Electronic stylus gauge

Plus cartridge re-tipping service 020 8688 6565

Website: Listen.To/Thecartridgeman

SUSSEX

# REL • KEF • RUARK

CABLETALK • ROTEL

NAD • TANNOY

NORMAN ROAD, ST LEONARDS-ON-SEA, EAST SUSSEX

MERIDIAN • YAMAHA

MARANTZ • TACT

TALK ELECTRONICS

DYNAUDIO

#### SUSSEX

#### WORTHING AUDIO

20 Teville Gate, W. Sussex BN11 1UA Tel: (01903) 212133

The friendly shop with the best sound systems in the South.

Friendly advice • 3 yr guarantees • easy parking Open Mon-Sat 10am-6pm Late night Wed 7:30pm

Agencies include: Dynaudio, Exposure, Marantz, Orelle, Origin Live, Restek, Ruark, Audio Technica, Talk Electronics, Target, TDL, Tripod and many more

WATERFORD

**SPECIALIST** 

Arcam, Cyrus, Marantz, Pioneer, Tag

McLaren, B&W, Castle, Technics,

Acoustic Energy, Jamo, Sony, Bose

Rotel, Tannoy and Yamaha

TWO DEMONSTRATION ROOMS

TRADE-INS WELCOME - FINANCE AVAILABLE

WATERFORD

**IRELAND** 

(051) 872622

#### SUSSEX

lackcurrent

PHASE 2 HIFI

LEADING HI-FI & 'HOME CINEMA' SPECIALISTS FOUR LISTENING AND VIEWING STUDIOS \*EXPERIENCED AND FRIENDLY SALES STAFF 

213-215 TARRING ROAD, WORTHING, WEST SUSSEX BN11 4HW TEL: (01903) 245577 FAX: (01903) 505824

#### ADVERTISING IN HI FI CHOICE WORKS...

YOU'RE READING THIS, AREN'T YOU?

#### WIGAN

#### WILLIAMS HART

SPEAKER DESIGN SERVICE and MUCH MORE.



ONE OF THE BEST AMPLIFIERS YOU WILL HEAR.

AWARD-WINNING PHONO STAGE KIT, See my web site at http://users.classicfm.net/williamshart e-mail: williamshart@classicfm.net or for a free catalogue, Tel/Fax: 01942 253647 or write to: 121 Long Lane, Hindley Green, Wigan WN2 4XD New kits available from 21st July

#### YORK



More info at.. WWW.Vickers-HiFi.co.u



We are working on the leading up to Christmas and the New Year.

To be seen in these issues call Andv Maxev on 020 7317 0259

CONSUMABLES

#### www.tapecity.co.uk **Mini Discs** Cassettes

Traxdata MD74 from 89p	AUDIO CD-Rs	TDK - all lengths available
Traxdata MD80from 99p	Traxdata 74minfrom 89p	D9069p
	Traxdata 80minfrom 99p	SA9079p
Sony MD74 £1.10	Traxdata CD-RW74£1.99	SA-X90£1.39
Sony MD80 £1.49	Unbranded CDR7499p	Maxell - call for all lengths
Sony ES74 £1.75		UR9059p
	COMPUTER DATA CD-Rs	UDII9085p
TDK MD74£1.15	Unbranded from 59p	XL-IIS90£1.29
TDK MD80£1.55	Branded from 69p	Short Cassettes - CALL
TDK Studio MD74 £2.75	Various brands available	DAT/VHS etc - CALL

020 8813 8082



WORLD WIDE WEB

## www.HiFiBitZ.co.uk ALL your HiFi needs

REVO



THE MANUFACTURERS APPOINTED SERVICE COMPANY

Correct Revox Spare Parts Pricing 24 Hour Estimation procedure Manufacturer Upgrades and Advice **Delivery and Collection Service Comprehensive Guarantees** 

**Factory Trained Engineers Rapid Response Turnaround Full Revox range serviced** Written Technical Reports **Late Evening Opening** 

HEAR I ECHNOLOGY Telephone 01525 841999 Facsimile 01525 841009

Total customer care

- Expert, impartial advice on all aspects of audio & video, given by trained staff
   Products specially selected for quality, performance and value
   Personal demonstrations -

- Listen before you buy!

  4. A home delivery and installation option for optimum performance

- Total peace of mind
  1. A 10-day purchase exchange programme
- 2. RADA's Free extended 2-year Guarantee on all new hi-fi and home cinema separates
  3. The option to transfer the Guarantee to
- any one of 120 BADA members nationwide
  4. Deposits safeguarded by the BADA
- Bonding Scheme

#### **FURNITURE**

#### lan's is The Best

Hi-Fi, Books, LPs, CDs

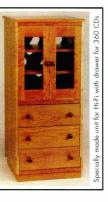
SPECIALS OF ALL SORTS

Veneers in Oak, Ash, Cherry, Mahogany, Walnut, etc.

IAN EDWARDS The Old Chapel, 282 Skipton Road • Harrogate • HG1 3HE

Telephone:01423 500442

www.iansbespokefurniture.co.uk



CARTRIDGES
Trade in your old moving coil and save up to 45% off a new one!!

I CAN ALSO SUPPLY: TURNTABLES, TONEARMS, CASSETTE DECKS, CD PLAYERS, DAT, MINIDISC, CDR, LOUDSPEAKERS, HI FI FURNITURE, AMPLIFIERS, TUNERS, ACCESSORIES, BLANK TAPES & DISCS, TEST OD'S, TEST RECORDS, TEST CASSETTES, CABLES, AERIALS, TRACKING FORCE GAUGES, ALIGNMENT PROTRACTORS. All goods are brand new & boxed with full U.K. guarantees. No ex-dem or ex-display equipment. No grey imports. Delivery is free. Sorry, no general catalogue. Please phone or write for specific details.

IAN HARRISON HI FI (MAIL ORDER ONLY)
From: 7 MILL HILL, REPTON, DERBY, DE65 6GQ.
TEL: 01283 702875 9am-9pm including Sundays

To advertise in our

#### Dealer

Guide

of our

## DEALER

Directory

call **Andy Maxey** 

020 7317 2600



BRITISH AUDIO DEALERS ASSOCIATION

PO Box 229 London N1 7UU Phone: 020 7226 4044 Fax: 020 7359 7620

E-mail: bada1@compuserve.com For further information please see our web site: http://www.bada.co.uk or ring for our information pack

**EX DEM SPEAKERS** 

Hoathordalo Audio Ltd 202 Findon Road, Worthing BN14 0EJ Pre-owned Equipment Available with Guarantee Export Facilities Available
Visit our Web Page: www.hifi-stereo.com Main dealer for Mark Levinson Reference products アシア アルミ CONNOUS UR WILSON MAXX IN FERRARI GREY £24995
MARK LEVINSON 30.6 DAC 24/96 plus HDCD £11995 Cello Reference Standard DAC £2995 NOW DEMONSTRATING THE MARK LEVINSON 383 INTEGRATED AMP
SPEAKERS
Wilson Maxx in Ferrari Grey (less than 4 months old)£24995 B&W Matrix 3 Speakers, ex cond, boxed£695 Linn Isobariks with Stands
PRE-AMPS
AVI \$2000 MP with phonostage£495 Burnmester 785 Pre-amp with phonostage£895 Bryston BP20 Pre-amp (under 6 months old)£795 Krell KSP-7B balanced pre-amp with phonostage & power supply£1895 Audio Research phono 1 stage MM & MC£895 Exposure 21 Pre-Amp NEW with remote£890 Passlabs Aleph P Pre-Amp£2799 Graaf WE two Pre-Amp£2195
AMPLIFIERS
Mark Levinson ML3 Amplifier
Adcom GFA 5300 Power Amplifier£295
CD PLAYERS & TRANSPORTS
Meridian 506 CD player (under 6 months old)£750 Linn Karik CD Player
DACS
Mark Levinson 30.6 Reference DAC           (HDCD-24/96hkz)         £11995           Cello Reference DAC         £2995           LFD DAC 3         £1595           Sonic Frontiers SFD1 DAC         £1195           Vac Dac Valve Dac         £895           DCS Elgar and Purcell         £7995
MISCELLANEOUS
with DSU power supply
TURNTABLES
Michell Gyrodeck with RB 300 arm and OC power supply (boxed) \$1095 Basis 1400 Turntable with RB 300 arm \$695 SME Series IV Tone-arm \$695 CEC Turntable & PSU \$495 Helius Silver Wired Tonearm \$995 Roksan Xerxes. The mechanic pick-up arm and Linn Trioka Cartridge \$795 VPI TNT Turntable \$3495 Roksan Turntable with SME IV Tonearm \$995 Roksan Turntable with SME IV Tonearm \$995 Ortofon MC 7500. Full guarantee (new) \$1495 Duel CS 500 Turntable (boxed) \$150 Luxman PD 282 Turntable \$755 Technics SL02 Turntable \$755 Technics SL02 Turntable \$755  We now offer 0% finance* (subject to status)
Please phone to arrange an audition  Main Dealers for:

Mark Levinson, Thiel & Absolute Sounds

Tel: 01903 872288

Evenings: 07860 660001 Fax: 01903 872234

Email address: heatherdale@hifi-stereo.com

We accept: VISA S

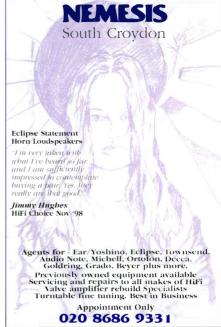


181 Franche Rd • Kidderminster • Worcs • DY11 5AD

MAX Midland Audio X-change

e-mail sales@midlandaudiox-change.co.uk

Mobile 0421 605966



#### SPEAKER KITS



Telephone: 02380-703221/Fax Line: 02380-778221 South Coast Speakers Ltd, 58 Wilton Road, Southampton, Hampshire, England SO15 5SZ www.southcoastspeakers.co.uk/email: southcoast@easynet.co.uk





## OW TO USE TH **BUYERS' GU**

#### Best Buys, Recommendations & Editor's Choices

- BEST BUYS: Awarded to group-tested products which display an unbeatable blend of performance and value for money.
- **RECOMMENDED:** Top performers in group tests: perhaps not the R cheapest but possibly more sophisticated than Best Buys.
- **EDITOR'S CHOICE:** Components which have outstanding sound quality but do not qualify for BB or R because of non group testing.

#### **Our Three Step Guide to Buying Hi-Fi**

The Hi-Fi Choice Price Guide and Directory are extremely simple to use, but contain all the information you need to select and buy the perfect hi-fi system. Here's how it works.

**DISCOVER** which products fall within your budget by using our Price Guide, which starts on this page. The product listing is updated using manufacturers' data every other month, and aims to include every hi-fi component currently available in the UK. (But please fax us on (020) 7317 2686 with any omissions!) It is an alphabetical listing divided into different types of hi-fi component, and also into price bands.

**PRODUCTS** whose names are printed in RED are those we have reviewed, which you can read about in the Directory (starts after the Price Guide). Here you will learn which items have been

singled out for our famous Best Buy, Recommended or Editor's Choice awards, denoting products of exceptional quality and value. The Directory is sorted by product type and listed alphabetically, and the beginning of each section provides essential information about each kind of hi-fi component.

FIND your nearest hi-fi store in our Dealer Directory (at the end of the Directory) to book a demonstration of the hi-fi equipment you want to hear. Remember to take your own software!

#### DIRECTORY INDEX

ITEM	PAGE NUMBER
PRICE GUIDE	100
REVIEWED PRODUCTS	
INTEGRATED AMPLIFIERS	112
PREAMPLIFIERS	113
POWER AMPLIFIERS	114
PHONO STAGES	114
MULTI-CHANNEL AMPLIFIERS	115
CABLES	
ANALOGUE INTERCONNECTS	115
DIGITAL INTERCONNECTS	116
LOUDSPEAKER CABLES	116
CARTRIDGES	117
CASSETTE DECKS	118
CD PLAYERS	119
CD TRANSPORTS	120
DACS	121
DVD PLAYERS	121
DIGITAL RECORDERS	121
HEADPHONES	122
LOUDSPEAKERS	123
SUBWOOFERS	126
STANDS & SUPPORTS	126
TONEARMS	127
TUNERS	127
TURNTABLES	129



#### **AMPLIFIERS** INTEGRATED

6 - Number of line-level inputs. '20W' - Rated RMS output power per channel into a nominal 8 Ohm load.

Ariston AX910 0 30W 60 Cambridge A1 Mk III Cambridge A1 Mk3 SE 0 30W 120 Cambridge A100 0 40W Cambridge A300 150 40W Cambridge A3i Cambridge A500RC Denon PMA-250SE Denon PMA-350SF Denon PMA-535R Denon PMA-100M 0 240 80W H/K HK3270 0 250 65W JVC AX-A372BK JVC AX-R5B Kenwood KA-1080 0 140 60W Kenwood KA-3080R o 170 70W Kenwood KAF-3010R Marantz PM-48 Marantz PM-57 Marantz SR-47 200 0 40W Marantz PM6010 OSF Marantz PM-66SE Musical Fidelity F1 NAD C300 NAD C320 NAD 312 Pioneer A-105 0 130 30W Pioneer A-204R Pioneer A-305R 0 50W 200 Pioneer A-407 Pinneer A-405R Rotel RA921 0 25W Rotel RA931 150 230 Sansui AUX-410R 9 50W Sansui AUX-510R 70W Sherwood AX 4050R 9 150 50W 100 130 Sony TA-FE230 9 40W Sony TA-FE330R 60W Teac A-R600 90W 200 Technics SU-V300 0 25W Technics SU-V500 160 30W Technics SU-A600 Mk3 Technics SU-V620 0 230 250 Technics SU-A707 0 70W 170 Yamaha AX-396 0 60M 85W

Musical Fidelity E11

£251 TO £500 Arcam Alpha 7R Arcam Alpha 8R Audio Analogue Puccini Creek 4330R 6 40W Creek 5250 50W 450 Cyrus 5 0 40W 500 Denon PMA-735R 300 0 65W Denon PMA-1500R Edmund Audio ESI10 FMF Audio Sequel H/K HK650 330 0 60W nwood KA-5090R Magnum IA120 Magnum IA170SE 0 430 90W Marantz PM-66 KI Sig. Marantz SR5000 Monrio Asty

Musical Fidelity A2 Myrvad T-40 NAD C340 600 260 Onkvo A9210 40W Onkyo A921 50W Onkyo A922 70W 400 Pioneer A-400X Pioneer A-300R Precision Rega Big Brio 35W 298 0 0 0 Rega Luna 40W Rega Mira 60W 470 Roksan Kandy Rotel RA-972 Shearne 2.5 0 35W Sony TA-FB920R 6 300 Sony TA-FA30ES 400 70W Sony TA-F3000F9 Talk Flectronics Sto Teac AH-500 0 280 50W Technics SU-A909 0 400 100W Token K50

£501 TO £700

Alchemist Kraken APD6A	0	55W	600
Alchemist Nemesis	0	80W	700
Audio Analogue Puccini Remote	0	50W	575
Audio Note Kanji Line SE		9W	699
Audio Note First integrated		40W	699
Audio Refinement Complete	0	50W	699
Audiogram MB2	0	60W	599
AVC EL34	0	30W	650
CR Dev CR324se	6	150W	569
CR Dev Kalypso	0	15W	599
CR Dev CR325	0	175W	699
Creek 5250SE	0	60W	665
Cyrus 7	0	60W	700
Densen Beat B-100 MkII	0	60W	700
Gamma Gemini	8	12W	699
H/K HK690	0	60W	530
Hi Q Sound MCI	0	30W	565
LFD Integrated 0	6	50W	549
Linn Majik (Line)	0	33W	650
Lynwood Opal	0	80W	685
Magnum IA200	0	100W	599
Magnum Class A	0	85W	690
Musical Fidelity A220	0	50W	700
Myryad Cameo	0	50W	530
Myryad MI 120	0	60W	700
Naim Nait 3	0	30W	590
R-20 A20 Mk II	0	70W	600
Rose Scion	0	65W	615
Shearne Phase 2	0	50W	689
Sugden Audition T	0	65W	549
Talk Electronics Cyclone 1	0	60W	550

Talk Electronics Storm 2	0	50W	650
Teac AB-X7R	0	50W	700
YBA Complete Integre	0	50W	699
£701 TO £1000	NEED O		
E701 10 E1000			
Alchemist Nexus	6		799
Alchemist Forseti Integrated	0	100W	1.000
Arcam Alpha 10		100W	800
Arcam FMJ A22	0	100W	1,000
Aria S2	ŏ	12W	1,000
Audio Analogue Puccini SE Remote	0	60W	795
Audio Note Oto Line PP		12W	950
AVI S2000MI	0	100W	999
Copland CSA8	6	60W	899
Credo IMP702	0	70W	850
Credo IMP703		70W	1,000
Denon AVR-3300	0	75W	800
Electrocompaniet ECI-2	0 0 0	50W	995
Electrocompaniet ECI-3	0	75W	1,000
Exposure XX Super	0	60W	800
Exposure XV Super	0	60W	900
Exposure ROXV	0	60W	1,000
LFD 0 LE Integrated	0	60W	799
Linn Majik (Phono)	0	33W	800
Magnum Class A SE	0	80W	795
Marantz PM-17	<b>6</b>	60W	900
Meridian 551	0	55W	795
Musical Fidelity A3	6	85W	849
Musical Fidelity X-A100R	0	75W	999
MVL A2		100W	970
NAD T770	6	90W	1,000
Naim Nait 3 R	0	30W	780
Nakamichi AV-10	0	140W	1,000
Pathos Classic One	6 6 6 6	55W	995
Pioneer A-07	0	80W	999
Pioneer VSX-908RDS	0	80W	1,000
Plinius 2100i			995
Roksan Caspian	0	70W	795
Shearne Phase 2 Reference	9	50W	799
Sonneteer Alabaster	0	50W	900

0

60W

799 799

Sugden A21a Int

Sugden Audition C

TAG McLaren 60iRV

3

£1001 TO £2000							275.50					10000		9000
Aria SR-1	<b>3</b> 8	OVA	1,250	CR Dev Themis Creek OBH-9		Ph	349	Credo CMP005 Cyrus aCA7		1,876	Adyton Modus Art Audio VPS Dual Mono Line	0		2,695
Aria S6		oW 5W	1,600	Creek P43/R	0		350	Cyrus aEQ7/PSX-R	PH	826	ATC SCA2	•		2,999
ATC SIA2-150	O 19	WO	1,984	Creek P52	0		499	Densen Beat B-200	6 Pt		Atma-Sphere MP-3	6	Ph	3,795
Audio Analogue Maestro Audio Note Soro Line PP		WOO	1,995	Crimson CS610D Cyrus aEQ7	8	Ph	475 498	Densen DM-20 DNM 3 Start	0 Pt	1,000	Atma-Sphere MP-1 Audio Note M3Line	6	Ph	7,600 2,650
Audio Note Oto Line SE		OW 2W	1,200	Densen DP-Drive/DP-02		Pn	500	DNM 3A Start	0 Pt	100000000000000000000000000000000000000	Audio Prism Avanti	6		7,995
Audio Note Oto Phono SE	<b>1</b>	2W	1,500	DPA Enl'ment phono		Ph	275	DPA Enlightenment pre		795	Audio Research LS25			4,999
Audio Note Soro Line SE Audio Valve Assistent-S 20		W8 W0	1,699 1,250	EAR 834P EAR 834L	6	Ph	349 449	Dynavector L200 Dynavector P100	Ø Pł	995 1,495	Audio Research REF 1 Audio Valve Fanfare	6		8,495 4,995
Beam-Echo SA-50		OW	1,950	EAR 834P/MC		Ph	499	Dynavector L100	9	1,995	Audiolabor 511	õ		6,775
Beard 30-60 Mk II		OW	1,495	Electrocompaniet ECP-1		Ph	495	ECA Vista S	0	760	Balanced VK-50	0		3,995
Bow Technologies Wazoo Bryston B-60		0W 0W	1,795 1,281	Henley HMC50 Henley HMC100			150 350	ECA Vista HD ECA Prisma	6 Pt	880 880	Boulder L3AE Boulder L5AE	0		3,400
Canary Audio CA-608		4W	1,495	Hi Q Sound LCP2			149	Electrocompaniet EC-4.5		1,195	Boulder L5M			3,800
Copland CSA14		OW	1,199	LFD Mistral Linestage LFD LSO Linestage	0		449 499	Electrocompaniet EC-4.6 Exposure XIII	<b>3</b>	1,750 800	Boulder 2010 Canary Audio CA-801	0		22,000 3,750
Copland CSA28 Copland CTA402		oW 5W	1,249	Lumley PP70	6		345	Exposure XIX	6	800	Cary SLP-98L	6		2,395
CR Dev Romulus V3	<b>6</b> 3	5W	1,198	Lumley PP1	0		345	Exposure XVII	6 Pt	850	Chord CPA 1800	0		2,220
CR Dev Athena CR Dev Remus V3		W0	1,499 1,989	Magnum MP120 Magnum MP660	<b>6</b>		330 500	Exposure RC XXI Gate PR101P	<b>3</b>	1,000 1,195	Chord CPA 2200 Chord CPA 3200E	6		2,740 4,041
Credo LIM 702	0 0	UVV	1,191	Magnum MP330	0		500	Golden Tube Audio SEP-2	6	990	Chord CPA 4000E	0		6,675
Credo LIM 703			1,249	Monrio Asty L	6		500	Golden Tube Audio SEP-3	6 _	1,995	Conrad-Johnson PF-R	6		2,490
Densen DM-10 EAR 859		5W 3W	1,450	Moth 30 Passive Moth 30 Phono	0	Ph	249	Graaf WFB Two Graaf WFB One	6 Pi		Conrad-Johnson PV-12A Conrad-Johnson Premier 15	6	Ph	2,590 3,995
EAR 834		OW	1,999	Moth 30 Line stage	Θ		349	Henley HMC200		600	Conrad-Johnson Premier 14	6		4,495
Golden Tube Audio SI-50 Mkll		OW	1,100	Musical Fidelity X10-D	0		120	Hi Q Sound MCB2	P	545 645	Conrad-Johnson Premier 16LS	6		7,995
Graaf Venticinque Jadis Orchestra		5W OW	1,345	Musical Fidelity X-LP Musical Fidelity X-PRE	0	Ph	130	Hi Q Sound MCL2 Jadis DPL2	6	1,590	Conrad-Johnson Art CAT SL1 Ultimate	6	Ph	14,995 5,750
LFD Integrated 1		5W	1,099	Musical Fidelity E20	o	Ph	400	Krell KAV250p	9	1,999	CR Dev Kastor	0		2,995
Lundahl Mag Amp		3W	1,735	NAD PP-1 NAD 114		Ph	40	LFD MC1 Phonostage	Pt	949 999	Credo LPR 001 DNM 3C Primus		-	2,815 2,100
Marantz PM-17KI Sig Meracus Intrare		oW oW	1,095	NAD 114 NAD 116	6	Ph	270 430	LFD LS1 Linestage LFD MC2 Phonostage	6 PH		DNM 3C Twin	6	Ph	3,100
NAD \$300	<b>9</b> 10	WOO	1,900	Naim Prefix			360	LFD LS2 Linestage	6	1,599	DNM 3C Six	6	Ph	4,100
Papworth MIH-200 Papworth MVH-200		Woo	1,200	Naim NAC92 Parasound P/HP-100	6	-	485	LFD LSB Linestage Linn Wakonda	6	1,999 750	EAR 802MC EAR G88	6	Ph	9,999
Plinius 8150	<b>3</b> 20	WOO	1,200 1,895	Parasound P/HP-850	0	Ph Ph	130 400	Linn Vakonda Linn Linto	•	850	EAR Coo	6	Ph	15,999
Praecisa Sonoro		WOO	1,800	Plinius Jarrah		Ph	450	Linn Kairn	6	1,400	Gamma Era Ref	•	Ph	7,999
R-20 A30.1 Restek Fantasy 2		Woo	1,500	Pro-Ject Phono Box QED Discsaver DS-1		Ph Ph	40 35	Lumley LV1.5 Lumley LV1	<b>6</b>	895 1,150	Graaf GM13.5B II Jadis DPL	6		3,950 2,900
Roksan Caspian DSP	0	JUVV	1,295	R-20 R-20		Ph	450	Lumley PV1.5	6 PH	1,700	Jadis DPMC	•	Ph	2,900
		5W	1,299	Rega EOS		Ph	398	Lumley PV1	6 Pt		Jadis JPL	6		4,200
T+A R1200R Woodside ISA230 Line		0W 0W	1,750 1,099	Rega Cursa Roksan Artaxerxes 10	•	Ph	475 445	McIntosh C712 Meracus Ingredi	6 Pt	1,999 925	Jadis JPP200 Jadis JP30MC	6	Ph	4,290
Woodside ISA230 Disc		OW	1,249	Rose RV-23	0	Ph	450	Meridian 501	0	695	Jadis JPS2	6		6,690
YBA a Integre Line		ow	1,095	Rotel RQ970BX		Ph	150	Meridian 562		765	Jadis JP80MC	6	Ph	10,166
YBA a Integre DT Line	<b>6</b> 5	WO	1,395	Rotel RC971 Rotel RC972	6		250	Meridian 562V Meridian 502	0	1,295	Jadis JP200MC Klyne 6LE	6		15,900 2,650
OVER £2000				Rothwell Indus	ŏ		499	Michell Delphini	Pł	895	Klyne 6PE	0	Ph	2,850
Adyton Opera		OLAL	2,595	Sunfire Phono Talk Electronics Hurricane 1		Ph	430 500	Michell Orca Muse Model 3	9	1,650	Klyne 7LX SE Klyne 7PX	6	Ph	3,750 4,450
AMP Flux System 2		OW	3,000	Technics SU-C1010	<b>6</b>	Ph	300	Musical Fidelity X-LP2/X-PSU	O PH		Krell KRC3	6	Pn	2,998
Arcam Alpha 10 DAVE	<b>6</b> 10	WOO	2,500	Tom Evans Groovelette			399	Musical Fidelity X-P100	@ Ph	800	Krell KRC-HR	6		6,949
Arcam FMJ A22 DAVE	0 10	WOO	2,850	Trilogy 905			375				LFD Disc Preamp		Ph	4,499
Aria S8		ANN	2.950			Ph		Musical Fidelity F25 Myrvad MP100					Ph	2.950
Aria S8 Art Audio Integra	<b>6</b> 2	4W	2,950 2,400	Trilogy 904 Trilogy 900	Ø	Ph Ph	375 499	Myryad MP100 NAD S100	6 Pt	600 600	Levinson 25S Levinson 380	6	Ph	2,950 3,995
Art Audio Integra Audio Note Meishu Line	<b>6</b> 2 2 2 3	4W 5W 9W	2,950 2,400 2,750	Trilogy 904 Trilogy 900	8		375	Myryad MP100 NAD S100 NAD 118			Levinson 25S Levinson 380 Levinson 380S	<b>6</b>	Ph	3,995 6,495
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku	6 2 2 9 8 2	4W 5W 9W	2,950 2,400 2,750 56,000	Trilogy 904	6		375	Myryad MP100 NAD S100 NAD 118 Naim NAC92R	6	600 1,000 650	Levinson 25S Levinson 380 Levinson 380S Levinson 32			3,995 6,495 14,495
Art Audio Integra Audio Note Meishu Line <mark>Audio Note Ongaku</mark> Audio Research CA50 Belcanto SETi40	6 2 2 9 2 9 4	4W 5W 6W 5W 0W	2,950 2,400 2,750 56,000 3,399 4,450	Trilogy 904 Trilogy 900  £501 TO £2000  Adyton Chorus	8		375	Myryad MP100 NAD S100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC72	6 6	600 600 1,000 650 745 1,000	Levinson 25S Levinson 380 Levinson 380S Levinson 32 McIntosh C22 McIntosh C40	6	Ph Ph	3,995 6,495 14,495 2,999 4,999
Art Audio Integra Audio Note Meishu Line <mark>Audio Note Ongaku</mark> Audio Research CA50 Belcanto SETi40 Belcanto Orfeo 30SI	6 2 2 2 6 2 6 4 4 3	4W 5W 6W 5W 0W 5W	2,950 2,400 2,750 56,000 3,399 4,450 5,450	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemst Kraken Pre	0		375 499 1,995 549	Myryad MP100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre	6	600 600 1,000 650 745 1,000 750	Levinson 255 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C40 McIntosh C39	6 6	Ph Ph Ph	5,995 6,495 14,495 2,999 4,999 5,999
Art Audio Integra Audio Note Meishu Line <mark>Audio Note Ongaku</mark> Audio Research CA50 Belcanto SETi40	6 2 2 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4W 5W 6W 5W 5W 0W 5W 5W	2,950 2,400 2,750 56,000 3,399 4,450 5,450 3,395	Trilogy 904 Trilogy 900  £501 TO £2000  Adyton Chorus	<b>6</b>		375 499	Myryad MP100 NAD S100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC72	6 6 6 PH	600 600 1,000 650 745 1,000	Levinson 25S Levinson 380 Levinson 380S Levinson 32 McIntosh C22 McIntosh C40	6	Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20	<ul> <li>3</li> <li>2</li> <li>2</li> <li>3</li> <li>4</li> <li>4</li> <li>3</li> <li>1</li> <li>5</li> </ul>	4W 5W 6W 5W 5W 5W 5W 5W	2,950 2,400 2,750 56,000 3,399 4,450 5,450 3,395 2,495 2,495	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Feather One	0		375 499 1,995 549 999 1,499 795	Myryad MP100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-23S	6 6	600 1,000 650 745 1,000 750 998 1,250	Levinson 25S Levinson 380 Levinson 380S Levinson 380S Levinson 32 McIntosh C22 McIntosh C20 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82	6 6	Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,250 2,225
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETi40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1	6 2 2 2 2 5 5 6 4 4 4 3 3 6 5 5 6 2 6 10 6	4W 5W 6W 5W 5W 5W 5W 5W 6W 4W 00W	2,950 2,400 2,750 56,000 3,399 4,450 5,450 3,395 2,495 2,495 2,195	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two	6 6 6 6		375 499 1,995 549 999 1,499 795 1,750	Myryad MP100 NAD \$100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-23S Rotel RC995	6 9 0 Pr 0 Pr 0 Pr	600 600 1,000 650 745 1,000 750 998 1,250 525 525	Levinson 255 Levinson 380 Levinson 3805 Levinson 32 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52	6660	Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,250
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rosearch CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm	6 2 2 2 2 3 5 5 6 4 4 4 4 5 5 6 6 2 6 10 6 1 1	4W 5W 6W 5W 5W 5W 5W 5W 6W 4W 00W 8W	2,950 2,400 2,750 56,000 3,399 4,450 5,450 3,395 2,495 2,495	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		375 499 1,995 549 999 1,499 795	Myryad MP100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rote RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref	6 6 6 0 Pi	600 600 1,000 650 745 1,000 750 998 1,250	Levinson 25S Levinson 380 Levinson 380S Levinson 380S Levinson 32 McIntosh C22 McIntosh C20 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82	000000	Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,250 2,225
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETi40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECl-1 Gamma Rhythm Gamma Rhythm Gamma Moment	\$ 22 \$ 22 \$ 2 \$ 44 44 33 • 11 • 55 • 22 • 10 • 11 • 22 • 44	4W 5W 6W 5W 5W 5W 5W 5W 6W 4W 90W 8W 90W	2,950 2,400 2,750 56,000 3,399 4,450 5,450 3,395 2,495 2,495 2,195 2,499 3,499 19,999	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Ania Feather One Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio VPS Line	6 6 6 6	Ph	375 499 1,995 549 999 1,499 795 1,750 1,750 916 963	Myryad MP100 NAD \$100 NAD \$100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20	6 6 Pt 6 Pt 6 6 6 Pt 6 Pt	600 600 1,000 650 745 1,000 775 1,250 1,250 525 525 999 1,499 650	Levinson 25S Levinson 380 Levinson 380S Levinson 32 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16L	6 6 6 6	Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,250 2,225 3,450 2,995 2,995
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rosearch CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm	\$ 22 \$ 22 \$ 2 \$ 44 44 33 • 11 • 55 • 22 • 10 • 11 • 25 • 46 • 33	4W 5W 6W 6W 00W 55W 00W 55W 00W 4W 00W 00W	2,950 2,400 2,750 56,000 3,399 4,450 5,450 3,395 2,495 2,495 2,195 2,499 3,499 19,999 2,690	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM	6 6 6 6	Ph Ph	375 499 1,995 549 999 1,499 795 1,750 1,750 916 963 1,307	Myryad MP100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rote RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref	6 6 6 0 Pt 6 0 Pt 6 0 Pt	600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 999 1,499 650 650	Levinson 25S Levinson 380 Levinson 380S Levinson 32 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5	6 6 6 6 6	Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,250 2,225 3,450 2,995 2,595 2,995 2,250
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETi40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECl-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i	6 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4W 55W 6W 55W 00W 55W 00W 44W 000W 88W 00W 00W	2,950 2,400 2,750 56,000 3,399 4,450 3,395 2,495 2,495 2,495 3,499 3,499 4,483 2,495	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Ania Feather One Ania Mystery Two Ania Mystery One Ant Audio Viryl One MM Art Audio VPS Line Art Audio VPS Line Art Audio VPS Phono Art Audio Conductor Phono MC	6 6 6 6	Ph Ph Ph	375 499 1,995 549 999 1,499 795 1,750 916 963 1,307 1,460 2,000	Myryad MP100 NAD \$100 NAD \$100 NAD \$118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-12.5 Rose RV-235 Rotel RC995 Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR20	6 6 6 Ph	600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 999 1,499 1,599 1,599	Levinson 255 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16L Roksan ROK-L1.5 Rowland Synergy Rowland Coherence	6 6 6 6	Ph Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,250 2,225 3,450 2,995 2,595 2,995 2,250 4,999 14,999
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	4W 5W 6W 5W 6W 5W 6W 5W 6W 6W 6W 6W 6W 6W 6W 6W 6W 6	2,950 2,400 2,750 56,000 3,399 4,450 5,450 3,395 2,495 2,495 2,195 2,499 3,499 19,999 2,690	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Alia Feather One Aria Mystery Two Aria Mystery Two Ari Audio Vinyl One MM Art Audio Vinyl One MM/MC Art Audio Vors Phono Art Audio Conductor Phono MC Audio Note M1 Line	6 6 6 6	Ph Ph Ph Ph	375 499 1,995 549 999 1,499 795 1,750 1,750 916 963 1,307 1,460 2,000 550	Myryad MP100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P		600 600 1,000 650 745 1,000 750 998 1,250 525 525 999 1,499 650 650 1,599 1,599 899	Levinson 255 Levinson 380 Levinson 3805 Levinson 3805 Levinson 32 McIntosh C22 McIntosh C20 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16L Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1	6 6 6 6 6	Ph Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,250 2,225 3,450 2,995 2,595 2,995 2,250 4,999 14,999 2,499
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rosearch CA50 Belcanto SETi40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECl-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300r Krell KAV300r McIntosh MA6400E	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	4W 55W 6W 55W 00W 55W 00W 4W 00W 00W 00W 00W 60W 60W	2,950 2,400 2,750 56,000 3,399 4,450 3,395 2,495 2,495 2,495 3,499 3,499 4,483 2,495	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Ania Feather One Ania Mystery Two Ania Mystery One Ant Audio Viryl One MM Art Audio VPS Line Art Audio VPS Line Art Audio VPS Phono Art Audio Conductor Phono MC	6 6 6 6	Ph Ph Ph	375 499 1,995 549 999 1,499 795 1,750 916 963 1,307 1,460 2,000	Myryad MP100 NAD \$100 NAD \$100 NAD \$118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-12.5 Rose RV-235 Rotel RC995 Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR20	6 6 6 Ph	600 600 1,000 650 745 1,000 750 998 1,250 525 525 999 1,499 650 650 1,599 1,599 899	Levinson 255 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16L Roksan ROK-L1.5 Rowland Synergy Rowland Coherence	6 6 6 6 6	Ph Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,250 2,225 3,450 2,995 2,595 2,995 2,250 4,999 14,999
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rosearch CASO Belcanto SETI40 Belcanto Orfeo 30S1 Cary CAD-300SE1 Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECl-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DASO Jadis DASO Krell KAV3000 Krell KAV3000 Krell KAV3000 Mintosh MA6400E Mintosh MA6800E	6 2 2 2 2 3 5 5 6 4 4 4 4 4 5 5 6 6 2 2 6 10 6 11 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4W 5W 6W 6W 00W 55W 00W 4W 00W 00W 00W 00W 00W 00W 00W 00W	2,950 2,400 2,750 5,450 3,399 4,450 5,450 3,395 2,495 2,495 2,195 2,499 3,499 19,999 2,690 4,483 2,495 3,333 5,500 3,395 5,600 4,483 2,495 3,333 5,600 4,483 2,600 4,483 2,600 4,483 2,600 4,600	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio Vinyl One MM Art Audio VPS Phono Art Audio Vinyl One MM/MC Art Audio VPS Phono Art Audio Note MI RIAA Audio Note MI Line Audio Note MI Line Audio Note MI Line Audio Note MI SIAA Audio Note MI SIAA Audio Note Discovery	6 6 6 6	Ph Ph Ph Ph	375 499 1,995 549 999 1,499 1,750 1,750 1,750 916 963 1,307 1,460 2,000 550 550 999 999	Myryad MP100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre		600 600 1,000 745 1,000 745 1,250 525 525 525 529 1,499 650 650 650 650 1,599 1,599 1,599 1,999 995 549	Levinson 25S Levinson 380 Levinson 380S Levinson 380S Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1	6 6 6 6 6	Ph Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 2,195 2,250 2,225 3,450 2,995 2,595 2,995 2,250 4,999 14,999 2,499 3,299 3,000
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Robe Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECl-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA50 Idel KAV3000 Krell KAV3000 Krell KAV3000 McIntosh MA6400E McIntosh MA6800E Meracus Onesta	6 2 2 2 2 3 4 4 4 4 3 3 6 6 6 15 15 6 2 2 5 10 10 10 10 10 10 10 10 10 10 10 10 10	4W 5W 6W 00W 55W 00W 55W 00W 4W 00W 60W 60W 60W 60W 60W 60W	2,950 2,400 2,750 3,399 4,450 5,450 5,450 2,495 2,495 2,495 2,499 3,499 19,999 2,690 4,483 3,333 5,000 3,999 2,595	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Ari Audio Vinyl One MM Art Audio VPS Line Art Audio Vinyl One MM/MC Art Audio Orbs Unil One MM/MC Art Audio Orbs Unil One MM/MC Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M3 Line	6 6 6 6	Ph Ph Ph Ph	375 499 1,995 549 999 1,499 795 1,750 1,750 916 963 1,307 1,460 2,000 550 550 599 999 1,099	Myryad MP100 NAD \$100 NAD \$100 NAD \$118 Naim NAC92R Naim NAC72 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe \$C26 Sugden Audition Pre Sugden Masterclass Pre	6 6 PH PH PH PH PH 6 6 PH PH PH 6 6 PH	600 600 1,000 650 745 1,000 998 1,250 525 525 999 1,499 650 650 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599	Levinson 25S Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16L Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DA3000	6 6 6 6 6 6 6 6 7 8 9 9	Ph Ph Ph Ph Ph	3,995 6,495 14,495 2,999 5,999 2,195 2,225 3,450 2,225 2,595 2,995 2,250 2,250 2,250 2,995 2,250 2,995 2,250
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rosearch CA50 Belcanto SETi40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV3000 Krell KAV3000 Krell KAV3001 McIntosh MA6400E McIntosh MA6800E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers	6 2 2 2 3 4 4 4 3 3 1 1 6 5 5 6 10 6 9 15 6 10 1 1 1 5 6 1 1 1 5 6 1 1 1 5 6 1 1 1 1 1	4W 5W 6W 5W 00W 55W 00W 4W 00W 00W 00W 00W 00W 00W	2,950 2,400 2,400 3,399 4,450 5,450 3,395 2,495 2,495 2,195 2,499 3,499 19,999 2,690 4,483 2,495 3,333 5,000 3,999 5,999 2,595 2,500 3,250	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Alia Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio Vinyl One MM/MC Art Audio Virs Line Art Audio Virs Denon Art Audio Vors Denon Art Audio Note MI RiAA Audio Note MI Line Audio Note MI Line Audio Note MI SIAA Audio Note Discovery Audio Note MIRIAA Audio Note MIRIAA Audio Note MIRIAA Audio Prism Mantissa Audio Prism Mantissa Audio Prism Mantissa Audio Research LS8 MkII	6 6 6 6	Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,499 795 1,750 916 963 1,307 1,460 2,000 550 999 999 1,099 1,995	Myryad MP100 NAD \$100 NAD \$100 NAD \$101 NAD \$118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe \$C26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena IIIs/II LS Sumo Athena IIII	6 6 Ph Ph Ph Ph Ph Ph 6 6 6 6 6 6 6 6 6	600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 1,499 1,599 899 1,995 995 549 1,995 987	Levinson 25S Levinson 380 Levinson 380S Levinson 380S Levinson 32 McIntosh C22 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DAS000 TAG McLaren DPA32R DAB Technics SU-C3000	6660 660 660	Ph Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,255 3,450 2,595 2,595 2,250 4,999 14,999 2,499 3,299 4,999 3,000 2,640 2,290
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Robe Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet EC-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA50 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6800E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09	6 2 2 2 2 5 4 4 4 4 4 4 5 5 5 6 2 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4W 5W 6W 5W 00W 5W 5W 00W 4W 00W 8W 00W 00W 00W 00W 00W 00W	2,950 2,400 2,750 3,399 4,450 5,450 2,495 2,495 2,495 2,495 2,499 19,999 2,690 4,483 3,333 5,000 3,999 5,999 2,595 2,595	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Ari Audio Viryl One MM Art Audio VPS Line Art Audio Viryl One MM/MC Art Audio VPS Phono Art Audio Chyllogho Mymologho Art Audio Conductor Phono MC Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Prism Mantissa Audio Prism Mantissa Audio Research LS8 MkII Audio Research LS8 MkII Audio Research PH3	666666666666666666666666666666666666666	Ph Ph Ph Ph	375 499 1,995 549 999 1,499 795 1,750 916 963 1,307 1,460 2,000 550 999 999 1,099 1,099 1,449	Myryad MP100 NAD \$100 NAD \$100 NAD \$118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe \$C26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena IIB/II LS Sumo Athena III Sumo Athena III Sumo Athena III Sumo Athena III	6 6 6 PH PH PH PH PH PH PH 6 6 6 6 6 6 6	600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 999 1,499 650 650 1,599 1,599 1,999 995 549 1,995 987 987	Levinson 255 Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M161 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918	6 6 6 6 6 6 6 6 7 8 9 9	Ph Ph Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 2,195 2,250 3,450 2,995 2,255 2,255 2,255 2,255 2,259 2,295 2,499 3,000 2,640 2,290 2,299 2,29 2,29 2,299 2,29 2,29 2,29 2,29 2,29 2,29 2,29 2,29 2,29 2,29 2,29 2,29 2
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rosearch CA50 Belcanto SETi40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV3000 Krell KAV3000 Krell KAV3001 McIntosh MA6400E McIntosh MA6800E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers	6 2 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	4W 5W 6W 5W 6W 5W 0W 5W 5W 00W 00W 00W 00W 0	2,950 2,400 4,450 4,450 3,399 4,450 2,495 2,495 2,495 2,495 2,495 2,499 3,499 2,690 4,483 2,495 2,690 4,483 2,495 2,595	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Alia Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio Vinyl One MM/MC Art Audio Virs Line Art Audio Virs Denon Art Audio Vors Denon Art Audio Note MI RiAA Audio Note MI Line Audio Note MI Line Audio Note MI SIAA Audio Note Discovery Audio Note MIRIAA Audio Note MIRIAA Audio Note MIRIAA Audio Prism Mantissa Audio Prism Mantissa Audio Prism Mantissa Audio Research LS8 MkII		Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,499 795 1,750 916 963 1,307 1,460 2,000 550 999 999 1,099 1,995	Myryad MP100 NAD \$100 NAD \$100 NAD \$101 NAD \$118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe \$C26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena IIIs/II LS Sumo Athena IIII	6 6 6 Pt Pt Pt Pt Pt 6 6 6 6 6 6 6 6 6 6	600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 1,499 1,599 899 1,995 995 549 1,995 987	Levinson 25S Levinson 380 Levinson 380S Levinson 380S Levinson 32 McIntosh C22 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DAS000 TAG McLaren DPA32R DAB Technics SU-C3000	6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 5,999 2,195 2,255 3,450 2,595 2,595 2,250 4,999 14,999 2,499 3,299 4,999 3,000 2,640 2,290
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Robe Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet EC-1 Gamma Rhythm Ref Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6800E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 5W 5W 6W 5W 5W 5W 5W 60W 60W 60W 60W 60W 60W 50W 60W 55W 60W 60W 60W 60W 60W 60W 60W 60	2,950 2,400 2,400 3,399 4,450 5,450 3,395 2,495 2,495 2,195 2,499 3,499 19,999 2,690 4,483 2,495 3,333 5,000 3,999 5,999 2,595 2,500 3,250	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery Two Ari Audio Viryl One MM Art Audio VPS Line Art Audio Viryl One MM/MC Art Audio VPS Phono Art Audio Cybr Drino MC Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Prism Mantissa Audio Prism Mantissa Audio Synthesis Pro Passion Audio Synthesis PO Passion Audio Synthesis PO Passion Audio Synthesis PO Passion Audio Synthesis Po Passion Audio Synthesis Passion Ultimate	666666666666666666666666666666666666666	Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,499 1,750 1,750 1,750 1,750 1,750 1,750 916 916 916 916 916 916 916 916 916 916	Myryad MP100 NAD \$100 NAD \$100 NAD \$100 NAD \$118 Naim NAC92R Naim NAC72 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe \$C26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena IIB/II LS Sumo Athena IIB/II LS Sumo Athena III Sumo Athena III Sumo Athena III Sumo Athenis uP Sunfire The Classic T+A P1200R	6 PHPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 650 1,599 1,599 1,599 1,999 995 549 1,995 987 1,595 1,630 987 1,595 1,630 987	Levinson 255 Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M161 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro	666666666666666666666666666666666666666	Ph Ph Ph Ph Ph Ph	3,995 6,495 14,495 2,999 4,999 4,999 2,250 2,225 3,450 2,295 2,595 2,595 2,250 2,595 2,250 2,499 3,000 2,640 2,299 2,775 3,500 4,000
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rosearch CASO Belcanto SETI40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECl-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh Ma640E	6 2 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4W 5W 6W 5W 6W 5W 00W 55W 00W 4W 00W 00W 00W 60W 60W 60W 55W 00W 60W 60W 60W 60W 60W 60W 60	2,950 2,400 2,400 3,399 5,450 3,395 2,495 2,495 2,495 2,495 3,499 19,999 4,483 2,495 3,500 3,999 5,999 2,500 3,250 2,500 3,250 2,500 3,250 2,500 3,250 2,500 3,250 2,500 3,250 2,500 3,250 2,500 3,250 3,500	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Mystery Two Aria Mystery Two Aria Mystery One MM Art Audio Viryl One MM Art Audio Viryl One MM/MC Art Audio Viryl One MM/MC Art Audio Viryl One MM/MC Art Audio Norb Line Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M3 RIAA Audio Note M4 RIAA Audio Note M4 RIAA Audio Note M5 RIAA Audio Note M6 PS Riabio Note M6 RIAA Audio Note M8 RIAA Audio Note M8 RIAA Audio Note M8 PS Riabio Note National Audio Synthesis Possion Audio Synthesis Possion Audio Synthesis Passion Ultimate Audio Wie Eklipse	<u> </u>	Ph Ph Ph Ph Ph	375 499 1,995 549 999 795 1,750 963 1,750 991 1,995 1,499 999 1,995 1,499 1,995 1,490 595 1,490 1,500 1,500	Myryad MP100 NAD 5100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena IIB/II LS Sumo Athena III Sumo Artemis uP Sunfire The Classic T-A P1200R TAG McLaren PPA20		600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 525 650 1,599 1,599 1,599 1,599 1,995 995 1,995 987 1,595 1,	Levinson 255 Levinson 380 Levinson 3805 Levinson 3805 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-4 Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor	6660 666	Ph Ph Ph Ph Ph Ph	3,995 6,495 2,999 4,999 5,999 2,250 2,225 2,595 2,595 2,595 2,595 2,995 2,995 2,995 2,995 2,499 3,299 4,999 3,299 4,999 3,299 4,999 3,599 4,999 3,599 4,999 3,599 4,999 3,599 4,999 4,999 5,599 4,999 5,599 5,599 5,599 5,599 5,599 5,599 5,599 5,599 5,599 5,999 5,599
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Robe Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet EC-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6800E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T+A R1500R Tube Tech Unisis Sig. Int.	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 55W 55W 55W 55W 60W 60W 55W 55W 50W 65W 55W 60W 65W 65W 65W 65W 65W 65W 65W 65W 65W 65	2,950 2,400 2,400 56,000 3,399 5,450 3,395 2,495 2,495 2,195 2,495 3,499 19,999 4,483 2,495 2,495 2,495 2,195 2,495 2,59	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Ari Audio Vinyl One MM Art Audio VPS Line Art Audio VPS Line Art Audio VPS Phono Art Audio VPS Phono Art Audio Conductor Phono MC Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Prism Mantissa Audio Prism Mantissa Audio Synthesis Pro Passion Audio Synthesis PO Passion Audio Synthesis Possion Ultimate Audio Valve Eklipse AVI S2000MP AVI S2000MP+P	©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©	Ph Ph Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,750 916 963 1,360 1,460 2,000 1,460 2,000 550 550 999 1,995 1,499 1,995 1,499 1,995 995 1,650 995 949 1,199	Myryad MP100 NAD \$100 NAD \$100 NAD \$100 NAD \$118 Naim NAC92R Naim NAC72 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-23S Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe \$C26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena IIB/II LS Sumo Athena IIB/II LS Sumo Athena III S	6 PHPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 650 1,599 1,599 1,599 1,999 995 549 1,995 987 1,595 1,630 987 1,595 1,630 987	Levinson 255 Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M161 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT Q Wavac ATT Q Wavac ATT Q Wavac PR X1	000000000000000000000000000000000000000	Ph Ph Ph Ph Ph Ph	5,995 6,495 2,999 4,999 2,195 2,250 2,252 2,595 2,259 2,259 2,250 4,999 2,499 3,299 2,499 3,299 2,499 3,299 2,775 3,500 4,000 5,000
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Robe Ongaku Audio Rosearch CASO Belcanto SETI40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECl-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6800E McIntosh MA6800E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sony TA-E9000ES T-A R1500R Tube Tech Unisis Sig. Int. Tube Tech Unisis Sig. Int. Tube Tech Vynergy PPS	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 55W 55W 55W 55W 55W 50W 55W 50W 55W 56W 56W 56W 56W 56W 56W 55W 56W 56	2,950 2,400 2,400 8,600 1,4450 5,450 2,495 2,495 2,495 2,495 2,495 2,495 3,499 2,690 4,483 3,333 5,000 3,599 2,595 5,599 5,599	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One MM Art Audio Viryl One MM Art Audio Viryl One MM/MC Art Audio Orb Shono Art Audio Conductor Phono MC Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 Line Audio Note M2 RIAA Audio Note M3 RIAA Audio Note M4 RIAA Audio Pissim Mantissa Audio Research PH3 Audio Synthesis Pro Passion Audio Synthesis Pro Passion Audio Synthesis Pop Sassion Audio Valve Eklipse AVI S2000MP+P Beam-Echo SP-21	<u> </u>	Ph Ph Ph Ph Ph Ph	375 499 1,995 5,499 1,499 795 1,750 1,750 1,750 963 1,307 1,460 550 550 550 999 999 1,490 1,995 1,490 995 1,490 995 1,490 995 1,490 999 1,490 999 1,490 999 1,490 1,750	Myryad MP100 NAD 5100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena IIB/II LS Sumo Athena III Sumo Artemis uP Sunfire The Classic T-A P1200R TAG McLaren PA10 TAG McLaren PA20 TAG McLaren PPA20 TAIL Flectronics Hurricane 2		600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 525 650 1,599 1,599 1,599 1,599 1,995 995 1,995 987 1,995 987 1,630 1,630 1,650 1,650	Levinson 255 Levinson 380 Levinson 3805 Levinson 3805 Levinson 320 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-4A Pre DA3000 TAG McLaren DPA32R DAB Technics SU-C3000 Tinlogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT Q Wavac PR X1 Wavac ATT S	6660066	Ph Ph Ph Ph Ph Ph	3,995 6,495 2,999 4,999 2,195 2,250 3,450 2,995 2,255 3,450 2,995 2,250 2,995 2,250 3,299 14,999 14,999 3,000 2,640 2,775 2,775 3,500 4,000 4,50
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETi40 Belcanto Orfeo 30S1 Cary CAD-300SEl Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA30 Jadis DA30 Idrell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh Twin Towers Pioneer A-09 Rotel KSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T-4 R1500R Tube Tech Unisis Sig. Int. Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD811	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 55W 55W 55W 55W 55W 50W 55W 50W 55W 50W 55W 50W 55W 50W 55W 50W 55W 55	2,950 2,400 2,400 3,4450 5,450 3,35 2,495 2,495 2,495 3,499 19,999 4,483 3,333 5,000 3,599 2,595 2,550 2,295	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Kraken Pre Alchemist Signature Pre Ania Feather One Aria Mystery Two Aria Mystery Two Aria Audio Vinyl One MM Art Audio VPS Phono Art Audio VPS Phono Art Audio VPS Phono Art Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M3RIAA Audio Prism Mantissa Audio Research P13 Audio Research P13 Audio Synthesis Pro Passion Audio Synthesis ADQ Disc Stage	©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©	Ph Ph Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,750 916 963 1,307 1,460 2,000 1,490 550 550 999 1,099 1,490 1,490 1,490 1,995 1,490 1,995 1,490 1,1995 1	Myryad MP100 NAD S100 NAD S100 NAD S100 NAD S100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Authern Pre 1 Sumo Attennis UP Sumfire The Classic T-A P1200R TAG McLaren PA10 TAG McLaren PA20R TAG McLaren PA32R Talk Electronics Hurricane 2	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	600 600 1,000 650 745 1,000 750 993 1,250 525 525 525 1,499 650 1,599 1,599 1,599 1,599 1,599 1,595 1,630 987 1,595 1,630 987 1,635 1,635 1,	Levinson 255 Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M161 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT Q Wavac ATT Q Wavac ATT Q Wavac PR X1	000000000000000000000000000000000000000	Ph Ph Ph Ph Ph Ph	\$,995 6,495 4,999 4,999 5,999 2,195 2,250 2,255 3,450 2,255 2,255 4,995 14,999 14,999 3,299 4,990 2,775 3,500 4,990 4,90
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Robe Ongaku Audio Rosearch CASO Belcanto SETI40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECl-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6800E McIntosh MA6800E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sony TA-E9000ES T-A R1500R Tube Tech Unisis Sig. Int. Tube Tech Unisis Sig. Int. Tube Tech Vynergy PPS	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 55W 55W 66W 55W 60W 65W 65W 65W 66W 65W 65W 65W 66W 65W 65	2,950 2,400 2,400 8,600 1,4450 5,450 2,495 2,495 2,495 2,495 2,495 2,495 3,499 2,690 4,483 3,333 5,000 3,599 2,595 5,599 5,599	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio Vinyl One MM Art Audio VPS Phono Art Audio VPS Phono Art Audio VPS Phono Art Audio Note M1 RIAA Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 Line Audio Note M3 RIAA Audio Note M4 RIAA Audio Note B4 RIAA Audio Note B4 RIAA Audio Pinthesis Pro Passion Audio Synthesis Pro Passion Audio Valve Eklipse AVI S2000MP+P Beam-Echo SP-21 Bryston BP-25 Bryston BP-25 Bryston BP-25	୍ଚତ୍ତ୍ର ତ ତ	Ph Ph Ph Ph Ph Ph Ph	375 499 1,995 549 999 999 1,450 1,750 1,750 1,750 1,750 550 550 550 999 999 1,995 1,490 995 1,490 995 1,490 995 1,490 995 1,490 999 1,490 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400	Myryad MP100 NAD 5100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-25S Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena IIB/II LS Sumo Artemis uP Sunfire The Classic T-A P1200R TAG McLaren PA10 TAG McLaren PA20 TAIR Electronics Hurricane 2 Talk Electronics Hurricane 3 Talk Electronics Hurricane 5		600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 525 650 1,599 1,599 1,599 1,599 1,995 987 1,595 1,595 1,595 1,599 1,499 1,995 987 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,650 900 1,550	Levinson 25S Levinson 380 Levinson 380S Levinson 380S Levinson 32 McIntosh C22 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-4A Pre DA3000 TAG McLaren DPAS2R DAB Technics SU-C3000 Tirlogy 918 Tron Nucleus Phono Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT Q Wavac PR X1 Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig, Dual Mono 2	0000 00 000 000 00000000000000000000000	Ph Ph Ph Ph Ph Ph Ph	\$,995 6,495 2,999 4,999 2,195 2,250 3,450 2,995 2,252 3,450 2,995 2,259 2,995 2,259 14,999 14,999 2,499 2,499 2,499 2,775 3,500 3,500 5,000 4,500 5,00
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETi40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA30 Jadis DA30 Jadis DA30 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA660E McIntosh MA660E McIntosh MA660E McIntosh Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES TI-A R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD310B Wavac MD300B WE	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 55W 55W 55W 55W 55W 50W 55W 50W 55W 50W 55W 50W 55W 50W 55W 50W 55W 55	2,950 2,400 2,400 3,399 5,450 5,450 3,395 2,495 2,495 2,495 3,499 19,999 4,483 2,495 2,500 4,483 2,495 2,500 4,483 2,495 2,500 4,483 2,495 2,500 4,500 2,500	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Kraken Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio Vinyl One MM/MC Art Audio VPS Phono Art Audio VPS Phono Art Audio Vors Imalia Millaria Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M3 RIAA Audio Prism Mantissa Audio Research P143 Audio Synthesis P0 Passion Audio Synthesis P0 Passion Audio Synthesis ADQ Disc Stage Audio Synthesis P0 Passion Audio Synthesis ADQ Disc Stage Audio Synthesis P0 Passion Audio Synthesis P0 Passion Audio Synthesis P0 Passion Audio Synthesis P0 Passion Audio Synthesis P0 P3 P3 B1 P3	• • • • • • • • • • • • • • • • • • •	Ph Ph Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,750 916 963 1,307 1,460 2,000 1,490 550 550 999 1,099 1,490 1,490 1,490 1,490 1,490 1,199 1,116 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1	Myryad MP100 NAD S100 NAD S100 NAD S100 NAD S100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Audition Pre Sugden Masterdass Pre Sumo Attena III Sumo Artemis uP Sumfire The Classic T+A P1200R TAG McLaren PA10 TAG McLaren PA20R TAG McLaren PA20R TAG McLaren PA20R TAG McLaren PA32R Talk Electronics Hurricane 2 Talk Electronics Hurricane 3 Talk Electronics Hurricane 4 Talk Electronics Hurricane 5 Thorens TTP-2000F	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 525 650 1,599 1,599 1,599 1,599 1,995 987 1,595 1,595 1,595 1,599 1,499 1,995 987 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,499 1,650 900 1,550	Levinson 255 Levinson 380 Levinson 3805 Levinson 3805 Levinson 3805 Levinson 3805 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M161 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Tirlogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT Q Wavac ATT G Woodside SC26 Line & Phono YBA 1a Line	0000 00 000 000000000000000000000000000	Ph Ph Ph Ph Ph Ph Ph	\$,995 6,495 2,999 4,999 2,195 2,250 2,250 2,252 3,450 2,259
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh Timin Towers Pioneer A-09 Rotel KSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T-4 R1500R Tube Tech Unisis Sig. Int. Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD300B-ST Wavac MD300B-ST Wavac MD300B WE	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 55W 55W 55W 55W 55W 50W 55W 50W 55W 50W 55W 50W 55W 50W 55W 50W 55W 55	2,950 2,400 2,400 3,399 5,450 5,450 3,395 2,495 2,495 2,495 3,499 19,999 4,483 2,495 2,500 4,483 2,495 2,500 4,483 2,495 2,500 4,483 2,495 2,500 4,500 2,500	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio Vinyl One MM Art Audio VPS Phono Art Audio VPS Phono Art Audio VPS Phono Art Audio Note M1 RIAA Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 Line Audio Note M3 RIAA Audio Note M4 RIAA Audio Note B4 RIAA Audio Note B4 RIAA Audio Pinthesis Pro Passion Audio Synthesis Pro Passion Audio Valve Eklipse AVI S2000MP+P Beam-Echo SP-21 Bryston BP-25 Bryston BP-25 Bryston BP-25	୍ଚତ୍ତ୍ର ତ ତ	Ph Ph Ph Ph Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,499 795 1,750 1,750 1,750 550 550 550 550 1,995 1,499 999 1,490 999 1,490 995 1,490 995 1,490 1,995 1,19	Myryad MP100 NAD 5100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-255 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sugden Masterdass Pre Sugden Materias Pre Sugno Athena IIB/II LS Sumo Attenis uP Sumfor The Classic T+A P1200R TAG McLaren PA20 TAIR Electronics Hurricane 2 Talk Electronics Hurricane 3 Talk Electronics Hurricane 5 Thorens TTP-2000F Tom Evans The Groove Trilogy 901		600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 525 650 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,595 1,59	Levinson 255 Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs X0no Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT C Wavac PR X1 Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 4	0000 00 000 000 00000000000000000000000	Ph Ph Ph Ph Ph Ph Ph	\$,995 6,495 2,999 4,999 2,195 2,250 3,450 2,995 2,252 3,450 2,995 2,259 2,995 2,259 14,999 14,999 2,499 2,499 2,499 2,775 3,500 3,500 5,000 4,500 5,00
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETi40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA30 Jadis DA30 Jadis DA30 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA660E McIntosh MA660E McIntosh MA660E McIntosh Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES TI-A R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD310B Wavac MD300B WE	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 55W 55W 55W 55W 55W 50W 55W 50W 55W 50W 55W 50W 55W 50W 55W 50W 55W 55	2,950 2,400 2,400 3,399 5,450 5,450 3,395 2,495 2,495 2,495 3,499 19,999 4,483 2,495 2,500 4,483 2,495 2,500 4,483 2,495 2,500 4,483 2,495 2,500 4,500 2,500	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Kraken Pre Alchemist Signature Pre Ania Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio Vinyl One MM/MC Art Audio VPS Phono Art Audio VPS Phono Art Audio Vors Ima Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 Line Audio Note M2 Disc Stage Audio Prism Mantissa Audio Research PH3 Audio Synthesis Pro Passion Audio Synthesis ADQ Disc Stage Audio CapooMP+P Beam-Echo SP-21 Bryston BP-25 Brysto	• • • • • • • • • • • • • • • • • • •	Ph Ph Ph Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,750 916 963 1,307 1,460 2,000 1,490 550 550 550 1,099 1,099 1,099 1,490 1,490 1,995 1,490 1,199 1,116 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1	Myryad MP100 NAD S100 NAD S100 NAD S100 NAD S100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Audition Pre Sugden Masterdass Pre Sumo Attensa III Sumo Artensia UP Sumfire The Classic T+A P1200R TAG McLaren PA20R		600 600 1,000 650 745 1,000 750 993 1,250 525 525 525 1,499 650 1,599 1,599 1,599 1,999 987 1,595 1,630 987 1,655 849 1,499 1,655 1,655 1,695 1,695 1,695 1,590 1,590 1,590 1,590 1,590 1,595 1,695 1,695 1,590 1,590 1,590 1,590 1,590 1,590 1,590 1,695 1,	Levinson 255 Levinson 380 Levinson 3805 Levinson 3805 Levinson 3805 Levinson 3805 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TAE1 T+A Pre DA3000 TAG McLaren DPA32R DAB Technics SU-LC3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT C Woodside SC26 Line & Phono YBA 1a Line YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 4	0000 00 000 000 00000000000000000000000	Ph Ph Ph Ph Ph Ph Ph	\$,995 6,495 2,999 4,999 2,195 2,250 3,450 2,995 2,252 3,450 2,995 2,259 2,995 2,259 14,999 14,999 2,499 2,499 2,499 2,775 3,500 3,500 5,000 4,500 5,00
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA30 Jadis DA30 Idrell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T-4 R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD300B WE	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 55W 66W 55W 55W 55W 55W 55W 55W 56W 56	2,950 2,400 2,400 2,405 5,600 3,4450 5,450 2,495 2,495 2,495 3,499 19,999 2,595 3,399 3,599 2,595 3,599 2,595 5,500 2,295 5,500 2,50	Trilogy 904 Trilogy 900  E501 TO E2000  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio VPS Line Art Audio VPS Line Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M3 MkII Audio Prism Mantissa Audio Prism Mantissa Audio Synthesis Pro Passion Audio Synthesis PO Sassion Ultimate Audio Valve Eklipse Audio Synthesis Passion Ultimate Audio Valve Eklipse Audio Synthesis Passion Ultimate Audio Nate M3 S2000MP AVI S2000MP+P Beam-Echo SP-21 Bryston BP-25 Bryston BP-25 Bryston BP-25 Canary Audio CA-606 Canary Audio CA-601 Cary PH-301 Chord Phono	• • • • • • • • • • • • • • • • • • •	Ph Ph Ph Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,499 795 1,750 1,750 1,750 550 550 550 550 1,995 1,499 999 1,490 999 1,490 995 1,490 995 1,490 1,995 1,19	Myryad MP100 NAD S100 NAD S100 NAD S100 NAD S100 NAD S100 NAD S100 NAD 118 Naim NAC92R Naim NAC72 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MM20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre Sugden Materclass Pre Sumo Athena III Sumo Artenis III Sumo Artenis III Sumo Artenis UP Sunfire The Classic T-A P1200R TAG McLaren PA20 TAG McLar		600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 525 650 1,599 1,999 1,999 1,999 1,999 1,999 1,499 1,499 1,499 1,499 1,499 1,695 1,599 1,499 1,695 1,599 1,599 1,599 1,599 1,599 1,595 1,595 1,590 1,500 1,50	Levinson 255 Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs X0no Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT Q Wavac PR X1 Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig, Dual Mono 2 YBA Sig, Dual Mono 4	0000 00 000 000 00000000000000000000000	Ph Ph Ph Ph Ph Ph Ph	\$,995 6,495 2,999 4,999 2,195 2,250 3,450 2,995 2,252 3,450 2,995 2,259 2,995 2,259 14,999 14,999 2,499 2,499 2,499 2,775 3,500 3,500 5,000 4,500 5,00
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Camma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA30 Jadis DA30 Jadis DA40 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA660E McIntosh MA660E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sony TA-E9000ES TI-A R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD300B WE  AMPLIFIERS PREAMPS	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 55W 66W 55W 55W 55W 55W 55W 55W 56W 56	2,950 2,400 2,400 2,405 5,600 3,4450 5,450 2,495 2,495 2,495 3,499 19,999 2,595 3,399 3,599 2,595 3,599 2,595 5,500 2,295 5,500 2,50	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Kraken Pre Alchemist Signature Pre Ania Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio Vinyl One MM/MC Art Audio VPS Phono Art Audio VPS Phono Art Audio Vors Ime Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 RIAA Audio Note M2 RIAA Audio Note M3 RIAA Audio Research P13 Audio Research LS8 MkII Audio Synthesis Pro Passion Audio Synthesis PO Disc Stage Audio Synthesis ADQ Disc Stage Audio Synthesis Pop Disc Stage Audio Synthesis Pop Disc Stage Audio Synthesis Pop Disc Stage Audio Synthesis POD Disc Stage Audio Chaeson Disc Stage Audio Chaeson Disc Stage Audio Chaeson Disc Stage Audio Synthesis POD Disc Stage Audio Chaeson Disc Stage Audio Synthesis POD Disc Stage Audio	• • • • • • • • • • • • • • • • • • •	Ph Ph Ph Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,750 916 963 1,307 1,460 2,000 1,490 550 550 550 1,499 1,995 1,499 1,490 1,490 1,199 1,116 1,16 1	Myryad MP100 NAD S100 NAD S100 NAD S100 NAD S100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P S		600 600 1,000 650 745 1,000 750 993 1,250 525 525 525 1,499 650 1,599 1,599 1,599 1,999 987 1,595 1,630 965 849 1,499 1,650 965 849 1,695 650 1,595 1,695 1,595 1,590 1,590 1,590 1,590 1,595 1,595 1,590 1,590 1,590 1,595 1,595 1,590 1,595 1,590 1,595 1,595 1,590 1,595 1,595 1,595 1,595 1,590 1,595 1,595 1,595 1,595 1,595 1,595 1,590 1,595 1,595 1,590 1,595 1,595 1,595 1,590 1,595 1,590 1,595 1,	Levinson 255 Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs X0no Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Line Tron Retro Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT C Wavac PR X1 Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig, Dual Mono 2 YBA Sig, Dual Mono 4	0000 00 000 0000 0000000000000000000000	Ph Ph Ph Ph Ph Ph Ph	5,995 6,495 4,999 4,999 2,195 2,250 3,450 2,252 3,450 2,255 2,250 2,259
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA30 Jadis DA30 Idrell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T-4 R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD300B WE	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 5W 6W 6W 5W 6W 5W 6W 5W 5W 6W 6W 6W 6W 6W 6W 6W 6W 6W 6	2,950 2,400 2,400 2,450 5,650 3,345 2,495 2,495 2,495 3,499 19,999 2,595 3,399 3,599 2,595	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Ania Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One MM Art Audio Viryl One MM Art Audio Viryl One MM/MC Art Audio Viryl One MM/MC Art Audio Viryl One MM/MC Art Audio Orbs Inie Art Audio Conductor Phono MC Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 RIAA Audio Note M3 RIAA Audio Note M4 RIAA Audio Note M5 RIAA Audio Note M5 RIAA Audio Note M6 RIAA Audio Note M6 RIAA Audio Synthesis ADQ Disc Stage Audio Synthesis Pro Passion Audio Synthesis Passion Ultimate Audio William Riadio Synthesis Passion Ultimate Audio Walve Eklipse AVI S2000MP+P Beam-Echo SP-21 Bryston BP-25 Bryston BP-25 Bryston BP-25 Bryston BP-25 Bryston BP-25 Canary Audio CA-606 Canary Audio CA-601 Cary SLP-50 Mk II Cary PH-301 Chord Phono Clearaudio Symphono Concordant Exhilerant Concordant Exhilerant	©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©	Ph Ph Ph Ph Ph Ph Ph Ph	375 499 1,995 549 999 1,750 916 963 1,750 916 963 1,490 1,590 1,995 1,995 1,995 1,490 1,995 1,595 1,590 1,199 1,199 1,126 1,226 1,592 1,595 1,59	Myryad MP100 NAD 5100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rose RV-235 Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sund Athena III Sumo Athena III Sumo Athena III Sumo Athena III Sumo Attena PA20 TAG McLaren PA20 TAG McLa		600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 525 525 525 1,599 1,999 1,999 995 1,999 987 1,999 987 1,995 987 1,599 1,499 1,695 987 1,590 965 849 1,499 1,695 1,590 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,	Levinson 255 Levinson 380 Levinson 3805 Levinson 3805 Levinson 3805 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT C Wavac PR X1 Wavac ATT C Wavac ATT C Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 4  AMPLIFIERS POWER AMPS KEY '20W' - Rated RMS outp	666 666 666 666 666 666 666 666 666 66	Ph Ph Ph Ph Ph Ph Ph	5,995 6,495 4,999 4,999 2,195 2,250 3,450 2,252 3,450 2,255 2,250 2,259
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T-4 R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD300B WE  AMPLIFIERS PREAMIPS KEY  G (etc) – Number of line-	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 5W 5W 5W 5W 5W 5W 5W 5W 5W 60W 60W 60W 60W 60W 60W 60W 60	2,950 2,400 2,400 3,495 5,450 3,395 2,495 2,495 2,495 3,499 19,999 2,595 4,483 3,333 3,500 4,000 3,599 2,595 2,500 2,295 5,500 2,295 5,500 2,295 6,750 6,750 6,750	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Kraken Pre Alchemist Signature Pre Ania Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio Vinyl One MM/MC Art Audio VPS Phono Art Audio VPS Phono Art Audio Vors Ime Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 RIAA Audio Note M2 RIAA Audio Note M3 RIAA Audio Research P13 Audio Research LS8 MkII Audio Synthesis Pro Passion Audio Synthesis PO Disc Stage Audio Synthesis ADQ Disc Stage Audio Synthesis Pop Disc Stage Audio Synthesis Pop Disc Stage Audio Synthesis Pop Disc Stage Audio Synthesis POD Disc Stage Audio Chaeson Disc Stage Audio Chaeson Disc Stage Audio Chaeson Disc Stage Audio Synthesis POD Disc Stage Audio Chaeson Disc Stage Audio Synthesis POD Disc Stage Audio	• • • • • • • • • • • • • • • • • • •	Ph	375 499 1,995 549 999 1,750 916 963 1,307 1,460 2,000 1,490 550 550 550 1,499 1,995 1,499 1,490 1,490 1,199 1,116 1,116 1,116 1,126	Myryad MP100 NAD S100 NAD S100 NAD S100 NAD S100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TU10 Siemel TR20 Sonic Frontiers Anthem Pre 1P S		600 600 1,000 650 745 1,000 750 993 1,250 525 525 525 1,499 650 1,599 1,599 1,599 1,999 987 1,595 1,630 965 849 1,499 1,650 965 849 1,695 650 1,595 1,695 1,595 1,590 1,590 1,590 1,590 1,595 1,595 1,590 1,590 1,590 1,595 1,595 1,590 1,595 1,590 1,595 1,595 1,590 1,595 1,595 1,595 1,595 1,590 1,595 1,595 1,595 1,595 1,595 1,595 1,590 1,595 1,595 1,590 1,595 1,595 1,595 1,590 1,595 1,590 1,595 1,	Levinson 255 Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs X0no Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Line Tron Retro Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT C Wavac PR X1 Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig, Dual Mono 2 YBA Sig, Dual Mono 4	666 666 666 666 666 666 666 666 666 66	Ph Ph Ph Ph Ph Ph Ph	5,995 6,495 4,999 4,999 2,195 2,250 3,450 2,255 2,252 3,450 2,255 2,259
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Belcanto SETI40 Belcanto Orfeo 30S1 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh McIntosh McIntosh Ma6400E McIntosh McInt	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 5W 5W 5W 5W 5W 5W 5W 5W 5W 60W 60W 60W 60W 60W 60W 60W 60	2,950 2,400 2,400 3,495 5,450 3,395 2,495 2,495 2,495 3,499 19,999 2,595 4,483 3,333 3,500 4,000 3,599 2,595 2,500 2,295 5,500 2,295 5,500 2,295 6,750 6,750 6,750	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Mystery Two Aria Mystery Two Aria Mystery One MM Art Audio Viryl One MM Art Audio Viryl One MM/MC Art Audio Viryl One MM/MC Art Audio Viryl One MM/MC Art Audio Conductor Phono MC Audio Note M1 RIAA Audio Note M2 Line Audio Synthesis ADQ Disc Stage Audio Synthesis Pro Passion Audio Synthesis Pro Passion Audio Synthesis Passion Ultimate Audio William Richemis Passion Ultimate Audio William Richemis Passion Audio Synthesis Passion Ultimate Audio Valve Eklipse AVI S2000MP AVI S2000MP+P Beam-Echo SP-21 Bryston BP-25 Bryston BP-25 Bryston BP-25 Bryston BP-25 Canary Audio CA-606 Canary Audio CA-601 Carly SLP-50 Mk II Cary PH-301 Chord Phono Clearaudio Symphono Concordant Explusite Conrad-Johnson PV-10A Conrad-Johnson PV-10A Conrad-Johnson PV-10A	୍ତତ୍ତ୍ତ୍ତ ତ	Ph P	375 499 1,995 5,499 1,499 795 1,750 916 1,750 1,750 916 1,750 1,750 1,460 9963 1,307 1,460 999 1,995 1,449 1,490 1,490 1,126 1,592 1,1295 1,295 1,693 1,199	Myryad MP100 NAD 5100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena III Sumo Athena III Sumo Artenis uP Sunfire The Classic T-A P1200R TAG McLaren PA20 TAG McLaren DPA32R Talk Electronics Hurricane 2 Talk Electronics Hurricane 4 Talk Electronics Hurricane 5 Thorens TTP-2000F Tom Evans The Groove Trilogy 900 Turlogy 902 Tube Tech Seer Line Tube Tech Prophet van den Hul Pre-amp Woodside SC27 Line Woodside SC26 Line		600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 525 525 525 525 525 525	Levinson 255 Levinson 380 Levinson 3805 Levinson 3805 Levinson 3805 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT C Wavac PR X1 Wavac ATT C Wavac ATT C Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 4  AMPLIFIERS POWER AMPS KEY '20W' - Rated RMS outp	666 666 666 666 666 666 666 666 666 66	Ph Ph Ph Ph Ph Ph Ph	5,995 6,495 4,999 4,999 2,195 2,250 3,450 2,255 2,252 3,450 2,255 2,259
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Roseoarch CASO Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA30 Jadis DA30 Ikrell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T-4 R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD300B WE  AMPLIFIERS PREAMPS KEY  G (etc) – Number of line- Ph — Phono input fitted (may be an option on some of	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 5W 5W 5W 5W 5W 5W 5W 5W 5W 60W 60W 60W 60W 60W 60W 60W 60	2,950 2,400 2,400 3,495 5,450 3,395 2,495 2,495 2,495 3,499 19,999 2,595 4,483 3,333 3,500 4,000 3,599 2,595 2,500 2,295 5,500 2,295 5,500 2,295 6,750 6,750 6,750	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio VPS Phono Art Audio VPS Phono Art Audio Vors Une Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M3 RIAA Audio Note M8 RIAA Audio Note M8 Pish Audio Note M8 RIAA Audio Note M9 Sesorio Pish Audio Synthesis Pro Passion Audio Valve Kilipse AVI S2000MP+P Beam-Echo SP-21 Bryston BP-25 Canary Audio CA-601 Cary SLP-50 Mk II Cary PH-301 Chord Phono Concordant Exhilerant Concordant Exhilerant Concordant Johnson PV-10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-10AL Conrad-Johnson FF-1	୍ତତ୍ତ୍ତ୍ତ୍ତ ତ	Ph P	375 499 1,995 5,49 999 1,499 795 1,450 2,500 2,500 2,500 1,595 999 999 1,490 995 1,490 1,195 1,165 1,126 1,126 1,126 1,126 1,126 1,129 1,1	Myryad MP100 NAD \$100 NAD \$100 NAD \$100 NAD \$101 NAD \$118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR10 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sugden Masterclass Pre Sugden Madtern Bl ILS Sumo Athena IIB/II LS Sumo Athena III Sumo Artemis uP Sunfire The Classic T+A P1200R TAG McLaren PA10 TAG McLaren PA20 TAG McLar		600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,595 1,650 1,599 1,590 1,500	Levinson 25S Levinson 380 Levinson 380S Levinson 380S Levinson 380S Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16L Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-4-A Pre DA3000 Trilogy 918 Tron Nucleus Phono Tron Meteor Wavac ATT Q Wavac PR X1 Wavac ATT G Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 4  AMPLIFIERS POWER AMPS KEY '20W' — Rated RMS outp channel into a nominal 8	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph Ph Ph	3,995 6,495 4,999 4,999 5,999 2,195 2,250 2,252 3,450 2,295 2,595 2,995 2,995 3,299 3,299 3,299 3,299 4,999 2,775 3,500 4,990 4,990 4,990 2,775 3,500 4,990 4,900
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rote Ongaku Audio Rosearch CA50 Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet EC-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6800E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T+A R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD300B-ST Wavac MD300B-ST Wavac MD300B WE  AMPLIFIERS PREAMPS KEY G (etc) – Number of line- Ph – Phono input fitted at (may be an option on some of UP TO E500  Arcam Alpha 9C Aria Simply Phono	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 5W 5W 5W 5W 5W 5W 5W 5W 5W 60W 60W 60W 60W 60W 60W 60W 60	2,950 2,400 2,400 5,650 4,450 5,450 2,495 2,495 2,495 2,495 2,495 2,495 3,499 2,690 4,483 3,333 5,000 4,000 2,955 5,500 6,900 2,955 6,750	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Mystery Two Aria Mystery Two Aria Mystery One MM Art Audio Viryl One MM Art Audio Viryl One MM/MC Art Audio Viryl One MM/MC Art Audio Chrosh Line Audio Note M1 RIAA Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M3 RIAA Audio Note M4 RIAA Audio Note M4 RIAA Audio Note M2 Line Audio Note Discovery Audio Note M2 RIAA Audio Note M2 Rine Audio Synthesis Possion Audio Synthesis Possion Audio Synthesis Possion Ultimate Audio Wille Eklipse AVI S2000MP+P Beam-Echo SP-21 Bryston BP-25 Bryston BP-25 Bryston BP-25 Bryston BP-25 Bryston BP-25 Canary Audio CA-601 Carly SLP-50 Mk II Cary PH-301 Chord Phono Clearaudio Symphono Concordant Exquisite Conrad-Johnson PV-10A C	©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©	Ph P	375 499 1,995 5,499 1,499 795 1,750 916 1,750 1,750 916 1,750 1,750 1,460 9963 1,307 1,460 999 1,995 1,449 1,490 1,490 1,126 1,592 1,1295 1,295 1,693 1,199	Myryad MP100 NAD 5100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena III Sumo Athena III Sumo Artenis uP Sunfire The Classic T-A P1200R TAG McLaren PA20 TAG McLaren DPA32R Talk Electronics Hurricane 2 Talk Electronics Hurricane 4 Talk Electronics Hurricane 5 Thorens TTP-2000F Tom Evans The Groove Trilogy 900 Turlogy 902 Tube Tech Seer Line Tube Tech Prophet van den Hul Pre-amp Woodside SC27 Line Woodside SC26 Line		600 600 1,000 650 745 1,000 750 998 1,250 525 525 525 525 525 525 525 525 525	Levinson 255 Levinson 380 Levinson 3805 Levinson 3805 Levinson 320 McIntosh C22 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-4 Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Retro Tron Retro Tron Meteor Wavac ATT Q Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 4  AMPLIFIERS POWER AMPS KEY '20W' - Rated RMS outp channel into a nominal 8 UP TO £500  Arcam Alpha 8P Arcam Alpha 8P Arcam Alpha 9P	666 666 666 666 666 666 666 666 666 66	Ph Ph Ph Ph Ph Ph Ph	3,995 6,495 4,999 4,999 2,195 2,250 3,450 2,995 2,259 2,259 2,259 2,259 2,259 2,259 2,259 3,499 14,999 2,499 2,499 2,499 3,000 2,995 2,775 3,500 3,500 4,500 5,000 2,500 5,000 1,500
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Roseorch CASO Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECI-1 Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA30 Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA640E McIntosh McIntosh McIntosh Ma640E McIntosh McIntos	6 2 2 9 2 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4W 5W 5W 5W 5W 5W 5W 5W 5W 4W 00W 00W 00W 00W 00W 00W 50W 00W 50W 00W 0	2,950 2,400 2,400 3,395 5,450 3,395 2,495 2,495 2,495 3,499 19,999 2,595 4,483 2,453 3,599 2,595 2,500 2,205	Trilogy 904 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio VPS Phono Art Audio VPS Phono Art Audio Vors Line Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 RIAA Audio Note M2 RIAA Audio Note M3 RIAA Audio Research LS8 MkII Audio Research LS8 MkII Audio Research PH3 Audio Synthesis Pro Passion Audio Alcho Sepatheria Pro Passion Audio Alcho Sepatheria Pro Pro Passion Audio Alcho Pro Passion Audio Chacholi Cary SLP-50 Mk II Cary SLP-50 Mk II Cary PH-301 Chord Johnson PV-10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-10AL Conrad-Johnson PF-1 Conrad-Johnson PR-1	୍ତତ୍ତ୍ତ୍ତ୍ତ ତ	Ph	375 499 1,995 5,49 999 1,499 795 1,507 1,460 2,500 2,500 2,500 2,500 1,500 1,990 1,990 1,1995 1,1995 1,1995 1,295 1,990	Myryad MP100 NAD \$100 NAD \$100 NAD \$100 NAD \$101 NAD \$118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR10 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Prono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena III Sumo Attensis uP Sumo Athena III Sumo Attensis uP Sum		600 600 1,000 650 745 1,000 750 993 1,250 525 525 525 1,499 650 1,599 1,599 1,599 1,999 987 1,595 1,630 965 849 1,499 1,695 650 1,595 1,695 1,595 1,590 1,590 1,590 1,590 1,590 1,590 1,595 1,595 1,590 1,500 1,50	Levinson 25S Levinson 380 Levinson 380S Levinson 380S Levinson 380S Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16L Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-4-A Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Tilogy 918 Tron Nucleus Phono Tron Meteor Wavac ATT Q Wavac ATT G Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 4  AMPLIFIERS POWER AMPS KEY '20W' — Rated RMS outp channel into a nominal 8 UP TO £500  Arcam Alpha 8P Arcam Alpha 9P Creek A43	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph Ph Ph	3,995 6,495 4,999 4,999 2,195 2,250 2,250 2,255 3,450 2,259 3,450 2,295 3,299 3,299 4,999 3,299 4,999 3,299 4,990 2,775 3,500 4,500
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rote Ongaku Audio Rosearch CASO Belcanto SETI40 Belcanto Orfeo 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet EC-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6800E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T+A R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD300B-ST Wavac MD300B-ST Wavac MD300B WE  AMPLIFIERS PREAMPS KEY G (etc) – Number of line- Ph – Phono input fitted at (may be an option on some of UP TO £500  Arcam Alpha 9C Aria Simply Phono Audio Nalague Bellini Audio Note M Zero Beam-Echo PP-21	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4W 5W 5W 5W 6W 5W 5W 5W 6W 6W 6W 6W 6W 6W 5W 5W 5W 5W 6W	2,950 2,400 2,400 5,650 4,450 5,450 2,495 2,495 2,495 2,495 2,495 2,495 3,499 2,690 4,483 3,333 5,000 4,000 2,955 5,500 6,900 2,955 6,750	Trilogy 904 Trilogy 905 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Forseti Pre Alchemist Forseti Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One MM Art Audio Viryl One MM Art Audio Viryl One MM/MC Art Audio Viryl One MM/MC Art Audio Conductor Phono MC Audio Note M1 RIAA Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 Rine Audio Note M2 Rine Audio Synthesis Possion Ultimate Audio Walve Eklipse AVI S2000MP+P Beam-Echo SP-21 Bryston BP-25 Bryston BP-25 Bryston BP-25 Bryston BP-25 Bryston BP-25 Bryston BP-25 Canary Audio CA-601 Carly SLP-50 Mk II Cary PH-301 Chord Phono Clearaudio Symphono Concordant Exquisite Conrad-Johnson PV-10A Conrad-J	©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©©	Ph	375 499 1,995 549 999 1,750 916 963 1,307 1,460 2,000 1,460 2,000 1,460 1,307 1,460 1,307 1,460 1,307 1,460 1,307 1,460 1,307 1,460 1,307 1,460 1,307 1,490 1,991 1,490 1,995 1,491 1,995 1,1995 1,1990 1,1991 1,1991 1,1990 1,1990 1,1990	Myryad MP100 NAD 5100 NAD 5100 NAD 5100 NAD 118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR20 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1P Sonic Frontiers Phono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena IIB/II LS Sumo Athena IIB Sumo Artenis uP Sunfire The Classic T-A P1200R TAG McLaren PA20 TAG McLaren PA		600 600 1,000 650 745 1,000 750 993 1,250 525 525 525 1,499 650 1,599 1,599 1,599 1,999 987 1,595 1,630 965 849 1,499 1,695 650 1,595 1,695 1,595 1,590 1,590 1,590 1,590 1,590 1,590 1,595 1,595 1,590 1,500 1,50	Levinson 255 Levinson 380 Levinson 3805 Levinson 3805 Levinson 320 McIntosh C22 McIntosh C22 McIntosh C40 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs XOno Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T-4 Pre DA3000 TAC McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Retro Tron Retro Tron Meteor Wavac ATT Q Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 4  AMPLIFIERS POWER AMPS KEY '20W' - Rated RMS outp channel into a nominal 8 UP TO £500  Arcam Alpha 8P Arcam Alpha 8P Arcam Alpha 9P	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph Ph Ph	3,995 6,495 4,999 4,999 2,195 2,250 3,450 2,995 2,259 2,259 2,259 2,259 2,259 2,259 2,259 3,499 14,999 2,499 2,499 2,499 3,000 2,995 2,775 3,500 3,500 4,500 5,000 2,500 5,000 1,500
Art Audio Integra Audio Note Meishu Line Audio Note Ongaku Audio Rosearch CA50 Belcanto SETI40 Belcanto Crife0 30SI Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 Electrocompaniet ECh-1 Camma Rhythm Ref Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA50 Krell KAV300i Krell KAV300i Krell KAV300i McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA6400E McIntosh MA680E Meracus Onesta Musical Fidelity A1001 Pathos Twin Towers Pioneer A-09 Rotel RSP-985/RPB-985 Rowland Concentra Sonus Faber Musica Sony TA-E9000ES T-4 R1500R Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Wavac MD811 Wavac MD811 Wavac MD800B-ST Wavac MD811 Wavac MD300B-ST Wavac MD300B WE  AMPLIFIERS PREAM PS KEY G (etc) – Number of line- Ph – Phono input fitted (may be an option on some of UP TO £500 Arcam Alpha 9C Aria Simply Phono Audio Analogue Bellini Audio Note M Zero	6 2 2 9 2 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4W 5W 5W 6W 5W 5W 5W 5W 5W 4W 00W 00W 00W 00W 00W 60W 50W 50W 50W 50W 50W 50W 50W 50W 50W 5	2,950 2,400 2,400 3,399 5,450 5,450 3,395 2,495 2,495 2,495 3,499 19,999 4,483 2,495 3,599 4,000 2,295 2,500 4,000 2,295 2,500 2,295 2,500 6,290 5,550 6,750	Trilogy 904 Trilogy 905 Trilogy 900  Adyton Chorus Alchemist Kraken Pre Alchemist Signature Pre Alchemist Signature Pre Aria Feather One Aria Mystery Two Aria Mystery Two Aria Mystery One Art Audio Vinyl One MM Art Audio VPS Phono Art Audio VPS Phono Art Audio Vors Ine Audio Note MI Line Audio Note MI Line Audio Note MI Line Audio Note MI Line Audio Note MI Sian Audio Prism Maritssa Audio Prism Maritssa Audio Research LS8 MkII Audio Synthesis Pro Passion Audio Chaco Synthesis Pro Passion Audio Chaco Synthesis Pro Passion Audio Chacol Canary Audio CA-601 Cary SLP-50 Mk II Cary PH-301 Chord Phono Clearaudio Symphono Concordant Exquisite Conrad-Johnson PV-10A Conrad-Johnso	୍ତତ୍ତ୍ତ୍ତ୍ତ ତ	Ph	375 499 1,995 549 999 1,750 916 963 1,307 1,460 2,000 1,460 2,000 1,460 1,307 1,460 1,307 1,460 1,307 1,460 1,307 1,460 1,307 1,460 1,307 1,490 1,199 1,109 1,116 1,126 1,326 1,199	Myryad MP100 NAD \$100 NAD \$100 NAD \$100 NAD \$101 NAD \$118 Naim NAC92R Naim NAC72 Naim NAC102 Quad 99 Pre Rega Hal Roksan ROK-L2.5 Rose RV-235 Rotel RC995 Shearne Phase 6 Pre Shearne Phase 1 Pre Ref Siemel MC20 Siemel MM20 Siemel TR10 Sonic Frontiers Anthem Pre 1P Sonic Frontiers Prono 1 Sonographe SC26 Sugden Audition Pre Sugden Masterdass Pre Sumo Athena III Sumo Attensis uP Sumo Athena III Sumo Attensis uP Sum		600 600 1,000 650 745 1,000 750 993 1,250 525 525 525 1,499 650 1,599 1,599 1,599 1,999 987 1,595 1,630 965 849 1,499 1,695 650 1,595 1,695 1,595 1,590 1,590 1,590 1,590 1,590 1,590 1,595 1,595 1,590 1,500 1,50	Levinson 255 Levinson 380 Levinson 380 Levinson 380 Levinson 380 Levinson 32 McIntosh C22 McIntosh C22 McIntosh C39 Meracus Pretare Michell Delphini Mono Naim NAC82 Naim NAC52 Pass Labs X0no Plinius M14 Plinius M16 Roksan ROK-L1.5 Rowland Synergy Rowland Coherence Sonic Frontiers Line 1 Sonic Frontiers Line 2 Sonic Frontiers Line 2 Sonic Frontiers Line 3 Sony TA-E1 T+A Pre DA3000 TAG McLaren DPA32R DAB Technics SU-C3000 Trilogy 918 Tron Nucleus Phono Tron Nucleus Line Tron Retro Tron Meteor Wavac ATT C Wavac ATT S Woodside SC26 Line & Phono YBA 1a Line YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 2 YBA Sig. Dual Mono 4  AMPLIFIERS POWER AMPS KEY '20W' - Rated RMS outp channel into a nominal 8 UP TO £500  Arcam Alpha 8P Arcam Alpha 8P Arcam Alpha 9P Creek A43 Creek A43 Creek A52	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph Ph Ph	3,995 6,495 4,999 4,999 2,195 2,250 2,250 2,255 3,450 2,259 3,450 2,295 3,299 3,299 4,999 3,299 4,999 3,299 4,990 2,775 3,500 4,500

895 1,590

950

1,490

850

770

1,705

1,705

1,425

600

1,000 550

900 1,300

1,495 550

1,575 949 639

749 1,598

1,299

1,695 549

875

1,535

849

1,099

1,100

1,895

1,895 1,900

1,199

1,733 1,880

1,600 1,455

600W

Lumley M125

Lumley M250

Levinson 334

Levinson 336

Levinson 33H

McIntosh MC150

McIntosh MC300

McIntosh MC500

McIntosh MC1000

Meracus Tentare

Meracus Cantare

Muse Model 150

Muse Model 160 Ser. II

Muse Model 175 Ser. II Muse Model 300 Ser. II

Musical Fidelity NuVista 300 Musical Fidelity F19

Musical Fidelity F16

Papworth M100

Papworth M200 Plinius SA50/3

Plinius SA1 00/3 Plinius SA250/3

Roksan ROK-M 1.5

Rowland Model 2

Rowland Model 6

Rowland Model 8T

Rowland Model 9T

Sharp SM-SX1000 Shearne Phase 1 Pwr Ref

Sonic Frontiers Power

Sonic Frontiers Power 2

Sonic Frontiers Power 3

Sugden Masterclass Power

Sunfire Load Invariant

Sunfire Signature

Siemel TA20

Sony TA-N1

Magnum A200SE Mana Stealth

Magnum Class A mono

90W

140W

135W

60W 100W

100W

110W

22W

40W

100W

50W 150W

45W

	market and	1000000
Cyrus Power	50W	500
Earmax Headphone	0.1W	375
Earmax Headphone Pro	0.1W	425
LFD Mistral Power	60W	449
LFD PAO Powerstage	50W	499
Magnum MF120	85W	365
Marantz MA-500	125W	250
Marantz MA-700	200W	400
Moth 30 Stereo	30W	249
Moth Phones-01	0.1W	299
Moth 30 Mono/40	40W	469
Musical Fidelity X-CANS	0.1W	130
Musical Fidelity E30	100W	500
Musical Fidelity X-A50	50W	500
Myryad T-60	50W	300
Myryad MA 120	60W	500
NAD 912	30W	200
NAD 214	80 W	370
NAD 216THX	125W	470
Naim NAP90/3	30W	460
Parasound HCA-750A	75W	450
Rega Maia	85W	475
Rotel RB971 Mk II	70W	225
Rotel RB981	130W	355
Shearne 3.5	35W	489
Talk Electronics Tornado 1	50W	450
Technics SE-A1010	100W	350
	STREET,	
£501 TO £2000		

	100	W. I
Alchemist Kraken Pwr	55W	549
Alchemist Forseti Pwr	150W	1,399
Alchemist Signature Power	100W	1,999
Arcam Alpha 10P	100W	600
Aria Power 35	35W	1,500
Art Audio Ouartet	15W	1,753
Art Audio Concerto	25W	1.960
Audio Analogue Donizetti	60W	595
Audio Note The P	40W	550
Audio Note P Zero	8W	599
Audio Note P1	12W	750
Audio Note P1SE	12W	999
Audio Note P2	20W	1,000
Audio Note P2SE	18W	1,499
Audio Note Conqueror	8W	1,599
Audio Prism Antares	35W	1,695
Audio Research D130	130W	1,890
Audio Research VT60	35W	1,999
Audio Valve RKV	0.1W	595
Audio Valve PPP25	25W	1,095
Audio Valve PPP45	45W	1,395
AVI S2000MM	150W	1,399
Beauhorn Obligato	7W	1,695
Bryston 2B-LP	75W	750
Bryston 3B-ST PRO	150W	1,160
Bryston 3B-ST	150W	1,160
Bryston THX3B	150W	1,262
	300W	1,756
	500W	1,815
	500W	1,815
D TUNKED	300W	1,850
D . TUNGED	500W	1,886
Canary Audio CA-706	40W	1,695
Canary Audio CA-708	50W	1,950
Chord SPM 400	100W	1,565
Conrad-Johnson MV-55	50W	1,995
Copland CSA515	150W	1,299
Copland CTA505	67W	1,899
CR Dev Amphion	12W	1,949
Credo PMP 804	1244	1,876
Creek A52SE	100W	599
Crimson CS630D	100W	850
C CCC+OD	200W	1,300
	150W	1,900
Densen B-300	100W	800
Densen DM-30	100W	1,380
DNM PA Start	45W	1,000
DNM PA1 Start	45W	1,300
DNM PA3	50W	1,900
DPA Enlightenment pwr	-1-00	995
Dynavector HX75	100W	1,995
Dynavector nx/5	75W	טפט

CHITISON CS640D	200W	
Cyrus aPA7	150W	
Densen B-300	100W	
Densen DM-30	100W	
DNM PA Start	45W	
DNM PA1 Start	45W	
DNM PA3	50W	
DPA Enlightenment pwr	100W	
Dynavector HX75	75W	
ECA Lectern S	50W	
ECA Lectern HD	50W	
Electrocompaniet AW60FTT	60W	
Exposure XVIII Super	75W	
Exposure XVIII Mono	60W	
Golden Tube Audio SE-40	40W	
Golden Tube Audio SE-300B MkII	8W	
Graaf Venticinque P	25W	
Graaf 5050	50W	
Hi Q Sound MCM	70W	
Jadis DA5	40W	
Krell KAV150a	150W	
Lexicon 212	120W	
LFD PA1 Powerstage	60W	
LFD PA2 Powerstage	75W	
LFD PA2M Powerstage	90W	
Linn LK100	50W	
Linn LK240	120W	
Linn AV5105	100W	
Lynwood Ruby	120W	
Magnum MF330	150W	
Magnum MF660	125W	
Magnum ASOOCE	MINOC	

	Frank I
Meridian 555	60W
Meridian 556	100W
Meridian 557	200W
Meridian 505	160W
Michell Alecto Stereo	50W
Michell Alecto Mono	100W
Monrio Asty P	100W
Moth Stereo 60	60W
Moth 30 Mono/100	100W
Muse Model 100	100W
Musical Fidelity X-A200	200W
Myryad MA240	120W
NAD 218THX	200W
NAD S200	200W
Naim NAP140	45W
Naim NAP180	60W
Naim NAP135	75W
Naim NAP250	70W
Papworth TVA50	50W
Parasound HCA-1000A	125W
Parasound HCA-1500A	205W
Quad 99 Stereo Power	85W
Quad 909	140W
Quad 99 Monoblock	150W
Rega Exon	125W
Roksan Caspian Power	70W
Roksan ROK-S1.5	70W
Rose RP-190 (Dual Mode)	75W
Rotel RB991	200W
Rotel RB-1090	380W
Rothwell Rubicon	10W
Shearne Phase 3	50W
Shearne Phase 3 Reference	50W
Shearne Phase 5 Mono	100W
Sonic Frontiers Anthem Amp 1	40W
Sonographe SA250	125W
Sonographe SA400	220W
Sugden Audition Power	
Sugden A21a Power	25W
T. A A1210	0.0141

#### YBA 3a DT Stereo **OVER £2000**

T+A A1210

T+A A1500

T+A PA1500R

TAG McLaren 60P

TAG McLaren 100P

Thorens TTA-2000

Woodside MA100

Woodside STA50

XTC POW-2

1,480

1,095

1,800

1,100 1,790

1,395 1,995 715 1,749

1,990 1,850

999

1,599

1,999

1,200

985

685 825

1,485

1.999

Boulder 2060

Trilogy 948

Trilogy 948T

Talk Electronics Tornado 2

Talk Electronics Tornado 3

Talk Electronics Tornado 4

Tube Tech Unisis Sig. Pwr Woodside SA240

	District to	
Adyton Cordis 1.6	120W	3,495
Adyton Cordis 3B	280W	12,995
Aria Smart 845	24W	3,500
Aria Smart 300B	24W	4,250
Art Audio Symphony	7W	2,500
Art Audio Tempo	30W	2,714
Art Audio Maestro	60W	3.884
Art Audio Diavolo	13W	4,000
Art Audio Jota	18W	6,000
Art Audio Ellesse	100W	8,500
Art Audio Chiara	25W	10.000
ATC SPA2-200PRO	200W	2,056
ATC SPA2-150	200W	2,699
Atma-Sphere S-30 Mk II	30W	2,450
Atma-Sphere M-60 Mk II	60W	4,195
Atma-Sphere MA-1 Mk II	150W	7,995
Audio Note P3	9W	2,150
Audio Note Ouest	9W	2,750
Audio Note Yubi		3,850
Audio Note Conquest	18W	4,450
Audio Note Tomei	18W	8,500
Audio Note Neiro	30W	11,360
Audio Note Ankoru	7W	14,500
Audio Prism Debut Mk II	60W	2,495
Audio Prism Mana	35W	12,995
Audio Research VT50	100W	2,950
Audio Research 100.2	50W	3,395
Audio Research VT100 Mkll	100W	4,950
Audio Research VT200	100W	8,790
Audio Synthesis Desire Decade	200W	2,495
Audio Valve Avalon	200W	2,195
Audio Valve Challenger 115	60W	
Audio Valve Challenger 140	115W	2,995
Audio Valve Challenger 300	140W	3,495
Audio Valve Challenger 300 Audio Valve Baldur 200 Plus	300W	7,995
	149W	8,995
Audiolabor 500 Beam-Echo DI 7-35	230W	5,998
	30W	3,525
Belcanto SET40	40W	3,450
Belcanto Orfeo 30S	35W	4,750
Belcanto SET80	80W	6,750
Border Patrol 300B SE	9W	3,995
Border Patrol 300B SE (WE)	10W	4,495
Boulder 102AE	100W	2,800
Boulder 102M	100W	3,100
Boulder 500AE	150W	4,995
Boulder 500M	150W	5,500

Boulder 2050		43,500
Bryston THX8B	999W 150W	2,385
Canary Audio CA-304	40W	2,695
Canary Audio CA-301	22W	2,995
Canary Audio CA-303	24W	5,495
Cary CAD-572SE	20W	2,250
Cary CAD-2A3.SE Cary CAD-300SE	5W 20W	3,150 4,495
Cary CAD-805C	50W	7,995
Chord SPM 600	130W	2,040
Chord SPM 1000B	200W	2,920
Chord SPM 1200B Chord SPM 1200C	250W 330W	3,790 4,210
Chord SPM 1400E mono	500W	5,650
Chord SPM 5000	580W	14,500
Conrad-Johnson MF2250	130W	2,295
Conrad-Johnson MF-2500	250W	3,495
Conrad-Johnson Premier 11A Conrad-Johnson Premier 12	70W 140W	3,500 6,900
Conrad-Johnson Premier 8XS	150W	17,000
Conrad-Johnson Premier 8A	275W	17,000
CAT JL1	100W	17,550
CR Dev Artemis	35W	4,995
Credo LPO 804 Credo PMP 155		2,456 2,676
Credo LPO 455		4,975
Credo LPO 155		6,983
DNM PA3S	23W	2,900
Dynavector HX1.2 EAR 861	130W	3,995
EAR 509 Mk II	32W	3,599
EAR 519	100W 100W	4,699
EAR 549	200W	6,499
Electrocompaniet AW120DMB	120W	2,695
Electrocompaniet AW250R Electrocompaniet AW180MB	250W	3,995 4,595
Exposure IV	180W 90W	2,199
Exposure XVI	125W	4,000
Gamma Aeon	20W	4,999
Gamma Space Ref	18W	7,999
Gamma Aeon Ref Gate TR201A	70W	49,999
Golden Tube Audio SE-100	22W 100W	2,495
Graaf GM20	60W	2,950
Graaf GM100	100W	4,450
Jadis DA8 Jadis DA7	80W	2,990 4,790
Jadis JA30	100W	5,180
Jadis SE300B	10W	7,980
Jadis JA80	60W	9,580
Jadis JA100	100W	10,298
Jadis JA200	160W	13,980
Jadis JA500 Krell KAV250a	400W 250W	19,990
Krell KAV500/2	100W	3,195
Krell FPB200	200W	5,998
Krell FPB250m	250W	8,994
Krell FPB300 Krell FPB600	300W	9,500
Krell FPB350m	600W 350W	12,900 15,994
Krell FPB650m	650W	23,800
Lexicon 225	250W	2,500
Lexicon 501	500W	5,000
Linn Klout	80W	2,400
Linn Klimax 500	500W	11,200

T+A A3000	190W	2,850
TACT Millenium II	150W	7,000
TAG McLaren 125M	125W	2,399
Talk Electronics Tornado 5	200W	2,100
Trilogy 958T	45W	3,395
Trilogy 958	100W	3,395
Tron Type PX25	5W	6,150
Tron Type WE300B	W8	6,550
Tron Type PX25 Mono	5W	12,30
Tron Type WE300B Mono	15W	13,10
Tube Tech Genesis Sig.	100W	4,700
Tube Tech Synergy DMA	150W	6,400
van den Hul Power amp	65W	2,500
Wavac MD572	50W	6,250
Wavac EC300B	10W	16,50
Wavac EC838	35W	21,75
Wavac HE 4304	15W	24,75
Wavac HE 833	100W	27,50
Wavac HE 805	45W	27,50
XTC POW-1	200W	2,500
YBA 2a HC Stereo	70W	2,350
YBA 3a Mono	45W	2,425
YBA 2a HCDT Stereo	70W	3,050
YBA 1a HC Stereo	85W	4,400
YBA 2a HCDT Mono	70W	5,000
YBA 1a HC Mono	85W	6,650
YBA Sig. Stereo	100W	6,99
YBA Passion Mono	250W	8,775
YBA Sig. Mono	100W	9,999
YBA Sig. HC Mono	100W	16,65



#### **CABLES Analogue Interconnects**

3,750

7,500

3.750

7,495

8,995

19,395

3,499

3,999

8.999 14,999 2,245

8,995

2.290

2,690

3,490 3,990

2,500

4,000

2,645

3,825 2,750

3,450 5,850

2,250 4,999

10,999 12,499

27,999

2,399

2.350

2,499

4,999

4,500 2,995

2.280

120W

250W

180W

275W

250W

150W

150W

300W

500W 999W

75W

-W

125W

175W

300W

200W

300W

100W

200W

75W 150W

250W 350W

100W

50W 55W

110W

220W

200W 75W

300W

600W

Stranded construction. Solid-core construction. Prices of interconnects are

for a one-metre terminal	ed pa	air.	
Acoustic Precision Eikos	0		89.00
Argento Copper I/C	0		120.00
Argento Silver I/C	0		255.00
Argento VDM Silver	0		865.00
Art Yam Church 5000			515.00
Audio Note AN-A	0		18.00
Audio Note AN-C	0		35.00
Audio Note AN-S	0		99.00
Audio Note AN-V	0		179.00
Audio Note AN-Vx	0		450.00
Audioquest Jade			37.00
Audioquest Turquoise		•	60.00
Audioquest Topaz			80.00
Audioquest Coral	0		100.00
Audioquest Viper			160.00
Audioquest Python			395.00
Audiosource Petros Blue	•		48.00
Audiosource Petros Blue Plus	0		58.00
Audiosource Stratos Ser. 2	0		125.00
Cable Talk Improved 3	0		25.00
Cable Talk Improved 3/Tape	0		45.00
Cable Talk Monitor 3	0		50.00
Cable Talk Professional 3	0		75.00
Cable Talk Broadcast 3	0		100.00
Cable Talk Reference 3	•		150.00
Cable Talk Signature 3 Gold	•		300.00
Cambridge Atlantic	0		10.00
Cambridge Arctic	0		20.00
Cambridge Pacific	0		30.00
Cambridge Studio Reference	0		40.00
Cambridge Silver Spirit 40	0		70.00
Cambridge Silver Spirit 60 Cardas Audio 300B-Microtwin	0		100.00
Cardas Audio Ouadlink-Five	0		200.00
Cardas Audio Quadillik-rive	<b>(3)</b>		360.00
Cardas Audio Hexlink-Five C	©		530.00
Cardas Audio Hexlink Golden-5 C	0		600.00
Cardas Audio Golden Cross	0		700.00
ChordCo Chrysalis	0		40.00
ChordCo Cobra 2	•		55.00
ChordCo Siren	•		69.00
ChordCo Chameleon 2	<b>(3)</b>		90.00
ChordCo Solid	•		125.00
ChordCo Chorus	0		199.00
ChordCo Anthem	0		275.00
Clearaudio Trident	0		85.00
Clearaudio Phocus	0		215.00
Clearaudio Silverline	0		265.00
Clearaudio Quint	0		320.00
-			

200W 200W

100W

60W

Magnum A500SE Magnum A50SE

McIntosh MC7100

Meracus Ciere

Clearaudio Sixstream Connections UK Ultra Connections UK Midas Connections UK Midas Connections UK MD DBF Acoustics Black Velvet SE DBF ACOUSTICS Black SIINK DPA Black Slink DPA Black Slink Ecosse Ref CA1 Ecosse Ref CA1 Ecosse Ref CA1 Ecosse Ref MA2 Ecosse Ref US1 Expressive Tech IC-1 Gamma Wow Balance Goertz M1 Interconnect CT Audio Intercon Harmonix HS-102 Harmonix HS-101 Henley HSP100 Henley HSP200 Henley HS	\$		365.00 28.00 39.00 39.00 40.00 30.00 40.00	Precious Metals SS53 Precious Metals SS100 Precious Metals SS100 Precious Metals SS102 Precious Metals SS103 Precious Metals SS104 Precious Metals SS200 Precious Metals SS200 Precious Metals SS200 Precious Metals SS202 Precious Metals SS202 Precious Metals SS204 Prowre Silver PAD Elementa QED Qunex 2 QED Qunex 4S QED Qunex 4S QED Qunex Sil'r Spiral Roksan HDC-02A Rothwell River Rothwell Torrent Shinpy Red Star 2 Shinpy Pulsar 2 Shinpy Quasar 2 Shinpy Quasar 2 Shinpy Dulsar 2 Shinpy Big Bang 2 Siltech MC-12 Siltech MC-12 Siltech MC-12 Siltech FTM-3S Silver Sounds SS2 Silver Tone Ex-Status Silver Tone Sci-Fi SME SZLB-4	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	•	90.00 100.00 130.00 190.00 220.00 290.00 360.00 445.00 30.00 60.00 90.00 55.00 119.00 240.00 495.00 1,995 308.00 400.00 730.00 99.00 199.00 46.18	van den Hul First Classic van den Hul First Ultimate van den Hul First Ultimate van den Hul MC Gold van den Hul MC Gold van den Hul MC Silver IT v		240.00 275.00 320.00 1,400 1,750 30.00 40.00 30.00 40.00 40.00 40.00 199.00 119.00 199.00 199.00 625.00 675.00 755.00 755.00 755.00 2,200	Moth Leyline Datalink Nordost Moonglo Nordost Silver Shadow Precious Metals SD35 Precious Metals SD100 Precious Metals SD200 Precious Metals SD200 QED Qunex OT Roksan HDC-01D Shinpy Digital Siltech HF-6 Sonct.ink Green Supra ZAC Supra EFF-ID Supra DAC-XLR Tara Prism D-1 Tara Prism D-2 Tara RSC Air Dig. 75 Tara RSC Air Dig. 75 Tara RSC Air Dig. 110 Tara ISM The One Dig. Theta AT&T Transparent Cable PDL Trichord Pulsewire 75D Vampire Wire Dl/I van den Hul Surce HB van den Hul Videolink van den Hul AES-EBU 110 van den Hul ISES-EBU 110 van den Hul Second van den Hul Second van den Hul Second van den Hul First Ultimate	© © © © © © © © © © © © © © © © © © ©	140.00   155.00   20.00   50.00   110.00   45.00   45.00   44.95   45.00   45.00   45.00   995.00   995.00   150.00   35.00   75.00   150.00   15
Ecosse Ref CA1	•		65.00	QED Qunex 2			30.00	XLO Type ER-1	3	40.00	SonicLink Green		<b>●</b> 60.00
	0												
												<b>©</b>	
Expressive Tech IC-1			700.00	Rothwell Torrent	•	•							
	•												
	0												
					•								
								ALO LITILLED LOTT	9	2,200		0	
	<b>③</b>						99.00				van den Hul Videolink	•	70.00
	0				•			The state of the s	manual di				
	<b>(3)</b>	•			63	•							
	0		46.95	SME S2LB-4									
Insert Image 5.1	0		84.95	SME S3LB-4	•		52.06				XLO Pro 104	•	60.00
Insert Status 3.4 Ixos 104	<b>(3)</b>		159.95	SME 4900A SME 5900A	•		76.83 102.57				XLO Ultra 4 XLO Ref 2	0	89.00 180.00
lxos 1003	•		30.00	SonicLink Red	•		25.00	Consideration of the constant			XLO Sig 4.1	•	325.00
lxos Gamma 1002	0		39.95	SonicLink Silver pink	0		35.00				XLO Limited Ed'n	•	1,100
lxos 103 lxos 102	0		45.00 60.00	SonicLink Black SonicLink Lilac	0		50.00 65.00						DESCRIPTION OF THE PERSON OF T
Ixos 1000	0		89.95	SonicLink Violet	0		85.00		AND COLOR		THE RESIDENCE OF THE PARTY OF T		<b>1973</b>
Ixos 101	0		100.00	SonicLink Maroon	0		125.00				150000000		
lxos 100.XO3 Kımber PBJ/Ultraplate	<b>©</b>		150.00	SonicLink Blue Nickel SonicLink Vermilion		•	150.00 195.00	CABLES					
Kimber KC1	0		96.00	SonicLink Red earth		0	300.00	<b>Digital Interconne</b>	ects				
Kimber Hero	0		110.00	SonicLink Black earth		•	450.00	KEY					
Kimber Silver Streak Kimber KCAG	0		180.00 390.00	SonicLink Blue earth SonicLink Black Rhodium		0	695.00 995.00	⊕ – Stranded construction.					
Kimber KCTG	0		720.00	Straight Wire Chorus	63	•	40.00	<ul><li>Solid-core construction.</li></ul>					
LAT International IC-50	•		37.00	Straight Wire Sonata	0		80.00		•		0.000		
LAT International IC-80 MkII LAT International IC-100 MkII	•		58.00	Straight Wire Encore II	0		99.95	Prices of interconnects are					
LAT International IC-200 Mk II		•	95.00 151.00	Supra DAC-X Supra EFF-IX	•		59.95 69.95	for a one metre terminated	pair.	energy and the		1000	
Lieder Chanson	•		340.00	Supra EFF-ISL	0		79.95	Art Yam Church 5000	•	275.00	SPEAKER CAB	FS	
Lieder Lek	0		420.00	Supra EFF-XLR	0		89.95	Audioquest Digital/video 1	•	35.00	VEV		
Lieder Het Lied Lieder Song	•		420.00 580.00	Tara Prism 5 Tara RSC Axiom	•	•	21.95 137.00	Audioquest Digital/video 2 Audiosource Petros Blue Plus S	•	75.00 35.00	⊕ – Stranded construction		
Lieder Maas	•		620.00	Tara RSC-Prime Gen/2		0	170.00	Audiosource Stratos Ser. 2		59.00			
Lindor Diin	0		1,000	Tara Prism 55i		•	195.00	Cable Talk Digital 3		50.00	<ul><li>Solid-core constru</li></ul>		
Lieder Rijn Lieder Waal			1,400	Tara RSC-Ref Gen. 2		•	224.50	Cardas Audio Lightning		190.00	Price per mono metre,	untermin	ated.
Lieder Waal	•						336.00		9	38.00			
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4			115.00 175.00	Tara RSC Air 3 Tara RSC Air 2		•	336.00 560.00	ChordCo Codac ChordCo Optichord	)	38.00 40.00			
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100	0000		115.00 175.00 11.00	Tara RSC Air 2 Tara RSC Air 1		•	560.00 790.00	ChordCo Codac ChordCo Optichord ChordCo Prodac	•	40.00 50.00	ALR/Jordan QMM	0	5.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200	00000		115.00 175.00 11.00 23.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three		<ul><li>•</li><li>•</li><li>•</li></ul>	560.00 790.00 894.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DNM-Reson DIG100	)	40.00 50.00 26.00	Argento Copper	•	35.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100	***		115.00 175.00 11.00 23.00 40.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The 2		0 0 0	560.00 790.00 894.00 1,144	ChordCo Codac ChordCo Optichord ChordCo Prodac DNM-Reson DIG100 DPA Opti-link	)	40.00 50.00 26.00 20.00	Argento Copper Argento Copper Ref	•	35.00 65.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 300 Mkll	00000		115.00 175.00 11.00 23.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The 2 Tara ISM The One TCI Viper	0	<ul><li>•</li><li>•</li><li>•</li></ul>	560.00 790.00 894.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DNM-Reson DIG100	)	40.00 50.00 26.00	Argento Copper	•	35.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 400 MkII Monster Interlink 400 MkII Moth Leyline Black Moth Leyline Grey	***		115.00 175.00 11.00 23.00 40.00 50.00 100.00 200.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The 2 Tara ISM The One TCI Viper Transparent Cable Musichord	00	0 0 0	560.00 790.00 894.00 1,144 2,175 54.99 48.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DMM-Reson DIG100 DPA Opti-link DPA Digi-link Ecosse Ref MD2 Harmonix HS-101DIG	•	40.00 50.00 26.00 20.00 27.50 71.50 240.00	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000	0 0 0	35.00 65.00 125.00 380.00 470.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 300 MkII Month Leyline Black Moth Leyline Grey Nordost Magic	***	•	115.00 175.00 11.00 23.00 40.00 50.00 100.00 200.00 35.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The 2 Tara ISM The One TCI Viper Transparent Cable Musichord Transparent Cable The Link	•	0 0 0	560.00 790.00 894.00 1,144 2,175 54.99 48.00 92.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DMN-Reson DIG100 DPA Opti-link DPA Dig1-link Ecosse Ref MD2 Harmonix HS-101DIG Insert Dataline 500	•	40.00 50.00 26.00 20.00 27.50 71.50 240.00 24.95	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000 Art Yam Church 5000	00000	35.00 65.00 125.00 380.00 470.00 795.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 300 MkII Monster Interlink 400 MkII Moth Leyline Black Moth Leyline Grey Nordost Magic Nordost Black Knight Nordost Solar Wind	***	•	115.00 175.00 11.00 23.00 40.00 50.00 100.00 200.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The 2 Tara ISM The One TCI Viper Transparent Cable Musichord		0 0 0	560.00 790.00 894.00 1,144 2,175 54.99 48.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DMM-Reson DIG100 DPA Opti-link DPA Digi-link Ecosse Ref MD2 Harmonix HS-101DIG	•	40.00 50.00 26.00 20.00 27.50 71.50 240.00	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000	000000	35.00 65.00 125.00 380.00 470.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 300 MkII Monster Interlink 400 MkII Moth Leyline Black Moth Leyline Grey Nordost Magic Nordost Black Knight Nordost Solar Wind Nordost Blue Angel	***	•	115.00 175.00 11.00 23.00 40.00 50.00 100.00 200.00 35.00 60.00 84.95 98.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The 2 Tara ISM The One TCI Viper Transparent Cable Musichord Transparent Cable The Link Transparent Cable The Link Transparent Pulsewire 75 Vampire Wire CC	0		560.00 790.00 894.00 1,144 2,175 54.99 48.00 92.00 119.00 169.00 24.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DNM-Reson DIG100 DPA Opti-link DPA Digi-link Ecosse Ref MD2 Harmonix HS-101DIG Insert Dataline 500 Insert Optic 2.1 Insert Dataline 700 Insert Dataline 700 Insert Insert Dataline 700 Insert Insert Dataline 700 Insert Image 5.1		40.00 50.00 26.00 20.00 27.50 71.50 240.00 24.95 29.95 39.95 44.95	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000 Audio Note AN-D Audio Note AN-B Audio Note AN-L		35.00 65.00 125.00 380.00 470.00 795.00 4.50 16.50 29.50
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 300 MkII Monster Interlink 400 MkII Moth Leyline Black Moth Leyline Grey Nordost Magic Nordost Black Knight Nordost Solar Wind Nordost Blue Angel Nordost Blue Heaven I/C		•	115.00 175.00 11.00 23.00 40.00 50.00 100.00 200.00 35.00 60.00 84.95 98.00 150.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The Ore TCI Viper Transparent Cable Musichord Transparent Cable Musichord Transparent Cable Musichord Transparent Cable Music Link Trichord Pulsewire 75 Vampire Wire CC Vampire Wire CCC/II	000		560.00 790.00 894.00 1,144 2,175 54.99 48.00 92.00 119.00 169.00 24.00 58.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DNM-Reson DIG100 DPA Opti-link DPA Digi-link Ecosse Ref MD2 Harmonix HS-101DIG Insert Dataline 500 Insert Optic 2.1 Insert Dataline 700 Insert Image 5.1 kos 105	•	40.00 50.00 26.00 27.50 71.50 240.00 24.95 29.95 39.95 44.95 25.00	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000 Art Yam Church 5000 Audio Note AN-D Audio Note AN-B Audio Note AN-L Audio Note AN-L Audio Note AN-SP	0	35.00 65.00 125.00 380.00 470.00 795.00 4.50 16.50 29.50
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 300 MkII Monster Interlink 400 MkII Moth Leyline Black Moth Leyline Grey Nordost Magic Nordost Black Knight Nordost Solar Wind Nordost Blue Angel Nordost Blue Heaven I/C Nordost Red Dawn Nordost SPM	***************************************	•	115.00 175.00 11.00 23.00 40.00 50.00 100.00 200.00 35.00 60.00 84.95 98.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The 2 Tara ISM The One TCI Viper Transparent Cable Musichord Transparent Cable The Link Transparent Cable The Link Transparent Pulsewire 75 Vampire Wire CC	0000		560.00 790.00 894.00 1,144 2,175 54.99 48.00 92.00 119.00 169.00 24.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DNM-Reson DIG100 DPA Opti-link DPA Digi-link Ecosse Ref MD2 Harmonix HS-101DIG Insert Dataline 500 Insert Dataline 700 Insert Image 5.1 Ixos 105 Ixos 106		40.00 50.00 26.00 20.00 27.50 71.50 240.00 24.95 29.95 39.95 44.95 25.00 30.00	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000 Art Yam Church 5000 Audio Note AN-D Audio Note AN-B Audio Note AN-L Audio Note AN-SP Audio Note AN-SP Audio Note AN-SP Audio Note AN-SP		35.00 65.00 125.00 380.00 470.00 795.00 4.50 16.50 29.50 450.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 300 Mkll Monster Interlink 400 Mkll Moth Leyline Black Moth Leyline Black Moth Leyline Grey Nordost Magic Nordost Black Knight Nordost Solar Wind Nordost Blue Angel Nordost Blue Heaven I/C Nordost Red Dawn Nordost SPM Nordost Quattrofil	**************************************	•	115.00 175.00 11.00 23.00 40.00 550.00 200.00 35.00 60.00 84.95 98.00 150.00 825.00 1,250	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The One TCI Viper Transparent Cable Musichord Transparent Cable Musichord Transparent Cable Music Link Trichord Pulsewire 75 Vampire Wire CC Vampire Wire CC/II Vampire Wire SC/II Vampire Wire SC/II Vampire Wire SC/IV Vampire Wire Al/2	0000000		560.00 790.00 894.00 1,144 2,175 54.99 48.00 92.00 119.00 24.00 58.00 98.00 144.00 259.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DNM-Reson DIG100 DPA Opti-link DPA Digi-link Ecosse Ref MD2 Harmonix HS-101DIG Insert Dataline 500 Insert Dataline 500 Insert Dataline 700 Insert Inage 5.1 kxos 105 kxos 106 Kimber Opti-link Kimber Illuminati DV-30		40.00 50.00 26.00 20.00 27.50 71.50 24.00 24.95 29.95 39.95 44.95 25.00 30.00 70.00	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000 Art Yam Church 5000 Audio Note AN-D Audio Note AN-B Audio Note AN-B Audio Note AN-SP Audio Note AN-SP Audio Quest Slate Audioquest Type 2 Audioquest Slate		35.00 65.00 125.00 380.00 470.00 795.00 4.50 16.50 29.50 150.00 450.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 200 Monster Interlink 400 MkII Monster Interlink 400 MkII Moth Leyline Black Moth Leyline Black Moth Leyline Grey Nordost Magic Nordost Black Knight Nordost Black Knight Nordost Blue Angel Nordost Blue Heaven I/C Nordost Red Dawn Nordost SPM Nordost SPM Nordost Quattrofil Ortofon 7N interconnect	*****************************	•	115.00 175.00 11.00 23.00 40.00 550.00 200.00 35.00 60.00 84.95 98.00 150.00 150.00 825.00 1,250 250.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The One TCI Viper Transparent Cable Musichord Transparent Cable Musichord Transparent Cable Music Link Trichord Pulsewire 75 Vampire Wire CC Vampire Wire CC(II Vampire Wire SC/II Vampire Wire SC/II Vampire Wire SC/IV Vampire Wire SC/IV Vampire Wire SL			560.00 790.00 894.00 1,144 2,175 54.99 48.00 92.00 119.00 24.00 58.00 98.00 144.00 259.00 412.00	ChordCo Codac ChordCo Optichord ChordCo Ptodac DNM-Reson DIG100 DPA Opti-link DPA Digi-link Ecosse Ref MD2 Harmonix HS-101DIG Insert Dataline 500 Insert Dataline 700 Insert Image 5.1 Ixos 105 Ixos 106 Kimber Opti-link Kimber Illuminati DV-30 Kimber Illuminati D-60		40.00 50.00 26.00 27.50 240.00 24.95 29.95 39.95 44.95 25.00 50.00 70.00 325.00	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000 Art Yam Church M2000 Art Yam Church S000 Audio Note AN-D Audio Note AN-B Audio Note AN-B Audio Note AN-SP Audio Note AN-SP Audio Quest Slate Audioquest Slate Audioquest Sedrock		35.00 65.00 125.00 380.00 470.00 795.00 4.50 16.50 29.50 150.00 450.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 300 Mkll Monster Interlink 400 Mkll Moth Leyline Black Moth Leyline Black Moth Leyline Grey Nordost Magic Nordost Black Knight Nordost Solar Wind Nordost Blue Angel Nordost Blue Heaven I/C Nordost Red Dawn Nordost SPM Nordost Quattrofil	**************************************	•	115.00 175.00 11.00 23.00 40.00 50.00 100.00 200.00 35.00 60.00 84.95 98.00 150.00 300.00 825.00 1,250 250.00 120.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The Three Tara ISM The One TCI Viper Transparent Cable Musichord Transparent Cable Husichord Transparent Cable Music Link Trichord Pulsewire 75 Vampire Wire CC Vampire Wire CC(VII Vampire Wire SC/II Vampire Wire SC/IV Vampire Wire SV/IV Vam	0000000		560.00 790.00 894.00 1,144 2,175 54.99 48.00 92.00 119.00 24.00 58.00 98.00 144.00 259.00 412.00 29.99	ChordCo Codac ChordCo Optichord ChordCo Prodac DNM-Reson DIG100 DPA Opti-link DPA Digi-link Ecosse Ref MD2 Harmonix HS-101DIG Insert Dataline 500 Insert Optic 2.1 Insert Dataline 700 Insert Dataline 700 Insert Insert Insert Dutaline 700 Insert Illuminati DV-30 Kimber Illuminati DV-30 Kimber Illuminati DV-50 Kimber Illuminati DV-50 Kimber Illuminati DV-50		40.00 50.00 26.00 27.50 71.50 240.00 24.95 29.95 39.95 44.95 25.00 30.00 50.00 325.00 350.00	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000 Audio Note AN-D Audio Note AN-B Audio Note AN-B Audio Note AN-L Audio Note AN-SP Audio Note AN-SP Audioquest Siate Audioquest Siate Audioquest Grante	### ##################################	35.00 65.00 125.00 380.00 470.00 795.00 4.50 16.50 29.50 450.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 200 Monster Interlink 300 Mkll Monster Interlink 400 Mkll Moth Leyline Black Moth Leyline Black Moth Leyline Grey Nordost Magic Nordost Black Knight Nordost Black Knight Nordost Blue Angel Nordost Blue Heaven I/C Nordost Blue Heaven I/C Nordost Red Dawn Nordost SPM Nordost Quattrofil Ortofon 7N interconnect PHY-HP Intercon. unscrnd PHY-HP Intercon. scrnd Precious Metals SSS0	**************************************	•	115.00 175.00 11.00 23.00 40.00 550.00 200.00 35.00 60.00 84.95 98.00 150.00 150.00 825.00 1,250 250.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The Three Tara ISM The One TCI Viper Transparent Cable Musichord Transparent Cable Musichord Transparent Cable Music Link Trichord Pulsewire 75 Vampire Wire CC Vampire Wire CC(JI Vampire Wire SC/II Vampire Wire SC/IV Vampire Wire SC/IV Vampire Wire SL van den Hul Storm II van den Hul Storm II van den Hul Storce HB	0000000		560.00 790.00 894.00 1,144 2,175 54.99 48.00 92.00 119.00 24.00 58.00 98.00 144.00 259.00 412.00	ChordCo Codac ChordCo Optichord ChordCo Prodac DNM-Reson DIG100 DPA Opti-link DPA Digi-link Ecosse Ref MD2 Harmonix HS-101DIG Insert Dataline 500 Insert Optic 2.1 Insert Dataline 700 Insert Image 5.1 txos 105 kxos 106 Kimber Opti-link Kimber Illuminati DV-30 Kimber Illuminati DV-50 Kimber Illuminati DV-50 Kimber Illuminati Orchid LAT International DI-20-D		40.00 50.00 26.00 27.50 240.00 24.95 29.95 39.95 44.95 25.00 50.00 70.00 325.00	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000 Art Yam Church M2000 Audio Note AN-D Audio Note AN-B Audio Note AN-L Audio Note AN-SP Audio Note AN-SP Audioquest Type 2 Audioquest Salee Audioquest Galdrat Audioquest Grante Audioquest Grante Audioquest Galdera	***************************************	35.00 65.00 125.00 380.00 470.00 795.00 4.50 16.50 29.50 150.00 450.00
Lieder Waal Lumley Silver 12/2 Lumley Silver 14/4 Monster Interlink 100 Monster Interlink 200 Monster Interlink 300 Mkll Monster Interlink 400 Mkll Moth Leyline Black Moth Leyline Grey Nordost Magic Nordost Black Knight Nordost Solar Wind Nordost Blue Angel Nordost Blue Angel Nordost SPM Nordost SPM Nordost SPM Nordost SPM Nordost Quattrofil Ortofon 7N interconnect PHY-HP Intercon. unscrnd PHY-HP Intercon. scrnd	***************************************	•	115.00 175.00 11.00 23.00 40.00 50.00 100.00 200.00 35.00 60.00 84.95 98.00 150.00 1250 250.00 1,250 250.00 120.00 165.00	Tara RSC Air 2 Tara RSC Air 1 Tara ISM The Three Tara ISM The Three Tara ISM The One TCI Viper Transparent Cable Musichord Transparent Cable Musichord Transparent Cable Music Link Trichord Pulsewire 75 Vampire Wire CC Vampire Wire CC/II Vampire Wire SC/II Vampire Wire SC/II Vampire Wire SL/II Vampire Wire SL Trichord Pulsewire S	000000000000000000000000000000000000000		560.00 790.00 894.00 1,144 2,175 54.99 48.00 92.00 119.00 169.00 58.00 98.00 144.00 259.00 412.00 29.99 50.00	ChordCo Codac ChordCo Optichord ChordCo Optichord ChordCo Prodac DNM-Reson DIG100 DPA Opti-link Ecosse Ref MD2 Harmonix HS-101DIG Insert Dataline 500 Insert Optic 2.1 Insert Dataline 700 Insert Ibate 5.1 kos 105 kos 106 Kimber Opti-link Kimber Opti-link Kimber Illuminati Dv-30 Kimber Illuminati Dv-50 Kimber Illuminati Or-50 Kimber Illuminati Or-61		40.00 50.00 26.00 27.50 71.50 240.00 24.95 29.95 39.95 44.95 25.00 30.00 70.00 750.00	Argento Copper Argento Copper Ref Argento Silver Argento Silver Ref Art Yam Church M2000 Aut Yam Church M2000 Audio Note AN-B Audio Note AN-B Audio Note AN-B Audio Note AN-SP Audio Note AN-SP Audio Note AN-SP Audio Note AN-SP Audioquest Type 2 Audioquest Siate Audioquest Bedrock Audioquest Gibraltar	***************************************	35.00 65.00 125.00 380.00 470.00 450.00 450.00 3.00 15.00 450.00 450.00 450.00

# psear audio

Shahinian

## **Dynavector**

## **Well Tempered**

Audio Note Soara

Audio Note IO1V

MC MC

XI O CDA 16/4

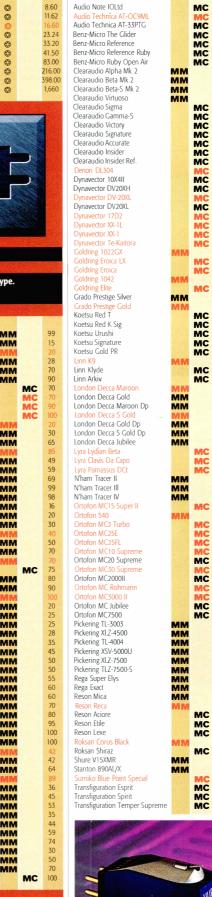


Let our experts help with your hi-fi problems. Send your query to 'Help' at the usual address.

Cable Talk Talk 3.1			2.50
Cable Talk Flat 1 Biwire	•		4.00
Cable Talk Talk 4.1	<b>6</b>		4.50
Cable Talk Talk 3.1 Biwire	•		5.00
Cable Talk Flat 2	0		5.00
Cable Talk Concert 2.1	•		8.00
Cable Talk Talk 4.1 Biwire	•		9.00
Cable Talk Flat 2 Biwire	<b>③</b>		10.00
Cable Talk Symphony 3	<b>②</b>		14.00
Cable Talk Concert 2.1 Biwire	<b>③</b>		16.00
Cardas Audio 300B-Microtwin S	<b>©</b>		35.00
Cardas Audio Quadlink-Five SC	•		59.00
Cardas Audio Cross SC	•		99.00
Cardas Audio Hexlink-Five SC	•		109.00
Cardas Audio Hexlink Golden5 S			175.00
Cardas Audio Golden Cross SC	•		789.00
ChordCo Carnival	•		3.00
ChordCo Myth			6.00
ChordCo Legend			15.00
ChordCo Odyssey	•		17.00
DNM-Reson LSC			6.95
DNM-Reson LSCB			13.95
Ecosse Ref FS2.16	•		1.75
Ecosse Ref CS2.2	0		2.50
Ecosse Ref CS2.3 Ecosse Ref CS2.15	•		3.75 5.75
Ecosse Ref MS2.2	•	•	15.00
Ecosse Ref MS2.3	•		20.00
Ecosse Ref MS2.15	©		30.00
Ecosse Ref US2	•		450.00
Electrofluidics Monolith 2020			45.00
Gale XL105	<b>③</b>		1.00
Gale XL189	0		1.00
Gale XL315	0		2.00
Gale XL160-2	6		2.50
Gale XL315-2	0		3.99
Gamma Wonder Line	•		99.00
Goertz M1			16.00
Goertz M2			32.00
Goertz Big Boy		•	64.00
Harmonix Harmonic-Strings			30.00
Harmonix HS-101T-1			56.00
Harmonix HS-101SC			88.00
lxos 607	<b>③</b>		2.00
lxos 6004	•		3.00
lxos Gamma 6003	<b>**</b>		3.00
lxos 605	•		3.00
Ixos Gamma 6006	0		5.00
Kimber 4PR	0		5.00
Kimber 4VS	•		9.00
Kimber 4TC Kimber 8TC	•		32.70
Kimber 4AG	•		394.00
Kimber 8AG	•		656.00
LAT International SS 800	•		16.00
LAT International BIWIRE	•		23.00
LAT International SS 1000	•		36.00
Lieder Pad	•		133.00
Lieder Bel Canto	•		188.00
Lieder Spoor			253.00
Lieder Straat	<b>③</b>		463.00
Lieder Weg	•		663.00
Linn K20	0		4.00
Linn K400	•		10.00
Linn K600	<b>③</b>		15.00
Lumley Silver 12/2			35.00
Lumley Silver 14/4	•		40.00
Monster XP Clear			2.20
Monster XP Navajo			2.40
Monster Superflat Mini	•		2.75
Monster XP HP	<b>③</b>		3.70
Monster Original Monster New Monster	•		4.40 5.50
Naim NAC A5			5.70
Nordost Octava	•		3.00
Nordost 4-Flat			9.95
Nordost Solar Wind Bi-wire	•	•	27.95
Nordost Blue Heaven Spkr	•		58.95
Nordost Red Dawn	•		110.00
Nordost SPM	•		325.00
Ortofon SPK100	0		3.00
Ortofon SPK200			5.00
Ortofon SPK300	0		8.00
PHY-HP Speaker		•	40.00
Precious Metals SL32	<b>3</b>		7.50
Precious Metals SL102	0		10.00
Precious Metals SL34	•		15.00
Precious Metals SL104	0		20.00
Precious Metals SL106	<b>3</b>		30.00

Desfined Chardley I Coppo			4.00
Profigold Silverflex LC8258 Prowire Out of Sight	•		4.00
Puresonic OFC 7892	<b>③</b>		1.20
Puresonic OFC 7844	0		1.65
Puresonic OFC 7845	•		1.95
Puresonic OFC 7891	0		2.85
Puresonic OFC 7816	0		3.75
Puresonic OFC 7832 Puresonic OFC 7812	0		3.75 3.75
Puresonic OFC 7825	0		6.95
Puresonic PSOCC 7801	0		9.50
Puresonic PSOCC 7802	©		18.00
Puresonic PSOCC 7803	0		27.00
QED QED Micro	0		1.50
QED QED Micro Bi-wire	0		3.00
QED QED Mk II Bi-wire QED QED Silver Anniv.	0		4.85
QED Profile 4x4	<b>6</b>		5.00 9.00
QED Profile Silver 12	<b>③</b>		15.00
QED Genesis S'r Spiral	0		30.00
QED G's S'r Spiral B/W	0		60.00
Rega Speaker	0		1.58
Rega SC42	0		19.98
Roksan HDC-01S	0		6.00
Shinpy Red Star 2 Shinpy Black Star 2	<b>(1)</b>		235.00 375.00
Shinpy Pulsar 2	©		625.00
Shinpy Quasar 2			1,245
Shinpy Big Bang 2	<b>③</b>		4,250
Siltech LS2-45	0		109.00
Siltech FT-12 Mkl	0		240.00
Siltech LS4-120	0		549.00
Silver Sounds 12 Gauge	<b>(3)</b>		15.00 35.00
Silver Sounds 10 Gauge Silver Sounds 8 Gauge	0		75.00
Silver Tone Silver-Sonic	<b>(3)</b>		10.00
Silver Tone Silver-Sonic HC	0		15.00
Silver Tone Silver-Voice	0		55.00
Silver Tone Silver-Voice Ultra	<b>③</b>		85.00
SonicLink AST60	0		2.50
SonicLink AST75	0		2.95
SonicLink AST200 SonicLink AST200x2	<b>(1)</b>		5.95 9.95
SonicLink S300	<b>⊕</b>		18.00
SonicLink S130x2	•		20.00
SonicLink S300x2	<b>③</b>		40.00
SonicLink S900	<b>③</b>		60.00
SonicLink S600x2	0		80.00
SonicLink Black Rhodium 4	<b>③</b>		1,000
Straight Wire Duo Straight Wire Rhythm	<b>6</b>		3.00 6.00
Straight Wire Quartet	•		8.00
Supra Classic 2.5	•		2.49
Supra Linc 2.5 Flex	<b>③</b>		3.49
Supra Classic 4.0	<b>③</b>		3.95
Supra Rondo 4x2.5	0		4.95
Supra Classic 6	0		4.95
Supra Ply 2.0 Supra Linc 4.0 Flex	<b>3</b>		4.95
Supra Ply 3.4	0		6.95
Supra Ply 3.4/S	•		7.95
Supra Quattro 4x4	<b>③</b>		8.95
Taperwire 418		•	7.00
Taperwire 212		•	16.00
Tara Klara Tara Prism 2+2	<b>3</b>		7.95
Tara Prism Nexa	•		9.95
Tara Prism Bi-Wire	•		18.00
Tara RSC Prime 500			36.00
Tara RSC Prime 1000		•	73.00
Tara RSC Ref Gen/2		•	118.00
Tara RSC Prime 1800 Tara RSC Digital 75		•	150.00 230.00
Tara RSC Air 2		•	291.00
Tara RSC Air 1		•	466.00
Tara ISM The Two		•	708.00
Tara ISM The One		•	941.00
TCI Python	0		7.99
Tech + Link SPC 79 Townshend Isolda	0		1.20 50.00
Transparent Cable Musichord	0		11.00
Transparent Cable The Wave	<b>©</b>		23.00
Transparent Cable Music Wave	<b>③</b>		25.00
Vampire Wire SC-384	<b>③</b>		11.00
Vampire Wire SC-554		-	15.00
Vampire Wire ST-I Vampire Wire SC-1108	6	•	30.00
Vampire Wire ST-II	•	•	48.00
Vampire Wire ST-III		•	73.00
van den Hul Skyline HB	0	15	3.99
van den Hul Snowline	<b>③</b>		5.49
van den Hul Cleanvater	<b>©</b>		5.99 7.99
van den Hul Clearwater van den Hul Snowtrack	<b>(1)</b>		10.99
van den Hul Royal Jade	•		10.99
van den Hul CS122 HB	0		13,49
van den Hul Cleartrack	•		14.99
van den Hul D352 HB	0		21.00
van den Hul Teatrack HB	0		23.99
van den Hul SCS12	0		36.00 40.00
van den Hul Magnum HB van den Hul The Wind HB	•		44.00
van den Hul Revolution HB	0		80.00
van den Hul Revelation HB	0		120.00
van den Hul The Third	0		1,000
XLO CDA 16/2 XLO CDA ER-14 THX	<b>③</b>		4.45 5.81

XLO CDA ER-11 THX XLO Pro 600 XLO CDA ER-12 THX XLO Pro 1200 XLO Ultra 6 XLO Ultra 12 XLO Ref 2 XLO Sig 5.1 XLO Limited Ed'n	9	11.6. 16.6 23.2 33.2 41.5 83.0 216.0 398.0 1,66
CARTRIDGES KEY MM - Moving-mag MC - Moving-coil to	net type.	
UP TO £100		
Audio Technica AT-91 Audio Technica AT-95 Audio Technica AT-10E Audio Technica AT-110E Audio Technica AT-140ML Benz-Micro MC20EII Denon DL110 Denon DL101 Denon DL103 Coldring Elan Coldring 1012GX Grado Prestige Black Grado Prestige Black Grado Prestige Blue Ordon OM 3E Ortofon OM 5E Ortofon OM 5E Ortofon OM 5D Ortofon S10 Ortofon S10 Ortofon S10 Ortofon OM 20 Ortofon S20 Ortofon MC1 Turbo Ortofon Concorde DJ Ortofon OM 30 Ortofon S30 Pickering TE-15 Pickering VE-15 Pickering TE-15 Pickering TL-2E Pickering XV15-150-DJ Pickerin	MM	70 90 100 20 30 65 85 49 59 69 99 98 16 20 30 40
Stanton 500AL II Stanton 500EL Stanton 680AL/X Stanton 680EL/X	MM MM MM	35 44 59 74
Sumiko Oyster Sumiko Black Pearl Sumiko Pearl	MM MM MM	30 50 70
Sumiko Blue Point  OVER £100	MC	100
Allaerts MC1 Eco Allaerts MC1 B Allaerts MC1 B MkII Allaerts MC2 Finish Audio Note 102 Audio Note Soara	MC MC MC	1,29



4,500

489 600

1,100

,600 135 190

250 295 590

810 960

1,540 2,515 5,165

6.810

189

299

1,359

1,899

2,999 5,498

1,000

359 379

439

519 999

310

660

450

800

2.000 145 150

175 200

200

485

,300

995

295 120

950

950 2,250



Precious Metals SI 108

#### C

van den Hul DDT-II van den Hul MC-One van den Hul MC-One van den Hul MC-ONE Super van den Hul MC-Two van den Hul MC-Two van den Hul The Frog Low o/p van den Hul The Frog HO van den Hul Grasshopper IIISLN van den Hul Grasshopper IIISLN van den Hul White Beauty S-X van den Hul White Beauty HO van den Hul Grasshopper IIIGLN van den Hul Grasshopper IIIGLN van den Hul Grasshopper IIIIGLN van den Hul Grasshopper IIIGLN van den Hul Grasshopper IIIGLN van den Hul Grasshopper IIIGHN van den Hul Black Beauty Wilson Benesch Matrix Wilson Benesch Matrix Wilson Benesch Analog Wilson Benesch Carbon		MC M	600 750 900 1,050 1,200 1,500 2,000 2,500 2,800 2,800 2,800 3,000 3,000 786 1,572 1,573
	(F-	3	



#### **CASSETTE DECKS**

- Autoreverse - no need to remove and turn around the tape. 3-H - 3 heads, i.e. separate record and replay heads.

Ariston WX-510			70
Denon DRM-555			150
Denon DRW-585			200
H/K DC520			200
JVC TD-X372BK			170
JVC TD-R472BK			200
Kenwood KX-W4080			160
Kenwood KX-3080			160
Kenwood KX-W6080			200
Kenwood KX-5080S			200
Marantz SD-455			170
Marantz SD-57			199
Onkvo K 185			200
Pioneer (T-S250			150
Pioneer CT-W205R			160
Pioneer CT-W505R			180
Pioneer CT-S450S	-		200
Pioneer CT-W606DR			200
Sony TC-WE435			130
Sony TC-KE230			130
Sony TC-WE635			150
			180
Sony TC-KB820S			1000000
Sony TC-WE835 Teac W-416			200
			100
Teac V-615			130
Teac RH-300			160
Teac W-790R Teac V-1050			170
		3-H	180
Teac RH-500 Technics RS-BX501			200
	3		170
Technics RS-TR373 Technics RS-TR474	-		180
	-		200
Technics RS-AZ6		3-H	200
Yamaha KX-393			130
Yamaha KX-W321			170
Yamaha KX-493			180

Idilidiid KA-493		100
OVER £200		
Denon DRM-740	3-H	270
H/K TD420		250
JVC TD-V662BK	3-H	270
JVC TD-W718BK		300
NAD 613		230
NAD 614		270
NAD 616	_	300
Nakamichi DR-10	3-H	800
Onkyo TA 6210		230
Onkyo TARW 211	<b></b>	270
Onkyo TARW 311	_	320
Onkyo TA 6310		330
Onkvo KR 609		350
Onkyo KW 606	<b>=</b>	370
Onkyo TARW 411	_	370
Onkyo K 611	3-H	460
Pioneer CT-S550S	3-H	250
Pioneer CT-W806DR	<u> </u>	300
Pioneer CT-S550S Precision	3-H	340
Pioneer CT-S830S	3-H	500

Pioneer CT-95
Rotel RC960BX
Sony TC-KA6ES
T+A CC1200R
Teac W-860R
Teac W-6000R
Teac V-6030S
Teac V-8030S
Technics RS-AZ7
Technics RS-TR575
Yamaha KX-580SE

	3-H	1,000
		250
	3-H	600
-	3-H	1,180
==		230
===		450
	3-H	550
	3-H	650
	3-H	270
==		280
		250



#### **CD PLAYERS**

**■>** - Multiplayer: can be loaded with more than one disc. 1010 - Electrical (coaxial) digital output. Many players also include an optical (Toslink) output.

 и.	ı	ă.	74	5U

OF 10 1250		3 VP-28 8	SISSESS
Ariston CDX700			50
Ariston CDX710			70
Ariston CDX720			80
Cambridge CD5			100
Cambridge D100			120
Cambridge CD4		1010	150
Cambridge CD4SE		1010	200
Cambridge D500		1010	200
Denon DCD-435		Щи	130
Denon DCD-655			180
Denon DCD-735			230
Eclipse CD101a			40
H/K FL8350	■►	1010	200
H/K HD720		1010	230
JVC XL-V120BK			110
JVC XL-V130BK			120
JVC XL-V230BK			140
JVC XL-F116BK	■►		180
JVC XL-F216BK	■>		200
JVC XL-Z574BK			250
Kenwood DP-1080			110
Kenwood DP-2080			130
Kenwood DP-R3090	■ ▶		140
Kenwood DP-R4090	■.		160
Kenwood DP-3080			170
Kenwood DPF-3010			180
Kenwood DP-R6090	=→		200
Kenwood DP-4090		1010	250
Marantz CD-38			130
Marantz CD5000		1010	150
Marantz CC-38		Щи	200
Marantz CD-48		1010	200
Marantz CD-57		1010	230
Marantz CD-67II NAD C520		1010	250 170
NAD 522		1010	170
NAD 510			200
NAD 510		ETGLEO	250
NAD 523		1010	250
		Fiche	
NAD 512		1010	250
Onkyo DX-7222			170
Pioneer PD-106			130
Pioneer PD-206			150
Pioneer PD-S507	All		190
Pioneer PD-F606	<b>=</b>		200
Pioneer PD-M603	■		200
Pioneer PD-F706	■		250
Sansui CD220			120
Sherwood CD-4030R			180
Sherwood CDC680	■	1010	180
Sherwood CDC6050R	■	1010	180
Sony CDP-XE220			90
Sony CDP-XE330			100
Sony CDP-M305			120
Sony CDP-XE530			130
Sony CDP-CE335	■		160
Sony CDP-XB720E		1010	200
Sony CDP-CX57	■		250
Synergy CDJ1210			120
Teac CDP-1120			100
Teac CD-P1820			130
Teac CD-P1440			200
Teac CD-P3450SE			200
Teac PD-D2400	■>		200
Teac PD-H500i		1010	240
Technics SL-PG390A		1010	90

Technics SL-PG490A		<b>10</b> 10	100
Technics SL-PG590A		1010	120
Technics SL-PD6	■>	1010	140
Technics SL-PD8	■>	1010	160
Technics SL-PS670D		1010	200
Technics SL-PS770D		1010	250
Yamaha CDX-396		1010	130
Yamaha CDC-575	■ >	1010	180
Yamaha CDX-496		1010	180
Yamaha CDC-675	■ >	<b>10</b> 10	230
Yamaha CDX-596		1010	230

#### £251 TO £500

£251 IU £500	ann.		
Arcam Alpha MCD	■>	1010	330
Arcam Alpha 7 SE		1010	350
Arcam Alpha 8SE		1010	500
Cambridge CD6		1010	300
Cyrus dAD1.5		1010	400
Denon DCD-835		1010	280
Denon DCM-260	■		300
Denon DCD-1550AR		1010	350
H/K HD740		1010	300
H/K FL8550	■	1010	300
H/K HD760		1010	500
JVC XL-Z674BK Kenwood DP-R7080		1010	300
Kenwood DP-9090	■ •	100 10 m 10	300
Kenwood DP-5090		1010	300
Kenwood DP-7090		1010	400
Marantz CD-67SE Mkll		1010	300
Marantz CD6000 OSE		1010	300
Marantz CC-870	■>	1010	400
Marantz CD-63IIKI		1010	400
Musical Fidelity E60		1010	300
Musical Fidelity A2 CD		1010	500
Musical Fidelity E624		1010	500
Myryad T-10		1010	400
NAD 513	■>		290
NAD C540		1010	329
NAD 515	■	1010	350
NAD 514 NAD 517	=	1010	370 400
Nakamichi MB10		III)10	399
Onkyo DX 7210		1010	260
Onkyo C721		1010	290
Onkyo DXC 320	■>		380
Onkyo DX 7510		1010	400
Onkyo CM 716	■		450
Parasound C/DP-1000		1010	499
Philips DVD750	=>	1010	400
Pioneer PD-S707		1010	300
Pioneer PD-F805	■	100	300
Pioneer PD-S705		1010	300
Pioneer PD-F906			350
Pioneer PD-S904 Pioneer PD-S505 Precision		1010	400
Rega Planet		1010	475
Roksan Kandy		1010	475
Rotel RCD-951		1010	350
Rotel RCD-971		1010	450
Rotel RCC-955	■		500
Sony CDP-XB930E		1010	300
Sony CDP-CX350	■	Town	350
Sony CDP-XA20ES		1010	450
Sony CDP-X3000ES		1010	500
Sony CDP-CX260	■		500
Synergy CDJ2010	■		300
Technics SL-MC7	■>	<b>110</b>	300

E501 TO E1000		
Acurus ACD11	1010	899
Alchemist Nexus	1010	600
Arcam Alpha 9	1010	800
Audio Analogue Paganini	1010	750
Audio Note CD1	1010	599
Audio Note AN-CD2	1010	999
Audiomeca Obsession	1010	999
AVI S2000MC 24 Ref	1010	999
Creek CD43	1010	599
Cyrus dAD3		600
Cyrus dAD3 Q24		900
Denon DCD-1650AR	10 10	700
DPA Renaissance int CD	1010	950
Helios Model 3	1010	700
Helios Model 2	1010	950
Linn Mimik	1010	875
Linn Genki		995
Magnum CD2020	1010	595
Marantz CD-17	1010	800
Musical Fidelity X-RAY	1010	799
Musical Fidelity A3 CD	1010	800
Myryad Cameo	1010	580
Myryad T-20	1010	600
Myryad MC100	1010	800
Pioneer PDS-06	1010	550
Quad 99		650
R-20 D20	1010	700
Roksan Caspian	1010	895
Rotel RCD-991	1010	750
Sony CDP-XA555ES	<b>11</b> 0	1,00
Sugden Audition		649
Talk Electronics Thunder 1		550
Talk Electronics Thunder 2		700
Talk Electronics Thunder 3		1,00

Teac VRDS-8

Teac VRDS-9

Teac VRDS-25X Trichord Genesis Trichord Digital Jukebox 25 Trichord Digital Jukebox 50 Trichord Digital Jubeox 100 Trichord Revelation YBA Complete YBA Special	1010 1010 1010 1010 1010 1010	1,000 569 619 669 719 819 649 695
---	--	--

#### 01

		WAS THE REAL PROPERTY.	
OVER £1000			
Acoustic Precision Eikos		1010	1,850
Advantage CD15		<b>111</b> 10	3,995
Alchemist Kraken CD Alchemist Forseti Int.			1,249
Alchemist Forseti		1010	1,995
Arcam FMJ CD23		1010	1,100
Audio Analogue Maestro		1010	1,100
Audio Research CD2		1010	3,399
Audiomeca Keops		1010	1,500
Audiomeca Talisman		1010	2,150
Audiomeca Talisman SE		1010	2,300
Balanced VK-D5		1010	3,995
Cary CD-301		1010	2,350
Classe CDP3		1010	1,395
Conrad-Johnson DF-2			1,695
Conrad-Johnson DV-2b			2,495
Copland CDA-266		1010	1,199
Copland CDA277		<b>110</b>	1,649
Copland CDA289		1010	1,898
Copland CDA288 Cymbol CDP12		1010	1,999
		1010	1,280
Densen B-400 Exposure CD Player		1010	1,050
Helios Model 1		1010 1010	1,250
Helios Stargate		1010	2,250
Jadis Orchestra		1010	1,345
Krell KAV250cd		1010	2,490
Krell KAV300cd		1010	3,599
Krell KPS25s		1010	19,995
Linn Ikemi			1,950
Linn Sondek CD12		1010	12,000
Marantz CD-17KIS		1010	1,100
Marantz CD-7		1010	3,500
Levinson 39		1010	4,995
McIntosh MCD7009		1010	3,699
Meracus Tanto		1010	1,395
Meracus Imago Player		1010	4,495
Meridian 506 Meridian 508		1010	1,100
Myryad MCD500		1010	1,995
NAD S500		1010	1,100
Naim CD3.5		1010	1,050
Naim CDX			2,200
Naim NACDSII/XPS			5.625
Oracle CD Player		1010	9,499
		1010	1,049
Pink Triangle Numeral Pink Triangle Litaural		1010	2,200
Proceed CDP		1010	3,395
R-20 D302		1010	1,500
Resolution CD50		1010	2,995
Roksan Attessa-DP3P		1010	1,495
Shearne Phase 7		1010	1,499
Sherwood CD1		1010	1,100
Sonic Frontiers Anthem CD1	₽	1010	1,699
Sonic Frontiers SFCD-1		1010	3,799
Sony SCD-1 T+A CD1210R		1010	2,700
T+A CD1210R T+A CD1220R		1010	1,185
TAG McLaren CD20R		1010	1,540
Theta Miles SE		1010	2,390
Tube Tech Fusion		1010 1010	1,350
Tube Tech Fulcrum		1010	1,850
Wadia 860x		1010	7,495
XTC CDP-1		1010	1,350
YBA Integre a		1010	1,095
YBA CD3a		1010	1,850
YBA CD2a		1010	2,950
YBA CD1a		1010	3,895



#### **CD TRANSPORTS**

1010 - Electrical (coaxial) digital output. Many players also include an optical (Toslink) output.

Alchemist Forseti Drive Altis CDT III



Audiomeca Damnation SE Audiomeca Talisman DOB Conrad-Johnson DR-1 DPA Enlightenment Drv Jadis JD3 Jadis JD1 Linn Kank Levinson 37 Levinson 37 Levinson 31.5 Illin 3,99 Muse Model S Oracle CD Drive Pink Triangle Cardinal II Rega Jupiter Rega Jupite
--





#### **DIGITAL RECORDERS**

MD - MiniDisc **DAT** - Digital Audio Tape

DIGITAL TO AN	ALC	CHE
		C
DIGITAL TO AN CONVERTERS (	DAC	.5)
KEY	大 电池	<b>多用的表表的激励</b>
Control of the Contro		
4 – Number of digital i	inputs.	
Alchemist TS-D-1		300
Alchemist Forseti DAC	0	1,100
Altis Reference	6	4,995
Audio Note DAC Zero	•	369
Audio Note DAC1		675
Audio Note DAC2		1.099
Audio Note DAC3		1,750
Audio Research DAC5	0	2,335
Audio Research DAC3 MkII	0	3,999
Audio Synthesis DAX Decade	6	2,995
Audiolabor 531	0	7.550
Audiomeca Flixir	ŏ	7,550
Audiomeca Ambrosia	· ·	1,850
Boulder 2020	6	21.000
	G	2,695
Cary CD-303		2,040
Chord DSC900E Chord DSC1100F	_	2,040
	0	
Chord DSC1500E	0	4,895
Conrad-Johnson D/A-3	0	1,195
Conrad-Johnson D/A-2b		1,990
dCS Elgar	0	8,500
DPA Little Bit 3	0	325
DPA Renaissance DAC		595
DPA Enlightenment DAC		850
DPA SX128		2,000
DPA SX256		4,000
DPA SX512		8,000
Harmonix Reimyo DAP-77		2,790
Jadis JS2		2,499
Jadis JS1	0	6,990
LFD DAC2		1,950
LFD DAC3		3,000
Linn Numerik		1,500
Levinson 360	0	4,395
Levinson 360S	0	6,895
Levinson 30.6		16,495
Meracus Auriga		1,295
Meracus Flagrare		2,495
Meridian 566		1,095

Denon DMD-1000 Denon DMD-1600AL MD Denon AMD	ACS	)	© − Portable				Sony MDR-V30 Sony MDR-IF1:
Sternwood DMF-9020   Signator Startor Starto	urte						Sony MDR-EX7
300   Kenwood DM-7090   MD   500   Technics F	uts.						Sony MDR-ED:
1,100		700					
4,995							
369							
1,750	6			MID			
1,099							
1,750		0.446,0.000					Vivanco IR580
€         2,335 3,999         Philips CDR775 Philips CDR570         1         AKG K301           €         2,995         Philips CDR570         1         AKG K301           €         2,995         Philips CDR5951         1         AKG K240           €         2,995         Philips CDR5951         1         AKG K242           €         Pioneer MI-D707         MID         199         AKG K242           €         1,850         Pioneer PDR-509         300         AKG K242           €         2,000         Pioneer PDR-555RW         480         AKG K333           €         2,004         Pioneer PDR-05         DAT         480         AKG K249           €         2,815         Pioneer PDR-05         DAT         480         AKG K240           €         4,895         Pioneer PDR-05         DAT         300         AKG K240           €         4,895         Pioneer PDR-05         DAT         300         AKG K240           €         4,895         Pioneer PDR-05         DAT         300         AKG K2020           €         1,195         Sharp MD-R3H         MD         300         Audio Tec           €         8,500         Sharp MD-R3H				MD		A SECTION OF SECTION	VIVALICO INSOO
Q   2,995   Philips CDR570   1   AKG K301     Q   7,550   Philips CDR571   1   AKG K301     Q   7,550   Philips CDR571   1   AKG K301     Q   7,550   Philips CDR571   1   AKG K301     Q   7,99   Pioneer PDR-509   300   AKG K401     Q   1,850   Pioneer PDR-709   399   AKG K501     Q   1,000   Pioneer PDR-709   399   AKG K501     Q   2,040   Pioneer PDR-04   700   AKG K331     Q   2,151   Pioneer PDR-05   1,000   AKG K303     Q   2,151   Pioneer PDR-05   1,000   AKG K303     Q   4,895   Pioneer PDR-05   1,000   AKG K404     Q   3,155   Sharp MD-R1 MkII   MID   300   Audio Tec Au	_						OVER £41
G 2,995 Philips CDR951						S000000000	
Property							
Pioneer PDR-509   Pioneer PDR-509   Pioneer PDR-509   AKG KS01				MD			
1,850				WID			
21,000	u						
2,695	_						
2,040 Pioneer D-05 Pioneer D-0	G						
Q				DAT			
A,895	0			DAI			
1,195				DAT	000 N		Audio Technic
1,990   Sharp MD-R3H   MID   300   Audio Tec					010		Audio Technic
8,500 Sharp MD-R2 MD 8300 Audio Tec Seyer DT3 Sp5 Sharp MD-MS200H MD 830 350 Beyer DT4 Sp5 Sharp MD-MS200H MD 1,000 MD 1 Beyer DT4 Sp6	U						Audio Technic
325 Sharp MD-MS200H MD	0						Audio Technic
Sp5					രൂത	A Charles of the	Beyer DT331
850   Sony MZ-R55   MD   &	•				0.00		Beyer DT431
2,000 Sony MDS-S40 MD 1 Beyer DTS 8,000 Sony MZ-R37 MD 20 1 Beyer DTS 8,000 Sony MZ-R55T MD 20 1 Beyer DTS 2,790 Sony MDS-J8530 MD 200 Beyer DTS 2,499 Sony MDS-J8930 MD 300 Denon AH 1,950 Sony MDS-JA20ES MD 500 Denon AH 1,950 Teac MDH300 MD 300 Grado SR 6,895 Teac MD-8 MD 600 Grado SR 6,895 Teac MD-10 MD 900 Grado SR 16,495 Teac MD-10 MD 900 Grado SR 1,295 Teach MD-10 MD					rafta		Beyer DT433/8
4,000 Sony MZ-R37 MD			1 /		CALLERY		Beyer DT531
8,000   Sony MZ-RSST   MD   200   Beyer DTI   2499   Sony MDS-JB330   MD   300   Denon AH   200   Denon AH					(a)		Beyer DT831
2,790   Sony MDS-JE530   MD   200   Beyer DTS   2,499   Sony MDS-JB930   MD   300   Denon AH   1,950   Sony MDS-JA55ES   MD   500   Denon AH   1,950   Sony MDS-JA55ES   MD   650   Denon AH   1,950   Teac MD-H500   MD   300   Grado SR   3,000   Teac MD-H500   MD   350   Grado SR   6   4,395   Teac MD-8   MD   600   Grado SR   6   6,895   Teac MD-5   MD   600   Grado SR   16,495   Teac MD-10   MD   900   Grado SR   12,295   Taxadata Traxaudio 900   Taxada Traxaudio 900   2,495   Yamaha MDX-595   MD   230   Grado RS							Beyer DT100
2,499 Sony MDS-JB930 MD 300 Denon AH 6,990 Sony MDS-JAZOES MD 500 Denon AH 1,950 Sony MDS-JAZOES MD 500 Denon AH 1,950 Sony MDS-JAZOES MD 650 3,000 Teac MDH300 MD 300 Grado SR 7 Teac MD-H500i MD 350 Grado SR 6 4,395 Teac MD-B MD 600 Grado SR 6,895 Teac MD-10 MD 600 Grado SR 16,495 Teac MD-10 MD 900 Grado SR 1,295 Teac MD-10 MD 900 Grado SR 1,295 Taxadata Traxaudio 900 2,495 Yamaha MDX-595 MD 230 Grado RS 7 Grado RS					10=0		Beyer DT931
6,990   Sony MDS-JA20ES   MID   500   Denon AH							Denon AH-D2
1,950   Sony MDS-JA555ES   MID   650   Denon AB     3,000   Teac MDH500  MID   300   Grado SR     1,500   Teac MD-H500  MID   350   Grado SR     4,395   Teac MD-8   MID   600   Grado SR     6,895   Teac MD-5   MID   600   Grado SR     16,495   Teac MD-10   MID   900   Grado SR     1,295   Teach AB   Teac MD-10   MID   399   Grado SR     2,495   Yamaha MDX-595   MID   230   Grado RSI     1,950   Grado RSI   Grado RSI   Grado RSI     1,950   Teach MD-10   MID   399   Grado RSI     1,950   Grado RSI   Grado RSI   Grado RSI   Grado RSI     1,950   Grado RSI   Grado	0					500	Denon AH-D6
3,000   Teac MDH300   MD   300   Grado SR	_					650	Denon AH-D7
Teac MD-H500i   MD   350   Grado SRI			Teac MDH300			300	Grado SR60
3     4,395     Teac MD-8     MD     600     Grado SR       6     6,895     Teac MD-5     MD     600     Grado SR       16,495     Teac MD-10     MD     900     Grado SR       1,295     Traxdata Traxaudio 900     399     Grado RS       2,495     Yamaha MDX-595     MD     230     Grado RS			Teac MD-H500i			350	Grado SR80
6 6,895 Teac MD-5 MD 600 Grado SR 16,495 Teac MD-10 MD 900 Grado SR 1,295 Taxadata Traxaudio 900 399 Grado RSI 2,495 Yamaha MDX-595 MD 230 Grado RSI	0	4,395	Teac MD-8			600	Grado SR125
16,495         Teac MD-10         MD         900 - Grado SR3           1,295         Traxdata Traxaudio 900         399 Grado RS2           2,495         Yamaha MDX-595         MD         230 Grado RS1			Teac MD-5			600	Grado SR225
1,295         Traxdata Traxaudio 900         399         Grado RS2           2,495         Yamaha MDX-595         MD         230         Grado RS1			Teac MD-10			900 -	Grado SR325
2,495 Yamaha MDX-595 MD 230 Grado RS1			Traxdata Traxaudio 900			399	Grado RS2
			Yamaha MDX-595	MD		230	Grado RS1
		1,095	Yamaha CDR-S1000			400	Hama SL276



#### **HEADPHONES**

'D' – Dynamic type, compatible with virtually all normal headphone outputs.  ${}^{\prime}\text{E}^{\prime}$  – Electrostatic type; generally includes a separate power supply. Open-back construction. - Closed-back construction.

	DESCRIPTION OF THE PARTY OF THE		
UP TO £40			
AKG Rox	D		30
Aural Envelope DX200	D		20
Aural Envelope DX220	D		30
Beyer DT131	D	40	29
Beyer DT131TV	D	40	32
Beyer DT75	D	40	34
Beyer DT231	D		40
Hama SL273	D		20
Hama SL275	D	101	25
JVC HA-CD88	D	*	18
JVC HA-D525	D	(4)	20
JVC HA-F65	D	101	20
JVC HA-D626	D	101	25
Kenwood KPM-310	D	8	18
Kenwood KPM-410	D		25
Maxell HP-2000	D	181	20
Pioneer SE-A40	D	181	20
Pioneer SE-A20V	D	40	23
Pioneer SE-M250	D	(8)	25
Pioneer SE-M350	D	101	30
Sennheiser HD56	D	40	18
Sennheiser HD433	D	40	20
Sennheiser HD400	D	40	25
Sennheiser HD470	D	40	35
Sennheiser HD60TV	D	40	40
Sony MDR-250V	D		18
Sony MDR-A34L	D	40	18
Sony MDR-ED228LP	D	40	18
Sony MDR-G52LP	D	40	20
Sony MDR-E848LP/MP	D	υD	20
Sony MDR-ED238ML	D	40	22
Sony MDR-G56V	D	*	25
Sony MDR-G62LP	D	*	25
Sony MDR-G59G	D	40	30
Sony MDR-G72LP	D	DD.	30
Sony MDR-V300	D	IA.	30
Sony MDR-IF130K	D	40	30
Sony MDR-EX70LP	D		35
Sony MDR-ED268LP	D	40	35
Stanton ST Pro	D	10'	25
Technics RP-F200	D	(4)	25
Technics RP-F400	D	•	30
Technics RP-F500	D	101	40
Vivanco SR250	D	ial	20
Vivanco FMH 3000	D	101	30
Viscones IDE000	6	200	537

Vivanco IR5800	D	*	30
OVER £41			
AKG K301	D	40	70
AKG K240DF	D	40	100
AKG K222IR	D	10'	100
AKG K401	D	20	120
AKG K501	D	40	150
AKG K333IR	D	IAI	150
AKG K444IR	D		180
AKG K290S	D		250
AKG K1000	D		700
Audio Technica ATH910PRO	D		80
Audio Technica ATHD40FS	D		100
Audio Technica ATH-M40	D		120
Audio Technica ATH911	D	40	120
Beyer DT331	D	*	70
Beyer DT431	D	*	80
Beyer DT433/863	D		100
Beyer DT531	D	*	110
Beyer DT831	D	40	135
Beyer DT100	D	•	160
Beyer DT931	D	40	180
Denon AH-D210	D		45
Denon AH-D650 Denon AH-D750	D		95 130
Grado SR60	D		79
Grado SR80	D D	40	100
Grado SR125	D	40	150
Grado SR225	D	40	200
Grado SR325	D	40	300
Grado RS2	D	40	495
Grado RS1	D	40	695
Hama SL276	D	IAI	50
Figilia SE270	U		30

Hama IR Cordless Jecklin Float Model 1 Jecklin Float Model 2 IVC HA-D727 JVC HA-D50 JVC HA-W60 IVC HA-W200RF JVC HA-DX1 DDDD IVC HA-DX3 JVC HA-D1000 JVC HA-F25 Koss TD/80 Pioneer SE-M550 Pioneer SE-M750 Precide Ergo Model 1 D Sennheiser HD200 Sennheiser HD490 Sennheiser HD495 Sennheiser HD500 Sennheiser RS30 DDDD Sennheiser RS40 Sennheiser HD270 Sennheiser HD25 SP Sennheiser RS60 000000000 Sennheiser HD265 Linear Sennheiser HDC 451-1 Sennheiser HD250II Sennheiser HD25-13 Sennheiser HD590 Sennheiser RS80 Sennheiser HD25 Sennheiser HD 580 P'cision Sennheiser HD600 Sennheiser Orpheus Sony MDR-V500DJ Sony MDR-RF830RK Sony MDR-D77 Sony MDR-F1 Sony MDR-CD1700 Sony MDR-DS5000 Stanton DJ Pro 101/HB Stanton DJ Pro 1000 Stanton DJ Pro 1001 Stax SR-0001 Stax SR-Lambda Nova C Stax SR-Lambda Nova S Stax Omega Technics RP-F800 Technics RP-HC100 Vivanco SR850

60

43

200

250 250

699

50

60 120

50

60

70 80

80 90

120 •

125 130 150

200 250

50 60

130

400

65 95 150

450

,896 50 55

50

DDD

0000

9999

40 9,652

999 280 370

E E D D

E D D

D

DDDDDEE

DD 999 50



#### **EQUIPMENT SUPPORTS Hi-Fi Tables**

Vivanco FMH7980

Vivanco SR950

#### 4 - Number of shelves.

	550500	
Aavik Furniture A4	4	350
Alphason SM17	1	49
Alphason VSM17	1	85
Alphason GSM17	1	85
Alphason GMV1P	1	110
Alphason R17/17	3	120
Alphason GMH1P	1	150
Alphason VR17/17	3	190
Alphason GR17/17-AS	4	275
Apollo Soprano	4	275
Arcici Air Head 1	1	275
Arcici Air Head 2	1	425
Arcici Air Head TNT	1	725
Arcici Suspense 4	4	1,695
Arcici Suspense 5	5	1,895
Atacama Europa	4	240
Audiophile Base 01	1	79
Audiophile S4T120	4	280
Audiophile S4T120P	4	560
Audiophile Furniture Base	4	615
Avid Isoschelf	5	1,100

#### C E

BCD Model 1006/8 BCD Model 1000	1 3		795 1.250
Custom Design Aspect 650	4		250
Custom Design Aspect 850 Custom Design e'lite E5	5		280
Custom Design Aspect 500AV	3		290
Custom Design e'lite XE5 Custom Design e'lite AVE	5		300 350
Deadrock 701	8		60
Deadrock 802	2	27.5	90
Deadrock 703 Deadrock 705	3 5		130 230
Deadrock 704	4		250
Elemental Isotube X1 Elemental Isotube BS	1		169 199
Elemental Isotube TS	i		209
Elemental Isotube IS Elemental Reference B1	1		209 329
Elemental Isotube X2	1 2		379
Elemental Isotube X3	3		489
Elemental Reference BS Elemental Reference X1	1		499
Elemental Reference TS	i		549
Elemental Reference IS Elemental Reference X2	1	15%	549 799
Elemental Isotube X4	2 4		849
Elemental Isotube X4/Ref	4		1,199
Elemental Reference X3 Elemental Isotube X4Rse	3		1,199 1,349
Elemental Reference X4	4		1,599
Fi-Rax R4	6		399
Finite Elemente A03 pagode Finite Elemente E03 pagode	4		479 649
Finite Elemente HD03	4		1,995
Frameworks H175 Frameworks FS1	1		139
Frameworks H500	1 3		265
Frameworks FT2	2		285
Frameworks FT3 Frameworks H700	3		350 355
Frameworks H900	3		389
Impulse Iso-plate			190 80
JPW 3 Tier JPW 5 Tier	3 5		100
Linn K3000			85
Mana Sound Frame Mana Mini Table			125
Mana Power supply table			150
Mana Reference flat top Mana Sound Shelf			150 175
Mana Sound Stage			200
Mana Sound Table		235	235
Mana Ref Shelf  Mana Reference Table			325 350
Mana 2 Tier Stand			375
Mana 3 Tier Stand Mana 4 Tier Stand			450
Mana 5 Tier Stand			500 600
Mana 6 Tier Stand			700
Mana 7 Tier Stand Mana 8 Tier Stand	7 8		900
Mission Stance	٥		100
Optimum OPT 3406 Optimum G5	3		149
Optimum OPT 4906	5		180
Optimum G5P	6		200
Optimum OPT 3000 Optimum OPT 6606	5		200 249
Optimum OPT 340	3		249
Optimum AV200	2		270
Optimum OPT 5000 Optimum OPT 490	5		280
Optimum AV30	3		299
Optimum OPT 440 Optimum OPT 10206	4		299 299
Optimum OPT 660	4		349
Optimum AV 300	3		349
Optimum OPT 7000 Optimum OPT 1020	7		359 399
Optimum OPT 8000	8		400
Optimum OPT 1190 Optimum AV400	7		450 450
Projekt A3	4 3		145
Projekt A4	4		215
Projekt A5 Projekt B3	5		235 255
Projekt A6	6		280
Projekt B3i Projekt B4	6		300 340
Projekt B Multi	8		345
Projekt B3ii	7		345
Projekt C3 Projekt D3	9		375 420
Projekt C3i	8		420
Projekt B5 Projekt C3iii	10		425 465
Projekt C3ii	10		465
Projekt D3i	12	20,24	500
Projekt C4 Projekt C3iv	12	S 10.5	500 510
Projekt D3ii	14	100	545
Projekt C Multi Projekt D4	9	100	555 560
Quadraspire Q4S mini shelf	16		65
Quadraspire Q4S shelf	1		65
Quadraspire QKS Cabinet shelf Quadraspire QAV shelf	1		80 130
	DESCRIPTION OF THE PERSON OF T	2000	

* 1 1		-	
0 1 1 0 11 11 11			TV.
Quadraspire Q4M mini table Quadraspire Q4 table	4		250
Quadraspire Q4SP Table	4		320
Quadraspire QAV table	3		35
Quadraspire QAVSP Table	3		40
Quadraspire QK Cabinet	4		45
Reson DOMOPS	1		195
Reson DOMOWS	1		195
Roksan Glass stand	4		49!
Solid Steel Model B Solid Steel Model A	1		141
Solid Steel Series 3	1 4		220
Solid Steel Series 5	4		310
Solid Steel H.3	5		37
Solid Steel H.5	5		517
Sound Org Z540	4		140
Sound Org Z560	5		160
Sound Org Z545 Sound Org Z530	4		160
Soundstyle Radius SR210	3 2		200
Soundstyle X053	4		230
Soundstyle X100	4		240
Soundstyle Finewoods W100	4		24
Soundstyle X058	5		250
Soundstyle Radius SR310	3		250
Soundstyle Radius SR100	4		250
Soundstyle X310	3		260
Soundstyle X6053 Soundstyle X105	4		26
Soundstyle X6100	5		27
Soundstyle Radius SR105	5		280
Soundstyle X6058	5		290
Soundstyle Finewoods W105	5		29!
Soundstyle X6105	5		300
Soundstyle X6310	3		300
Soundstyle Finewoods W310 Standesign Design 4	3		360
Stands Unique Isolation Platform	1		55
Stands Unique Sound Support	4		260
Stands Unique Sound Tower	5		29
Stands Unique Compact Sound Sup	P4		329
Stands Unique Sound Support 10	4		329
Stands Unique Sound Twr Cabinet	5		38
Stands Unique Ref Wall Support	1		56
Stands Unique Ultimate Tower Stands Unique Ref Floor Support	10		720 840
Target B5	6		17!
Townshend Seismic Sink 1-CD			110
Townshend Seismic Sink 1-3D			400
Townshend S/Sink Stand 1-4	4		999
Townshend Seismic Sink Stand	4		1,24
Vibraplane Passive	1		1,89
Vibraplane Active	1		3,60
Wilson Benesch Standard Shelf Wilson Benesch Mono Block	1		26!
Wilson Benesch Asside Basic	4		59
Wilson Benesch Asside	4		720
Wilson Benesch Triptych	1		99
Mark to the state of the state			



## EQUIPMENT SUPPORTS Speaker Stands

Atacama SE24

#### 60 – Height of stand in cm.

J	1000000	
Acoustic Solutions Platform Eight	49	220
Aliante Base		425
Aliante Vela		750
Alphason NCI	60	47
Alphason Akros I	60	49
Alphason RS1	120	49
Alphason Akros II	60	65
Alphason NCII	60	84
Alphason HDS	60	85
Alphason Titan S	60	12!
Apollo Olympus	60	75
Apollo AZ6	66	80
Apollo A4/6	51	82
Atacama Nexus 6	60	50
Atacama BD21	56	55
Atacama BD17	CELLEN.	55
Atacama BD25		60
Atacama SE16		65
Atacama SE12		65
Atacama SX500		67
Atacama F2		70
Atacama F1		70
Atacama SX600		70

Atacama SE20		70
Atacama SX700		73
Atacama SL300		73
Atacama TP600		75
Atacama TP500		75
Atacama SE615		75
Atacama SE515		75
Atacama SE415		75
Atacama SL400		76
Atacama SE1000S		80
Atacama R724	60	15
AVF P6171BP	100	30
AVF Tower P6144BP	60	35
BCD Model 1010	60	59
Black Box Speaker Stand	100	79
Credo STD 001		28
Custom Design M Range	56	85
Custom Design R/S 300 Mk II	61	10
Custom Design Ref. stands	60	20
Deadrock 903	60	60
Deadrock 902	47	60
Deadrock 901	39	60
Elemental Reference SB1	8	39
Elemental Isotube SZ	49	49
Elemental Isotube SZse	61	59
Elemental Isotube SCZ	49	69
Elemental Isotube SCZse	49	79
Elemental Reference SZ	52	99
Elemental Reference SCZ		1,49
Heybrook Stand-S6	52 63	69
JPW MS2		45
JPW MS3	45 61	55
JPW MS1	46	80
JPW HS1		12
JPW HS2	61 45	12
Mana Sound Base		17
Opera WS1/E	60	23
Opera S1	60	29
Opera S2	60	34
Partington A-4		11
Partington Dreadnought Ultima	60	29
Pioneer CP-7	63	50
Pioneer CP-8		80
Projekt Signature	55	80
Royd Royd	55	99
Russ Andrews Torlyte	100	59
Silverado Silverado 1 Stand	60	35
Solid Steel SL	63	18
Solid Steel SS	63	33
Solid Steel SS801	25	36
Sonus Faber Ironwood	23	47
Sonus Faber Stonewood		49
Sonus Systems Excel	65	QC
Sound Org Z522	59	89
Soundstyle Finewoods W122	57	95
Soundstyle X122	(E020)	95
Soundstyle Select	57	Q
Soundstyle Radius S122	59	110
	57	16
Stands Unique Speaker support Stands Unique Tuned Spkr Support	59	23
Stands Unique Tuned Spkr Support		29
Stands Unique Vivas CF Spkr Supp	1000	34
Target TR60	60	68
	60	10
Target HM60	55	28
Target R1 Townshend Seismic Sink L/S	53	49
TOWNSHIELD SCISHIF SHIR LJ S	4	13



#### LOUDSPEAKERS

**Ⅎ** – Floorstander; larger models requiring no separate stand. 且 – Stand mount; smaller models designed to be raised above the floor. → Wall mount; designed to be sited on or near the wall. - Box type, including infinite baffle, reflex and transmission line types. □ – Horn type; mostly large and very efficient.

☐ - Panel type, including electrostatic

55 95 120 0 0 0

Mission 701 Mission 77C

and planar magnetic types. UP TO £130

Acoustic Energy Aegis Compact Allison Micro Monitors Allison Mini References

Gale 2i				
Ariston MSX 03  Ariston MSX 05  Edestion 12i  Denon SC-M2  Denon SC-M2  Denon SC-B13SE  Editax Liberty 1+  Eltax Monitor III Mk II  Gale Mini Monitors  Gale Mini Monitors  Gale Gold Monitors  Gale Cold Monitors  Gale Cold Monitors  Gale Cold Monitors  Gale Gold Monitors  Gale Cold Cold Cold Cold Cold Cold Cold Cold	ND Chatra C 10			170
Denon SC-M2 Denon SC-M2 Denon SC-M2 Denon SC-E313SE Denon SC-E		1		
Denon SC-M2 Denon SC-M2 Denon SC-M2 Denon SC-E313SE Denon SC-E		<u>=</u>	0	
Denon SC-M2 Denon SC-M2 Denon SC-M2 Denon SC-E313SE Denon SC-E	Ariston MSX 05	0	0	50
Denon SC-M2 Denon SC-M2 Denon SC-M2 Denon SC-E313SE Denon SC-E	Celestion 12i		0	119
Denon SC-E313SE  Elfax Liberty 1 +  Elfax Monitor III Mk II  Gale Mini Monitors  Gale Cold Cold Monitors  Gale Cold Monitors  Gale Cold Monitors  Gale Cold Monitors  Gale Cold Cold Monitors  Gale Cold Monitor  Gale				
Eltax Monitor III Mk II		-		
Eltax Monitor III Mk II				
Gale Cold Monitors         9         9         9           Jacke 2i         9         136         136           Jenexa GX300         9         80         80           Jenexa GX330         9         9         80           Jenexa GX330         9         9         90           JLL Imagio IC208         9         100         100           Interaudio XL1000         9         12         12           Jamo Artina         9         12         12           Jamo Cornet 145         9         12         13           BL CM40         9         9         90           BL CM70         9         90         90           BL CM71         9         90         90           BL Control 1X         9         13         10           PW ML310i         9         10         10           PW ML310i         9         10         10           PW ML310i         9         10         10           PW ML410i         9         10         10           VC SP-X50TBK         9         10         10           VC SP-X50TBK         9         10         10 <t< td=""><td></td><td>9</td><td></td><td></td></t<>		9		
Gale Cold Monitors         9         9         9           Jacke 2i         9         136         136           Jenexa GX300         9         80         80           Jenexa GX330         9         9         80           Jenexa GX330         9         9         90           JLL Imagio IC208         9         100         100           Interaudio XL1000         9         12         12           Jamo Artina         9         12         12           Jamo Cornet 145         9         12         13           BL CM40         9         9         90           BL CM70         9         90         90           BL CM71         9         90         90           BL Control 1X         9         13         10           PW ML310i         9         10         10           PW ML310i         9         10         10           PW ML310i         9         10         10           PW ML410i         9         10         10           VC SP-X50TBK         9         10         10           VC SP-X50TBK         9         10         10 <t< td=""><td></td><td>9</td><td>0</td><td></td></t<>		9	0	
Gale Cold Monitors         9         9         9           Jacke 2i         9         136         136           Jenexa GX300         9         80         80           Jenexa GX330         9         9         80           Jenexa GX330         9         9         90           JLL Imagio IC208         9         100         100           Interaudio XL1000         9         12         12           Jamo Artina         9         12         12           Jamo Cornet 145         9         12         13           BL CM40         9         9         90           BL CM70         9         90         90           BL CM71         9         90         90           BL Control 1X         9         13         10           PW ML310i         9         10         10           PW ML310i         9         10         10           PW ML310i         9         10         10           PW ML410i         9         10         10           VC SP-X50TBK         9         10         10           VC SP-X50TBK         9         10         10 <t< td=""><td>Gale Mini Monitors</td><td>9</td><td>0</td><td>70</td></t<>	Gale Mini Monitors	9	0	70
Genexa GX300	Gale Gold Monitors	0	0	90
Genexa GX300	Gale 2i	8	0	130
ZLL Arena       9       0       90         ZLL Imagio IC208       9       0       100         Interaudio XL1000       9       100       100         Jamo Artina       9       125       125         Jamo Cornet 145       9       125       125         Jamo Cornet 145       9       125       130         JBL CM40       9       0       90         JBL CM3300       9       0       90         JBL CM42       9       0       100         JBL CM42       9       0       100         JPW ML10i       9       0       100         JPW ML310i       9       0       100         JPW ML310i       9       0       130         VC SP-V250       9       0       130         VC SP-V250BK       9       0       130         VC SP-V250BK       9       0       120         VC SP-V250BK       9<		0	0	80
ZLL Arena       9       0       90         ZLL Imagio IC208       9       0       100         Interaudio XL1000       9       100       100         Jamo Artina       9       125       125         Jamo Cornet 145       9       125       125         Jamo Cornet 145       9       125       130         JBL CM40       9       0       90         JBL CM3300       9       0       90         JBL CM42       9       0       100         JBL CM42       9       0       100         JPW ML10i       9       0       100         JPW ML310i       9       0       100         JPW ML310i       9       0       130         VC SP-V250       9       0       130         VC SP-V250BK       9       0       130         VC SP-V250BK       9       0       120         VC SP-V250BK       9<		6		
GLL Imagio IC208       9       9       10       133         amo Artina       9       12       132         amo Artina       9       12       12         amo Cornet 145       9       133       133         BL CM40       9       9       9         BL M3300       9       9       90         BL M3300       9       10       100         BL Control 1X       9       10       100         BL CM42       9       10       100         PW ML110i       9       10       100         PW ML310i       9       10       100         PW ML410i       9       10       100         VC SP-X50rbK       9       10       80         VC SP-X50BK       9       10       80         VC SP-X50BK       9       13       13         KEF Coda 7       9       12       13         KEF Coda 7       9       13       13         VC SP-X50BK       9       13       13         VG SP-X50BK       9       13       13         VG SP-X50BK       9       13       13         VG SP-X50BK       <		B		
nteraudio XL1000 lamo Artina lamo Artina lamo Artina lamo 28 lamo Cornet 145 l				
Jamo Artina   Jamo Artina   Jamo Artina   Jamo Artina   Jamo 28		=		
Jamo 28       2       3       125         Jamo Cornet 145       2       3       136         BL CM40       2       3       90         BL MX300       2       3       90         BL Control 1X       2       3       100         BL CM42       3       100       100         BL CM42       4       3       133         PW ML110i       9       3       100         PW ML310i       9       100       100         PW ML310i       9       100       100         PW ML410i       9       100       100         VC SP-X50FBK       9       100       80         VC SP-X520TBK       9       100       80         VC SP-X550BK       9       100       133         KEF Coda 7       9       125       126         Kerwood LS-90UK       9       133       130         Wonitor Audio Bronze 1       9       133       130         Wonitor Audio Bronze 1       9       100       133         Wolabe Malium       2       120       100         Paradigm Micro v2       9       100       100         <		-		
amo Cornet 145 BL CM40 BL M3300 BL CM101 IX BL CM42 BL CM42 BL CM42 BL CM12 PW ML110i PW ML210i PW ML310i PW ML310i PW ML310i PW ML310i BL CM2 BL CM2 BL CM2 BL CM2 BL CM2 BL CM32 BL		0		120
amo Cornet 145 BL CM40 BL M3300 BL Control 1X BL CM42		1	0	125
BL CM40 BL CM40 BL M3300 BL Control 1X BL CM42	amo Cornet 145		0	130
BL MX300 BL Control 1X BL Cont		0		90
BL CM42 BL CM43 BL CM4		0		
BL CM42 BL CM43 BL CM4		-		
PW ML110i				
PPW ML210i PPW ML310i		-		
PAY ML310i PAY ML410i QC SX-SC1VBK QC SY-SC1VBK QC SY-SC1VBC QC SY-SC1		=		
PVM ML410i		9		
VC SS-SC1VBK		9		
VC SP-V50		0	0	130
VC SP-X220TBK VC SP-X220TBK VC SP-X550BK VC	VC SX-SC1VBK	0	0	60
VC SP-X220TBK VC SP-X220TBK VC SP-X550BK VC	VC SP-V50	0	o	80
NC SP-XS50BK				
CEF Coda 7			_	
Cemwood LS-90UK		*		
Mission 700  Monitor Audio Bronze 1  AND 801  Paradigm Micro v2  Paradigm Micro v2  Paradigm Atom v2  Policer CS-3030  Polk AB410  Realistic Minimus 26  Realistic Minimus 26  Realistic Minimus Pro-77		5		
Monitor Audio Bronze 1				
NAD 801  2				
Paradigm Micro v2				
Paradigm Atom v2     9     0     12C       Prioneer CS-3030     9     0     12C       Polic AB410     3     0     10C       Realistic Minimus 26     9     0     56       Realistic Minimus Pro-77     9     0     10C       Sony SS-86E     9     0     10C       Gangent Monitor 3     9     0     0       Gangent Monitor 5     9     0     10C       Fannoy Mercury M1     9     0     12C       Fannoy MR     9     0     13C       Foll Nucleus 1     9     0     13C       Foll Nucleus 2     9     0     13C       Foll Nucleus 3     9     0     13C       Foll Nucleus 2     9     0     13C       Foll Nucleus 3     0     0     13C       Foll Nucleus 2		9	0	100
Paradigm Atom v2     9     0     12C       Prioneer CS-3030     9     0     12C       Polic AB410     3     0     10C       Realistic Minimus 26     9     0     56       Realistic Minimus Pro-77     9     0     10C       Sony SS-86E     9     0     10C       Gangent Monitor 3     9     0     0       Gangent Monitor 5     9     0     10C       Fannoy Mercury M1     9     0     12C       Fannoy MR     9     0     13C       Foll Nucleus 1     9     0     13C       Foll Nucleus 2     9     0     13C       Foll Nucleus 3     9     0     13C       Foll Nucleus 2     9     0     13C       Foll Nucleus 3     0     0     13C       Foll Nucleus 2	Paradigm Micro v2	0	0	100
Pioneer CS-3030  Pionee	Paradigm Atom v2	0	0	120
Polk AB410 Realistic Minimus 26 Realistic Minimus 26 Realistic Minimus Pro-77 Realistic Realisti	Pioneer CS-3030		0	120
Realistic Minimus 26				
Realistic Minimus Pro-77     Q     0     100       Gony SS-86E     Q     0     100       Grangent Monitor 3     Q     0     60       Gangent Monitor 5     Q     0     80       Gannoy Mercury M1     Q     1     12       Gannoy mX1     Q     1     12       IDL Nucleus 1     Q     1     75       DL Nucleus 2     Q     0     13       Feec LS-X8 Mk II     Q     0     80       Technics SB-CS65     Q     0     100       W dale Valdus 100     Q     0     80       W dale Diamond 7.1     Q     0     100       W dale Valdus 200     Q     1     100				
Sony SS-86E				
N'dale Valdus 200		¥		
N'dale Valdus 200		보		
N'dale Valdus 200		=		
N'dale Valdus 200		9		
N'dale Valdus 200	Tannoy Mercury M1	9		120
N'dale Valdus 200	Tannoy mX1	0	0	120
N'dale Valdus 200		0		75
N'dale Valdus 200		9		130
N'dale Valdus 200		0		
N'dale Valdus 200		0		
N'dale Valdus 200		0		
N'dale Valdus 200		- D		
W dale Valuds 200 110 110		-		
vi udie iviodus Micro		H		
	N dale IVIODUS MICTO	=	0	110
			ILEXISANSII	1000

#### £131 TO £200

Acoustic Energy Aegis Centre 170 Allison Model 4A B&W DM302 Ser II B&W DM601 Ser II 200 149 149 169 Bose 201 IV 回回和回回有利回回回来回利利 Boston CR6 Boston 325 Boston Micro 80 Sat 169 179 189 Boston 335 199 200 Boston CR7 Boston Runabout II Celestion 15i Cerwin-Vega CT-165 199 Eltax Liberty 3+ 199 140 Eltax Liberty 5+ Genexa GX650 Genexa Pro GLL Imagio IC218 GLL Imagio IC318 140 200 150 Heybrook HB1/2000 Heybrook Heylette Heybrook HB2/2000 Interaudio XL2000 200 200 150 150 150 150 170 200 Jamo Cornet 165 Jamo 38 Jamo 525 Jamo 560 Jamo 660 Jamo D165 200 200 150 170 Jamo 68 Jamo 892 JBL CM52 JBL MX1000 200 IBI MX1500 JM Lab Tantal 505 JPW ML510i JPW ML610i KEF Cresta 2 KEF Coda 8 KEF Model 60S 199 KEF Q15.2 200 200 179 160 Kenwood LS-200G Magnat Vector 22

Mission 77DS Mission 77De Mission 771e Mission 702e Monitor Audio Bronze 2 Monitor Audio Monitor 1 Mordaunt-Short MS206 Paradigm Mini Monitor Pioneer CS-5030 Polk M2 Polk RT3 Polk AB610 Royd A7X Sequence 200 Sony SS-176EB Sony SS-176EB Tangent Monitor 9 Tangent Monitor 9 Tangent Monitor 11		199 200 200 180 200 200 200 170 180 200 200 155 199 150 200 150	TDL Nucleus 4 TLC Maestro 130S TLC Voyager 350 Wdale Modus Music Four Wdale Valdus 500 Yamaha NS-120 Yamaha NS-200 ZYP A1 ZYP A2S  £301 TO £500  Acoustic Energy AE105SE Acoustic Energy AE109 SE Acoustic Energy AE109 SE Acoustic Energy AE109 SE Alilson Model 2A	四世性性的 的现在性性的性性性	00000000	300 289 289 230 300 250 300 229 299 350 350 450 500 420	Polk RT10 Polk AB805 PMC TB15 Promenade SP2 Promenade SP3 Rega Alya Rega Jura Rega ELA Roksan ROKone 1 Royd The Squire Royd Minstrel SE Royd Doublet Ruark Icon Sequence 400 Sony SS-X7 S Coast Odette Spendor \$3/5		500 500 470 399 499 365 475 498 400 350 399 485 399 329 400 325 499	Mission 753f Monitor Audio Silver 7i Mus Tec Falcon Naim Intro Neat Mystique 2 Neat Petite II NHT Super Two Opera Seconda Opera Platea Opera Platea Origin Live Resolution Paradigm Studio/60 Paradigm Studio/80 Polk RT12 Polk RT16 Polk L550	1. 全体 四位 化 四位 化 四位 化 四位		798 600 680 680 575 745 550 595 695 795 732 650 750 600
Tannoy Mercury M2 Tannoy Saturn S6C Tannoy Revolution R1 TDL Nucleus 3 Technics SB-CS95 Technics SB-M20		200 200 200 150 200	Arcaydis Baby 2 Arcaydis ASC Audiovector C1 AVI Neutron AVI NuNeutron B&O Beovox CX50	7日日日日 日	0 0 0	399 399 350 499 500 325	System 1130 Tannoy Revolution R2 Tannoy Saturn S6LCR Tannoy Saturn S6 TDL G20 TDL Chiltern CF100		500 350 400 500 380 450	ProAc Tablette 2000 ProAc Studio 100 PMC TB1SM PMC TB1 PMC TB1M PMC XB1		0 0 0 0 0	649 749 517 529 576 640
TLC Maestro 70S Wdale Diamond 7.2 Ann'y Wdale Valdus 300 Wdale Modus Music Two Wdale Valdus 400 Yamaha NS-90		159 150 150 200 200 180	B&O Beovox CX100 B&W LCR6 B&W DM305 B&W CDM2SE Bandor Pictures Boston Micro 90 Sat	中田利田和	0	425 349 350 400 352 369	TDL G30 Technics SB-M300 Technics SB-M500 TLC Altus 300 Triangle Cometes W'dale Modus Music Six	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	500 350 450 366 359 330	Promenade SP4 Roksan Ojan 3 Royd The Sorcerer Royd Abbot Ruark Templar II	14年四十十二	0 0 0	650 795 595 695 559
Yamaha NS-45E Yamaha NS-100		200 200	Boston Micro 80 Sys Boston VR20 Castle Inversion 15 Celestion 25i Celestion 30i	· 生生 == 生生 ==	0 0 0 0	369 380 425 399 449	W'dale Modus Music Six W'dale Modus Music Eight W'dale Modus Music 1/6 Yamaha NS-300	취 하 하 하 이	430 500 400	Ruark Sceptre Ruark Talisman II Ruark Prologue One Shinpy Polarys Silverado Raider Snell K5	* 科林中岛區	0 0 0 0	799 799 595 698 795
Acoustic Energy AE100i SE Acoustic Energy Aegus Two ALR/Jordan Entry 2 AR 15 Arcaydis Baby 1 Audio Gem Opal B&W DM602 Ser II		230 249 249 275 299 230	Celestion 35i Cerwin-Vega VS-10 Chario Syntar 100T Chario Ref 1000 Dali 104B Dali Royal Menuet Mkll Dali 606	- 10 本田本田本	0	499 350 399 499 370 400 400	Acoustic Precision Eikos FR1 Aliante Stile Aliante Voce Allison Model 3A Accaylis AK3		800 580 600 525 599	Soliloquy 5.0 Sonus Faber Concertino S Coast Lancelot S Coast Hades S Coast Merlin Monitor Spendor S1	田田本田田	0 0 0 0	795 599 575 695 795 549
BaW 602 52 Blueroom Minipod Bose 151 Bose 301 IV Boston 361 Boston CR8		300 250 220 300 219 239	Dali Royal Def Tech Celsius Dynaudio Audience 40 Dynaudio LR/C120 ELAC CL82 Mkll Eltax Linear Resp. 6.5	<b>大田田田田</b>	0 0 0 0	500 395 399 439 399 349	Arcaydis AS2 Arcaydis AK4 Audio Gem Emerald Audio Note AN-K/D Audio Note AN-J/B Audiovector M1 Improved Audiovector C2	H + H = H = H = H = H = H = H = H = H =	699 699 540 620 799 650	System 1150 T+A TB 100 Tannoy Revolution R3 Tannoy Definition D100 TDL Cotswold CF200 Titan Orbital Titan Logic T/2B	1000年101年代	0 0 0 0 0 0	700 550 689 650 598 600
Boston 381 Boston CR9 Boston Voyager Castle Richmond Castle Keep Celestion C1		259 279 299 249 250 299	Eltax Chroma Front Eltax Linear Resp. 8.5 Energy e:XL25 Epos ES12 GLL Imagio IC248TL GLL Imagio IC258TL	<b>佐佐西铁佐佐</b>	0	349 449 399 499 350 450	AVI Biggatron B&O Beolab 2500 B&W 603 S2 B&W CDM1 SE Bose 501 Bose A'mass AM3	**************************************	599 750 550 600 600 650	Titan Logic T/2 TLC Classic 2 TLC Classic 1 Totern Mite Totern Rokk Triangle Zephyr II	10日本本田田	000000	699 535 800 599 765
Celestion 23i Cerwin-Vega VS-8	e o	299 250	GLL Imagio IC348TL Heybrook Heylo	₹1 1	0	500 359	Boston VR30 Castle Severn 2SE	# 0	600 699	£801 TO £1500			
								<u> </u>					5384383
Cerwin-Vega CT-330 Chario Syntar 100 Chario Ref 100 Chario Ref 100 Chario Hiper 1000 Dali 102B Dali 150 Eltax Linear Resp. 4.5 Eltax Liberty 7+ GL Limagio (C/38T)		300 249 299 300 260 300 249 249	Heybrook HB4/2000 Indigo One Indigo Three Jamo Classic 6 Jamo Cornet 195 Jamo 98 Jamo D365 Jamo Classic 8	- 生生生生性 - 日本	0 0 0 0 0	500 330 500 330 350 350 400 400	Celestion A Compact Celestion 45i Celestion C2 Cerwin-Vega VS-12 Cerwin-Vega VS-15 Chario Constellation Lynx Chario Ref 100T Chario Hiper 1000T	**************************************	599 599 699 550 700 549 599 699	Acoustic Energy AE1 Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Arcaydis AK5 ATC SCM10 Audio Note AN-I/ID Audio Note AN-I/ID Audio Note AN-I/ID	anaa <mark>Ta</mark> oc	0000000	845 1,245 1,375 1,200 1,399 1,000 930
Chario Syntar 100 Chario Ref 100 Charo Hiper 1000 Dali 102B Dali 150 Eltax Linear Resp. 4.5 Eltax Liberty 7+ GLL Imagio IC238TL Heybrook Heylios Heybrook HBJ/2000 Interaudio XL3000 Interaudio XL4000 Jamo Cornet 175 Jamo Classic 4		300 249 299 300 260 300 249 250 269 300 230 260 230 250	Heybrook HB4/2000 Indigo One Indigo Three Jamo Classic 6 Jamo Cornet 195 Jamo 98 Jamo D365 Jamo Classic 8 Jamo Classic 8 Jamo 128 Jamo Atmosphere JBL LX60 JBL Ti 200 JM Lab Tantal 515 Jordan Watts JHFLG	生物性比性的性性性性性的		330 500 330 350 350 400 400 450 500 350 400 499 380	Celestion A Compact Celestion 45i Celestion C2 Cerwin-Vega VS-12 Cerwin-Vega VS-15 Chario Constellation Lynx Chario Ref 100T Chario Hiper 1000T Cura CA-10 Dali 107 Dali 350 Dali 450 Dali 109 Def Tech BP2X Def Tech CLR2002	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	599 599 699 550 700 549 599 699 600 600 700 800 595 595	Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Arcaydis AK5 ATC SCM10 Audio Note AN-I/D Audio Note AN-I/SPx Audiovector M1 Sig Improved Audiovector M3	B B B ★ B		1,245 1,375 1,200 1,399 1,000
Chario Syntar 100 Chario Ref 100 Chano Hiper 1000 Dali 102B Dali 150 Eltax Linear Resp. 4.5 Eltax Liberty 7+ GLL Imagio IC238TL Heybrook Heylios Heybrook HB3/2000 Interaudio XL3000 Interaudio XL3000 Interaudio XL4000 Jamo Cornet 175 Jamo Classic 4 Jamo Art Jamo D265 JBL CM62 JM Lab Tantal 507 JPW ML710i JPW ML810i JVC SX-SW10		300 249 299 300 260 300 249 250 269 300 230 260 230	Heybrook HB4/2000 Indigo One Indigo Three Jamo Classic 6 Jamo Cornet 195 Jamo 98 Jamo D365 Jamo Classic 8 Jamo Classic 8 Jamo Lassic 8 Jamo Atmospher JBL LX60 JBL Ti 200 JM Lab Tantal 515 Jordan Watts JHFLG Jordan Watts JHFLG JPW ML1010 KEF 035.2 KEF RDM One KEF Q55.2 Linn Sekrit	<b>法法国住还法国国法国法法法</b> 国法法法法国		330 500 330 350 350 400 400 400 450 350 400 499 380 450 350 499 500 395	Celestion A Compact Celestion 45i Celestion 45i Celestion C2 Cerwin-Vega VS-12 Cerwin-Vega VS-15 Chario Constellation Lynx Chario Ref 100T Chario Hiper 1000T Cura CA-10 Dali 107 Dali 350 Dali 109 Def Tech BP2X Def Tech CLR2002 Def Tech BP6B Diapason Micra II Dynaudio Audience 50 Dynaudio Audience 60 ELAC CL102 MkII ELAC CL101 JET Eltax Linear Resp. 10.5	Kokkookukkkkkk	599 599 699 550 700 549 699 699 600 700 800 595 750 750 757 729 599 800 549	Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Arcaydis AKS ATC SCM10 Audio Note AN-I/D Audio Note AN-I/SPX Audio Physic Step Audiovector M1 Super Impr. Audiovector M1 Sig Improved Audiovector M3 AVI Positron B&O Beolab 4000 B&W DM604 Ser II B&W CDM7SE B&W Nautilus 805 Bandor Trident BKS Audio Hybrid 107	长可加大化化的四四位的四位的四位		1,245 1,375 1,200 1,399 1,000 930 1,060 1,299 1,415 1,299 1,415 1,290 880 1,180 1,200 899 1,100 849 1,500
Chario Syntar 100 Chario Ref 100 Chario Ref 100 Dali 102B Dali 102B Dali 150 Eltax Linear Resp. 4.5 Eltax Liberty 7+ GLL Imagio IC238TL Heybrook Heylios Heybrook HB3/2000 Interaudio XL3000 Interaudio XL3000 Interaudio XL4000 Jamo Cornet 175 Jamo Classic 4 Jamo Art Jamo D265 JBL CM62 JM Lab Tantal 507 JPW ML710i JPW ML710i JPW ML810i JVC SX-SW10 KEF Coda 9 KEF Model 70S Linn Kan Mission 750 Mission 772 Mission 780		300 249 300 260 300 249 249 249 250 250 250 300 230 250 300 300 250 300 300 250 300 300 250 250 250 250 250 250 250 250 250 2	Heybrook HB4/2000 Indigo One Indigo One Indigo Three Jamo Classic 6 Jamo Cornet 195 Jamo 98 Jamo D365 Jamo Classic 8 Jamo Classic 8 Jamo Classic 8 Jamo Atmosphere JBL LTis 200 JBL 17i 200 JM Lab Tantal 515 Jordan Watts JHFLG Jordan Watts JH200 JPW ML1010 KEF Q35.2 KEF RDM One KEF Q35.2 Linn Sekrit Magnat Vector 77 Mission 731 Mission 731 Mission 7736	<b>化化学化化化学 化化化化物 化化化物 化化化化化化</b> 化物		330 500 350 350 350 400 400 450 350 400 450 350 450 350 440 450 350 440 499 499 499 499 499 499 490 490 49	Celestion A Compact Celestion 45i Celestion 45i Celestion C2 Cerwin-Vega VS-12 Cerwin-Vega VS-15 Chario Constellation Lynx Chario Ref 100T Chario Hiper 1000T Cura CA-10 Dali 107 Dali 350 Dali 109 Def Tech BP2X Def Tech CLR2002 Def Tech BP6B Diapason Micra II Dynaudio Audience 50 Dynaudio Audience 60 ELAC CL102 MkII ELAC CL101 JET Eltax Linear Resp. 10.5 Energy e:XL26 Epos ES14 Harbeth BBC LS3/SA Harbeth HL-P3ES Heybrook Duet Indigo Four		599 599 599 550 700 549 599 699 699 600 600 700 800 595 750 750 750 675 759 699 800 675 759 799 799 799	Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Arcaydis AKS ATC SCM10 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPX Audio Note AN-I/SPX Audio Physic Step Audio Physic Step Audiovector M1 Super Impr. Audiovector M3 Sig Improved Audiovector M3 Sig Improved Audiovector M3 AVI Positron B&O Beolab 4000 B&W DM604 Ser II B&W CDM75E B&W Nautilus 805 Bandor Trident BKS Audio Hybrid 107 Bose A'mass AM5 Bose 701 Boston VR40 Carlsson OA-52.2 Castle Inversion 50 Castle Harlech	四向长仕长长四四四四四四十四四十四四四		1,245 1,375 1,200 1,399 1,000 930 1,060 1,299 1,415 1,299 1,415 1,290 880 1,180 1,200 849 1,000 1,500 849
Chario Syntar 100 Chario Ref 100 Chario Ref 100 Dali 102B Dali 102B Dali 150 Eltax Linear Resp. 4.5 Eltax Liberty 7+ CLL Imagio IC238TL Heybrook Heylios Heybrook Heylios Heybrook HB3/2000 Interaudio XL3000 Interaudio XL3000 Interaudio XL4000 Jamo Cornet 175 Jamo Classic 4 Jamo Art Jamo D265 JBL CM62		300 249 299 300 300 249 250 250 250 250 250 300 250 250 250 250 250 250 250 250 250 2	Heybrook HB4/2000 Indigo One Indigo One Indigo Three Jamo Classic 6 Jamo Carset 195 Jamo 98 Jamo D365 Jamo Classic 8 Jamo Graphic Jamo 128 Jamo Atmosphere JBL 1X60 JBL 17 200 JM Lab Tantal 515 Jordan Watts JHFLG JORDAN WATTS JOR	四阳性性性性性性性性性性性性性性的四性阳性性性的性性性性性		330 500 350 350 350 400 400 400 490 350 499 380 499 450 450 350 449 450 500 355 450 450 450 450 450 450 450 450 450 4	Celestion A Compact Celestion 45i Celestion 45i Celestion C2 Cerwin-Vega VS-12 Cerwin-Vega VS-12 Cerwin-Vega VS-15 Chario Constellation Lynx Chario Ref 100T Chario Hiper 1000T Cura CA-10 Dali 107 Dali 350 Dali 109 Def Tech BP2X Def Tech BP2X Def Tech BP2X Def Tech CLR2002 Def Tech BP6B Diapason Micra II Dynaudio Audience 50 Dynaudio Audience 60 ELAC CL102 MkII ELAC CL310i JET Eltax Linear Resp. 110.5 Energy ex12.6 Epos ES14 Harbeth BBC LS3/SA Harbeth HL-P3ES Heybrook Duet Indigo Four Infinity Kappa 60 Infinity Kappa 60 Infinity Kappa 70 Jamo Classic 10 Jamo X3MB Jamo Jamo Lassic 10 JBL 1X80 JBL 1X80		599 599 550 700 549 599 699 600 600 700 800 595 750 577 729 800 675 699 799 799 750 600 675 699 750 675 699 600 675 699 600 675 699 600 675 699 600 600 675 699 600 600 600 600 600 600 600 600 600	Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Arcaydis AKS ATC SCM10 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPX Audio Note AN-I/SPX Audio Physic Step Audiovector M1 Super Impr. Audiovector M1 Sig Improved Comproved M1 Sig Improved Audiovector M1 Sig Impr	n 生失 生生生物 生 生活 生 n n n 生 t n n n 生 生 生 生 t n n n n 生 t n n n n		1,245 1,375 1,200 1,399 1,000 1,399 1,000 1,299 880 1,200 849 1,100 846 1,500 846 1,500 875 899 999 1,499 1,400 1,300 1,000 1,
Chario Syntar 100 Chario Ref 100 Chario Ref 100 Chano Hiper 1000 Dali 102B Dali 150 Eltax Linear Resp. 4.5 Eltax Liberty 7+ GLL Imagio IC238TL Heybrook Heylios Heybrook HB3/2000 Interaudio XL3000 Interaudio XL3000 Interaudio XL4000 Jamo Cornet 175 Jamo Classic Jamo D265 JBL CM62 JM Lab Tantal 507 JPW ML710i JPW ML710i JPW ML810i JVC SX-SW10 KEF Coda 9 KEF Model 70S Linn Kan Mission 750 Mission 772 Mission 770 Mission 772 Mission 770 Mission 772 Mission 780 Mission 773 Monitor Audio Monitor 2 Monitor Audio Bronze 3 Monitor Audio Bronze 3 Monitor Audio Bronze 3 Monitor Audio Silver 3i NAD 802 Paradigm Monitor 5 Paradigm Monitor 7 Pioneer CS-7030 Pioneer CS-9030 Pioneer CS-9030 Pioneer S-LC1 Polk AB505 Polk MT7		300 249 299 300 260 300 249 249 250 260 250 300 250 250 300 300 250 250 250 250 250 250 250 250 250 2	Heybrook HB4/2000 Indigo One Indigo One Indigo Three Jamo Classic 6 Jamo Classic 6 Jamo Classic 8 Jamo D365 Jamo Classic 8 Jamo Classic 8 Jamo Classic 8 Jamo Classic 8 Jamo Lassic 8 Jamo Atmosphere JBL LX60 JBL Ti 200 JM Lab Tantal 515 Jordan Watts JHFLG Jordan Watts JHFLG Jordan Watts JHFLG Jordan Watts JHFLG JORDAN WATT JORDAN JPW ML1010 KEF Q35.2 KEF RDM One KEF Q35.2 Linn Sekrit Magnat Vector 55 Magnat Vintage 320 Magnat Vector 77 Mission 735 Mission 7736 Mission 7736 Mission 774 Mission 775 Monitor Audio Studio 25E Mordaunt-Short MS207 Mordaunt-Short MS208	四世四位,由四四四位,在北京大学的大学、大学、中国、大学、中国、大学、大学、大学、大学、		330 330 350 350 350 400 400 400 400 445 500 350 449 350 449 350 350 449 350 350 350 350 350 350 350 350	Celestion A Compact Celestion 45i Celestion 45i Celestion C2 Cerwin-Vega VS-12 Cerwin-Vega VS-12 Cerwin-Vega VS-15 Chario Constellation Lynx Chario Ref 100T Chario Hiper 1000T Cura CA-10 Dali 107 Dali 350 Dali 109 Def Tech BP2X Def Tech BP2X Def Tech CLR2002 Def Tech BPBB Diapason Micra II Dynaudio Audience 50 Dynaudio Audience 60 ELAC CL102 MkII ELAC CL101 JET Eltax Linear Resp. 10.5 Energy eXL26 Epos ES14 Harbeth BBC LS3/SA Harbeth HL-P3ES Heybrook Duet Indigo Four Infinity Kappa 70 Jamo Classic 10 Jamo X3MB Jamo X3MB1 JBL Ti 400 JBL Ti 400 JBL SVA1500 JBL Ti 100 JM Lab Cobalt 807 JM Lab Tantal 520 JM Lab Cobalt 810 Jordan Watts JH400 KEF LS3/Sa		599 599 599 550 700 549 599 699 600 600 700 800 595 750 750 595 750 750 549 600 600 607 699 799 750 555 669 660 660 675 699 699 699 699 699 699 699 699 699 69	Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Arcaydis AKS ATC SCM10 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPX Audio Note AN-I/SPX Audio Physic Step Audiovector M1 Super Impr. Audiovector M1 Sig Improved Audiovector M3 Sig Im	生 10 10 14 14 14 14 14 14 14 14 14 14 14 14 14	000000000000000000000000000000000000000	1,245 1,375 1,200 1,399 1,000 1,399 1,060 1,299 1,415 1,200 8,49 1,100 1,500 1
Chario Syntar 100 Chario Ref 100 Chario Ref 100 Chano Hiper 1000 Dali 102B Dali 150 Eltax Linear Resp. 4.5 Eltax Liberty 7+ GLL Imagio IC238TL Heybrook Heylios Jamo Cornet 175 Jamo Classic 4 Jamo D265 JBL CM62 JM Lab Tantal 507 JPW ML210i JVC SX-SW10 KEF Coda 9 KEF Model 705 Linn Kan Mission 750 Mission 772 Mission 772 Mission 770 Mission 703 Monitor Audio Monitor 2 Monitor Audio Silver 3i NAD 802 Paradigm Monitor 5 Paradigm Monitor 7 Pioneer CS-7030 Pioneer CS-7030 Pioneer S-LC1 Polk AB505 Polk M3 II		300 249 249 249 250 250 300 300 250 299 255 300 250 250 250 250 250 250 250 250 250 2	Heybrook HB4/2000 Indigo One Indigo One Indigo Three Jamo Classic 6 Jamo Cornet 195 Jamo 98 Jamo D365 Jamo Classic 8 Jamo Graphic Jamo 128 Jamo Atmosphere JBL LX60 JBL Ti 200 JM Lab Tantal 515 Jordan Watts JHFLG JORDAN WATTS JOR	四世处四四四四任他位任他位任他位任任任任任他任任任四位四位四位任任任任任任任任任任		330 330 330 350 350 400 400 400 400 450 550 350 499 380 499 380 499 349 349 349 349 349 349 349	Celestion A Compact Celestion 45i Celestion 45i Celestion C2 Cerwin-Vega VS-12 Cerwin-Vega VS-12 Cerwin-Vega VS-15 Chario Constellation Lynx Chario Ref 100T Chario Hiper 1000T Cura CA-10 Dali 107 Dali 350 Dali 109 Def Tech BP2X Def Tech BP2X Def Tech BP6B Diapason Micra II Dynaudio Audience 50 Dynaudio Audience 60 ELAC CL102 Mtll ELAC CL310i JET Eltax Linear Resp. 11.0.5 Energy ex12.6 Epos ES14 Harbeth BEC LS3/SA Harbeth HL-P3ES Heybrook Duet Indigo Four Infinity Kappa 60 Infinity Kappa 70 Jamo Classic 10 Jamo X3M8 Jamo X3M10 JBL 1X80 JBL Ti 400 JBL Ti 400 JBL Ti 600 JM Lab Cobalt 807 JM Lab Cobalt 810 Jordan Watts JH400 JML SU SUST SH400 JML Lab Cobalt 810 Jordan Watts JH400 JML SU SUST SH400 JM Lab Cobalt 810 Jordan Watts JH400 JML SU SUST SH400 JM Lab Cobalt 810 JOrdan Watts JH400		599 599 599 550 700 549 599 699 600 600 595 595 750 577 729 599 800 575 600 600 600 600 600 595 595 750 599 699 600 600 600 600 600 600 600 600 6	Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Arcaydis AKS ATC SCM10 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPX Audio Note AN-I/SPX Audio Physic Step Audiovector M1 Super Impr. Audiovector M1 Sig Improved Comproved M	10 10 住住住住的 化比比比比比比比比比比比比比比比比比比比比比 化二甲基苯甲甲甲		1,245 1,375 1,200 1,399 1,000 1,399 1,000 1,299 1,180 1,200 849 1,000 1,500 875 899 999 1,499 1,199 1,100 1,500 875 999 1,499 1,199 1,100 1,500 875 999

#### II-FI PRICE GUIDE

Harbeth HL-K6 Harbeth HR-Compact 7 Harbeth BBC L55/12A Impulse Kora Infinity Coverture 1 Infinity Kappa 80 Infinity Kappa 90 Infinity Coverture 2 Jadis Orchestra Jamo Concert 8 JBL SVA 1600 JBL 4312 MkII-WX JBL SVA 1800 JBL 4312 MkII-WX JBL SVA 1800 JBL 4312 MkII-WX JBL SVA 2100 JM Lab Cobalt 815 JM Lab Electra 905 JM Lab Cobalt 815 JM Lab Electra 905 JM Lab Cobalt 820 Jordan Watts JH1+1 KEF Ref. Model One KEF RDM Three Kelly KT3 Linn Tukan Aktiv Linn Keilidh Aktiv L Voice Auditorium Lumley L/M3.5 Magnat Vintage 720 Magneplanar MG-C SE Magneplanar MG-C SE Magneplanar MG-C SE Magneplanar MG-O,6 SE Meridian Argent 1 M&K S-125 Mission 705a Mission 754f Monitor Audio Silver 9i Mus Tec Condor Mus Tec Condor Mus Tec Callas Gold Opera Terza Opera Super Pavarotti Opera Callas Gold Opera Divina II Orelle Swing Origin Live Soveniegn Paradigm Studio/100 Polk L570 Polk RTE1000 Polk L570 Polk RTE000 Polk RT20p ProAc Tablette 2000 Sig ProAc Studio 125 ProAc Response 1 SC PMC LB1 Rega Naos Rehdeko RK115 RMS Revelation S 1 Roksan Ojan 3X Royd The Albion Ruark Solus Shahinian Super Elf Shahinian Starter Shahinian Super Elf Shahinian Starter Shahinian Starter Shahinian Starter Shahinian Starter Shahinian Starter Shahinian Starter Shahinian Super Elf Shahinian Starter Shahinian Starter Shahinian Starter	· · · · · · · · · · · · · · · · · · ·	□ 899 □ 1,299 □ 1,499 □ 1,250 □ 995 □ 1,500 □ 1,500 □ 1,500 □ 1,500 □ 1,150 □ 1,1500 □ 1,1500 □ 1,1500 □ 1,1500 □ 1,1500 □ 1,1500 □ 1,1500 □ 1,1500 □ 1,1500 □ 1,1500 □ 1,2500 □ 1,5000 □ 1,1500 □ 1,2500 □ 1,195 □ 1,1	Audio WK.p Cyclone 34 Audiostatic DCI Audiovector M3 Super Audiovector M3 Sig B&O Beolab 6000 B&O Beolab 7000 Castle 1000		2,000 2,495 1,700 2,500 2,500 2,500 2,550 2,550 2,550 2,550 2,550 2,550 2,550 2,550 2,550 2,550 1,975 2,399 2,500 1,995 2,800 2,480 2,495 1,995 2,800 1,750 1,895 2,250 2,990 2,395 2,250 2,990 2,395 2,250 2,990 2,395 2,250 2,990 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,300 1,750 1,899 2,400 3,000 1,599 1,590 1,750 1,990 1,750 1,990 1,750 1,990 1,750 1,990 1,750 1,900 1,750 1,900 1,750 1,900 1,750 1,900 1,750 1,900 1,750 1,900 1,750 1,900 1,750 1,900 1,750 1,900 1,750 1,900 1,750 1,900 1,750 1,700 2,708 2,995 1,999 1,750 1,700 2,708 2,995 1,995 2,995 1,750 1,700 2,708 2,995 1,750 1,700 2,708 2,995 1,750 1,750 1,700 2,708 2,995 1,995 2,950 1,750	Alon Adriana Alon Circe Alon Phalanx ATC SCM20A PRO ATC SCM20A PRO ATC SCM20A PRO ATC SCM20ASL ATC SCM100PSL ATC SCM100PSL ATC SCM100ASL ATC SCM70PSL ATC SCM70PSL ATC SCM70ASL ATC SCM70ASL ATC SCM70ASL ATC SCM200ASL AUG Note AN-JESE Silver Audio Physic Virgo 2 Audio Physic Avanti 2 Audio Physic Avanti 2 Audio Physic Avanti 2 Audio Physic Avanti 2 Audio Physic Medea Audiostatic DCI Plus Audiovector SX Budiovector SX Audiovector S	生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生	□ 8,500 □ 12,000 □ 3,995 □ 5,948 □ 16,843 □ 16,	
Veritas 20 Vienna Acoustics Mozart Zingali Colosseum  £1501 TO £3000  Acoustic Energy AE1 Sig Acoustic Energy AE2 Sig Aliante Zeta Aliante Linea Aliante One Alon I Mk II ALR/Jordan Note 7	作性性 四性 四四四	□ 1,400 □ 1,500 □ 975 □ 1,995 □ 2,995 □ 1,850 □ 2,060 □ 2,700 □ 1,795 □ 2,495 □ 2,500				Magneplanar MG-20 SE A Martin-Logan CL3 II Martin-Logan CL5 III Martin-Logan Re-Quest Z Mendian DSP5000 Meridian DSP5000 Mendian DSP6000 Monitor Audio Studio 50 Monitor Audio Studio 60 Naim NBL Naim NBL Naim DBL Active Neolith NEO 2 Neolith NEO 3 Ocellia Tilia	***************************************	11,000 3,399 4,555 5,875 5,875 5,950 5,950 5,960 5,000 6,648 8,050 6,648 8,050 3,499 4,999 3,400	ATC SCM 0.1/1 Audio Physic T Audiovector M Audiovector M B&W ASW1000 B&W ASW2000 Boston CR400 Boston VR2000 Celestion CS13 Celestion SW Celestion AS
ATC SCM20SL ATC SCM20 Tower SL Audio Note AN-E/D Audio Note AN-E/SPx Audio Physic Spark 2 Audio Physic Tempo	**************************************	2,400 2,400 1,520 2,250 1,749 1,999	OVER £3000  Acoustic Energy AE5  Alon Lotus SE  Alon V Mk II	자 다 다	7,995 3,500 5,495	Ocellia Olea Ocellia Kedros ProAc Response 3.8 ProAc Future 1 ProAc Response 5 ProAc Future 2	주 주 주	9 4,100 9 5,500 9 3,990 9 5,875 9,000 10,575	Cerwin-Vega H Cerwin-Vega H Chario Syntar I Chario Hiper B Credo SDC 00 Eltax Atomic A

nse 4 12,000 5,135 8,841 14,805 19,799 22,266 32,606 4,000 5,295 13,995 15,000 32,500 4,000 .BD-A BD-A (145 erak ocyon e bur 5,495 9,495 3,995 5,995 14,500 6,000 awk iapason nonia gnifica Suprema Bella Voce r Guarneri Homage 5,795 11,450 10,000 3,790 6,490 11,990 13,950 13,950 18,950 9,599 3,475 3,850 4,550 8,400 3,250 3,999 4,000 Amati Homage ED Dynastat Aura Pnstine III+ Jltimate II A-1 Ultimate III Ultimate I alibur Ref. 10 nburgh TW finition D900 Memory TW stminster TW iterbury 15 TW stminster Royal 7,720 14,920 6,000 4,112 3,100 9,999 3,750 4,495 ndard-m n T/4 nan 5,495 8,390 10,995 34,995 3,900 io Cub io WATT 5 esch Actor esch ACT1 spkr esch Act 2 esch The Bishop 平平 8,900



#### SUBWOOFERS

Active; includes a dedicated ower amplifier.

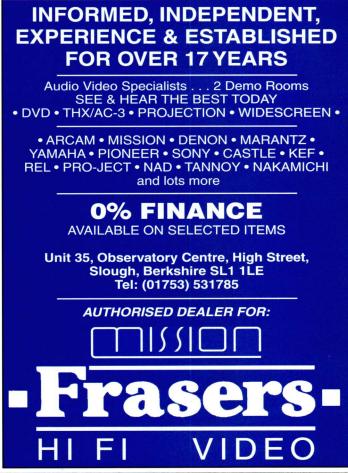
THX – THX-approved by LucasFilm for use in Home THX installations.

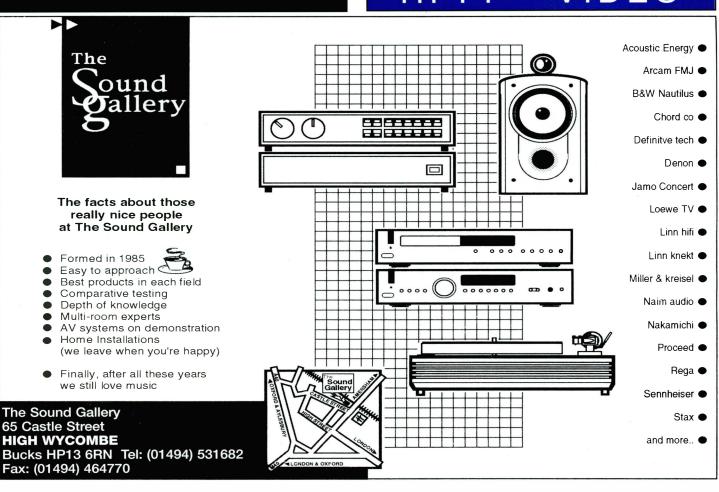
Acoustic Energy Aegis Sub Allison Mini Ref Sub	0		300 210
Alon Poseidon	0		12,000
ATC SCM 0.1/15	0		3,810
Audio Physic Terra	0		3,499
Audiovector M Sub			699
Audiovector M Sub Sig.			849
B&W ASW1000	0		500
B&W ASW2000	0		800
B&W ASW3000	0		1,000
Boston CR400	0		300
Boston VR500	0		450
Boston VR2000	0	TEX	800
Celestion CS135			139
Celestion CSW MkII	0		329
Celestion S1i	0		349
Celestion A6s	0		800
Cerwin-Vega HT-10D			200
Cerwin-Vega HT-12D			250
Chario Syntar Bass			299
Chario Hiper Bass			499
Credo SDC 001	0		3.054
Eltax Atomic A-8	0		129
			Day Server



### Award Winning Speakers available from:









Let our experts help with your hi-fi problems. Send your query to 'Help' at the usual address

the usual address	S.	and a	
Eltax Atomic A-10 Eltax Atomic A-15	0		179 299
GLL Le Bass	0		350
Infinity HPS-250	0		550
Jamo SW1008	0		250
Jamo SW410e Jamo SW708	0	THE	300 300
Jamo SW-2010	0	-	400
Jamo Sub One	0		400
JBL Control Sub 6 JBL Control Sub 10	0		200 300
JM Lab Tantal SW20	0		349
JM Lab Cobalt SW27A	0		599
JM Lab Electra SW33A JM Lab Sub Utopia	0		899 2,200
JPW Subwoofer	•		130
JPW SW40	0		240
JPW SW60 JPW SW-120	0		350 500
KEF Model 20B	0		349
KEF Model 30B	0		499
KEF Model AV1 Kenwood SW500	0	<b>THX</b>	2,499
Kenwood SW501	0		349
Linn AV5150	0		2,850
L Voice RW24 Magnat Vector Sub 30P			11,500
Magnat Vector Sub 30A	0		299
Magnat Omega 300	0		429
Meridian M2500 M&K VX-7MkII	0		1,595 450
M&K V-75 MKII	0		650
M&K VX-100	0		750
M&K V-125 M&K V-125 (THX)	0	THE S	800
M&K MX-70	0	U-M	900
M&K MX-700	0		1,495
M&K MX-150 (THX) M&K MX-200	0	<b>GEX</b>	1,500
M&K MX-350THX	0	TEX.	1,995
M&K MX-5000 (THX)	0	THE S	
Mission 75as Monitor Audio ASW100	0		548 300
Monitor Audio ASW110	0		500
Monitor Audio ASW210	0		700
Mus Tec PMS 45 Mus Tec Tercel	0		500 700
Muse Model 22	0		1,890
Muse Model 18	0		3,790
Neat Gravitas Paradigm PDR10	<b>(a)</b>		1,095 250
Paradigm Servo 15A	0		800
Polk PSW50	0		350
Polk PSW150 Polk PSW300	(a)		500 750
REL Q50	0		375
REL Q-100E	0		495
REL Strata III REL Q200E	(a)		600
REL Q201E	0		700
REL Storm III	0		800
REL Q400E REL Stadium III	0		1,000
REL Stentor II	0		1,800
REL Studio II	0		4,000
Revel Sub-15 Roksan Ojan 3S	0		2,195 795
Ruark Log-Rhythm	0		750
Sequence FW120	6		249
Soliloquy S10 Sony SA-W305	0	THE X	1,050
Spendor Sub3	0		695
Sunfire Sub Junior	0		1,099
Sunfire True Sub Sunfire Trus Sub Sig.	0		1,499
Tannoy mSUB 10	(Q).		250
TDL Nucleus SBR			200
Titan Mercury Titan Mars			350 450
Titan Jupiter			799
Tsunami TS300 Tsunami TS210	0		300
W'dale Topaz SW-12	0		350 400
Wilson Audio Puppy 5.1			8,450
Wilson Audio Whow III Wilson Audio XS	0		10,999
Yamaha YST-SW45	0		140
Yamaha YST-SW90	0		180
Yamaha YST-SW160 Yamaha YST-SW300	0		280 350
ramana 131-344300			330



#### **TONEARMS**

Pivoted.

# – Parallel tracking.			
Air Tangent IC		#	4,600
Air Tangent 10B		#	8,600
Air Tangent Reference		#	14,000
Audio Note AN-ARM 1	0	"	169
Audio Note AN-0s	0		795
Audio Note AN-1s	0		995
Audiomeca SL5		#	2,500
Clearaudio Souther TQ-1		#	1,670
Clearaudio Master TQ-1		#	3,620
Dynavector 507	0		1,995
Graham Mk 2.0 Basic	0		1,810
Graham Mk 2.0 Deluxe	9		2,650
Helius Orion 4 Copper	0		549
Helius Cyalene 2	9		1,495
Kuzma Stogi S	0		399
Kuzma Stogi	0		750
Kuzma Stogi Ref	0		1,250
Linn Akito	9		500
Linn Ekos	9		1,500
Moth Mk I	0		109
Moth MKIII Stainless	9		146
Moth Mk III Tungsten Moth Moth 900	9		174 598
Naim ARO	0		1,070
N'ham Interspace Arm	0		370
N'ham Space	0		450
N'ham Mentor	0		800
N'ham Foot	0		1,100
N'ham Anna Log Arm	0		1,500
Pro-Ject 9	0		350
Rega RB250	0		124
Rega RB300	0		188
Rega RB600	0		358
Rega RB900	0		648
Rockport Series 7000		#	6,000
Roksan Tabriz	0		345
Roksan Tabriz Zi	0		445
Roksan Artemiz	0		895
SME 3009 Ser II Imp	0		309
SME 3009 S2 Ser II Imp	0		338
SME Series II 3009-R	9		514
SME Series II 3010-R	9		526
SME Series II 3012-R	9		565
SME 309	0		689
SME 310	0		705
SME 312	0		802
SME Series IV SME Series V	0		983
Triplanar V1A	9		1,461 3,500
Triplanar V1B	0		3,750
Wilson Benesch Act 0.5	9		795
Wilson Benesch ACT2	9		1,350
Zeta AS	9		469
Zeta VDH	0		549
	-		1012(0120)



#### **TUNERS**

'P20' (etc.)- Number of presets. RDS - Radio Data System; receives text information on station, programme type etc.

Arcam Alpha 7	P24		230
Arcam Alpha 8	P24		280
Arcam FMJ T21	P24		400
Arcam Alpha 10 DRT	P07		800
Arcam FMJ DT26	P07		1,000
Ariston TX-510	P20		50
AVI S2000MT2	P99	RDS	899
Cambridge T500	P64		180
Creek T43	P64		399
Cymbol C-DAB1	P08		999
Cyrus FM7.5	P29		400

	10000		
Davidson-Roth FM Ref Classic		La	5,590
Denon TU-260L MkII	P40	RDS	130
Denon TU-425RD	P40	RDS	200
Denon TU-1500RD Fanfare FT1	P40	RDS	1,395
H/K TU930	P08 P30		150
H/K TU950	P30	RDS	200
Kenwood KT-2080	P20	RDS	130
Kenwood KT-3080	P30	RDS	180
Linn Kudos	P50		775
Linn Kremlin	P80		2,600
Magnum Dynalab FT11			499
Magnum Dynalab FT-101A			795
Magnum Dynalab Etude			1,250
Magnum Dynalab MD108			4,990
Marantz ST-48	P60	RDS	120
Marantz ST-17 McIntosh MR7084	P60	RDS	600
McIntosh MX118	P50 P50		4,999
McIntosh MX130	P50		6,999
Meridian 504	P30		695
Musical Fidelity E50	P20		300
Myryad T-30	P29		400
Myryad Cameo	P29	RDS	490
Myryad MT100	P29		600
NAD 412	P24		190
NAD C440	P30	RDS	200
NAD 414RDS	P30	RDS	250
NAD 710	P24		270 330
NAD 712 Naim NAT03	P24		615
Naim NAT02			1,130
Naim NAT01			1,780
Onkyo T 421ORDS	P30	RDS	180
Onkyo T 409	P30		230
Onkyo T 411RDS	P30	RDS	260
Pioneer F-204RDS	P30	RDS	140
Pioneer F-504RDS	P40	RDS	250
Pioneer F-504RDS Precision	P40	RDS	700
Quad 99 Rega Radio R	P25 P24		350
Roksan Kandy	P50	RDS	375
Roksan Caspian	P50	ND3	695
Rotel RT940AX	P20		225
Rotel RT-955	P30	RDS	350
Sony ST-SE200	P30		100
Sony ST-SE300	P30	RDS	110
Sony ST-SE500	P30	RDS	140
Sony ST-SB920	P30	RDS	180
Sony ST-SA3ES	P30	RDS	250 250
Sony ST-S3000 T+A T1200R	P30	RDS	790
TAG McLaren T32R	P60 P99	RDS	1,400
TAG McLaren T32R DAB	P99		2,295
Teac T-R400	P40		100
Teac T-R460	P40	RDS	120
Teac T-H500	P30	RDS	170
Technics ST-GT350L	P30		130
Technics ST-GT550L	P39	RDS	180
Technics ST-GT650L	P39	RDS	230
Technics ST-GT1000 Thorens TRT-2000	P97 P59	RDS RDS	500 499
Yamaha TX-396L	P59	RDS	100
Yamaha TX-492RDS	P40	RDS	130
Yamaha TX-59 2RDS	P40	RDS	180
Yamaha RX-396RDS	P40	RDS	250
YBA Complete	P14		490
			NESS!



#### **TURNTABLES**

⊙i - Arm included. – Cartridge included.

Audio Note AN-TT 1			349
Dual CS435-1	01	-	140
Dual CS 455-1	01		220
Dual 505-4 UK	01	-	220
Dual CS-750-1	01	-	330
Genexxa Lab-710	01	-	60
Genexxa Lab-810	01	-	70
Kenwood KD-492F	01	-	100
Michell Mycro			455
Moth Alamo	01		199
Moth Kanoot Mkl Arm	01		279
Moth Kanoot Mk3 Arm	<b>O</b> 1		329
NAD 533	<b>O</b> 1		220
N'ham Interspace			500
Pioneer PL-J2500-C	01	-	80
Pioneer PL-990	OI		130
Pro-Ject 0.5/OM10	01	-	170

Pro-Ject 1/510	01	-	200
Pro-Ject 2/510	Of:	-	250
Pro-Ject Classic/510	01		360
Pro-Ject 6/510	01	-	400
Pro-Ject Classic Cherry	Ot .	-	450
Pro-Ject 6.9	01		500
Rega Planar 78	01		224
Rega Planar 2	01		224
Rega P3	01		298
Sherwood PM8550	01	-	160
Sony PS-LX150H	01		90
Sony PS-LX300H	01	-	150
Technics SL-J110D	01		120
Technics SL-BD20	01		160
Technics SL-BD22	01	-	180
Technics SL-1210MklI	01		400
Technics SL-1200MkII	01		400
Thorens TD-180 AT91	01		210
Thorens TD-280 IV/UK	01		230
Thorens TD166 VI AT95E	01		370
Thorens TD-166 VI/UK/RB	01		400

	B 100 1	
OVER £500		
ludio Note AN-TT 2		995
Audio Note AN-TT 3		1,995
Audiomeca Romance	01	1,895
Audiomeca J1		3,500
lvid Volvere		1,399
wid Acutus		3,995
Basis 2000		1,995
Basis 2001		2,995
Basis Ovation II		5,400
Basis 2500		5,495
Basis 2800	01	7,495
asis Debut Gold Std III		8,200
Basis Debut Gold Vacuum		10,300
Chantry QT Level 2	01	705
learaudio Solution		925
learaudio Evolution		1,095

1,095 2,500 Clearaudio Revolution Clearaudio Reference Clearaudio Master Ref. 3,835 8,510 DNM-Reson Rota 1 3,100 01 DNM-Reson Rota 2 Garrard 501 5,278 695 695 Impulse Moskito 0 Kuzma Stabi S Kuzma Stabi Reference 3,750 Michell Gyro Spider Ed'n Michell Gyrodek Michell Orbe 1,995 N'ham HyperSpacedeck N'ham Mentor 2,600 N'ham Anna Log 5,500 Oracle Delphi 3,370 3,800 Oracle Delphi 15th Anniv Pink Triangle Tarantella II Pro-Ject Perspective Rega P25 Rega Planar 9 Reson RS1M 3,100 7,500 90,000 Reson Rota 1 01 Rockport Capella II Rockport Sirius III 0 Roksan Xerxes 10 Roksan TMS 1,295 2,745 SME Model 20/2 3,403

SME Model 30/2

SME Model 30/2A

Thorens TD-520 SMF Verdier Nouvelle Platine

Verdier Platine Verdier

Well Tempered Classic V

Well Tempered Reference

Wilson Benesch Full Circle

SOTA Comet

SOTA Millenia Stratosphere ST1 Technics SL-1200LTD

10,675 12,135 995

5,750 6,500

1.050

3,995

5,500

1,995

01

0

01

01

01

Turn over for a full round-up of all reviewed products!

#### THE WORLD'S MOST COMPREHENSIVE HI-FI LISTING. PROBABLY.



#### **Amplifiers**

he amplifier is at the heart of any hi-fi system, accepting the outputs from The amplifier is at the heart of any nimisystem, accoming the supplied with a various music sources, increasing the amplitude of their signal and then driving the loudspeakers to produce sound. One-box 'integrated' amps rule the roost at low-to-middle price points, but if you pay more, the low-level and highlevel signal processes are separated into preamp and power amp boxes, and even separate 'outboard' power supplies come into play. Another luxury is a separate amp for each stereo channel: such devices are known as monoblocks. Finally, output power and sound quality are not necessarily related. Some of the finest amplifiers outputs only 12 Watts, but will yield loudness aplenty when partnered with high-efficiency loudspeakers.

#### KEY TO SPECIFICATIONS

LINE INPUTS: Number of input | phono pickup cartridges. sockets for line-level (non-vinyl) REMOTE CONTROL: An infrasources such as CD players. tuners and cassette decks. MM PHONO INPUT: An input integral output for headphones. specially designed for moving POWER OUTPUT (Watts): magnet (high output) phono pickup cartridges.

MC PHONO INPUT: An input | RECEIVER: An amplifier with for moving coil (low output)

red handset to adjust volume etc. permits direct access to our faxed HEADPHONE SOCKET: An Our measurement of an amp's ISSUE NUMBER: The issue of RMS power output into 8 Ohms. Hi-Fi Choice in which an original built-in radio receiver (tuner).

FACTSBACK REFERENCE: review reprint service. For full info, see the Factsback advert on the penultimate page of the mag. review appeared.

BEST BUY

RECOMMENDED

SPECIFICATIONS

EDITOR'S CHOICE E

### Amnlifiera

STATUS	AIILD		fiers	LINE INPUTS	O INPUT	EMOTE CON INPUTS	POWER OF HONE SOCI	OUTPUT KET	ISSUE NU EIVER W	MBER
	PRODUCI	(£)	COMMENTS	1 人	Y		NA.	<u> </u>		
	Affordable Valve Co. EL34	650	A real bargain on the face of it, but the sound is oh so soft, warm and old-valve. Too much of	f a good thing	4				40	202
-	Alchemist Kraken APD6A	599	Compact, with Darth Vader styling, yet sound quality is meek and mild, despite strong midbanc		5	•			55	175
0	AMC 3025a	140	Surprisingly potent and easy on the ear, if not especially analytical — classic bargain-basement r	naterial, in fact	4		•	•	30	171
0	AMC 3050a	170	Tremendous value for money, and a full, big, if rather uninformative sound		4		•	•	45	167
0	Arcam Alpha One	230	Rather like an Alpha 7 but without the remote control and what appears to be better sound	quality still	6			•	35	186
	Arcam Alpha 7R	300	Decent, if slightly system fussy amplifier that no longer pulls all the right strings		5	•	•	•	45	196
0	Arcam Alpha 8R	380	The Alpha 8R sets a high level of resolution and stability, and has some useful features for ho		5	•	•	•	50	192
_	Arcam Alpha 9	500	Not quite a match for the Alpha 9/9P combo, the solo integrated is nevertheless colourful and	. ,	7	Market 1	•	•	70	168
0	Arcam Alpha 10	800	Although not the best sounding in its class, the Alpha 10's modular nature demands it be taken	seriously	5		•		100	181
0	Arcam FMJ A22	1,0 <b>0</b> 0	Powerful, articulate, and expandable into a home cinema or multiroom amp/controller		7		•	•	100	201
E	ATC SIA2-150	1,984	An impressive sounding integrated amp with a dynamic, open and detailed sound		4		•		150	192
-	Aria S2	1,000	Glamorously packaged valve amp produces a real eyes closed, feet up kind of sound		4				12	190
0	Audio Analogue Puccini	450	Superbly finished, the entry-level Audio Analogue performs way out of its class	talit.	5	•			40	175
ا ما	Audio Analogue Puccini SE	595 999	Upgraded, more powerful Puccini is disappointingly sluggish and curiously lacking in musical vi		5	-			40 100	181 175
	AVI S2000MI		Fine, detailed amplifier with excellent timing and strong control of a wide range of loudspeaker		5				ALCOHOL: SECTION	175
	Bryston B60R Cambridge Audio A500RC	1,249 200	Great build, but the lazy bass and opaque treble bracket an articulate midband. Comes with 20 yill Solid value, decent build and a surfeit of watts make this an attractive proposition, but it can so		6		•	•	60 50	175
_	Canary Audio CA-608	1,495	If you value the grand scheme of things and appreciate a bit of dynamic vigour this could be		4				24	202
- 0	Copland CSA8	945	Sophisticated yet transparent, this is one of those amplifiers that sounds good even when the g		5				60	168
_	Copland CSA 28	1,249	Elegant Scandinavian cool, abundantly detailed if somewhat system dependent	1033 Fla3 WOTT OII	5	•	•		60	189
Ψ -	Copland CTA 402	1,698	A unusually flexible valve amp with an attractive and textured sound		5	•			35	193
-	CR Developments CR324	569	Solid and capable on paper, this is a bit of a blunt instrument when let loose on the music		5				150	181
	Cymbol CA1	499	Lacklustre amplifier tends to underperform with complex material. Best with straightforward comp	act loudspeakers	6				40	178
-	Creek 4330	279	Diminutive but classy amp will drive anything, and can be specified in various configurations	det loudspeakers	4	•			40	192
-	Cyrus Illi	598	Beautifully presented, but mid-dominated balance was not liked. Upgradeable using PSX PSU u	nit	5	•	•		50	162
	Cyrus 7	700	Welcome return to form for the Cyrus stable: this is the best sounding audio brick around	THE	6	allege et	•	•	60	196
1 2	Denon PMA-250SE	140	This amp can sound rough when extended, but within its limits it is open, detailed and likeable		5			•	30	171
0	Denon PMA-350SE	180	Reinvented in the minimalist tradition, this SE model is a control freak, but can sound wonderfu		5	Fried II		•	50	162
1	Denon PMA-535R	230	The kind of amp they made in the 70s, dressed to the nines, and nowhere to go		5	•	•	•	50	192
	Denon PMA-725R:	350	Warm, bold, up-front presentation, but musically unexciting		5		•	•	97	157
0	Denon PMA-1500R	500	Recommended for its outrageous power, especially with problem speakers		5	• •	•	•	70	181
0	Densen Beat B-100 MkII	650	High 'air guitar' factor, and can punch above its weight, but check it will complement your systematical systems.		5				60	175
	Densen DM-10	1,375	Big, bold and expressive amplifier, but sometimes rough around the edges, and not as power	rful as it appears	6				75	189
	Edmund Audio ESI10	400	Honest but unexciting straight line amp from REL associate company		6				85	192
	Electrocompaniet EC1-3	1,000	Basically good, but too many rough edges to warrant recommendation		6	Marie S	•		75	201
	Graaf Venticinque	1,790	Smart and practical, but it just never seems to shine sonically		6				25	202
0	Harman/Kardon HK630	200	Sharp, clean but sometimes slightly raw-sounding budget amp		4	•	•	•	40	192
	Harman/Kardon HK690	530	Bold, dynamic amplifier with plenty of balls, but not the most sophisticated sound on earth		6	•	•	•	100	196
	Holfi Audis Signature	750	A 'no-feedback' circuit giving outstanding resolution, but significant load dependency		4	•			65	181
	JoLida 202	695	Well-built and technically accomplished, affordable valve integrated with subtle refined, if not quite g	ripping sound	4				40	168
	JVC AX-R5	200	Versatile, and lots of even-handed, articulate detail; but let down by superficiality	r.	5	•	•	•	45	149
	Kenwood KAF-3010R	180	Plenty of twiddly bits yet weak on inputs, and basically good, but somewhat uneven sound of		4	•	-	-	70	186
	Kenwood KA-5090R	300	Large, well equipped and high tech integrated, but TRAITR output still gives a harsh, unsubtle p		5		•	•	65	171
	Krell KAV-500i	5,000	More at home in background listening/home cinema applications than out-and-out audio ma	aniac set-ups	5		•		250	192
1.2	Lundahl Mag Amp	1,735 265	Unusual valve/magnetic amp hybrid with relaxed balance and good timbre	loss of darity	5			•	23	196 171
_	Magnum IA120	330	Mirror finish amplifier with bold, colourful delivery, but needs careful system matching to avoid Gives a realistic sense of instruments playing within a very believable acoustic; preserves colour		6				65 96	1/1
	Magnum IA170 Magnum IA200	599	Sweet, valve-flavoured solid state ampli er which flatters where it doesn't cast light	and dynamics	7				160	162
0	Magnum Class A SE	795	A MOSFET amplifier drawing inspiration from the world of valves, this is an erratically refined, or	detailed amplifier	5				80	175
	Marantz PM-6010SE	229	Good starter amplifier, with characteristic smooth, low key delivery	remien ambilliel	5		•	•	50	175
	Marantz PM66 KI-Signature	400	It knows how to rock and roll with holographic detail and stereo, but prefers small/medium scale a	courtic material	5				50	168
9	Marantz PM-17	900	Probably worth it for the WBT terminals and other build features alone, but this model doesn't		6				60	181
-	Marantz PM-17 KI-Signature	1,300	Full feature audiophile amp where the end results don't quite justify the fantastic ingredients	anig as it siloulu	6				60	189
	Monrio Asty	400	Engaging, but ill-disciplined, even OTT amplifier with unpredictable system compatibility		5	1/0			55	178

Am	plifiers
PRODUCT	(E) COMMENTS

SPECIFICATIONS
LIAM POMC PLE REMEADED POWER SEC.
MM PHONO INFORMATION TO COMPUT IND INFORMATION INFORMA
SOTS WOL CKET WO SER

₹					.3		.01	MET	-	A 10
15	PRODUCT	(£)	COMMENTS		/	V	<b>V</b> 1	✓ ▼	V	<b>V V</b>
0	Musical Fidelity E1	199	Richly flavoured tone and realistically-scaled imagery distinguish this entry-level Richer Sounds special	6	5			1	30	171
١٣	Musical Fidelity E11	299	Well built minimalist amp with a five year guarantee, but can sound congested when extended	6	1000000				60	178
0	Musical Fidelity X-A1	479	Idiosyncratic visuals just another plus for an amp that is powerful, well built, and serves the music superbly	6				300	50	181
ľ	Musical Fidelity A3	849	Similar to the XA-100R internally, and a little too relaxed for some		5	•		1000	85	196
0	Musical Fidelity X-A100R	999	Sings like a thoroughbred, but better with Mozart than Mötörhead	6					75	189
١٣	MVL A2	970	Curiously designed, and curious sounding amplifier with Sound Sentinel circuits to address perceived weaknesses	9		•		•	100	201
	Myryad T-40	400	The T-40 is a well built and sensible, but needs more dynamics and finesse	6	1000	•		•	50	192
0	Myryad MI120	600	Well styled, well built: a good, even tempered amplifier, although it can sound rather brittle	E	-	_	•	1000000	60	175
0	NAD 310	100	Fleet and sure of foot, it seems likely to set all appendages tapping with its blend of enthusiasm and artfulness	1				1000	20	149
0	NAD C320	200	Excellent budget amp from the maker of the seminal 3020 offers better clarity and neutrality and good build	-					40	186
_	NAD C340	270	A classic NAD amplifier copes with any speaker, delivers plenty of power, and does so with calm decorum	6		•			50	192
0	NAD 317	470	Build quality aside, the current improved version is a real powerhouse, but smooth and detailed too	6				•	80	196
w	NAD S300	1,900	Substantial integrated with loads of power and no shortage of finesse, slightly bass-strong	5				55700000	100	189
0	Naim Nait 3	575	Distinctive and highly musical sounding integrated amp. Perhaps too distinctive for some tastes	5	-	-			30	154
Ö	Naim Nait 3R	780	Remote control variant of the basic Nait has a similarly dynamic credible sound but ultimately lacks power	5					30	189
۳	Opera Aida	795	Low power (in practice) minimalist integrated amp, but the mahogany wings don't help it to fly	5		•	•		60	201
	Pathos Classic One	995	Unusual looks and even more unusual electronic design, but compromised musical potential	5				1	55	202
0	Pioneer A-300R	200	Its bright and breezy sound is a natural tonic to those of us worn down by the ongoing stress of life	5		•		•	50	1149
0	Pioneer A-407R	230	Clean, consistent, finely detailed sound, good finish and (mainly) good build	5		•		•	45	186
0	Pioneer A-607R	300	Lively, articulate amp with plenty of drive and a hint of brightness	5	2000	•		•	60	192
0	Pioneer A-300R Precision	400	Sophisticated variant of the A-300R. Not an obvious winner, but it slowly plys you with its subtle charms	5					35	162
	Pioneer A07	999	Curious blend of high-end attributes and inconsistent, though undeniably detailed sound	5		•			80	175
0	Præcisa Acustica Sonoro	1,800	It is not often that transistor amplifiers are made to sound so palpably valve-like	5	290/5/200				100	189
0	Primare A10	500	Sharp, clean and agile sound quality, class leading build and an excellent control system – what more can you ask?	6	-				50	201
0	Primare A20 MkII	799	Everything except packaging has changed in Mk II version: but ballsier model has lost none of its refinement	5					70	181
0	Primare A30.1	1,499	Superb build and aesthetics, and undemonstrably musical down to its smallest screw	6					100	189
	Rega Elex	398	Minimalist amplifier, derived from Elicit, is a little uninspiring, although at least it is well behaved	4		•			50	162
	Restek Fantasy II	1499	Muscular, but ultimately rather strident amplifier which needs careful system matching	6	1000		•		100	189
0	Roksan Caspian	795	Mainstream Roksan line level amp works well under most circumstances	6	-	-			70	201
۱۳۰	Rose Scion	615	Unique two-box integrated gives real subtlety and low level resolution, but the sound lacks scale and weight	5		•	•		65	168
	Rotel RA-931	150	Rather dry and unforgiving sound from this internally well specified and attractively priced amplifier	4	20000	•			35	171
0	Rotel RA-971 MkII	225	Improved AR971 is a chip off the old block: bags of power, but with added precision and clarity	6					60	196
_	Sharp SM-SX100	10,000		n/	a				110	200
0	Sony TA-FB730R	200	Brilliantly sharp and realistic sound is offset by some obvious sonic flaws – and maxi feature set doesn't help	5		•		•	40	196
o	Sony TA-F448BE	250	Minimalist interface is matched to carefully considered circuit with satisfactory effect — but keep the volume in check	5		•		•	55	171
0	Sony TA-F3000ES	500	Champagne 'shoebox amp' may lack power reserves, but is quick and articulate. In every sense a knockout	5		•			35	178
•	T+A PA-1220R	1,445	Unique presentation and feature set, but sometimes rather relentless sound quality	7			•	•	100	189
	Tact Millennium Mk II	7,000	This digital class D amplifier represents a bold declaration on the future expansion of digital audio in the home	n/	la l				150	194
	TAG McLaren 60i	800	Clean, slightly antiseptic sound from this beautifully turned out entry level Audiolab 8000LX replacement	6				•	60	189
	TAG McLaren 60iRv	999	Looks, feels and sounds better than the Audiolab it supersedes. Smooth, open, refined but lacks body and drive	6			•	•	60	184
0	Talk Electronics Storm 1	500	Good soundstaging and strong detail are provided by this unassuming and not especially powerful model	6	4000	-		- Final	50	162
_	Talk Electronics Cyclone 1	550	Much improved build quality and silver finish, but the sound lacks physicality and can sound strained	6			•		65	196
0	Talk Electronics Storm 2	650	Crisp, clean, well defined sound, arguably lacking warmth, but a good midrange purchase overall	6	_		•		50	175
	Teac A-E2000	180	Has the potential to cause significant damage in the budget amp sector once the wrinkles are ironed out	6	CHECK !				50	195
	Technics SU-A660 Mk 3	200	Plenty of wellie for the price, but the sound can be a tad coarse and lacking in fine detail	5		•		•	37	186
	Technics SU-A808	300	Intriguing amplifier, with abundant detail but dynamically rather flat	6	49.00	•	•	•	55	196
0	Technics SU-A800D Mk 2	300	Two-box amplifier looks great, has plenty of gadgets, and makes good, if slightly overexuberant, music	5	1000	•	•	•	55	178
	Technics SU-A900D Mk 2	400	Looks like a pre/power amplifier, but in effect it's an integrated, with a rather soft-centred sound to match	5		•		•	70	175
0	Token Audio K50	350	Stainless steel finish, others available. Sound is warm and attractive, though a little undynamic	5					50	186
	Tube Technology Unisis Sig	2,400	A very attractive product which combines many classic valve attributes to good effect	5		•			30	202
	Yamaha AX-392	170	Standard budget fare, and it's easy to pick holes, but in undemanding surroundings it works creditably	6		•	•	•	60	192
0	Yamaha AX-492	220	Powerful, well equipped amplifier at an attractive price, offers powerful and engaging music-making	5	-	•		•	85	178
	Yamaha AX-592	280	Fine, middle ranking amplifier, with a detailed midband but performance declines at frequency extremes	5		•		•	100	171
	PREAMPLIFIERS									
	Amp Flux System 2	3,000	Three-box affair with a clean, spacious sound and plenty of slam. A touch steely, but undeniably potent	5			•	•	50	187
l i	Alchemist Kraken APD7A MkII		Unusual looks and unusual sound too, rather rough and lacking detail	6						187
0	Arcam Alpha 9C	400	Well specified and flexible preamp with sound only just lacking in greatness	6				•	J- 124	187
l	Audio Note M Zero	299	Neat shoe box-size preamp. Able to impart music with real life and soul when partnered with P Zero power amps	5				1		191
0	Copland CTA-301Mkll	1,249	Sweet sounding, but never gets bogged down in audio treacle	4	-	•				151
_		_	0 00		1000			100000	The state of the s	CONTRACTOR OF THE PARTY OF THE



Tel: 0208 348 5676 (2.00-7.00 pm)

Fax: 0208 341 9368

#### Esoteric High Fidelity CABLES

Dealers in: Absolute, Audio Note, Audioquest, Deltec, ← lectrocompaniet, Harmonix, Kimber, Mandrake, MIT, Siltech, Symo, Transparent, Van den Hul, WBT and others.

... the RIGHT cables ... in YOUR system ... for YOUR ears ... in YOUR home

Contact us by phone, fax, or letter and we'll do our best to help you achieve your goal. (Auditions may be subject to a handling charge)

CONNECTIONS 13 John Princes Street, London W1M 9HB (A division of Connection 90' Travel Ltd.)

**Amplifiers** 

SPECIFICATIONS

MM PMC PHONO PROPER COHONES OUTPUT NOT STANDING TO SOLITED THE NUMBER OF THE SOLITED T

STATU	TALL			'S INPL	INPUT.	ONTROL	CKET	WER	MBER
ST	PRODUCT	(£)	COMMENTS	V	V	V	V	V	VV
0	Creek P43R	350	Excellent sound, remote control operation and upgrade options from this fine value preamp	6			•		187
0	Crimson CS610	450	Good, clear sound, including a decent phono stage, but flexibility is limited	3	•	•	1469		187
	Cyrus aCA7	798	A decent enough unit at the price but not as good as the Cyrus aPA7 power amp it was tested with	5		•	•		190
	Densen Beat B-200 Levinson 380	1,000 3,995	A versatile preamp with a high 'air-guitar' factor and Densen's characteristic styling  True high end preamplifier combines precision and warmth with unusual configurability	6	•				191 195
E	LFD Mistral Linestage	449	Strong ergonomics, generally decent sound, but a little lacking in detail	6					165
1	Meridian 501	695	Tight, positive sound, but dispassionate; intense at high levels. (Tested with 555 power amp)	5	•		•		145
	Meridian 502	1,295	Extremely sophisticated analogue controller with tremendous flexibility and a fast and tidy presentation	7		•			162
	Michell Orca	1,650	Line-level design with a gorgeous remote and focused, spacious sound. (Tested with Alecto power amps)	6		•			187
	Moth 30 Active Line Stage	349	Excellent-sounding ultra-simple miniature preamp  Natural sounding transport preamp with world and inchile features. World beautifully with 160 pages area.	4					165
0	Muse Model Three Musical Fidelity X-PRE	1,990	Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp  Cleverly configured preamp with many upgrade options, and open, lively and engaging sound	5		•			166 175
0	Musical Fidelity X-P100	800	Good long-term listening prospects; detailed and a little fruitiness (tested with X-A200 power amp)	6	•	•			200
Ö	NAD 114	270	Beer-budget preamp which sounds focused, detailed and consistent	6	•	•	•		165
Ö	NAD Silverline S100	600	Beautifully built kit that sounds as good as it looks (tested with S200 power amp)	7		•			200
	Naim NAC92R	630	Upgradeable preamp uses proprietary socketry. (Tested with NAP90 power amp)	5		•			165
٦	Naim NAC102	1,000	More of a 'character act' than a neutral reproduction system, majors on excitement at the expense of subtlety	6		•			200
0	Rega Hal Rotel RC-971	998 150	Passive line stages dedicated to Exon power amps  Low price is offset by rather coarse sound quality with certain types of music. (Tested with RB-971 power amp)	5		•	•		165 178
	Rotel RC-995	525	Highly capable, though less astonishing value than matching RB-991 power amp (tested as pair)	6	•				200
	Samuel Johnson pca100	1,800	Stylish wood and metal facia - precise, clean sound with an emphasis on leading edges	6		•	•		201
	TAG McLaren PA20R	1,500	Refinement of Audiolab original with clean, detailed sound but limited thrill power. (T/w 125M monoblocks)	6		•	•		184
	Talk Hurricane 2L Technics SU-C3000	649 2,997	Design of integrity which gets to the heart, if not the soul, of the music  Price includes SE-A3000. Supremely clean and even sounding combo, though it could be more musically involving	6 5	•				165 188
1	Technics SU-C1010	300	Although the sound's basically all there, it's arguable that a good integrated offers more, for less	6	•	•			200
1	POWER AMPLIFIERS								
	Alch. Kraken APD8A Mk II	549	Unusual looks and unusual sound too, rather rough and lacking detail	1				55	187
0	Arcam Alpha 9P Arcam Alpha 10P	400 600	Clear, colourful and well-disciplined, the Arcam is a strong all-rounder that can compete with conviction  Well made and flexible: upgradeable to 3 channels. Good sound lacking the last degree of detail	1				100	165 187
0	Audio Note P Zero	599	Neat shoe box size valve monoblocks, priced per pair. Impart music with life and soul. (Tested with P Zero preamp)	1				100	191
E	Border Patrol 300B SE	3,995	Single ended valve power amp with passion, grace and fire, and plenty of grunt to boot	1				8.5	186
ľ	Cary CAD 2A3SE	1,575	Monoblock valve power amp. Low power but gives delightful speed, coherence and transparency	1	# 17		N. Control	5	196
	Copland CTA-505	2,099	Grown-up amplifier with a refined, yet never over-civilised air	1				67	151
	Chord SPM-4000	8,500	Sound is as stylish as its appearance is bold. Probably one of the best amps you are likely to hear	1	He Little			410	202
0	Creek A52SE Crimson CS630	599 800	Well designed and built amplifier with plenty of power, detail and refinement  Space-saving slimline monoblocks with both grunt and finesse	6				100	187 187
0	Crimson 620C	875	Not entirely satisfactory power amp which has dynamic strengths, but underachieves when the volume is raised	1				50	181
	Cyrus Power	498	Detail and midband clarity and stand-out qualities. Smooth and refined with most types of music but bass-soft	1	1.70			50	183
	Cyrus aPA7	1,896	Low feedback design that's a positive departure from the transistorised norm. (Tested with Cyrus aCA7 pre)	1				150	190
0	Densen B-300	800	Expensive but highly musical. Colourful and and warm sound with strong timing and listener involvement	_ 1		88 Z		100	183
0	ECA Lectern	880	Tested with Vista. Wind up the volume and blow a breath of fresh music into your system	1				50	145
E	Gamut D200 Levinson 334	2,995 5,495	Single MOSFET pair per side gives tremendous resolution and timing (balanced only). Formerly Sirius  A mailed fist in a velvet glove; refined, authoritative and transparent	1				200 125	183 195
E)	LFD Mistral Power	449	Infectious upper band vitality, but LF dynamics lacking — likewise 'grip' and transparency	1				60	165
E	Mana Stealth MA-1	4,800	A monoblock with an uncanny ability to drag you into the music, and spend half the night sitting up listening	2				200	199
	Meridian 555	750	By providing an open window on the music, this amp is wide open to RF and low level IM distortions	- 1				60	145
	Michell Alecto Monoblocks	1,950	Hefty beasts offering real power and striking imaging. Not the last word in timing. (Tested with Orca preamp)	1				100	187
	Moth 60 Watt Stereo  Moth 30 Series Monoblocks	599	Miniature power amp lacks control and finesse — not comfortable with difficult speaker loads  Tested with Active Preamp. Demonstrated solid balance and proved adept at delivering vital musical qualities	1				60	165 155
0	Musical Fidelity X-A50	879 500	Cleverly configured and attractively packaged, open, lively and engaging sound. Reviewed with X-PRE	1				100 50	175
6	Musical Fidelity X-A200		Good long-term listening prospects; detailed and a little fruity (tested with X-P100 preamp)	1	NAME OF			200	200
١٣			Powerful smooth sound with tremendous bass extension. Capacity to fulfil the demands of the most dynamic material	-1				350	199
	Myryad MA120	450	Based on MI120 integrated – see latter for comments, but sounds significantly better when bi-amped with MI120	1				60	165
0	NAD 214	370	A little lightweight, but detailed, consistent sound quality, and excellent value for money	1				80	165
0	NAD Silverline S200 Naim NAP90	1,400 450	Beautifully built kit that sounds as good as it looks with heaps of power (tested with \$100 preamp)  Power amp from a Nait integrated with some improvements	1				200 30	200 165
	Naim NAP180	1,122	More of a 'character act' than a truly neutral reproduction system, majors on excitement at the expense of subtlety	1				60	200
1	Samuel Johnson ppa100	2,200	Stylish wood and metal facia - nimble, high resolution and highly coherent sound	1				50	201
	Technics SE-A1010	350	Although the sound's basically all there, it's arguable that a good integrated offers more, for less	1	B COL		•	90	200
	Technics SE-A3000	2,997	Price includes SU-C3000. Supremely clean and even sounding combo, though it could be more musically involving	1			•	100	188
	Thule Spirit PA100 Rega Exon	600 1,196	More successful than matching preamp: sound is gutsy and lively, and generally clean  Monoblock, priced each, dedicated for Hal preamp. Bold, outgoing, in-command kind of sound	1				100	187 165
0	Roksan Caspian Power	595	Excels musically and in conventional hi-fi terms. A power amp for people with long-term satisfaction in mind	1				70	183
۳	Rotel RB-971	200	Somewhat better than the accompanying preamp — clean, mean and bridgeable. (Tested with RC-971)	1	The state of			70	178
0	Rotel RB-991	600	Top stuff and stunning value: rather outshone the matching RC-995 preamp (tested as pair)	1	N FV			200	200
	Rotel RB-980BX	450	Tames enthusiastically recorded material with a laid-back and occasionally smeared sound	1	00			120	155
	TAG McLaren 125M Talk Tornado 2	2,400	Refined Audiolab replacement monoblocks with clean sound but limited thrill power. (T/w PA20R preamp)  Good, but slightly retiring sound which lacks the authority to stand out in a crowd	1				145 65	184 165
	PHONO STAGES	600	Good, var signly realing sound which tacks the dutionty to stand out III d Clowd				EVA	03	100
	Clearaudio Symphono	740	Slightly inconsistent balance marrs the performance of this lively performer	0		•			201
0	Creek OBH-9	160	A neat little unit with an essentially neutral and listenable character	0		•			189
	Cyrus aEQ7/PSX-R	826	Very hi-tech product which tends too much towards smoothness except at climaxes, which can be rough	0	•	•	100	20	189
	Densen DP-Drive/DP-02 Electrocompaniet ECP-1	350 495	Quite unusual design in many ways: sound is mostly good but never quite shakes off a 'synthetic' quality  An excellent phono amp that combines well-rounded balance with detail and low noise	0					189 189
0	Moth 30 Series Phono	249	Fine sound all round, in any kind of music, from this bargain phono stage	0					189
0	Musical Fidelity X-LP2/X-PSU	628	An enjoyable listening experience in its way, but a bit short on inner details	0	•	•			201
	NAD PP-1	40	A basic phono stage that does its job rather coarsely: a bit bass-shy too	0	•				189
0	Pass Labs XOno	2,995	Not absolutely neutral, but the overall result is so beguiling it's hard to resist	0	•	•	SIT S		201
0	Primare R-20	500	Fights a little shy of densely scored music, but generally an enjoyable and neutral performer	0	•	•			201
0	Pro-Ject Phono Box QED Discsaver DS-1	40 35	Moving-coil compatibility is a dubious extra in a way, but MM performance is acceptable at this giveaway price It's cheap, it's cheerful, it's OK – perfectly adequate for use with a phono-less integrated, though not very refined	0					201 189
0	Roksan Artaxerxes X/DS1.5	1,150	Delicate and well balanced, slightly congested at climaxes. Power supply expensive, but runs two Roksan components	0	•	•			189
$\Box$	114 WELCHOICE Contam						138		

# Amplifiers PRODUCT (£) COMMENTS TAG McLaren PPA20 1,549 One of the best-equipped phono stages available of the total content of the product of the product

SPECIFICATIONS

MM PHONO PHONO POPE CONTROL RECEIVER NUMBER
LINE INPUTS

INPUTS

INPUTS

INPUTS

INPUTS

					_				-		
2	PRODUCT	(£)	COMMENTS			<b>V</b>	V	V		V	
	TAG McLaren PPA20	1,549	One of the best-equipped phono stages available. Resolution is excellent, but timing is marginally behind the best	0	•	•					187
0	Tom Evans The Groove	1,500	Plenty of detail, excellent imaging and almost flawlessly neutral: a good choice for information retrieval off any LP	0		•					201
	<b>MULTI-CHANNEL AMPLIF</b>	IERS									
0	Arcam Alpha 10 DAVE/10P	2,500	Packed with a diversity of electronics that against engineering odds sounds extremely good	5			•	•	110		198
ı	Cyrus AV5	1,000	Few processors are as adept with music. An effective multi-channel solution for music fans	4			•		N/A		201
0	Denon AVR-3300	800	Not as powerful as Denon daims, but nonetheless capable of impressive high-fidelity multi-channel sound	4			•	•	75	•	198
0	Marantz SR5000	500	Something of a rough diamond, but a powerful and entertaining package	5			•	•	105	•	198
	NAD T770	1,000	Lacks both transparency and subtlety while the omission of dts will be a drawback for some at this price	5	120		•	•	90	•	198
	Nakamichi AV-10	1,000	A very powerful AV receiver that's easy to install and set-up with a civilised and subtle performance	4			•	•	140	•	198
	Pioneer VSX-908RDS	1,000	A flexible heavyweight AV receiver whose sound is just a little too stodgy and lacking in crispness	4			•	•	80	•	198
0	Roksan Caspian DSP	2,290	A potent combination offering the bare essentials of DD and dts decoding	4			•		130		198
0	Rotel RSP-985/RPB-985 MkII	2,225	The hugely versatile processor is the weaker subjective link in this otherwise impressive combo	3			•		130		198
ı	Sony TA-E9000ES/N9000ES	2,300	Big, gold, powerful and remarkably versatile but fails to cut the sonic mustard	5	100		•	•	110		198



#### Cables

- ables are an integral part of a hi-fi system, required to connect source components to amplifiers, and the latter to speakers.
- Analogue Interconnects connect source components and amplifiers, and run between pre and power amps. They are priced for one-metre terminated pairs.
- Digital interconnects connect CD transports to DACs or digital recorders.
   They come in optical and electrical varieties, the former being made of plastic or glass. The prices shown are for a terminated linear metre.
- Speaker cables are used between the amplifier and speaker. Our prices are per unterminated metre. Termination (plugs and soldering) costs vary.

#### KEY TO SPECIFICATIONS

 SYMMETRICAL: A twisted pair of conductors.

- CDAXIAL: A central 'hot' conductor and a shield that carries the negative signal.
- STRANDED: Multiple strands with no intervening insulation.
- SOUD CORE: Single or multiple, individually insulated strands.
- COPPER: Material used for conductor.
   SILVER: Material used for conductor.
- DIG CABLE TYPE: O optical digital; E - electrical digital for CD Players, DACS and digital recorders.
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback ad on the penultimate page of the mag. ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

**BEST BUY** 

RECOMMENDED

E EDITOR'S CHOICE

### Cables

SYMMETRICAL STRANDED CORE SILVER STREET TYPE

(E) NNECTS ( 89 18 35 99 179 60 99 35 65 30 Ref 40 0 100 90 39 40 145	Not entirely neutral: probably best suited to upbeat music. Very stiff construction  Not especially impressive: warm but well-rounded balance that restricts 'air' but is quite clear  Neutral but lacking in subtle texture and unable to distinguish fine detail  Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass  15 individually insulated silver strands make up this very clean and dynamically unchallenged cable  Well made but let down by a pervading sense of muddle and congestion in the sound  Slightly forward imaging hardly detracts from its excellent tonal qualities and detail  Slight roughness in loud music barely detracts from a well-balanced performance with good imaging  A first-class performer from tonal, dynamic and rhythmic standpoints  Lacks subtlety and bass impact but is otherwise quite serviceable for the price  Dynamic cable with strong soundstaging and only a slight lack of detail  Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	0	•			188 108 131 131 133 188 200 176 160 176 160
89 18 35 99 179 60 99 35 65 30 Ref 40 50 90 39	Not entirely neutral: probably best suited to upbeat music. Very stiff construction  Not especially impressive: warm but well-rounded balance that restricts 'air' but is quite clear  Neutral but lacking in subtle texture and unable to distinguish fine detail  Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass  15 individually insulated silver strands make up this very clean and dynamically unchallenged cable  Well made but let down by a pervading sense of muddle and congestion in the sound  Slightly forward imaging hardly detracts from its excellent tonal qualities and detail  Slight roughness in loud music barely detracts from a well-balanced performance with good imaging  A first-class performer from tonal, dynamic and rhythmic standpoints  Lacks subtlety and bass impact but is otherwise quite serviceable for the price  Dynamic cable with strong soundstaging and only a slight lack of detail  Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•	•	•		108 131 131 131 188 200 176 160 176 160 188
18 35 99 179 60 99 35 65 30 Ref 40 100 50 90 39 40	Not especially impressive: warm but well-rounded balance that restricts 'air' but is quite clear  Neutral but lacking in subtle texture and unable to distinguish fine detail  Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass  15 individually insulated silver strands make up this very clean and dynamically unchallenged cable  Well made but let down by a pervading sense of muddle and congestion in the sound  Slightly forward imaging hardly detracts from its excellent tonal qualities and detail  Slight roughness in loud music barely detracts from a well-balanced performance with good imaging  A first-class performer from tonal, dynamic and rhythmic standpoints  Lacks subtlety and bass impact but is otherwise quite serviceable for the price  Dynamic cable with strong soundstaging and only a slight lack of detail  Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•	•	• • • • • • • • • • • • • • • • • • •		108 131 131 131 188 200 176 160 176 160 188
35 99 179 60 99 35 65 30 Ref 40 0 100 50 90 39	Neutral but lacking in subtle texture and unable to distinguish fine detail  Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass  15 individually insulated silver strands make up this very clean and dynamically unchallenged cable  Well made but let down by a pervading sense of muddle and congestion in the sound  Slightly forward imaging hardly detracts from its excellent tonal qualities and detail  Slight roughness in loud music barely detracts from a well-balanced performance with good imaging  A first-class performer from tonal, dynamic and rhythmic standpoints  Lacks subtlety and bass impact but is otherwise quite serviceable for the price  Dynamic cable with strong soundstaging and only a slight lack of detail  Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•	•	0		131 131 131 188 200 176 160 176 160 188
99 179 60 99 35 65 30 Ref 40 0 100 50 90 39	Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass  15 individually insulated silver strands make up this very clean and dynamically unchallenged cable  Well made but let down by a pervading sense of muddle and congestion in the sound  Slightly forward imaging hardly detracts from its excellent tonal qualities and detail  Slight roughness in loud music barely detracts from a well-balanced performance with good imaging  A first-class performer from tonal, dynamic and rhythmic standpoints  Lacks subtlety and bass impact but is otherwise quite serviceable for the price  Dynamic cable with strong soundstaging and only a slight lack of detail  Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•	•			131 131 188 200 176 160 176 160 188
179 60 99 35 65 30 Ref 40 0 100 50 90 39	15 individually insulated silver strands make up this very clean and dynamically unchallenged cable Well made but let down by a pervading sense of muddle and congestion in the sound Slightly forward imaging hardly detracts from its excellent tonal qualities and detail Slight roughness in loud music barely detracts from a well-balanced performance with good imaging A first-class performer from tonal, dynamic and rhythmic standpoints Lacks subtlety and bass impact but is otherwise quite serviceable for the price Dynamic cable with strong soundstaging and only a slight lack of detail Good bass but a lack of detail and differentiation of instruments Good, strong sound with full-bodied music, less happy with smaller forces Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance Canary yellow cable with excellent plugs and an open sound. Slight treble glare Seemed a little harsh in the test system, but can work well and should be tried	•	•	•		131 188 200 176 160 176 160 188
60 99 35 65 30 Ref 40 0 100 50 90 39	Well made but let down by a pervading sense of muddle and congestion in the sound Slightly forward imaging hardly detracts from its excellent tonal qualities and detail Slight roughness in loud music barely detracts from a well-balanced performance with good imaging A first-class performer from tonal, dynamic and rhythmic standpoints Lacks subtlety and bass impact but is otherwise quite serviceable for the price Dynamic cable with strong soundstaging and only a slight lack of detail Good bass but a lack of detail and differentiation of instruments Good, strong sound with full-bodied music, less happy with smaller forces Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance Canary yellow cable with excellent plugs and an open sound. Slight treble glare Seemed a little harsh in the test system, but can work well and should be tried	•	•		•	188 200 176 160 176 160 188 176
99 35 65 30 Ref 40 0 100 50 90 39 40	Slightly forward imaging hardly detracts from its excellent tonal qualities and detail  Slight roughness in loud music barely detracts from a well-balanced performance with good imaging  A first-class performer from tonal, dynamic and rhythmic standpoints  Lacks subtlety and bass impact but is otherwise quite serviceable for the price  Dynamic cable with strong soundstaging and only a slight lack of detail  Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•	•	•	•	200 176 160 176 160 188 176
35 65 30 Ref 40 0 100 50 90 39 40	Slight roughness in loud music barely detracts from a well-balanced performance with good imaging A first-class performer from tonal, dynamic and rhythmic standpoints Lacks subtlety and bass impact but is otherwise quite serviceable for the price Dynamic cable with strong soundstaging and only a slight lack of detail Good bass but a lack of detail and differentiation of instruments Good, strong sound with full-bodied music, less happy with smaller forces Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance Canary yellow cable with excellent plugs and an open sound. Slight treble glare Seemed a little harsh in the test system, but can work well and should be tried	•	•	•	•	176 160 176 160 188 176
65 30 Ref 40 0 100 50 90 39 40	A first-class performer from tonal, dynamic and rhythmic standpoints  Lacks subtlety and bass impact but is otherwise quite serviceable for the price  Dynamic cable with strong soundstaging and only a slight lack of detail  Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•	•	• •	•	160 176 160 188 176
30 40 0 100 50 90 39 40	Lacks subtlety and bass impact but is otherwise quite serviceable for the price  Dynamic cable with strong soundstaging and only a slight lack of detail  Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•	•	•	•	176 160 188 176
Ref 40 100 50 90 39 40	Dynamic cable with strong soundstaging and only a slight lack of detail  Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•	•	•	•	160 188 176
0 100 50 90 39 40	Good bass but a lack of detail and differentiation of instruments  Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•		•	•	188 176
50 90 39 40	Good, strong sound with full-bodied music, less happy with smaller forces  Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance  Canary yellow cable with excellent plugs and an open sound. Slight treble glare  Seemed a little harsh in the test system, but can work well and should be tried	•		•	•	176
90 39 40	Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance Canary yellow cable with excellent plugs and an open sound. Slight treble glare Seemed a little harsh in the test system, but can work well and should be tried	•		•	•	The second secon
39 40	Canary yellow cable with excellent plugs and an open sound. Slight treble glare Seemed a little harsh in the test system, but can work well and should be tried	•		•	•	100
40	Seemed a little harsh in the test system, but can work well and should be tried	•				188
-					•	160
145	C-ft d llini bitithid -l	•		•	•	200
	Soft sound lacking in bite, with excessive and plummy bass (NB sample used in review was only 0.5m)	•		•	•	176
47	Mostly good sound is let down by pervasive dryness			•	•	176
85	Very good detail and imaging: perhaps a touch bass-light		•	•	•	200
20	Open and detailed presentation, full bass and silky if overly smooth treble		•	•	•	131
39	Lumpy bass, grainy treble, and poor integration. Nice colour, though	•		•	•	176
45	Even-handed and generous sound, bass has a well-rounded, bouncy quality		•	•	•	131
60	A bit bright and undynamic, this cable is nevertheless a good all-rounder, whose faults are largely subtractive		•	•	•	160
90	Nothing badly wrong, just a little bit bland and outshone by others at the price	•		•	•	200
100	A cable with personality: its veiled and shut in quality bring an earthiness to vocals and rhythm guitar alike		•	•	•	131
68				•	•	188
110		•		•	•	176
100		•		•	•	108
200		•		•	•	100
60		•		•	•	160
85		•		•	•	188
145		•		•	•	176
50			•	•	•	188
60				•		176
30				•	•	176
70		•		•	•	188
90		•		•	•	200
	A moderate performer, with a little coloration and a tendency to lose bass at climaxes	•		•	•	188
75			•	•	•	160
35	Dynamically sensitive and muddle-free. We're unsure about the flesh-coloured finish, though			•		160
	110 100 200 60 85 145 50 60 30 70 90	Assured sound, solid and natural bass and clear treble — excellent performance all round  Slight roughness detracts from some music; seems well suited to rock and jazz. Lively and detailed  Offers a full sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy  Detailed, but there's a sense of distance between music and listener: vocals are coarse rather than liquid  Flat black cable that is distinctive but slightly coloured — but not in a wholly negative manner  Good tone and dynamics, with just occasionally a touch of bass-lightness in busy music  Very good bass and only slightly grainy treble add up to a well integrated, natural-sounding cable  Extended bass, but dry character suits electronic music better than acoustic  A good cable in every way, with just the occasional hint of coloration and coarseness  Very well balanced, refined and detailed, this is everything a good cable should be, and excellent value  Some coloration and roughness in the midrange and treble, but bass is gratifyingly solid  A great cable for lovers of big sounds  A moderate performer, with a little coloration and a tendency to lose bass at climaxes  Pleasantly unfatiguing and competitively priced cable that lacks detail and insight	Assured sound, solid and natural bass and clear treble — excellent performance all round  Slight roughness detracts from some music; seems well suited to rock and jazz. Lively and detailed  Offers a full sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy  Detailed, but there's a sense of distance between music and listener: vocals are coarse rather than liquid  Flat black cable that is distinctive but slightly coloured — but not in a wholly negative manner  Good tone and dynamics, with just occasionally a touch of bass-lightness in busy music  Very good bass and only slightly grainy treble add up to a well integrated, natural-sounding cable  Extended bass, but dry character suits electronic music better than acoustic  A good cable in every way, with just the occasional hint of coloration and coarseness  Very well balanced, refined and detailed, this is everything a good cable should be, and excellent value  Some coloration and roughness in the midrange and treble, but bass is gratifyingly solid  A great cable for lovers of big sounds  A moderate performer, with a little coloration and a tendency to lose bass at climaxes  Pleasantly unfatiguing and competitively priced cable that lacks detail and insight	Assured sound, solid and natural bass and clear treble — excellent performance all round  Slight roughness detracts from some music; seems well suited to rock and jazz. Lively and detailed  Offers a full sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy  Detailed, but there's a sense of distance between music and listener: vocals are coarse rather than liquid  Flat black cable that is distinctive but slightly coloured — but not in a wholly negative manner  Good tone and dynamics, with just occasionally a touch of bass-lightness in busy music  Very good bass and only slightly grainy treble add up to a well integrated, natural-sounding cable  Extended bass, but dry character suits electronic music better than acoustic  A good cable in every way, with just the occasional hint of coloration and coarseness  Very well balanced, refined and detailed, this is everything a good cable should be, and excellent value  Some coloration and roughness in the midrange and treble, but bass is gratifyingly solid  A great cable for lovers of big sounds  A moderate performer, with a little coloration and a tendency to lose bass at climaxes  Pleasantly unfatiguing and competitively priced cable that lacks detail and insight	Assured sound, solid and natural bass and clear treble — excellent performance all round  110 Slight roughness detracts from some music; seems well suited to rock and jazz. Lively and detailed  100 Offers a full sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy  200 Detailed, but there's a sense of distance between music and listener: vocals are coarse rather than liquid  60 Flat black cable that is distinctive but slightly coloured – but not in a wholly negative manner  85 Good tone and dynamics, with just occasionally a touch of bass-lightness in busy music  145 Very good bass and only slightly grainy treble add up to a well integrated, natural-sounding cable  50 Extended bass, but dry character suits electronic music better than acoustic  60 A good cable in every way, with just the occasional hint of coloration and coarseness  30 Very well balanced, refined and detailed, this is everything a good cable should be, and excellent value  70 Some coloration and roughness in the midrange and treble, but bass is gratifyingly solid  90 A great cable for lovers of big sounds  75 A moderate performer, with a little coloration and a tendency to lose bass at climaxes  9 Pleasantly unfatiguing and competitively priced cable that lacks detail and insight	Assured sound, solid and natural bass and clear treble — excellent performance all round  110 Slight roughness detracts from some music; seems well suited to rock and jazz. Lively and detailed  100 Offers a full sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy  200 Detailed, but there's a sense of distance between music and listener: vocals are coarse rather than liquid  60 Flat black cable that is distinctive but slightly coloured – but not in a wholly negative manner  85 Good tone and dynamics, with just occasionally a touch of bass-lightness in busy music  145 Very good bass and only slightly grainy treble add up to a well integrated, natural-sounding cable  50 Extended bass, but dry character suits electronic music better than acoustic  60 A good cable in every way, with just the occasional hint of coloration and coarseness  30 Very well balanced, refined and detailed, this is everything a good cable should be, and excellent value  70 Some coloration and roughness in the midrange and treble, but bass is gratifyingly solid  90 A great cable for lovers of big sounds  75 A moderate performer, with a little coloration and a tendency to lose bass at climaxes  9 Pleasantly unfatiguing and competitively priced cable that lacks detail and insight

ISSUE NUMBER

176

188

200

176

188

200

188

200

160

200

131

.

•

.

.

.

.

.

.

RECTORY 0 F TESTED SPECIFICATIONS Cables DIG CABLE TYPE SYMMETRICAL COAXIAL STRANDED CORE COPPER SILVER SonicLink Black Nickel-plated copper with a slight dryness in the bass and a hint of treble roll-off don't compromise integration . • SonicLink Lilac 65 Some dryness can affect transient sounds, though tone is generally good, especially in the bass Sonicl ink Violet Better bass than treble - a little dry in the upper octaves Straight Wire Chorus 40 A very confident cable with good bass, though perhaps a shade of treble loss 0 Tonal balance favours lower frequencies but despite this it's a very listenable cable 0 Straight Wire Sonata Straight Wire Encore II 100 Slightly variable bass performance is a weakness in this otherwise capable cable . Excellent sound in all areas — nothing to critici Tara Labs Prism 22 64 Mild tendency to plumminess offsets some hardness in complex music with mixed results 0 Tara Labs Prism 55-i . 195 Good with laid-back music, but seems lazy with more exciting material Fine performance in all areas: just the smallest hint of sibilance. Very good value O van den Hul PB5 50 A highly neutral cable with fine dynamic and rhythmic performance too - excellent ø van den Hul Source HB 65 Price for 0.8m. Hybrid carbon-fibre/copper cable that is a paragon of naturalness O 0 van den Hul D102 MkIII HB 80 A fine cable, but the competition has crept up and it no longer leads the pack van den Hul The Second 275 Wonderfully open and relaxing but also intimately detailed, slightly softens percussive dynamics 0 DIGITAL INTERCONNECTS (PRICES PER TERMINATED LINEAR METRE) Audioquest Digital Pro A silver cable with all the drive of Video Z but lacking its clear-cut transparency 100 Chord Codac A connection with a stranded inner core and a sound that lacks integration . . Price for 0.6m length. Lively detailed treble, drives music along confidently with no hint of fizz Chord Prodac 50 0 25 Extended but soft-edged treble that's mercifully free of fatiguing colorations; plenty of weight, smooth Kimber Kable Opti-link Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most 50 0 Moth Leyline Datalink 140 A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive . A top performance, low-loss 75 Ohm coax with a very open, almost liquid quality 20 a Siltech HF-6 Sounds detailed, very clean and extended, but bass is less well resolved — a treat for high-end systems . SonicLink Green Spacious, positive and engaging if a bit over-crisp at times – very compelling, however 0 140 Exceptionally natural albeit slightly cautious compared to some. Plenty of subtle information and integration LOUDSPEAKER CABLES (PRICES PER METRE LENGTH) ALR Jordan OMM Generally neutral, if sometimes bass-shy, but not very communicative Audio Note AN-D Supplied in linear, non-polarised lengths that are twisted into stereo pairs. Sounds rather grippy and forward Audio Note AN-B 16.50 Well suited to valve systems, elastic bass, methodical but unintrusive and musical Audio Note AN-L 29.50 Fruity bass and expressive vocal rendition was appreciated by the panel, which was happy to accept its foibles • 0 0 Audio Note AN-SF A calm and civilised presentation, very quiet in the way it reveals subtle low level detail. Great poise and clarity . . Audioquest F-14 Ideal for laying under carpets. F-14 encourages a slightly warm and vibrant sound O Audioquest F-18 3.60 Slightly lumpy bass and lack of midrange detail: can also be a bit dry . . Audioquest Type 4 Four 18-gauge OFHC copper conductors wound in a Litz-type fashion increases capacitance but restrains 'bite' • Audioquest Type 6 9 A very inflexible cable in which the sonic ends don't quite justify the means . . Audioquest Slate Capable across the board, with just the smallest degree of dryness, but very listenable 0 Bandridge LC7409 Detailed and up-beat cable. A bit too steely for classical strings 0 Cable Talk Talk 3.1 Ouite well-balanced but tends to lose bass lines in complex music 0 Cable Talk Talk 4.1 4.25 Smooth and cultured sound that lacks fine detail and is a bit too restrained . Cable Talk Flat 2 Rather unexciting sound, with variable bass and dry voices Cable Talk Concert 2.1 8 Can make stereo images recede, and favours the upper bass . . DNM LSC350 Majors on midband and lower treble lucidity at the expense of bass and extreme treble extension . 17 Relatively vice-free cable with good detail throughout the range and generally neutral bass . 0 Chord Company Odyssey Chord Company Rumour 2 Performance is listenable enough but fails to excel in any area High impedance can influence the treble response, but this was a winner on sound per pound. Bi-wire O Excellent bass extension and very fine performance elsewhere - one of the best cables available all round Electrofluidics Monolith 2020 . 0 Slightly bright and not too subtle, but a perfectly acceptable cable for any starter system Gale XL189 A little lacking in detail but plenty of life and excellent value 0 Rhythmic and bouncy-sounding bi-wire cable. Can be slightly manipulative Gale XI 160-2 0 2.50 0 Goertz M2 Remarkably detailed, smooth, neutral and with excellent bass; check amplifier compatibility Hitachi LC-OFC Very crisp, very clear and very confident. In the right system would be very expensive to better . 0

108 . 108 131 131 108 108 . 131 131 183 109 . 133 133 109 109 . 192 109 183 203 157 . 168 . 157 203 192 168 203 . 203 157 168 . 109 A little midrange dryness, but bass is among the best at this price, strong and consistent Ixos Gamma 6003 0 Bass is better than treble, which can become spitty and sibilant - though only slightly 192 Ixos Gamma 6006 0 Considering the price, this cable's very slight dryness is forgivable when everything else is so right 0 Kimber 4VS 8.50 A good mix of virtues including particularly fine bass 183 a Kimber 4TC 18.80 A well-balanced cable with good performance in all areas . 168 0 Very capable in all areas, particularly good at imaging and with firm bass. Price for 5m terminated pair 348 Linn K20 4 Seems to work best with lively, unsubtle music - can be dry and edgy . . . 183 Naim NAC A5 A 'dinosaur of a cable', this stiff wire rod doesn't belong outside Naim systems, where it works a treat 109 Fair bass but confused treble and some coloration 168 Nordost Octava . . . 92 Nordost Flatline Gold II 9.50 Exciting sound but a bit too 'in-ver-face', and bass is not always even Ortofon SPK100 Grey-sounding - strips instruments of their natural richness and resonance. A bit bass-shy, too . 133 Ortofon SPK200 Good strong bass and fair detail, only slightly marred by a little dryness 183 0 O Ortofon SPK300 8 Tremendously open and atmospheric, with robust, full-blooded bass — if slightly bright at times . 133 Precious Metals SL102 Unusual construction gives rather strained sound, only really cheering up with simple musical textures 183 10 Profigold Silverflex LC8258 4 A pretty-looking cable that does little to offend but is let down by some congestion . . 203 Prowire Out of Sight Special-purpose cable for laying under carpets etc. Fair sound across the board 203 . . Puresonic 7845 1.95 Big, weighty sound – but too messy and bloated for its own good . 183 Puresonic 7891 2.85 Chunky cable design; shame about the sound quality . 157 **QED Qudos** 2.25 Despite high-tech design and excellent Air-Loc plugs, its music-making failed to gel . . 57 A few minor flaws but overall performance is very assured for this price a OED Profile 4x4 9 Good midrange and treble balance, but bass is rather slack and detail not outstanding 168 • **QED** Genesis Silver Spiral 30 Commendable bass, with a little dryness and mildly compromised imaging: good, but not the best at its price 203 116 HI-FI CHOICE September 2000

(	CONTINUED	SPECIFICATIONS	
STATUS	Cabl		TYPE NUMBER
S	PRODUCT	(€) COMMENTS ▼ ▼ ▼ ▼ ▼	<b>V V</b>
١.	SonicLink S300	18 Happiest with simple music; tends to smudge detail in complex pieces	168
0	SonicLink AST50	1.95 It may look like bell-wire, but AST50 sounds detailed, ordered and balanced	157
0	SonicLink AST75	2.95 Unusual materials and rather unusual performance too, strong on excitement and with plenty of bass	203
0	SonicLink AST150	3.95 Slightly plummy bass and a useful way of holding musical strands together	157
	SonicLink AST200x2	5.95 At its best with exciting music, this cable seems shy of subtler details	192
	Straight Wire Duo	3 Not so subtle and lacking some detail, but sound is consistent with level and musical style	203
	Straight Wire Rhythm	6 Its major flaw seems to be woolly and indistinct bass, which pervades most types of music	192
0	Straight Wire Quartet	8 A good all-rounder with full tone, clear detail and natural ambience	183
0	Supra Ply 3.4/S	6.95 Clean sound which stays together well at high levels, with full bass – perhaps a touch of treble restriction	183
0	Tara Labs Klara	2.95 A good budget cable with an even spread of virtues – and very minor vices – across the board	183
	Tara Labs RSC Prime 500	36 More suited to melodious music than anything with bite and drive, with only moderate detail	203
ı	TCI Python	7.99 No single major sin, but detail is not outstanding and rhythm isn't always completely solid	203
le	Townshend Isolda	50 Superb sound all round, and amplifier compatibility enhanced by included stabilising inductor	203
1	van den Hul The Clearwater	7.99 Despite its evocative title, the Clearwater turns out to be a disappointingly murky-sounding cable	109
ı	van den Hul Royal Jade	10.99 Lots of technology, but sound suffers from dryness and woolly bass	203
	van den Hul CS122 HB	13.99 Good dynamics can make for exciting sound, but fine detail suffers and the treble is often dry	192
	van den Hul The Magnum	40 Touted as vdH's most prestigious twin-lead cable, The Magnum sounds soft and old-fashioned	109
0	van den Hul The Wind	44 The Wind' kicks up a storm with its lush midrange and bone-crunching bass	109
ľ	van den Hul Revolution	80 Silver-plated OFC combined with carbon fibre prompts a sombre character with an easy and relaxed treble	133



Ortofon 510/P

Ortofon 520/P

Contridaca

#### **Cartridges**

artridges fall into two groups: high output MM (moving magnet) models, crapable of working directly into most phono inputs; and generally more expensive low- and very-low-output MC (moving coil) models. MC cartridges usually have better mechanical integrity, tighter tolerances and give better performance. Many amplifiers are no longer equipped with the necessary phono input for a cartridge, and a separate phono stage is necessary. Phono-input-equipped valve amps need a transformer to cope with MC cartridges.

Teven basic high-output MM cartridge designs will benefit from a customised amplifier input load. Consult your dealer for further details on this topic.

#### KEY TO SPECIFICATIONS

- MM: Moving-magnet cartridge with a normal output, suitable for all amplifier phono inputs.
- MC: Moving-coil cartridge with a low output, only suitable for high-sensitivity MC amplifier phono inputs.
- REPLACEABLE STYLUS: Most MM cartridges have a stylus (needle) that can be removed and replaced when worn out.
- OUTPUT (mV): Cartridge output in millivolts.
   MASS (g): The mass of your chosen cartridge
- affects the choice of partnering tonearm. Consult dealers or manufacturers to establish which arms and pickups work well together.
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback ad on the penultimate page of the mag.
- ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

B BEST BUY

RECOMMENDED

SPECIFICATIONS

E EDITOR'S CHOICE

	Cart	pi	idges	REPLA	CEABLL	TUTPL	MA	ISSUE (8)	NUMBE	
STATUS	PRODUCT	(£)	COMMENTS			STY	US	(8)	MBE	R
E	Allaerts MC1B	1,295	Highly capable and entertaining Belgian cartridge that warrants the finest turntable and phono stage you can afford					0.5		207
	Audio Technica AT-95E	20	Clear and dynamic, though richly balanced	-				2.8		203
0	Audio Technica AT-OC9ML	330	A well-finished cartridge with a sound that's smoothly detailed, but also rather unexciting			•		0.4	8	192
0	Clearaudio Signature	1,495	A great all-round performer with fine dynamic vitality and a seductive midband intimacy					0.55	11.5	175
0	Denon DL110	70	A fine all-rounder, this high output MC model is likely to perform well					1.0	6	48
U	Denon DL160	90	Although listeners just preferred the 110, its brother here survived lab tests and is still 'thoroughly competent'	_	CONTRACT OF THE PARTY OF T			0.1	6	43
	Denon DL103	100	Good performance in bass and good 'life'. Is seriously let down by its spherical stylus which kills subtle detail	- 1	-			0.1	6	103
0	Denon DL304	200	Uncoloured, detailed, tracks superbly. Top notch altogether, and a bargain at the price					0.1	U	103
0	Dynavector DV-20X L	299	Articulate-sounding, with impressive treble resolve, though lightweight at times. Needs a high quality turntable and arm			•		0.25	8.6	192
۳	Dynavector Karat 17D2 mk2	450	Clean and controlled sound with taut, tuneful bass. Detailed and musically cogent			•		0.15	5.3	158
0	Dynavector Te-Kaitora	1,698	A real smoothie, but pricey. Worth checking out for its delicate laid-back transparency and low needle-talk	-1				0.15	8.5	175
0	Dynavector XX-1L	998	Very clear, very detailed; a response lift around 20kHz seems to do no harm	-				0.25	12	84
۳	Dynavector XX-1	998	Good, but not immensely competitive at the price, and not helped by comparison with the low output version		2000			2.0	12	84
0	Goldring Elan	19	A lightweight and frisky-sounding MM apparently based on Nagaoka MM4 body				•	5.0	7	67
0	Goldring 1012GX	79	Slightly harsh but plenty of life and detail. Some high frequency coloration apparent				•	6.5	7	85
0	Goldring 1022GX	99	As with 1012, a touch harsh; detail and transient purity improved				•	6.5	7	85
0	Goldring Eroica LX	110	Not the most subtle cartridge in the world: can sound edgy at times, but lively and informative					0.5	8	84
۳	Goldring 1042	120	Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively, though		•		•	6.5	6	91
	Goldring Elite	220	The basics are right, and it will cheerfully tackle any source material, but its sound is not the cleanest					0.5	8	103
	Goldring Excel VX	525	Good bass drive but dull and imprecise higher up. An old-fashioned sound that falls short of the true high end					0.45	8	175
0	Grado Prestige Gold	149	Rich sounding with an unusually refined top-end for a moving magnet-type cartridge	- 1			•	4	6	158
ľ	Grado Reference	995	Loads of tracking headroom but treble is limited. A prospect for mid-oriented valve amp users		•			1.7	6.5	175
0	Linn K9	125	Linn improved this model by beefing up the Basik's bodywork and adding a super stylus		•		•	4.5	5	Col
ľ	London Decca Maroon	259	Now manufactured under the London brand name, this Decca cartridge is as iconoclastic as ever		•			5.0	6	67
	London Decca S Gold	399	Immediate and detailed, but coloured and nonlinear, with a questionable effect on records	7	•			5.0	6	84
0	Lyra Lydian Beta	599	A thoroughly enjoyable cartridge – smooth, agile and dynamic in character					0.5	8	192
0	Lyra Lydian	649	Superbly capable all-round musical performer that improves markedly when its body cover is removed					0.3	7	158
0	Lyra Clavis Da Capo	995	A stable tracker, and one of the finest cartridges we've heard					0.1	7	143
	Lyra Parnassus D.C.t	1,895	A real little jewel of a cartridge, with many good qualities, but handicapped by a rather too obvious treble peak			•		0.22	10.5	175

For the price, a good blend of virtues - weight, clarity and neutrality

Sensitive to load capacitance, but the 520/P has a lively, effervescent sound

September 2000 HI-FI CHOICE 117

### Cartridges

MC CABLE STYLUS

-	The Residence of the Control of the		-	-00-		-		
ST	PRODUCT	(E) COMMENTS	▼ .	V	•	V	•	V
0	Ortofon MC3 Turbo	130 The 3 Turbo is bright, cheerful and bouncy, but unsubtle – take it as it comes		•		3.3	4	103
0	Ortofon MC15 Super II	130 A good all-rounder, with outstanding resolution, if slightly bright and close up		•		0.35	7	103
	Ortofon MC25E	180 An excellent upgrade for a mid-price turntable		•		0.5	11	139
1	Ortofon MC25FL	250 A bit too stark and honest, but faithful to what's on the LP		•		0.5	. 11	139
0	Ortofon MC 10 Supreme	300 A full and cultured-sounding cartridge, with collective attributes far outweighing its shortcomings		•		0.5	10.7	192
	Ortofon MC30 Supreme	525 Highly detailed and even-sounding cartridge that has a special affinity with female vocal recordings		•		0.5	10.7	158
0	Ortofon Rohmann	1,000 A class act in nearly every respect, with fine groove security and a very smooth and even-handed sound		•		0.25	8.5	175
0	Ortofon MC3000II	1,100 A real ear-opener. Nothing to criticise anywhere — one of the very best		•		0.12	10	84
	Ortofon MC5000	1,500 Limited tracking ability, bright and forward sound, but good stereo		•		0.12	10	91
	Rega Bias	39 Difficult to mount in some arms due to its shallow body, but the Bias offers a gentle, refined sound	•		•	5	4	67
0	Rega Elys	85 Clearly superior to the Bias, the Elys is more detailed, accurate and convincing	•		•	5.0	5	67
0	Reson Reca	250 If you're after a high quality moving magnet cartridge, they don't get much better than this	•		•	6.5	6.3	192
0	Roksan Corus Black	130 Recognisably related to the Corus Blue, but smoother and more civilised	•		•	6.5	5	91
0	Sumiko Blue Point Special	250 A no-nonsense performer with engaging musical properties – one of the best around for less than £300		•		2.5	9	192
0	van den Hul MM-1	250 If woody midrange could be tamed, imaging and security would pull it through	•		•	5.5	6	103
	van den Hul DDT-II	600 Outstanding stereo imaging and neutral balance are appealing, but rhythmically the DDT-II is a bit lazy		•		0.35	7.6	158
0	van den Hul MC-10	750 A neutral, balanced performer, gives fine depth and focus and a firm, extended bass		•		0.4	6	60
0	van den Hul MC-One	900 This extends all the positive qualities of the 10, but adds greater authority and scale – worth all the extra money		•		0.4	6	60
0	van den Hul MC-Two	1,200 MC-Two rewards with a highly detailed yet fluid and musically convincing portrayal		•		0.4	6	72
0	van den Hul Frog	1,500 Seems to control/suppress surface noise better than its rivals. This delicate and subtle performer has great charm		•		0.65	7	175
0	van den Hul G' hopper IIIGLA	2,800 Undoubtedly one of the finest cartridges available. It has tremendous bandwidth, energy and finesse		•		0.4	6	122
0	Wilson benesch Matrix	786 Extraordinarily well balanced cartridge: neutral and detailed yet lively and rhythmically assertive		•		0.58	6	158
0	Wilson benesch Carbon	1,573 Carbon fibre body contributes to a delightfully clean and open midrange, and a quick, lively and coherent sound		•		0.45	7	175
Ĺ				A100				



#### **Cassette Decks**

he compact cassette is still the world's most versatile and ubiquitous music storage The compact cassette is still the world's most versaure or in unspecies medium. Cassette decks hook up to the 'tape loop' inputs and outputs offered by most modern amplifiers. It's worth taking care to choose the best tapes for a specific machine. For example, expensive metal tapes will be a wasted investment for a cheap deck. Many better-specified decks have manual or automatic bias adjustment to get the best from specific samples of tape. Twin decks offer the possibility of copying from tape to tape, playing two cassettes sequentially or recording onto two tapes at once. Autoreverse is a useful feature, but uni-directional mechanisms promise better sound. Dolby S is the ultimate noise reduction system, and three-head decks permit record monitoring off-tape.

Automatically plays both sides of

• AUTO CALIBRATION: The

deds for dubbing and

· AUTOREVERSE:

● DOLBY B/C: The first and econd Dolby hiss-killers. DOLBY S: A desirable derivative of Dolby SR professional noise-reduction.

- DOLBY HX-PRO: Extends
- headroom for cassette recording. deck will automatically set up • 3-HEAD: Permits monitoring bias and EQ for any tape. ADJUSTABLE BIAS: Permits off-tape while you're recording. TWIN DECK: Contains two manual optimisation of tape.
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback advert on the penultimate page of the mag. ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

BEST BUY RECOMMENDED EDITOR'S CHOICE

### Cassette Decks

SPECIFICATIONS DOLBY HE SHEAVING RESCAUSIARY ISSUE NILL

STATUS	Uask		THE DEURS	CARA	HX PRO	EAD IN D	ECK REVERS	UBRATIC	BLE BIA	UMBER	
ST/	PRODUCT	(£)	COMMENTS		<b>7 V</b>	•	▼ ▼	V	<b>V</b>	V	V
0	Aiwa AD-F450	120	Basic but well-designed deck. Astonishing value; only the poor metering gives the game away			•				•	136
0	Aiwa AD-WX727	170	High-class twin for those who want bells, whistles — and music		•	•		•		•	146
0	Denon DRM-550	160	There are some technical limitations, but this remains a fine-sounding deck, and excellent value		•	•				•	158
	Denon DRW-580	200	Twin deck: OK for casual use, but will quickly pall with more quality critical applications		•	•	•	•		•	171
0	Denon DRS-640	200	Draw-loading deck, with simple facilities and smooth, well-adjusted sound		•	•	•			•	140
0	Denon DRM-650S	230	An improvement on predecessors, it offers a wide-ranging, sound. Dolby S is not the best feature		• •	•			•	•	164
	Denon DRM-740	270	Breathed-on DRM-710, with good external treatment, offers good, if somewhat detached sonics		•	•	•			•	136
	Denon DRS-810	310	Draw-loading deck, carefully designed yet lacking in subtlety on audition		•	•	•				127
	Harman/Kardon TD420	250	Minor inconsistencies detract from a well-conceived, minimum features design		•	•	•				140
	Harman/Kardon TD450	350	Draw loader with poor tape navigation features; good midband but shallow bass		•	•	•			•	164
0	JVC TD-R472	200	Excellent auto-reverse deck which doesn't suffer the usual disadvantages and is very sharply priced		•	•		•		•	158
0	JVC TD-V662BK	270	Assured, clean and agile-sounding recorder, if not quite the most refined in its class		•	•			•	•	146
	JVC TD-W718	300	Twin deck. Good for creative live recording, but no timer standby. Respectable performance		•	•	•	•	•		171
0	Kenwood KX-W6080	200	Modestly decent-sounding twin deck, with some transport instability and ragged bass		•	•	•	•		•	171
	Marantz SD455	170	Works well as a single deck, especially on replay, but dubbing at high/low speed compromises sound		•	•	•	•			184
	NAD 613	230	Rough and ready, but enjoyable sound, though marred by mechanical motor noise		•	•				•	158
	NAD 616	300	Twin deck with basic features. No Dolby setting memory, transport is too unstable for audiophile use			•	•	•			171
	Nakamichi DR-10	800	An ergonomic oddity, but one of the last of the great cassette decks. Worth considering against MD		•	•	•			•	195
0	Onkyo K-611	460	Cute drawer-loading mini-size component with 3 heads and dual capstan transport		•	•			•	•	146
0	Pioneer CT-S550S	250	Great features, good with cheap low bias tapes, but slightly synthetic sound quality		• •	•	•		•		164
	Pioneer CT-W806DR	300	Had it not been for the iffy transport quality, this sophisticated twin would have been Recommended		•	•	•	•	•		171
0	Pioneer CT-S830S	500	High-class mechanism, if lacking in battleship externals, and superb sound		• •	•			•	•	146
0	Sony TC-KE600S	300	Mild setting-up problems notwithstanding, this UK-tweaked design has a smooth, open sound		• •	•	•		•	•	158
	Teac V-1050	180	One of the cheapest 3-head machines around, but it shows in very 'thick' sound		•	•	•				184
0	Technics RS-AZ6	200	For those who can't afford the RS-AZ7; clarity over the widest bandwidth thanks to AZ thin-film head		•	•	0		•		164
0	Technics RS-AZ7	270	Thin-film head gives a solid, almost CD-like bass and midrange. A clear advance in state-of-the-art		•	•			•	0	158
0	Yamaha KX-490	200	Electrifyingly transparent and capable deck whose only flaw is a trace of audible wow and flutter			•		14.00	•	•	158
0	Yamaha KX-580SE	250	Subtle, engaging and transparent deck, with a lightweight tonality, but stability and strong detail		• •	•			•	•	171

118 HI-FI CHOICE September 2000



#### **CD/DVD Players**

A II CD players offer a basic selection of facilities, and some can keep you entertained for hours as you programme in disc names and track orders. All but the excessively inexpensive feature remote control. Most CD players can be upgraded by adding an outboard DAC (see p129). To do this the player needs a digital output of either electrial or optical type. The former is preferable for the ultimate sound. A CD player can be split into two basic components: the disc drive or transport, and a device which converts the disc's digital bitstream into an analogue audio signal. This is called a digital to analogue convertor, or DAC. Although most players are contained within a single box, expensive players are usually two-box affairs. The first new DVD players have not excelled with CD software.

**BEST BUY** 

RECOMMENDED

E EDITOR'S CHOICE

#### KEY TO SPECIFICATIONS

• ELECTRICAL DIGITAL OUTPUT: For electrical connection to an outboard DAC.

AES/EBU ELEC DIG OUTPUT: Balanced digital output to be used with similarly equipped DACs.

OPTICAL DIGITAL OUTPUT: For optical connection to an outboard DAC.

ST OPT DIG OUTPUT: High-speed optial output to be used with similarly equipped DACs.

 BAL ANALOGUE OUTPUT: Balanced analogue output for amplifiers equipped with balanced inputs.

HEADPHONE SOCKET: For 'can' users.
 VARIABLE OUTPUT: Remotely adjustable output level (usually non-audiophile).

• MULTI-DISC: Equipped with a carousel or

multi-tray system for continuous play of multiple discs.

DAC TYPE: BS – Philips Bitstream; MB – multi-bit; Hyb – hybrid of multi-bit and bitstream technologies; 1 bit – single bit types eg MASH, bitstream, PWM, etc; CC – constant calibration.

• FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full information, see the Factsback advert on the penultimate page of the magazine.

ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

Factsback information page.

CD/DVD Players

				PUT	OUT	PUT	7 00	TOKET	400		-	-
SIA	PRODUCT	(£)	COMMENTS			<b>y y</b>	V	V	V	V	▼.	
3	Acurus ACD11	899	First-rate if costly player, which combines a delightful transparency with an uncontrived naturalness								1bit	
	Acoustic Precision Eikos	1,850	Seriously customised Pioneer with extraordinary resolution and world beating imaging and bass	•							1 bit	16
	Advantage CD1S	3,995	A CD player of some stature – what it lacks in dynamics it makes up for in subtlety and flow	•	•	•		•	•	2	0bit	19
	Alchemist Kraken	1,249	Distinctive looking player likely to suit a Alchemist system, but will result in variable results elsewhere		•					24	4/96	5 19
•	Alchemist Nexus APD32A	597	Refined treble, constrained yet capable bass and attractive all-round presentation	•						F	Hyb	1
	AMC CD8A	150	Has balanced output, but is otherwise rather grey and unremarkable			•		•			BS	T
)	AMC CD9/DAC8	200	Beer-budget two-box system (player plus DAC) is smooth, attractive and easy on the ear								cc	1
	Anthem CD1	1,595	Unusual combination of high-end player, complete with HDCD, and changer. Good, but noisy	•	•					• 1	MB	1
)	Arcam Alpha 7SE	350	Revamped starter model is a clear improvement on very likeable predecessor								MR	1
	Arcam Alpha MCD	450	Excellent bass and natural midband, but just a touch of treble dryness, from this very listenable changer	•						•	MB	i
9	Arcam Alpha 8				A					-	-	-
)		520	Refined, intricately detailed but a little cautious. Should be broadly compatible with a variety of amps	_							BS	1
)	Arcam Alpha 8SE	600	Excellent (and very reasonably priced) HDCD-compatible player is a strong all-rounder			•	A Property of				IDI	
)	Arcam Alpha 9	800	Refined, articulate player which employs new DAC technology to great effect	•							Ring	
	Audio Analogue Paganini	750	Basically good, but sometimes heavy-handed player	•							4bit	-
	Audio Research CD1	3,290		•	•	•	•			-	BS	1
	Audio Note AN-CD1	600	Easy on the ear, and for a valve player, easy on the pocket, but a bit Radio 2-flavoured	•						-	Hyb	-
	Audio Note AN-CD2	999	High output impedance makes performance unduly system fussy	•						N	MB	1
	AVI S2000MC2	899	A chip off the old block. This model's in-yer-face balance obstructs an otherwise finely detailed sound	•						٨	MB	
)	AVI S2000MC Reference	1,399	Lean, dry, high resolution player, built to outlast most of us. A fine performer in a sympathetic system	•	1					٨	ИΒ	
	Balanced Audio Tech VK-D5		A valve-infused player with a big and engaging sound. Lacks a little subtlety	•				•	•	18	8bit	ı
	Cambridge Audio D100	120	Hard, clangy and coloured sounding, and with suspect control logic			•				[	DS	2
	Cambridge Audio D500	200	Clean and highly articulate player wears well in extended use							-	DS	2
	Cambridge Audio CD6	250	A sharp, articulate player, a real thoroughbred in fact, perhaps too sharp and lively for some systems				1000	•		100000000000000000000000000000000000000	BS	1
	Copland CDA-266	1,199	Simple yet elegant design is unexpectedly sophisticated under the skin, and effective in execution	•		1				-		i
	Copland CDA 289		Beautifully built and musically enjoyable. Lacks some precision, but still among the best below £2,000	•						-	Obit	_
	Copland CDA-288		A gentle giant of a player that errs in favour of pastel shades rather than bold daubs of colour	•		•				-	MB	i
	Cymbol CDP12		Clean, detailed and airy HDCD-equipped player with minimalist trappings					-		-	-	-
				_	-				•			-
	Cyrus dAD1.5	395	Improved dAD1 variant has improved digital filter for a more natural, easy on the ear quality	•						-	lyb	-
	Cyrus dAD3	598	A relaxed style of delivery that convinces with guile and subtlety rather than orchestral ordnance								BS	1
	Cyrus dAD3 Q24	900	Bold, lean and lively player demands sympathetic system matching			•				-		2
	Denon DCD-435	130	Good low cost player, and a step up from the DCD-425, its predecessor			•				[	DS	1
)	Denon DCD-655	180	Fine, slightly soft-edged budget player, and a good ameliorative for aggressive, edgy systems			•			•	٨	MB	2
	Denon DCD-835	280	Refined version of Denon's multi-bit technology is a bit of a star	•		•			•	٨	MB	1
	Denon DCD-1550AR	350	Disappointing bland and ploddy sound from an immaculately constructed, high-tech player	•		•		•	•	٨	ИΒ	1
	Denon DCD-1650AR	700	Powerful, authoritative, and well equipped too, but this player sometimes lacks subtlety	•		•			•	٨	ИΒ	1
	Harman/Kardon HK720	230	Sometimes aggressive and ill-disciplined player, but at least it's well built	•			2000	•		1-	-bit	2
	Harman/Kardon HD740	300	Powerful but subtle and involving player: welcome back, Harman/Kardon	•		•	-700			Annual Control of the	DS	1
	Harman/Kardon FL8300	300	Generally capable changer with relaxed sound and firm bass. Just a hint of roughness on occasion	•		•			-			1
	Harman/Kardon HD760	500	Sophisticated internally, but mildly disappointing when treading the boards in anger	•		•			The second		ИΒ	1
	JVC XL-Z574	250	Strong resolving power, good midband and dynamics, but slightly raw and thin			•		•	- CONTRACTOR	-	-	i
	Kenwood DP-3080	170	Bold, dynamic and outgoing sound, although somewhat aggressive. Poor build quality and finish	- 100					-	-	bit	
	Kenwood DPF-3010	180	Grey, somewhat mechanical sounding player	800					-			-
	Kenwood DPF-R6030				15					-		1
		180	Inexpensive and adequately specified, with decent mid/treble and slightly anaemic bass	•		•		•	•		bit	-
	Kenwood DP-4090	250	Focuses a clear, wide aperture lens on the music — and has CD Text too			•			•	-	bit	1
	Kenwood DP-5090	300	Disappointing senior brother to the excellent DP-4090, but surface interface is good	•		•			•	A STATE OF THE PARTY OF THE PAR	bit	1
- 9	Kenwood DP-7090	400	A lively and compelling performer with an even-handed and coherent disposition								ИB	1
-	Linn Mimik		Useful multi-room features matched to strong bass, but poor imagery and transparency	•							-	1
	Marantz CD5000		Well equipped budget player sounds thin and rough at times	•		•		•	•	Action and the second		2
	Marantz CC3000	150	Ragged sounding player, but it is cheap and well equipped	•					•	• (	CC	2
	Marantz CD6000 OSE	300	Superbly constructed, slightly emasculated sounding, but smooth and articulate			•				1	bit	2
1	Marantz CD-63 MkII KI Sig	400	It's the quintessential sound of Marantz — warm, open, and smooth almost to a fault	•		•				Н	lyb	Ì
į	Marantz CD-17	800	Fabulous packaging and an excellent all round performer: smooth, detailed and consistent	•			19657					1
	Marantz CD-17KI Sig		Minor QC problems aside, this is a superbly turned-out machine, but ultimately a little bland	•	100	•	-		•			i
-	Marantz CD-7		A superbly designed CD player, both inside and out. Precise and dramatic in equal measure	•	11-01	•		•	•	-	-	i
	Meracus Tanto		Believable tonal colours and textures, refinement takes preference over dynamics – but it's not cheap	-								,
	Meridian 506		Revised 506 includes MSR remote and a new D/A chip, which makes it livelier and more detailed		A LANGE	•					bit	H
-	Monrio Asty									200		-
			Well built player has solid, propulsive sound quality that deteriorates towards HF	•			-	9151			-	2
		995	Costly and well-engineered, but ultimately rather heavy-handed and dull, if refined player							N	ЛB	
Ī	Monrio Privilege			-	-		The second second	0.000.000				_
1	Musical Fidelity X-RAY  Musical Fidelity A3 CD	799	Brilliantly packaged and clean but slightly antiseptic sounding player  Excellent player has few faults apart from a slight loss of EHF detail	•		•				-	-	1 2

(	CONTINUED							1 O N	•	101000000000000000000000000000000000000		00000000000000000000000000000000000000
	AD/I		VD Players	5 P	EC			ION			70 E	Ken.
			VD Players	OPTICAL VIELEC DI VIPUT	ST OF OUT	AL AN	LOGUE O	RIAN N	n. D	ISSUE NO AC TYPE		
S	ו עט ד	A	IN TIGACIO	ELEC DI	OIG O	DIG	LOGUE	VE SOLE OF	TO-DIS	CTYPEN	MRE	
STATUS				PUT	OUT	PUT	U7 . 0	UT CKE	PUT		-CA	
~		<b>(€)</b>	COMMENTS				V	<b>V</b>			<b>V</b>	V
	Myryad T-10	400	Rather ordinary player fails to shine with good music recordings	•						The second	DS	184
	Myryad T-20	600		•							DS	195
0	Myryad MC100	700	0 1 0 0 1	•	100						BS	163
_	Myryad MCD500	1,300	70 0	•						0.00	1bit	176
0	NAD C520 NAD 524	170	Significantly improved entry level NAD is smooth and dynamic, if slightly dull	•	-						DS	202
0	NAD 524 NAD 523	250 250	Clean, clear and essentially musical player in the NAD mould  Lacklustre musical presentation was disappointing on test; so was the absence of a digital output	•						-	MB	191
1	NAD C540	330	Not cheap, and disc handling is pedestrian at best, but the C540 is smooth & elegant with just a hint of aggression								DS DS	204
0	NAD Silverline S500	1,100	0 , 00	•		•		•			MB	200 195
0	Naim Audio CD3.5	1,000									Hyb	188
0	Naim Audio CD2		Provides bags of detail with a solid stereo focus but not all the romanticism we know to be possible								MB	163
0	Nakamichi MB-10	400	Jewel of a multi-disc player, with crisp sound and superb fuss-free compact packaging	•		•	100			-	DS	204
E	Naim NACDSII/XPS	5,625									MB	188
O	Onkyo DX-7222	150	Competitive following recent price cut, and on the whole a strong performer musically			•					BS	200
	Parasound C/DP-1000	499	Comes on like a high end player, but ultimately sounds a bit weak and soft-centred	•							Hyb	184
0	Philips CD-721	130	Surprisingly well-sorted, articulate if slightly glossy and attractively presented sound. Captive signal lead								1bit	159
	Philips CD751	150	Inconsistent and occasionally opaque and scrawny sounding cheapie	•							1bit	172
	Pioneer PD-S507	200	Low cost Legato Link implementation sounds gentle but slightly muddled			•				_	DS	191
0	Pioneer PD-S707	300	Idiosyncratic Legato Link dominated sound, but always subtle and interesting	•		•		10000		-	MB	184
_	Pioneer PD-F906	350	Interesting appearance and concept, but this changer's sound is lacklustre and ergonomics frustrating			•		-		-	1bit	178
0	Pioneer PDS-06	550	Technologically sophisticated. Pioneer's first multi-bit player for years is polished and capable	•		•					MB	176
0	Primare D20	460	Assured, fluid-sounding player, with great spatial coherence		-	VIETE					DC	166
1	Primare D20	799	Well presented player doesn't quite cut the mustard, though it performs promisingly	•	4					Carlo Company	BS	188
	Revox Exception E426 Roksan Kandy	475	Very stylish with a light, agile sound that extends superbly and has fine timing Slightly old-fashioned sound quality player available in various colour schemes	-:	-	•		•		THE RESERVE THE PARTY NAMED IN	BS DS	182 200
اما	Roksan DP3P		Dramatic and compelling. Classical listeners should be ready to 'air conduct' when auditioning								BS	163
0	Roksan Caspian	895	Solid, articulate, and fundamentally well-engineered player, but with some subtle low-level limitations	-							Hyb	169
١٣	Rotel RCD-951	300	Disappointing chopped-down RCD-971 – buy the original	•						-	MB	191
0	Rotel RCD-971	450	Odd disc handling logic, but bold, detailed and refined sound make this a must						3 80		MB	184
0	Rotel RCD-991	750	Confirms Rotel's status as must watch brand: great stuff		•	•		•			MB	195
0	Sherwood CD-4030R	180	Easy on the ear, smooth-sounding player, with limits set by the slightly soft, compressed quality		14.00	•					BS	159
1	Sherwood CD1	1,100	A very neutral, even handed sounding player with a rather flat, lifeless sound. Beautiful construction	•		•	100				BS	163
0	Sony CDP-XE330	100	Unrefined, but lively, detailed and highly affordable			•			•		Pulse	202
1	Sony CDP-XE530	140	Well equipped, but raw, scrappy sounding player lacks depth and weight			•			•	-	Pulse	The same of the sa
	Sony CDP-XE510	180	Souped up CDP-XE500 which tells a rather bland and unengaging story			•	100		•	-	1bit	172
_	Sony CDP-XB720E	200	Good basic performance and a number of filter settings make this an interesting player for tweaks	•		•			•	Lo	ow bit	184
0	Sony CDP-XB930E	300	Yet another first rate UK optimised player with all the bells and whistles	_		•					ulse	195
	Sony CDP-XA20ES	450	High-tech, with a long list of gadgets, oddly configured player that ultimately sounds less than compelling	•		•					1bit	176
0	Sony CDP-X3000ES Sony SCD-777ES	500	Shoebox format player, looks to die for, switchable digital filters to tweak the already excellent sound  Beautifully built SACD player that looks like a bit of a CD player bargain							20000	DC DC	169 198
E	Sony SCD-177ES		The first SACD player sounds fabulous but there's not much competition and limited software as yet				Account to				DO DC	198
E	T+A CD1210R		Intriguing player with rather pushy basic sound, but has switchable digital filters	•					100		DS	188
	Talk Electronics Thunder 1	550	Entry level upgradeable Talk Electronics player sounds slightly muted									200
	Talk Electronics Thunder 2	699	Fine player, slightly lacking in dynamics, but readily, if expensively upgradable in various ways							and the second	1-bit	-
0	Talk Electronics Thunder 3	1,000										195
0	TAG McLaren CD20R	1,249	Dry and unatmospheric, but plenty of presence – recommended with caution	•							BS	188
0	Teac CDP-3450SE	200	For once a budget player where gadgets take second place to respectable, budget amp-friendly sonics		610	•					1 bit	166
	Teac VRDS-8	600	Superb build quality is matched to good, but not exceptional sound quality	•		•			•	-		184
1	Teac VRDS-9	700	Well-presented. This Teac is crisp, yet shallow, and inconsistent in sound quality and partnering skills	•		•	300		•	-	-	176
1	Teac VRDS-25x		Excellent, individualistic player with bold, colourful sound, but test sample had iffy CD-R compatibility	•		•		•	•	-		195
1	Technics SL-PG390	90	It's very cheap. Very, very cheap			•			1	-	IASH	-
	Technics SL-PG480A Technics SL-PS670D	130 200	Full driving sound, but somewhat uneven in balance with a unsubtle, slightly harsh top end Fine, middle ranking player which sounds solid, sometimes even a little stolid		21/16	•			•			159 179
0	Technics SL-PS770D	250	High tech and well built technology battleship which smooths the rough edges off the music			•						172
0	Technics SL-MC410	250	If you fancy a CD player that holds 111 discs, this one's cheap, pretty capable, and easy to use				2000		1 122.50			178
_	Technics SL-MC7	300	Maximum storage capacity for a minimum price, and presentable sound too	153 K	N TO SE	•			•		IASH	
ľ	Thule Spirit CD100	600	Definitely a try before you buy machine, but the bass and mid are excellent	•			2000				-	188
	Trichord Genesis	549	Breathed-on Pioneer is warm and mellifluous, but ultimately lacks drive and authority	•			13775		•		-	169
	Trichord Revelation	799	Well-ordered and clean sound that may be a little too refined for some, images well	•			UNITED IN		1000000		-	166
1	Tube Technology Fusion	1,100	Our early test sample was primitive and flawed, but showed signs of greatness	•		•				-	-	195
	Tube Technology Fulcrum			•	•	•	J. Carlot			-		194
	Wadia 830		Envelope busting dynamics, power and imaging in a rather unexciting box (digital volume control)					•	•		MB	183
E	Wadia 860x		If you want to discover what CDs are really capable of, this has few peers		•		•	•			MB	199
	Yamaha CDX-493	180	Open and lively, but this player is also messy and lacking resolving power			•			1 1200	A STATE OF THE PARTY OF THE PAR	-	191
	Yamaha CD-X993	400	A bit of a lush, though the sound is singularly free of grain, and equipment levels are strong	•		•	THE STATE OF		•	100000000000000000000000000000000000000		184
_	YBA Spécial	695	There is nothing here to justify the pricing or the high-end parentage. Avoid							-		195
0	YBA CD1α	3,895	A remarkably fluid and graceful sound – one of the best we've heard below £5,000	•			33 3				8bit	194
	TRANSPORTS	700	Most chose how size transport sounds smooth and fluid in the right system. (Tosted with DAC 7-re)		1	10023	Property.	The same				101
	Audio Note CDT Zero Linn Karik	399	Neat shoe box size transport sounds smooth and fluid in the right system. (Tested with DAC Zero)  Based on early Linn transport, the Karik is dry but very positive, detailed and engrossing	•		•	1000					191
	Roksan Attessa ATT-DP3		Not the most detailed or refined but capable of sounding exciting with the right material	-								162
	Teac VRDS-T1	550	Superb quality engineering is mated to tidy and composed sound. (Tested with D-T1)	-		·					-	144
	Theta Carmen	3,299	A well equipped and extremely upgradable CD/DVD transport. Right now, the finest of its type	•	135		YES				100000000000000000000000000000000000000	203
	Theta Data Basic II		Uses a Philips CDM9 Pro mechanism and works a treat with more lively DACs	•			1000			1000	-	130
	Thorens TCD2000	999	Lively presentation not helped by rather loose bass and splashy treble. (Tested with TDA 2000 DAC)	•		•	1000				-	162
0	Trichord Digital Turntable	699	Very detailed, precise, controlled yet involving; a first-rank performer	•		•				NAME OF TAXABLE PARTY.		162
				141	100		200	2505				

### CD/DVD Players

OPTICAL DIG OUTPUT ASSEBULEEC DIG OUT ELEC DIGITAL OUTPUT ST BAL HEADPHONE MULTIDAE TYPE
OPT DIG OUTPUT
OUT OUT OUT
OUTPUT
OUT ISSUE NUMBER

5		471		-0	_	_	_	-	-	_	-	-	~
S	PRODUCT	(£)	COMMENTS		V				Ψ.	V	V		V.
1	DACS												
1	Alchemist TS-D-1		24/96-equipped DAC sounds tidy but a little shut-in with both 16-bit CDs and 24-bit/96kHz DVDs			Ten.							187
1	Audio Note DAC Zero		Neat valve-equipped DAC sounds smooth and fluid in the right system. (Tested with CDT Zero transport)										191
1			Astonishingly natural and realistic in the right system, the only problem being the extravagant price										203
	Linn Numerik		A new 20-bit DAC and revised Karik transport have cleaned up; but sounds a bit dry and humourless									MB	144
E	Musical Fidelity X-24K	300	24/96 ready with a warm, natural sound and good soundstaging (tested with Pioneer DV-717)									MB	187
			Not the most detailed or refined but capable of good excitement with the right material									1bit	162
	Teac D-T1	500	Teamed with VRDS-T1 for test, this superb quality unit is tidy and composed									BS	144
	Thorens TDA2000	700	Lively and up-front presentation not helped by rather loose bass and splashy treble		-							BS	162
0	Trichord Pulsar Series One	1,395	Very detailed, precise, controlled yet involving; a first-rank performer. Switchable phase, dither etc.						6			Hyb	162
	DVD PLAYERS												
	Denon DVD-2500	500	Good picture, but nondescript sound, except when using the digital output at full 24/96 throttle	•		•			•	1		DS	198
0	Denon DVD-3000	700	Enjoyable rather than analytical, includes 24/96 and AC-3/MPEG-2 Audio	•		•			•			BS	180
0	Denon DVM-3700			•		•					•	DS	204
E	Denon DVD-5000		The first DVD-V player that ain't bad as a CD player. A fine musical device	•		•			•			BS	187
	JVC XV-D701	500	Good video player, but rather undeveloped musically – CD Text is neat, though	•		•			•				198
	JVC XV-515GD	300	Musically soft as a baby's bottom, and as surprising as yesterday's news	•		•							202
0	Kenwood DVF-9010			•	70	•			•			4/96	
1	NAD T-550	500	Soft-centred but likeable player in the classic NAD mould	•		•							202
1	Nakamichi DVD-10	800	Not the most compelling model in the resurrected Nakamichi line-up	•		•			•				198
1	Panasonic DVD-A150	400	Simple, mid-market DVD player is vice-free but limited for the audiophile			•			•			4/96	
_	Panasonic DVD-A360E	580	Powerful equipment, and unthrottled digital output notwithstanding, sound quality is modest at best	•		•			•				198
0	Philips DVD750	400	Clever DVD with CD-R/CD-RW compatibility and surprisingly keen sound	•		•			•				198
0	Pioneer DV-525	399	Lean, clean and lively sound quality. CD-R and 24/96 compatible, too	•		•							202
0	Pioneer DV-626D	450	Superbly equipped, and more than respectable sound quality	•		•			•			DS	198
0	Pioneer DV-717	550	Superb DVD player with good picture quality and which really knows how to play 24/96 discs	•		•				30		MB	190
	Samsung DVD-907	500	DVD player with below average picture, and lacklustre sound quality	•		•		3.1		1917		4/96	
	Sony DVP-CX850D	600	Lacklustre sound quality is a disappointment, but the price is appealing for a 200-disc DVD player	•	her.	•	1 1/4	100					204
0	Sony DVP-S7700	950	Powerfully endowed player offers articulate and believable sound	•		•			•				198
0	Sony DVP-S325	330	Bare bones DVD with workmanlike sound, although it can sound 'loud'	•	VIII.	•							202
1	Sharp DV-760	500	Reasonable picture, but sonically brings new meaning to the term rough and ready.	•		•		33.1	•				202
l	Teac DV-1000	400	Blowsy, and occasionally astringent sounding, but otherwise straightforward and reasonably priced	•	1937	•							198
1			A top-notch CD transport, that also plays DVD-Video discs well. Pricey for a DVD transport, but worth it	•	•	•	•					4/96	
1	Thomson DTH2000	380	This DVD player's main attributes are reasonable pricing and fair to good all round performance			•			•			4/96	
1	Toshiba SD-3109	380	Defocused and soft-edged, this is more attractive for its picture than its sound quality.			•						N/A	
1	Toshiba SD9000	800	Costly, high tech player with stunning pictures and crisp, slightly lightweight sound	•	12/2	•			•	100			198
1	Yamaha DVD-S795	529	Fare price, and an unconstrained digital output, but otherwise unexciting	•		•			•			DS	198
				-		AND DESCRIPTION OF THE PERSON NAMED IN		STATE OF STREET	100000000000000000000000000000000000000	COLUMN TO A	and the same of	Total Section 1	



#### **Digital Recorders**

**D**omestic digital recording has been possible since the launch of digital audio tape (DAT) in the '80s. Since then DAT has remained expensive and largely esoteric, favoured only by well-heeled or professional users. Digital Compact Cassette and MiniDisc (MD) were launched in the early '90s but only MD has stayed the course. A little later came domestic CD-Recorders using CD-R discs, while the latest twist is the arrival of re-recordable CDs know as CD-RW discs. The recording quality hierarchy is as follows: DAT, CD-R/CD-RW, MD. MD is probably the most convenient to use, and offers sophisticated editing facilities, while CD-R is ideal for making digital 'dones' of prerecorded CDs. DAT is the medium of choice for high-quality location recording.

#### KEY TO SPECIFICATIONS

● FORMAT: Type of recorder — sound into digits during live see left for descriptions. DAC TYPE: Digital to analogue converter: BS - Philips Bitstream; MB - multibit; Hyb hybrid of multibit and bitstream;

1bit - single bit types such as MASH, bitstream, PWM etc

● ADC TYPE: The analogue to digital convertor (ADC) converts

recording. Types of ADC are as per DACs (av)

 PORTABLE: Battery operable, but not necessarily personal-stereo-sized.

OPTICAL IN/OUTPUTS: Digital socketry for optical cable. ● ELEC IN/OUTPUTS: Digital socketry for electrical cable

Archive page. • ISSUE NUMBER: The issue

of Hi-Fi Choice in which an original review appeared.

FACTSBACK REFERENCE:

The Factsback Reference number

permits direct access to our faxed

review reprint service. For full info.

see the Factsback section of our

BEST BUY

RECOMMENDED

EDITOR'S CHOICE

### Digital Recorders



12					AND THE PERSON			13	100	100
21	PRODUCT MINIDISCS	(£)	COMMENTS	V	٧	V	*	•		V
	Denon DMD-1000	300	A good machine, but it still doesn't manage to shake off the MiniDisc plague of losing the listener's interest	MB	BS	N	•	•		184
1	Denon DMD-1300	500	Sound sometimes lacks integration but tonal balance is good and it handles loud music with panache	MD	BS	BS		•		177
0	Kenwood DMF-9020	500	One of the best MD decks yet for sound quality, and the first to make titling a practical proposition	MD	BS	BS		•	•	191
0	Kenwood DM-9090	550	Slight sibilance and image vagueness do not detract from excellent balance and solid bass	MD	BS	BS		•	•	177
	Marantz CM635	500	CD player and MD recorder in one box: a practical idea but sound and features don't really match the asking price	MD	BS	BS		•	•	191
1	Onkyo MD-121	450	Midi-sized deck that sounds slightly coloured at times, though immediate and lively	MD	BS	BS		•		177
0	Pioneer MJ-D707	250	A handy set of features for the price, though sound is not outstanding	MD	BS	BS		•	•	191
0	Sharp MD-R1 MkII	200	It's cheap: sound is not outrageously bettered by rather pricier competition. A bit thin on features though	MD	BS	BS		•	•	191
	Sharp MDR3H	300	Nifty machine combining a 3-disc CD changer with a MD recorder. Sound on both is rather below par, though	BS	BS	N		•	•	184
0	Sharp MD-R2	300	Budget recorder that loses little or nothing in comparisons with much more expensive models – highly capable	MD	BS	BS		•	•	177
0	Sony MDS-JB920	300	One of the better MD decks, its sound is neutral and dynamic. European Audio Recorder of the Year '98-'99	BS	BS	N	•	•		184
0	Sony MDS-JA20ES	500	Sound quality about as good as it gets with MD to date, and a very comprehensive features set too	MD	85	BS			•	191
E	Sony MDS-JA555ES	650	Probably the best MD deck to date, with consistently less quality loss over a wide range of programme. Lots of features	MD	BS	BS			•	194
	Yamaha MDX-793	300	Nice machine to use and has some useful features, but sound quality a little wanting	MD	BS	BS		•	•	191
	CD RECORDERS									
	Marantz DR700	600	Dearer than Philips and Traxdata equivalents, with apparently only a smarter front panel to show for it	CD-R	BS	BS		•	•	191
0	Philips CDR-880	499	Capable of making perfect copies of CD digital, and very acceptable copies of anything analogue too	BS	BS	N		•	•	184
0	Pioneer PDR-555RW	480	Competitor to Philips' CDR-880; can't make perfect copies but has the edge in replay and analogue record sound	BS	BS	N	•	•		184
	Pioneer PDR-04	700	Scaled down version of the PDR-05 with auto level setting but all the socketry and features you need to make CDs	CD-R	BS	BS		•	•	171
	Pioneer PDR-05	1,000	The first domestic CD-R deck — excellent sound quality	CD-R	BS	BS	200	•	•	152
0	Traxdata Traxaudio 900	499	Identical to Philips and Marantz models: it makes bit-perfect copies of CDs and has perfectly acceptable replay	CD-R	BS	BS		•	•	191



#### Headphones

here are several different ways of making a headphone. The most expensive models employ electrostatically-driven diaphragms within an open-backed earcup. Most mid-price designs feature dynamic, moving-coildriven diaphragms in open, semi-open or closed-back designs. An openbacked headphone can sound remarkably transparent, but also permits the ingress of external noise. Closed-back designs keep out unwanted sound, but may be less comfortable to wear and more coloured. The latest development is the cordless headphone using either infrared light or, more recently, radio waves. Quality is improving, but has yet to match he best corded designs.

#### SPECIFICATIONS IMPEDANCE (Ω): Load

offered to the headphone

amplifier. Many headphones

offer a significantly higher value

than loudspeakers, for example

 TYPE: Operating principle: dynamic: F - electrostation • SUPRA-AURAL: Where a flat GROUMAURAL: Where the

 OPEN BACK: Offers an ■ CLOSED BACK: Keeps out

but this does not mean they will be incompatible with the ● 3.5MM JACK ADAPTOR: Compatible with mini-jacked MASS (g): Mass in gram:

D

D

D

D

D

FM

.

210

226 I/R . 172

175

252 32

280 9.000

240 9,000

1/2

172

157

194

186

The Factsback Reference number permits direct access to our faxed review reprint service. For full info see the Factsback section of our • ISSUE NUMBER: The issue

original review appeared.

**BEST BUY** 

RECOMMENDED

**EDITOR'S** CHOICE

#### Headphones IMPEDANCE (Q) CIRCUMAURAL CLOSED BACK SUPRA-AURAL OPEN BACK M IACK ADAPTOR MASS (E) AKG 301 Big 'phones with even and detailed sound but lacks sufficient bass weight D 230 100 194 AKG K 240 DF Inoffensive 'phones that are very laid back, if lacking in grunt D . 240 600 . 186 AKG K1000 One of the best dynamics on the market, hooks directly into speaker outputs D 99 O 270 120 The closed back 910s are an improvement on the 909s, with a nice rhythmic quality rarely found D 280 55 O Audio Technica ATH-D40fs Detailed and involving sound with a professional 's udio' quali y appeal D 250 194 a Incredible detail and honesty from these classically designed studio 'phone 0 D 250 60 186 Beyer DT311 Uncharacteristically tight, unrefined sound quality from this otherwise well engineered 'phone D 124 40 133 A reasonable but not very thrilling headphone that doesn't really offer enough at the price D 120 250 111 Beyer DT331 Clear and extremely detailed sound with rather thin bass D 210 40 194 Beyer DT431 81 Nice looking 'phones that may not be the best players on the field, but will always give 100 per cent D 210 40 186 Beyer DT511 D Superb midband clarity and speed slightly at odds with soft bass. Even so, high tingle factor . 200 250 172 Beyer DT531 A good buy for serious, heavy-duty music making D 245 144 O These provide silky, smooth textures in abundance and we're not just talking about the velvet ear pads Beyer DT100 D 160 Rugged, modular professional design, but bass is woolly and treble lacks detail 350 . 600 157 Beyer DT911 Probably too revealing for many headphone amps: these are very subtle and fine, if expensive cans D 275 O 250 A competent 'phone with integrity, but little panache or charisma. Hard headband causes brain strain D Denon AH-D550 200 35 157 Denon AH-D750 Loud and gutsy, meaty bass, good with rock and dance. Can sound thick and clumsy D 250 30 . 172 Grado SR-40 45 D 32 . Cheap and nasty appearance largely redeemed by cheerful, up-beat sound. Very comfor able 120 172 For sheer musical enjoyment these are hard to beat. Retro styling may not be to everyone's taste 0 Open and dynamic with pedantically open mid-band. Crude physical design, rough frequency extremes D 157 Grado SR-80 60 8 What these 'phones lack in style they make up for ten-fold in musical quality D 200 32 186 0 Grado SR-225 Warm, darkly-coloured tonally and ultimately lacking in clarily, but true to the spirit of the music D 32 163 200 While very unusual in appearance, the Floats give remarkable sound quality and openness Detailed but with a characteristic mid-band all of their own and a modest amount of lower bass JVC HA-D50 D 290 56 JVC HA-W60 Remarkable lack of interference and hiss ameliorates adequate sound of this cordless design D 165 I/R . IVC HA-D910 Broadly acceptable if unexciting design with low level losses and some colorations D . 32 . 121 65 220 75 Distinct lack of hiss from these FM cordless 'phones ensures that detail and depth are easily heard 280 0.000 186 O Oodles of bass but with a recessed midband; tiresome on the head with prolonged wearing D 194 . . 250 60 . Koss R/100 Rather cheap looking 'phones that supply good detail but are severely lacking in midrange excitement D 215 60 186 D Still has much of the spaciousness of the Float from which it is derived, but coarse mid/top Precide Frgo Model 2 380 100 163 Remarkably airy for closed-back designs. Fine tonal balance, punchy delivery. Amazing value for money D 70 0 Philips SBC HP900 Sharper, snappier midrange than 3396: initially impressive but blows it on balance and listenability D 200 32 172 As close as you'll get to real hi-fi with infra-red phones at this price. Inevitable hiss spoils the illusion Sennheiser IS 380 I/R D 192 . 172 Inoffensive, if nondescript sound; modular, but can become dislodged from head D 185 60 • 157 Sennheiser HD 455 55 a A disappointing pair that offer good stereo-imaging, but little else D 210 32 . Sennheiser HD 475 Elegant, uncluttered sound and very comfortable but lean bass saps satisfaction D . 120 60 172 . Sennheiser RS 400 FM cordless 'phones that are very wearable, but slightly woolly sounding with interference problems D 160 N/A . 186 Sennheiser HD 570 Symph Comfortable, light-weight 'phones with a detailed and open sound but lacks bass depth on weightier music D 210 64 194 0 Fine all-rounder that takes all styles of music in its stride. Ear-clamping headband D 0 Sennheiser HD 545 Wide bandwidth design which is refined, expressive and extremely comfortable 0 F . Sennheiser HF 60/HFV70/LJK 998 Very nearly a superb electrostatic, with a pure midband, but top end is sibilant and edgy . N/A 163 260 Sony MDR-605LP 50 Funky looking headphones that have a very bold, but tiring sound, with coloured bass D 145 40 186 Sony MDR-CD770 Neutrality and comfort make the Sony easy to live with. Correct-sounding too, yet musically unrewarding D 157 Sony MDR-V700DJ Great looking fold-away 'phones with exceptional build quality. Kickin' bass D 300 24 194 200 Astonishingly detailed, uncoloured and free of the usual artefacts from a sealed back headphone 0 Sony MDR-F1 Natural, easy-going sound teamed with great looks and comfort. Shame about the lightweight bass D 300 12 172 Technics RP-DJ1200 Functional design with head-pulping bass and muggy tonal balance. Good job they're sweat-proof D 230 32 172

Refined, articulate, yet with real presence – and a notable bargain by electrostatic standards

Consistently musical infra-red design. Doesn't reach for sonic heights so hiss can be forgiven

A fair amount of whine and crackle detracts from 'phones which are otherwise very listenable

Well thought-out features and a better than average sound are, at times, marred by intrusive hiss

Unusually comfortable 'phone with excellent detail resolution but aggressive

Cuddly feel and sound make these an enjoyable pair of 'phones

The only cordless 'phone to offer genuine walkabout freedom, but sounds like a cheap FM tuner

Cossetting physical design, attractive sound, though suffers overhang and lacks ultimate dynamics

Vivanco Cyberwaye FMH3000 40

Vivanco SR650

Vivanco SR 950

Vivanco FM7980

Vivanco FM8180

0

O

0



#### Loudspeakers

s the last link in the hi-fi chain, loudspeakers are at the mercy of incoming A sthe last link in the hi-ti chain, iouospeakers are usure moce, or many signals. Nevertheless, distortions introduced by loudspeakers tend to be the most obvious. Inside the average loudspeaker is a simple electrical circuit. (the  $\sigma$ ossover) which splins the incoming, full-frequency-range signal for the specific drive units to handle: highs to the 'tweeter', lows to the 'woofer'. For any speaker, designers must balance the 'sensitivity' of the loudspeaker (how loud it goes for a given electrical input) against bass extension (how low it goes). Subwoofers augment bass and are either passive (unamplified) or, preferably, active (self-amplified). Our 'bass from' figures are based on measurements in a particular room therefore results will vary in different environments.

SIZE WXHAD (cm): Width by eht by denth in centimetres. FLOORSTANDER: Requires amplifier As impedance

no stand support.

• SENSITIVITY (dB/W): How much sound results for a given electrical input — the higher the figure, the louder the speaker. An 'A' indicates active operation.

 IMPEDANCE (Ω): Impedance, measured in Ohrns, indicates how much resistance the speaker presents to an decreases, demands on an amplifier increase

 BASS FROM (Hz): The lowest frequency that a speaker

should not sit dose to walls. ● CLOSE TO WALL: Speakers which should sit between 3 and 12cm from the rear wall • FACTSBACK REFERENCE:

The Factsback Reference number permits direct access to our faxed review reprint service. For fullinfo. see the Factsback section of our

• FREE SPACE: Speakers which | • ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

BEST BUY

RECOMMENDED



### Loudspeakers

FREE SPACE TO WALL FLOORSTANDER (db/m) (MZ) SIZE WXHXD (CM) ISSUE NUMBER

				-	-	411	-45		-		-
STA	PRODUCT	(£)	COMMENTS	<b>V</b>	V	V	V		V	V	
0	Acoustic Energy Aegis Centre	140	Good value centre-front speaker but a tad shut in and with a slightly obvious top end (price per speaker)	46,17,20		89	5	50	•	SI/SI	198
o	Acoustic Energy Aegis One	150	At a new low price, this has a very natural and transparent midband, erring a little on the dull side	19,36.5,24		87		40	•		187
D	Acoustic Energy Aegis Two	250	Floorstanding variation on the Aegis One theme, with a neutral, even and detailed if slightly shiny sound	19,87,24	•	89	8	40	•		20
<b>B</b>	Acoustic Energy Aegis Three	350	High value floorstander has deep and even bass and a smooth neutrality thereafter	19,90,25	•	90	5	22	•	F8 5 10	19
	Acoustic Energy AE120SE	500	Attractive styling and good sonic headroom, but a heavy, uneven overall balance, and a difficult amp load	18,97,28	•	89.		25	•		19
<b>3</b>	Acoustic Energy AE520	1,000	Could be more neutral, but high-class build is reflected in a high-class sound. Very elegant too	21,98,30	•	91		25	•		19
Ψ .	ALR Entry 2	250	Metal cone stand-mount has a generous performance envelope, but sound quality was controversial	20,33,29		90		22	•		20
	ALR Jordan Note 7	2,500	A beguiling Anglo-German collaboration delivers metal-cone precision with fine dynamic range	25,107,32	•	92	_	25	•		19
	AR 15	275	Neat and chunky wall/stand-mount certainly knows how to rock and roll, less convincing on the delicate stuff	22,37,22		90		45	•		20
	ATC SCM10		A compact speaker with good transparency but lightweight bass		-	80	-	65		•	192
_	Audio Gem Emerald	1,000	1 1 0 1 7 0 0	18,38,25.5		-					
D ,		540	Pretty, compact floorstander with lively if lightweight sound	18,94,21	•	87		40	•		16
0	Audio Note AN-E/D	1520	This classic large stand-mount might have throwback aesthetics, but it delivers an exceptional allround sound	36,79,28		92		20	•		204
	Audio Physic Tempo	1,999	Tall and unusually-styled floorstander has stunning stereo but suspect bass tuning	22,107,47	•	88		28	•	•	14
D .	Audiovector C2	799	Elegant two-and-a-half-way has a big, full bandwidth sound, but midband seemed a little underdeveloped	19,106,27	•	90		20	•		19
0	Audiovector M2	1,399	High-class, smooth and slightly laid-back performer has driving bass. It's upgradable, too	20,102,30	•	89	4	22	•		18
0	AVI NuNeutron	500	A smooth and subtle though pricey sub-miniature, albeit with the inevitable limitations of the breed	14,27,23		86		50		•	19
	AVI Positron	899	This 'mini-floorstander' is capable of great precision and delicacy, but in a rather small-scale way	17.5,74,245	•	85	6	40	•		17-
0	B&W DM302	150	Highly competent and neutral all rounder; clever Prism enclosure	19,32,22		88	4	45		•	156
0	B&W 602 S2	300	Large stand-mount has fine dynamic literacy and good communication skills at a very competitive price	23.5,49,29		90	5	28			20
D	B&W DM305	350	Ridged paper cone gives lively sound, clever box, but a little uneven	22,87,31	•	89	4	40	•	Winds	16
3	B&W LCR6	349	Large, gutsy standmount intended for all-round AV use delivers fine performance as a stereo pair too	20.5,55,32		90	-	20	•		19
-	B&W CDM2SE	400	Beautifully styled and finished, respectable midband. Lacks definition towards frequency extremes	22,32,25		87	-	40		•	18
0	B&W 603 S2	550	Capable of being driven seriously loud, but the cautious balance seems less happy playing at low levels	23.5,87,29	•	91	4	22	•		193
3	B&W CDM1SE	600	A great looking standmount with one of the best midbands around, and a subtle blend of other qualities	22,37,29		88		40	•		17
Ψ.	B&W CDM7	1,000	A combination of serious welly and physical elegance; but a basic lack of midband smoothness	22,97,29	•	90		22	•		17
0	B&W Nautilus 805	1,400	A small-sounding loudspeaker dynamically, but very stylish, clean and 'unboxy', delivering loads of detail	24,42,31		89		28	•		199
		2,500	The prettiest Nautilus has tremendous clarity and imaging but lacks the welly of bigger models	24,101.5,24.5	•	89		38	•		20
E		_		39,111,55	•	91		34			-
		6,000	Outstanding example of the high-tech speaker builder's art, needs real power but gives real sound		_	E STATE	8	1075.17	•		18:
D .		8,500	The 801 is a magnificent loudspeaker in nearly every respect, but it is one that likes to play loud	52,111,69	•	91	8	34	•		186
0	Blueroom Minipod	249	The Minipod can show its competitors a thing or two about freedom from boxiness and looks fab	18,34+,17		91	4	50		•	193
D .	BC Acoustique Araxe	1,300	Neat compact floorstander is a very lively communicator, if a little short of deep bass grunt	21,92,21-30	•	94	3	40	•		204
D .	Cabasse Farella 400	950	Exciting but very upfront-and-in-yer-face sound. High sensitivity, fine build and good dynamic drive	26,92,32	•	92	5	28		•	180
	Carlsson OA52.2	1,500	Ultra-discreet design integrates cleverly with the listening room. Impressively unboxy, but sounds a bit thin	41,54,37	•	90		20		•	195
	Castle Keep	250	Substantial centre-front speaker based on Harlech drivers but with rather brighter voicing	48,17,27-29		88	8	45	•		198
0	Castle Richmond	250	Tiny real-wood miniature has a lightweight but very coherent sound, a bit in-yer-face but plenty of fun	17,33,20		90	5	50	•		201
	Castle Inversion 15	425	This striking looking standmount is a good all-rounder, commendably free from boxiness	19-22,42,25		91	4	30		•	193
0	Castle Kendal	500	A beautifully finished compact floorstander with a decidedly forward but communicative sound	17,76,20	•	86	6	45		•	177
0	Castle Severn 2SE	700	Pretty little floorstander is lively and communicative, if a little coloured in the voice band	21,84,24	•	88	6	28		•	204
0	Castle Harlech	880	Handsome big-sounding floorstander, great value and dynamic midrange	20,96,33	•	88	8	28			160
Ī	Castle Inversion 100	1,975	Large semi-omni design with gorgeous Art Deco styling, sounds open but bass alignment is ill-tuned	26.5,111,45	•	91	. 8	20		•	195
	Celestion 12i	119	Not without virtue, but the relentless enthusiasm and mid-band colorations can become wearing	19,31,21	100	88	6	45		•	179
1	Celestion 23i	300	Cosmetically flawed, but the bottom end has fine get-up-and-go, and works well with dance tracks	24,86,27	•	89	6	30	•		177
D	Celestion A Compact	600	Provided the room isn't too large and your tastes not too heavy, this is a charming little number	17,24,21		90	3	45		•	193
3	Celestion A1	899	Rich, warm and laid-back, but a true quality sound; lovely build	24,41,35		88	6	25			164
	Celestion A2	1,500	Full-scale, big sound from ultra-elegant floorstander. Smooth and slightly laid back presentation	24,93,39	•	89	6	22		•	180
D .	Chario Syntar 100	249	Pretty with a pleasantly easygoing balance, but not the most communicative or exciting sound around			87	6	45			170
	Chario Hiper 1000	300		18,32,27	-	-	-	distribution in	•	THE STREET	187
3			Classy looking standmount has a sweet, easygoing sound with fine midband voicing	18,35,28	-	87	4	45	•		_
_	Chario Constellation Lynx	550	Beautiful near-miniature is let down by a midband too laid back for its own good	20,36,26	100	87	3	40	•		190
E.	Chario Academy Millennium 2		Price includes stands. A showy speaker that lives up to its own hype	22,53,35	100	90	4	55	•		190
<b>3</b>	Dali 606	400	A big bruiser at a tempting price. Sounds refined and polite, but also packs some punch	22,97,32	•	91	4	25	•		174
	Dali Royal Menuet Mkll	400	Classy sub-miniature with a beautiful box and fine ingredients, but a little lacking in subtlety and excitement	16,26,18		87	3	50	1334	•	190
	Dali Evidence 870	1,300	A real heavyweight, sonically and physically, and good for movies as well as music	24.5,106,36	•	93	2.5	20	•		204
D	Definitive Technology CLR2002		Pricey, but undoubtedly one of the better centre-front speakers around, with fine timing and open voicing	55.5,17.5,31		90	4	40	•		198
	Definitive Technology BP2X	595	Pricey but effective bi-polar surround speaker, with unusually high sensitivity	23,37,15		94	4	120		•	198
	Definitive Technology BP2004	1,700	Pricey bi-polar floorstander has a fine midband, let down by its built-in powered subwoofer	19,104,31	•	91	5	28	•		198
	Dynaudio Audience 5	400	Follows the Dynaudio tradition for fine midband transparency, but the overall timbre is a bit thin	20,31,26		85	4	40		•	17
<b>3</b> i	Dynaudio Audience 40	400	Classy engineering content creates a winning combination of neutrality, dynamic range and involvement	17,28,25	444	87	4	40	•		190
	Dynaudio LR/C 120	439	Slim centre and front standmount, has an evenhanded but rather laid back balance but lacks drive	16.5,57,31	TY T	89	5	25	•		198
9	Dynaudio Audience 50	577	Understated in looks and finish, this compact stand-mount can mix it with floorstanders at more than twice the price	20,33.25	1975	88	4	30			204
۔	Dynaudio Audience 70	1,100	A highly competent and neutral speaker, but pricey for vinyl finish, and doesn't quite drag you into the music	20.5,93,25	•	88	6	20	•		199
			Wonderful voice-band delicacy and loads of deep bass from a very elegant and compact box					-	-		
3		1,842		21,95,29	•	85	4	20	•		167
1	Elac CL 710i lot	599	Chunky floorstander with classy drivers has a neutral, slightly 'shiny' character, and could have more punch	20,95,28	•	88	9	23	•		199
	Elac CL 310i Jet	800	It's pricey, and you can buy better performance for the money. Small speaker, good sound	12.3,20.8,28.2		86	4	42	•		191
-		150	Bright, bassy, laid back and attractively evenhanded, but dynamically challenged. Big box for your dosh	20.5,38,34		86	4	25	•		187
	Eltax Liberty 3+ Eltax Linear Response	150 249	A curiously dumpy shape, but smooth, laid-back performer is easy on the ears, with fine tonal accuracy	25,35,32	-	85	4	40		-	177

SPECIFICATIONS

Loudspeakers PRODUCT (6) COMMENTS						SITE WITHD (CM)  ADDESS TANDER (CD), WE CON (NZ)  ADDESS TANDER (CD), WE CON (NZ)  ADDESS TANDER (CD), WE CON (NZ)												
<u> </u>	Eltax Chroma Front	(£) 300	COMMENTS  Gorgeous shiny styling package at an ultra-competitive price, suffers from an excess of rather flable	hy hace	19,98,28		87 4	25	•	×V.	201							
0	Energy e:XL 25	400	Neat slimline design delivers a fine all round performance for the price, but could sound smoo	-	15,87,31	•	90 4	25	•		201							
•	Epos ES12	499	High quality luxury standmount has great midband and stereo imaging	-	20,38,25		<b>85</b> 8	45	•		160							
	Epos ES25	1,655	Handsome floorstander with a rather uneven and bass heavy balance	NAVALC:	24,90,35	•	<b>8</b> 8 6	22	•		143							
	Gale 2i	140	Unspectacular sound and appearance fail to help this solid little miniature stand out from the crow	CONTRACTOR OF THE PERSON NAMED IN	22,40,27		88 7	40		•	170							
0	Heybrook Prima 2	159	Great openness, speed and timing. Sounds fresh and vital, though sometimes lacks scale and weig		20,29,18		87 6	50		•	179							
0	Heybrook Heylette Heybrook Optima	200 259	Attractive traditional-style near-miniature with classy main driver now has fine overall balance to A dumpy ugly duckling with a heart of gold. Deserves a better tweeter, but communicates well	match	9.5,50,22		94 4	45	•		187							
0	Heybrook Heylios	269	Classically styled stand-mount has a fine balance of smoothness and dynamics, plus real wood	veneer 2	3.5.36.27		89 6	25			201							
	Heybrook Ultima	649	Has the bass wallop to justify its dual hi-fi/home cinema roles, but doesn't excite	-	22,97,29	•	89 6	45	•		174							
0	Heybrook Duet	750	Looks slightly old-fashioned, sounds a bit coloured but its fine timing and liveliness serve music		23,43,30		88 11	27	•		199							
	Heybrook Octet	1,800	Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband		24,97,31	•	90 6	25		•	180							
0	Indigo Three	500	Cute 'n' chunky standmount is an entertaining communicator. Great fun, despite some sonic we	-	3,30.5,32		86 17	24		•	199							
	Infinity Delta 60 Infinity Kappa 70	700 795	Striking and massive floorstander, lots of speaker for the price, but seems a victim of its own com Fine material value. Sonically big, smooth and even, but lacking in coherence and dynamics	*****	-29,115,41 -26,96,27	•	90 4 87 4	25 25	•		183							
	Jamo BX100A	350	Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass	- Contraction	1.5,54,28		91 8	40	•		155							
	Jamo Classic 8	400	A lot of speaker for the money; good when playing quietly, but boom'n'tizz character sounded crui		22,90,29	•	90 4	28	•		152							
	Jamo Cornet 195	350	Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractive	- Charleson	0.5,91,31	•	90 3	26	•		183							
	Jamo 477A	500	Very prettily styled, but build and sound quality are disappointing at the price		19,77,28	•	88 4	40	•		138							
	Jamo 507A	700	Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch	1 2	22,94,37	•	88 3	40	•		174							
0	JBL LX2	250	Invigorating, if a touch crude, this good-hearted speaker reproduces music with enthusiasm	and a second	22,40,27	2-270	87 8	40	•	SE SE	170							
	JBL Ti200	400 700	Very substantial standmount knows how to rock and roll, but can sound uncouth on more delicate m		21,41,30	4	92 5	40	•		193							
0	JBL L20 JBL SVA1500	700 700	Pricey, heavy and a bit laid-back, but this is a fine rock'n'roller which is dynamic and communicativ  A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump		26,42,28 7.5,51,31	D. J.	86 8 86 8	30 40	•		138 174							
0	JBL L40	1,000	Classic, large, three-way standmount is full of vim and vigour, with a superb sense of balance		7.5,51,51 30,65,31		88 4	23	•		167							
0	JBL 4312 II	1,000	Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll		56,60,30		94 4	25		•	190							
0	JBL SVA 2100	1,250	Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxines	-	57,114,52	•	91 8	<20	•		180							
0	JBL L90	1,500	A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit	crude 2	24,94,35	•	91 6	23	•		143							
	JBL LX70	550	Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy, scratchy tr		5.5,94,30	•	91 4	33	•		183							
	JMLab Tantal 507	295	Competent all-rounder, this compact standmount has a good heart and sweet treble, but sounds a bi	200000	21,38,27		93 4	40		•	193							
0	JMLab Tantal 515 JMLab Cobalt 815	495 999	Lively and open if bright. Sound is entertaining and informative, but presentation is nondescrip Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dy		20,94,26	•	92 5	32	•		183							
0	JMLab Electra 905	1,200	Compact but massively engineered, delivers a very classy sound with exceptional dynamic range	- Albertain	22,100,31 3.5,47,28		90.5 9.5	40	•		204							
w	JMLab Spectral 909.1	1,375	Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and swee	*******	27,107,35	•	90 4	20	•		180							
	JMLab Electra 915	1,795	Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delice	-	5.5,106,36	•	92 4	20	•		195							
0	JMLab Mezzo Utopia	7,250	Looks good and sounds even better. A genuinely big speaker with fantastic coherence	-	5,115,47	•	92 4	30	•		186							
0	JPW Mini Monitor	60	Ultra-cheap miniature works well in a limited way	-	8,27,17.5	12-21	86 8	50		•	156							
0	JPW Gold Monitor	80	More informative than Mini Monitor — but fiercer, too		8,27,17.5		86 8	50		•	156							
0	JPW ML510	130	Lots of good quality speaker for the price, but not an ideal match for cheap budget components	-	20,34,22		88 5	50	•		169							
0	JPW ML910 JPW ML1010	330 400	Loads of speaker for the money, plenty of headroom and loudness capability, but sounds dull  A seriously substantial speaker for the price, and an obvious choice for those who like their music		3,104,30 2.5,115,40	•	91 4 91 6	43 25	•		183							
w	JPW Ruby 1	400	Very pretty but pricey luxury metal-cone miniature has good if slightly edgy balance	-	19,32,21		87 6	55	•		139							
0	JPW Ruby 4	1,000	Twin metal-cone main drivers improve the dynamic performance and bass extension, with little sacrific		22,94,26	•	88 8	25	•		174							
0	KEF Coda 7	129	Lovely open voice reproduction, but bass could be more taut and build tougher		18,30,23		88 6	50		•	156							
	KEF Cresta 2	149	A good looking/value package but sonically disappointing, and no match for the Q15	-	0.5,37,24		91 4	40		•	195							
0	KEF Coda 8	189	Outstandingly well-balanced, bass is deep but a little vague	10,0000	0,32.5,29		86 6	28			156							
0	KEF Q15	200	Beautifully balanced and voiced standmount, but a potentially tricky amplifier load at high frequency to the standard standard frequency to the standard sta		0.5,31,27		90 2.5	30		•	187							
	KEF Coda 9 KEF RDM One	299 499	Uneven budget three-way floorstander with poor bass definition  Cute and tiny, nice midband but lack of bass warmth and weight	WASHING THE PARTY OF THE PARTY	20,86,28 23,30,24	•	89 6 88 6	30 70	•	•	156 164							
	KEF Q65	799	Dumpy-looking three-way has loads of bass and a laid-back midband; goes loud but lacks poise and		23,95,31	•	92 2.5	25	•		190							
	KEF RDM Three	1,500	Definitely a speaker aimed at long-term satisfaction rather than immediate impressiveness. Nice		4,100,27	•	90 4	40	•		189							
	KEF Reference Model 2	1,599	Classy, large floorstander that has massive headroom and clean mid-to-treble, but limited deep base	-	23,103,34	•	89 4	30	•		167							
0	Keswick Audio Aria II	379	Confident and dynamic sound, if a little crude and shut in		21,42,24		89 8	20	•		148							
0	Keswick Audio Torino	999	Good value, lively contender with distinctive styling. Goes loud and deep but could be smoother	*******	-26, 93,28	•	90 4	20	•		167							
0	Linn Kan	295	Great bass discrimination from size, ensuring a very informative, if slightly shut-in experience	-	19,31,19		86 4	45		•	187							
0	Living Voice Auditorium	750 1,500	Stunning timing and coherence, awesome bass drive  Pretty, compact floorstander has wonderful coherence, high sensitivity and fine dynamic integrity	-	20,83 <b>,2</b> 8 1.5.98.29	•	87 4 91 4	22		•	138							
() (E)	Living Voice Auditorium  Living Voice Avatar OBX-R	4,000	Discreet but extremely fine design with external crossover and an affinity with valves	100000	1.5,98,29		89 8	45	•		196							
•	Magnat Vintage 320	350	Loads of speaker for your money, but the sound is thick, heavy and lacking in presence and au	0200000	5,102,30	•	90 4	20	•		201							
	Magnat Vector 77	450	Tall, dark and a lot of speaker for the money. Beautiful balance, but lacking in subtlety and transp	-	2,115,29	•	89 5	30	•		183							
0	Magnat Vintage 720	1,200	Slightly crude in some respects but lots of heart, fine scale, decent dynamic coherence and integrit	у 2	9,113,32	•	88 4	20	•		180							
	Martin-Logan Prodigy	8,967	Combines the finesse of an electrostatic with the grunt of cleverly engineered cone bass to good el	****	12,179,71	•	91 4	28	•		204							
	Mirage FRX7	550	Neat slim floorstander has a heavy, laid back balance, probably better suited to movie than music repr	- Contract	7.5,95,32	•	90 4	25	•		204							
0	Mission 700 Mission 771	130	A lot of speaker for the money. Good bass weight and extension and goes loud with ease	1000000	18,34,26		87 8	40		•	179 187							
0	Mission 77C	170 199	Beautiful standmount miniature has a delightfully well balanced and voiced sound, and real wood  A good centre-front match for 77-series, the triple tweeter might be a curiosity, but voicing is ver	-	42,17,21		91 4	100		•	198							
0	Mission 77DS	199	Neat flush-mount surround speaker has no bass but a smooth midband and nicely restrained t		34,26,12		92 4	120		•	198							
w	Mission 780	299	Gorgeous miniature has a fine midband and clean, bright treble, slightly odd bottom end	-	6.5,28,27		86 6	40	•		201							
0	Mission 773e	400	Beautifully designed slim floorstander could be more neutral but still delivers an all-round entertaining	- Distriction	7.5,88,26	•	92 4	30		•	193							
0	Mission 774	500	Gorgeous floorstander is an entertaining communicator, despite some balance oddities (bright	treble)	18,95,31	•	90 4	40	•		183							
0	Mission 782	699	Ultra-compact floorstander has a glorious midband and slightly odd bass. Good communication	(300000	6.5,82,28	•	86 9.5	25	85	•	199							
0	Mission 775e	800	Lots of speaker for the money, and musically involving too, if a little short of serious weight and	- named and a second	23,115,30	•	93 3	25		•	204							
0	Monitor Audio 702PMC	700	A good all-round standmount with intimate midband focus	- CONTRACTOR OF THE PERSON NAMED IN CONT	20,40,25		87 8	30	•		174							
0	Monitor Audio MA703PMC  Musical Tech Kestrel Evolution	800 315	Lovely but pricey floorstander has upfront, coherent, 'shiny' sound  Cutely styled, deverly compact and a smooth, subtle and coherent performer, best suited to smaller		20,89,27	•	88 8 86 4	50 40	•		160 201							
0	Musical Technology Harrier	400	Very pretty package, good measured performance and even sound. Sensitivity is low, and dynamics	-	25,80,23		86 8	25			152							
0	Musical Technology PM15	450	A subtle, understated but very involving example of the 'classic' luxury-finish compact standmon	2000000	20,41,27		88 5	38			183							
0	Musical Technology Falcon	680	Big speaker has a big but also surprisingly smooth and civilised sound. Fine material value too	3	3,117,30	•	89 4	22	•		190							
0	Musical Technology Condor	1,000	Lots of clever ideas in a floorstander, which places transparency and smoothness ahead of dynamic	ic drama	25,91,23	•	85 4	28	•		174							

Loudspeakers

SIZE WARD (CM)

FLOORSTANDER (db/N)

(CM)

FLOORSTANDER (db/N)

(CM)

FLOORSTANDER (db/N)

(CM)

STATI				CM) CR	- W	(2)	(nz)		-		
ᅜ	PRODUCT	(£)	COMMENTS	V	V	V	<b>V</b>	V	V	- V	
0	Naim Intro	660	Great dynamic range and info retrieval, but thin, lacks warmth	24,89,27	•	89 6	100	30	•		164
0	Naim Credo	1,060	Involving sound, but rather forward and cold. Good clarity, but some coloration and a lack of richness	24,89,30	•	88 8	_	28	•		180
0	Naim SBL Passive	1,970	Lively and punchy – smoother but more upfront than before	27,89,27 29,116,47	•	88 6		25 20	•	•	143
E	Naim NBL Neat Critique 2	6,648 445	Elegant, large floorstander is exceptionally informative with an awesome dynamic range and dry, forward balance Contemporary standmount has a clean, crisp sound with lovely natural midband voicing	29,110,47		86		50		•	183
0	Neat Mystique Mk2	575	This elegant package delivers a fine overall sound quality; some might find the top end too insistent	20.86.18	•	85 6		73	•		177
0	Neat Elite	1,195	A highly entertaining all-rounder, has a planar tweeter that sounds sweet, if not particularly smooth	20,88,18	•	88.5		25	•		195
Ψ	Neat Petite II/Gravitas	2,000	Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound	23,105,40	•	85 6		25	•		167
0	NHT Super One	250	A fine compromise between size and performance, sensitivity and hence loudness capability is modest	18.5,29.5,23		85 8	_	30			170
0	NHT 1.5	400	This compact standmount sounds much bigger than it has any right to. Good timing and communication skills	18,42,19-26		85 6	5	40	•		177
0	NHT Super Two	550	Black and shiny compact three-way floorstander has marvellously even balance and good coherence	18.5,100,26	•	87 8	5	25		•	199
	Opera Prima	495	Good-looking hardwood enclosure, plus fine mid and treble, but less satisfactory bass	19,34,31		90 4	_	40	•		190
	Origin Live Conqueror	1,650	Chunky floorstanding three-way has lovely cabinetwork and lively sound, but limited deep bass	24,94,27	•	88 8		30	•		167
0	Orelle Swing	1,200	A superb example of what an essentially small loudspeaker can do, with bags of brio and enthusiasm	18,101,28	•	87 8	- 94	45	•		195
0	PMC TB1S	430	Pro-audio version of TB1, cheaper because of black paint finish	20,41,30		87 6		4()	•		177
0	PMC TB1 PMC LB1	482 999	A classy, laid-back performer that likes going loud and loves the bass guitar  Still fully competitive eight years after our original review, this genuine compact monitor is now a modern classic	20,40,31 17.5,53,26		87 8 87 6	- 6	40	•		160 199
0	PMC FB1	1,275	Handsome floorstander has the lively coherence of a simple two-way alongside impressive bass weight and extension	20,105,31		88 (	- 6	20	•		204
0 0	Polk LS50	800	No enthusiast tweaks here, but powerful and beautiful balance	27,83,29	•	89 8	200	25	•		138
w	Polk RT16	799	Bass rich, lively and powerful, but suspect top end; big and not very pretty	22,105,39	•	91 4	-	22	•		160
	Polk CS 1000p	999	Monstrously large and heavy centre-front speaker, presumably for those with monstrous intentions	87,22,35		92 4	11 100	25	•		198
	Polk RTE 1000p	1,300	Tall elegant tower with built-in powered bass 'subwoofer' that needs using with discretion. Bright but engaging	20,110,35	•	91 4		25	•		198
	ProAc Response 2.5	2,700	For aspirant high-enders looking for seriously good boxes, this speaker should be first port of call	22,107,25	•	86 8	_	30	•		149
	ProAc Tablette 2000 Sig.	899	Beautifully veneered compact stand-mount is classically balanced, if a little on the bright side of neutral	19,36,26		87 6		30	•		204
	ProAc Studio 125	1,000	Pretty if pricey compact floorstander with a beautifully natural and neutral midband, and some bass thump	20,94,28	•	87 8	_	28	•		192
	QLN Signature	1,000	Attractive pyramidal standmount with heavy, laid-back balance but remarkably unboxy sound	27,37,36	•	83 4		25	•		167
0	Rega Jura	450	Beefy sounding, chunky floorstander sounds very 'direct coupled' to the music, if a touch 'boom'n'tizz'	22.5,92.5,26	•	90 5	-	25	•		193
0	Rega ELA Mk II	498	Pretty and smooth, the latest incarnation has a superb midband and excellent communicative skills	30,80,20	•	87 8		40	•		139
0	Rega XEL Rehdeko RK 115a	1,040	Looks and sounds great: balance bright but even, with delightful coherence and timing  Single-driver system has limited bandwidth and obvious coloration, but wondrous dynamic coherence	20,82,30	•	89 6 95 8	_	40 55	•		132
0	RMS Revelation Series 1	1,700 1,299	Innovative metal-box compact with integral port/stand – clean with good timing but very laid-back balance	34,42,27 20,99,24	•	95 8	_	22	•	•	167 167
	Roksan ROKone	595	Large standmount is musically very communicative, if a little coloured	21,45,33		89 6	_	30	1000		160
0	Roksan Ojan 3 Black	795	Squat, stylish and black, great bass extension and somewhat uneven balance	28,76,46	•	88 88	-	20	•		132
0	Roksan OJ3X Black	995	Innovative low-line, two-way floorstander with decoupled tweeter; great bass and fine dynamic range	28,79,46	•	84 8	-	20	•		167
o	Royd Minstrel	275	Not much welly or loudness, but fine coherence and timing; a bit bright	18,69,12		86 8	-	30	•		135
0	Royd Doublet	485	Great value compact floorstander: lively and very informative, if a little uneven	18,93,19	•	90 4		28			160
0	Royd The Sorcerer	595	Extremely musical and communicative speaker that's fun to listen to. Aesthetics could be better, though	20,31,18		86 8		35	•		139
0	Ruark Epilogue	269	Beautifully finished miniature with a lively balance and plenty of charm; best suited to smaller rooms	17,29,23		87 8	-	47			183
	Ruark Sceptre	599	'Traditional' cabinetwork with classy veneer and shiny gilt fixings, hampered by rather wayward sound balance	21,38,31		87 8		40	•		174
	Ruark Prologue One R	949	Strikingly contemporary compact floorstander is well voiced but a little lean in overall balance	17.5,93,28	•	88 5	-	25	•		204
0	Ruark Crusader	1,599	Elegant luxury three-way with wonderfully even-handed, if rather laid-back balance	24,94,31	•	85 6	1000	22	•		167
0	Ruark Equinox Ruark Excalibur	1,849 7,000	The primary strength of this speaker is its ability to vanish behind the music  A big, handsome speaker with a big, laid-back but open sound, rocking bass and loads of headroom	25,88,34 30,125,53	•	90 4	-	45 30	•		140
0	Sequence 400	329	Clever hang-on-wall panel is well voiced, though bass isn't too great	25,100,7		86 8	- 500	45		•	164
w	Silverado Raider	695	Beautifully built audiophile compact: neutral if bright, tough work for amps	20,40,25		83 3	-	30		•	164
	Snell K.5	795	Classy AV-ready stand mount is very solidly engineered. Sound is neutral but lacks excitement	22,46,30		87 6	_	25	•		190
		4,500	Active bass floorstander with marvellous mid coherence, slightly suspect bass integration.	28,117,50	•	91 6		25	•		194
	Soliloquy SM 2A3	1,095	Fine match in balance, coherence, transparency and speed. Intended for use with Cary CAD 2A3SE	35.5,19,30		91 8		45	•		196
	Sonus Faber Concertino	599	A beautifully neutral loudspeaker in a beautiful Italian suit of clothes. Classy, if quite pricey	21,32,29		87 5		30	•		193
	South Coast Speakers Lancelot		Pretty compact standmount has nice ribbon tweeter but sounds a bit soft and lacks dynamic vigour	19,36,26		84 8		45	•		199
_	Spendor 2030	599	Discreet slimline floorstander with delicately coherent, laid-back sound	18,89,27	•	87 8	_	30	•		160
O .	System Audio 1130	499	Super-slim, super-smooth, involving experience, but not ideal if you like your bass deep and loud	3,100,21	•	89 4		43	•	SEE SEE	183
	System Audio 1150 TAG McLaren F1	749	Pricey but persuasive, sonic subtleties sneak up to confound a dodgy first impression. Super-slim	16,105,26	•	90 4		30	•		190
0	Tannoy Mercury M1	15,000 120	Oddball aesthetics with accurate, unflappable, controlled and a consistent sonic neutrality  Sounds much bigger and expensive than it is. Solid, tuneful bass, wide open soundstage, excellent imaging	40,127,48 17,30,20		87.5 8 87 8	- 023	25 50	•		202 179
0	Tannoy Mercury M2	140	A fine all-rounder with big box and deep bass for the price; could be sweeter and tighter	20.5.38.28		87 8	-	25			169
<b>.</b>	Tannoy R1	200	Pretty little mini-monitor is smooth, well mannered and polite to a fault, lacks dynamic expression	17,30,22		86 4	-	30	•		187
0	Tannoy Saturn S6C	200	A punchy compact standmount based on a serious cast-frame, pro-style dual-concentric driver	38,21,29		89 6	-	25			198
ŏ	Tannoy Mercury M3	230	Good-looking floorstander; very neutral and even-handed, with fine midband but weak dynamics and drive	20.5,87,28		87 7	-	20	•		170
o i	Tannoy mX	300	A great all-round compromise at a very modest price, combining good looks with fine midband voicing	18.5,87,26	•	90 5	-	40	55		201
0	Tannoy Revolution R2	350	Bargain price real wood floorstander is beautifully voiced and very even-handed, if a tad laid back	17,94,24	•	90 4		20	•		193
0	Tannoy Saturn S6LCR	400	A punchy compact standmount based on a serious cast-frame, pro-style dual-concentric driver	21,38,29		89 6	-	25			198
0	Tannoy Saturn S6	500	Fine value vinyl floorstander offers plenty of genuine grunt and real dynamic tension	21,89,29	•	91 4	100	20	•		198
	Tannoy Revolution R3	550	Handsome real-wood floorstander does a decent job, but lacks the evenness of its smaller R2 brother	18.5,103,28	•	89 8.		28	•		199
0	Tannoy D300 Tannoy D500	999 1,999	Gorgeous-looking compact floorstander. And a fine all-round performer, too	16-24,85,23	•	87 6	-	26	•		167
0		6,600	Plenty of muscle and stereo, but short of poise and delicacy. Hard work for amps These awesome horn-loaded speakers are remarkably controlled and impressive	31,93,34 large	•	91 6 99 8	-	20 38	•	•	143 C93
Ψ .	Technics SB-M20	200	Well-balanced with natural perspectives and fine midband coherence, but bass is a bit boxy and uneven	20,32,23		70 8	-	50	•		148
-	Technics SB-M500	450	This model offers a clean, open sound, offset by midbass, heavy balance and low sensitivity	25,78,37	•	85 8		25			152
	Triangle Cometes	359	Communicative standmount has great midband dynamics, but the very bright top end might be intrusive	22,40,29		91 4		42		•	193
o i	Triangle Zephyr II	599	Loads of fun. Dramatic dynamics and righteous timing will give any hi-fi system a wake-up call	22,94,29	•	91 4	1	25	•		190
o [	Totem Model One	1,195	Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size	17,31,23		87 4	2	28	•		122
E		6,000	Loads of fun with wonderful dynamic and temporal integrity from horn-loaded Lowther drivers	30,110,47	•	104 4	_	50		•	191
~ -		1,500	Gorgeous slimline floorstander sounds very laid-back but very charming, and musically literate	17,97,30	•	88 7.5	2	25	•		199
-		20,000	Deep and even bass sets new standards for cleanliness and clarity; lovely open midband too	23,161,561	•	89 4	-	20	•		189
-	Wharfedale Diamond 7.2	140	A good-hearted, lively and up-front performer that's a little lacking in subtlety and smoothness	19,29.5,23		88 4	-	45	•		169
-	Whatfodalo Valdus 400		Lively and exuberant, but a tad untidy with it; can sound a bit cold and hard	19,29.5,24		88 4	-	10	•		187
	Wharfedale Valdus 400 Wharfedale Valdus 500	200	Very loud with a minimum of amplification, but the sound is thick and uneven, with a heavy upper bass  These rock boxes can move plenty of air, albeit not as subtly as alternatives.	25,80,26	•	91 8	3	30	•		148
<b>D</b>	manedale valuas 500	300	These rock boxes can move plenty of air, albeit not as subtly as alternatives	25,108,26.5	10	91 4	223	TU I		101	155
					ISA	otember	200	rr i 📆 🖁	125 1 1 1 1 1	41011d S	12

Loudspeakers

SPECIFICATIONS

SERVITATION S

FLOORSTANDER COMPACE OF THE SPACE TO WALL OF THE SPACE WALL OF THE SPAC

2	PRODUCT	<b>(£)</b>	COMMENTS	V	~	V	V 1	<b>V</b>	•	V
0	Zingali Overture 2S	1,975	Gorgeous, pricey, imposing standmount has a horn tweeter of great delicacy. Impressively weighty	30,57,38		90	8 2	•		195
1	SUBWOOFERS									
1	Acoustic Energy AE108S	299	Lots of loud subwoofer for your money, though ultimately more film than music oriented	50,42,43			20		•	179
1	B&W ASW1000	499	(Active) Very competently engineered all round, and goes (unnecessarily) very loud	54,47,48	Tyre .	Α	20		•	179
0	JB&W SW1000	499	Bulky heavyweight is a high quality item, able to generate more bass output than music is likely to need	54,47,50	•	Α	A2	•		198
0	JPW SW60	349	A real heavyweight, sounds clean and transparent, if perhaps a little understated. Usefully flexible	55,47,39		831	20		•	179
	KEF Model 30B	499	(Active) Commendably discreet with good sense of timing but limited extension	38.5,37,43	•	Α	45			154
0	M&K MX70	900	(Active) Justifies cost and belies its diminutive size, with an agility that makes sense of the toughest material	25.5,46,35		Α	25		•	179
	Mission 7AS2	399	Ugly if very effective at supplying very low bass, but filter could do with more flexibility higher up	56,30,31	•		<2	) •		198
0	REL Q50	375	(Active) Genuinely deep, clean bass from an attractively compact and cost-effective package	40,41,42		Α	20		•	179
	Soliloquy S10	1,050	(Active) Pretty subwoofer, cosmetically matching SM 2A3 speakers, pricey and mid-bass a bit strong	51,30.5,46	•	Α	25	•		196



#### **Stands & Supports**

Hi-fi supports are more important than you might imagine — they can have very unsubtle effects on the sound of your system! There are two kinds of support: those for equipment and those (stands) for loudspeakers. Equipment supports keep vibrations and resonances from affecting electronic components, while speaker stands hold enclosures stock-still and ensure they are at the correct height for your ears. Equipment supports may be rigid affairs fabricated from steel or more exotic materials; or they may have a form of suspension. Speaker stands come in a variety of sizes and styles to suit different models, and vary between open-frame and solid-pillar types. Always check with speaker and electronics manufacturers to see which supports they recommend.

#### KEY TO SPECIFICATIONS

● HEIGHT (cm): How tall is your support?
■ TOP PLATE SIZE (cm): Dimensions of top surface on stand or equipment support.

FILLABLE: Some speaker stands can be mass-loaded with sand or lead-shot to improve sound.
 WELDED: The better stands and supports are

welded together rather than just bolted.

NUMBER OF SHELVES: The number of tiers on an equipment rack or support.

SHELF TYPE: The material from which shelves

are made. Wood generally means Medium Density Fibreboard (MDF).

● FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback section of our Archive page.

ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

BEST BUY

RECOMMENDED

E EDITOR'S CHOICE

Stands & Supports

TOP PLATE SIZE (CM)

NUMBER OF SHELF TYPE

MEIGHT

NEIGHT

NUMBER

NEIGHT

NUMBER

NEIGHT

5	PRODUCT	(£)	COMMENTS	_	•	•	V	V	_	V
	<b>EQUIPMENT SUPPORTS</b>									
0	Aavik Furniture A4	350	Good sound and stylish Scandinavian looks at an affordable price	80.5	47			4	Wood	193
	Alphason GR 17/17-AS	275	Great looks but sound can be bettered for the money	36	60,39			4	Glass	181
	Apollo Soprano	275	Uninspiring looks and sonic performance that can be beaten at this price	68.5	45.5	-31	Late	4	Glass	193
0	Atacama Europa	240	Stylish, expandable modular design with agreeable full-bodied sound – great value	67	48.6	100		4	Wood	193
Ö	Audiophile Furniture Base	615	Price is justified by its earth-shattering sonic abilities – a worthy upgrade	82	43			4	MDF	193
Ö	Avid Isoschelf	1,100	An enthusiasts equipment support stand free from coloration if a little fiddly to set up	87.5	48			5	MDF	193
0	Elemental Isotube x 4/Ref	1,199	Blockbusting size and build. Super sound quality	92	45,49	1	•	4	Marb	181
O	Elemental Audio Isotube X4	849	A hefty stand that demonstrates just how much difference a good support can make	90	49		•	4	Glass	193
•	Fi-Rax R4	399	Lively, exuberant sound, slightly weak bass					5	Glass	151
0	Frameworks H500/H175	404	Two-shelf stand and isolation platform combo in tubular steel – made a spectacular impression on audition	70	52,34		•	3	Glass	166
	Ixos Deadrock 704	250	Looks unassuming but sound is full and inviting		46,39			4	Resin	181
0	Mana Acoustics Ref. Table	350	King of its type: angle iron, chipboard and glass combine to make a significant difference to sound quality	56	49,39			1	Glass	147
ŏ	Mana 5 Tier Sound Table	600	Infinitely upgradeable. Persuasive and thrilling glass and angle-iron design that adds speed and bandwidth	91	49, 39		•	5	Glass	151
Õ	Optimum Int 2000 OPT490	299	25kg stand with shelves between variable-height tubular uprights. Sounds smooth and relaxed with sturdy bass	50	60,40			4	Glass	166
Ö	Optimum Int 2000 OPT660	349	Glitzy style isn't reflected in sound, which is wholesome	82	60,52			5	Glass	181
_	Projekt Furniture A4	215	An elegant support stand that blends in to any home environment with a laid-back sound	56	48	100		4	Wood	193
0	Quadraspire Q4	250	Easy to live with, tonally neutral	54	40,49	100		4	MDF	151
ŏ	Sound Organisation Z560	160	Welded and bolted members give structural integrity. While performance is not up with the best, it's great value	90	46,36		•	5	Wood	166
0	Sound Organisation Z545	160	Budget price and great looks make this a great value stand	73	46		•	4	Glass	193
0	Soundstyle X100	230	Looks lovely, sounds lively but slightly bright	64	49,28	133	•	4	Glass	181
w	Soundstyle Radius SR100	280	Stylish looks and a smooth sound	63.5	49.5		•	4	Glass	193
0	Soundstyle Select 6105	290	Respectable sonics: structurally solid and smart	78	43,36			5	Glass	151
۳	Soundstyle Finewoods W105		Veneered shelves clamped between tubular uprights. Delivers with classical material	82	48,27			4	Wood	166
ı	Stands Unique Sound Tower	289	Wooden uprights combine with glass shelves to provide a fresh, forward sound, but bass could be quicker	81	72,42			5	Glass	151
0	Standesign Design 4	190	An all-in-one support at a budget price with good sonic performance	88.5	50.8		•	4	Glass	193
Ö	Target B5	175	Free of colorations, fine grip and good value	81	49,36		•	5	Wood	151
o	Townshend Seismic Stand	1,245	It's big, it wobbles and it's pricey. But this is the ultimate equipment support	72	58,45			3	Wood	181
ŏ	Wilson benesch Asside	590	Sounds even better than it looks. And it looks wonderful	72	37.50			4	Wood	181
10	SPEAKER STANDS									
ı	Alphason Akros II	65	A well-specified budget stand but the sound is as subtle as a house party	60,45	16.5	•				202
ı	Alphason HDS	85	A reasonable stand with a smooth but rather bland sound balance. Good finish options	45-60	15.5,15.5	•				189
	Apollo Olympus	75	A popular stand and a decent performer, but unremarkable by today's standards	40-60	15,12.5	•		1 19319		189
1	Apollo AZ6	80	Fine engineering value, but sound is unexceptional and top-plate small	66	15,13	•	•			159
	Apollo A4/6	82	A pretty and robust design that sonically fails to stand out from the crowd	51,40.51	18	•				202
0	Atacama Nexus 6	50	An excellent all round performer and a genuine hi-fi bargain	60,50	14.5.18	•				202
0	Atacama BD21	55	Good looking and good value, but doesn't match the SE24's sound quality	56	15,17	•				159
Ö	Atacama R724	150	Atacama uses its market strength to deliver a superbly appointed product at a very reasonable price	60	15,17	•	•	1000		189
o	Atacama SE24	70	Stands out from the budget crowd because of the consistency and overall quality of its performance	61	19.5,17	•	•	To the		146
0	Custom Design R/S300 MkII	100	A solid stand improving on the original with better focus and detail	61,56,51	16.5,18	•				202
Ö	Elemental Isotube SZse	599	Stands of distinction, able to free the speaker's sound from its box in a way budget stands simply can't	61	23,27	•	•			189
Ö	JPW HS1	120	A purposeful stand, a touch dry-sounding but particularly strong with bass. Great for rock and dance music	61	19,21	•	ES (S			189
Ö	Mana Sound Base	175	The Sound Base plinth simply improves the sound of every speaker placed on it	8	29,32			1111		202
u u	Mission Stance	100	Detailed and open but needs a firm foundation to give its best	60	19,15	•		THE P		202
0	Partington A-4	119	An oddball stand with a sound that's sheer class. More open and focused than almost anything below £150	50-100	19,22	•				189
Ö	Partington Dreadnought Ult.	299	Super heavyweight stand that is an open window to the speaker placed on it	63	20.5,23.5	•				202
0	RMS/Stands Unique Vivus	349	Pricey carbon fibres give ultra-clean sound with exceptional voices	50	N/A	VIAN B		177		159
<b>"</b>	Russ Andrews Torlyte	599	Subtle and musical-sounding stands, though a touch more 'pizzazz' is need for Recommendation at this price	61	33.5,24					189
ı	Sonus Systems Excel	110	Strong performance when filled with sand but design flaws let it down	65,45	20,22.5	•				202
	Sound Organisation Z524	69	A coherent-sounding stand with particular strengths in the midband, though quality drops at the frequency extreme		16,17	9401				189
0	Sound Organisation Z522	89	Easy going and likeable performer straight out of the box	59	16,17			V- 1		202
	0		10.0							

### Stands & Supports

SPECIFICATIONS TOP PLATE SIZE (CIN) NUMBER OF SHELVES ISSUE NUMBER SHELF TYPE FILLABLE WELDED HEIGHT

S	PRODUCT	(£)	COMMENTS	$\mathbf{v}$	V	V V	V	<b>V V</b>
	Sound Style Select	95	OK but not as good as its cheaper brother the Z522	59	16,17	•		202
0	Stands Unique HP	220	Real wood disguises high-performance tuned technology	59	22,23	100	1070	159
-	Target HM60	106	A solid and well-built stand laid-back to the point of coma	40-70	16.5,19	•		202
0	Target R1	280	Truly high-mass four-pillar design with superb weight and speed, giving music delicious attack	53	15,21	•		146
0	Target TR60	68	Lively, dynamic midrange and detailed treble from a less-than-audiophile-oriented, twin-column design	60	15,15	•		146
0	Townshend Seismic Sink	499	Unique inflatable plinth that works well with decent floorstanders as well as standmounted speakers	4	38,48			202
							All the second	DESIGNATION OF THE PERSON OF T



#### **Tonearms**

ess expensive tumtables are usually supplied with a matching tonearm (and often a 'starter' cartridge, too). However, hard-core vinyl fans should invest in a more expensive separate motor unit with specialist tone-arm — the only way to make the most of vinyl LPs. It is essential to achieve operational synergy between such components, so this is one area of hi-fi where the skills of a knowledgeable dealer are invaluable. The quality of a tonearm's construction and design affect sound quality significantly. There are three basic arm designs listed in the key, and each has strengths, but pivoted designs are the most popular, being usually the most practical and affordable

#### KEY TO SPECIFICATIONS

compliance. Generally high mass arms are suitable 

ADJUSTABLE HEIGHT: Important for for low compliance cartridges and vice versa.

 PARALLEL TRACKING: An arm which allows
 FACTSBACK REFERENCE: The Factsback the cartridge to track the disc in a linear fashion. PIVOTED: Arms which allow the cartridge to describe an arc as they traverse the record.

• UNI-PIVOT: Pivoted arms with a bearing that allows movement in two planes

• EFFECTIVE LENGTH (CM): Length of the

- accurate cartridge set-up.
- Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback section of our Archive page
- O ISSUE NUMBER: The issue of Hi-Fi Chaire in which an original review appeared.







### **Tonearms**

STATUS		88	ırms	EFFECTIVE	LEI PIVOTED MASS	FFECTIVE LE	ON S  USTABLE LENG	WMBER TH	
S	PRODUCT	(£)	COMMENTS				Value Val	V	
0	Kuzma Stogi Ref	1,250	Large, solid and well made arm, gives exceptionally clear sound with just a hint of brightness		High	•		•	79
0	Linn Ekos	1,500	Superb, state-of-the-art design which builds significantly on predecessor's strengths		Medium	•	229		67
0	Moth/RB250	109	The ultimate budget arm? Refined, sweet, detailed and natural		Low	•	237		60
0	Rega RB300	174	Despite its modest price it sets exceptional standards and could be used on many high-eight	nd turntables	Low	•	237		60
0	Roksan Tabriz Basic	350	Targeted at the Xerxes, this is a good alternative to the Rega arm in many cases – a touch bright		Low	•	240	•	91
	SME Series IV	983	Superb engineering and finish with a finely balanced sound, impressive stereo focus and low of		Low	•	233		60
0	SME Series V	1,461	Excellent in all respects, this arm arguably sets the standards for pivoted arms, regardless of pri	ice	Low	•	233	•	60



#### **Tuners**

TV has stolen radio's status as the foremost broadcast entertainment medium, but with its Radio Four plays and Radio Three music, the BBC still makes a potent case for audiophile reception equipment. For how much longer, under the cost-conscious Birtist régime, remains to be seen. Another new imponderable is the arrival of digital radio broadcasting, though reception apparatus is currently non-existent outside of the in-car market. These days tuners play second fiddle to hi-fi sources like CD, but in many ways they are a greater engineering challenge than digital equipment, and thus higher pricetags dearly equate to superior performance. High-quality, roof-mounted antennae are essential for audiophile listening, so factor them into your budget

#### KEY T O ● WAVEBANDS: FM - (VHF),

- MW. L - LW PRESETS: Number of station

equencies that can be stored. • RDS: (Radio Data System) vas originally designed for in-car applications. RDS tuners can identify and display the name of the radio station being received, traffic news and other information about broadcasts

#### ● REMOTE CONTROL · Infrared control handset supplied. SIGNAL STRENGTH

METER: Indicates strength of signal from aerial - useful for aligning your 'twig' during

• ROTARY TUNING KNOB: Experience has shown that this analogue throwback is ergonomically far superior to the

#### SPECIFICATIONS

The Factsback Reference number permits direct access to our faxed review reprint service. For full info. see the Factsback section of our

• ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

BEST BUY

RECOMMENDED

**EDITOR'S** CHOICE

### **Tuners**

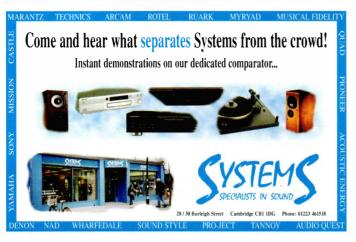
SPECIFICATIONS	
MANEBANDS PRESETS ROS CONTROL  MANEBANDS PRESETS ROS  MANEBANDS  ROS TO INSUE NUMBER  ROS TONIROS  ROS TONIRO	
WAVEBANDS PRESETS ROS CONTROL  WAVEBANDS	
BANDE SETS TOS CONTROTH AND WOMEN	
MOI WELED WOB SEN	

STA				-	9	-	-0	-4	-0	-
S	PRODUCT	(£)	COMMENTS	V						
0	AMC T7	130	Performance adequate but price is sharp, especially with remote control. Some hum	FM, M	30		•			166
0	Arcam Alpha 7	230	Indifferent RF performance but a touch of audiophile sound quality with clean, strong signals	FM,M,L	24					166
ŏ	Arcam Alpha 10 DRT	800	The first DAB tuner and arguably still the best, but the system's still not perfect	DAB	7	•	•	•	•	199
0	Cambridge T500	180	Very capable tuner suited to good and less good reception conditions	FM,M,L	64			•	•	193
0	Creek T43	399	Quality UK-made tuner offering classy sound in all areas at a very fair price	FM,M,L	64		•	•	•	193
	Cymbol C-DAB 1	1,000	The first 'high-end' DAB tuner, although format is the ultimate limitation. Gorgeous finish	DAB	8	•	•	•		199
0	Denon TU-260L II	130	The return of the all-time favourite, now enhanced with RDS and sounding as fine as ever	FM,M,L	40	•			•	193
0	Denon TU-425RD	200	A fine all-rounder with advanced RDS, good RF performance and decent sound. Remote extra	FM, M	40					166
0	Denon TU-1500RD	250	A well balanced and clean sound with good bass and treble extension	FM,M	40	•		STATE OF	•	184
	Magnum Dynalab FT11	499	All-analogue tuner: receives weak or tightly packed stations but loses out on noise and sonic neutrality	FM	3			•	•	184
0	Harman/Kardon TU950	200	Bulky but effective, delivering fine RF performance an'd good sound for the price	FM,M,L	30				•	166
0	Linn Kremlin	2,600	Controversially good sound at a very high price	FM	80		•	•		142
0	Marantz ST-48	120	A classic budget model which manages a performance only just behind much more expensive models	FM,M	60	•		- North		184
0	Myryad T-30	400	Attractive product that produces attractive sounds too: capable of very musical performance with a good aerial	FM	29		•	•		193
	Myryad T-10	530	A very smart unit which works well and offers good rhythmic drive and vitality, albeit at a price	FM	20	3		•	•	184
	NAD C440	200	Rather polite sound, a little vague at times, that seldom offends but never excites	FM,M	30	•				193
_	Naim NAT01	1,730	There may be better sounding tuners in the world, but we have yet to hear one	FM						142
	Pioneer F-504RDS	250	Cable-friendly with advanced RDS and excellent RF performance; slightly disappointing sound	FM,M	40	•		•	•	166
0	Pioneer F-504RDS Precision	300	Lots of features, plus a sound that's low on noise and high on communication, adds up to a good value package	FM,M	40	•		•		184
	Roksan Caspian	595	Neat facia with great ergonomics, but sound is not really any better than models at half the price	FM	50	0.00	•	•	•	184
1	Sony ST-SE500	140	A lot of features for the money, but sound lacks detail and has some coloration	FM,M,L	30	•		•	•	193
	Rotel RT-935AX	160	Good ergonomics and sound quality at a realistic price, but limited features and RF selectivity	FM,M	20	NE	-01			166
	Sony ST-SA3ES	250	Clean, lean presentation but needs a quality aerial to perform at its best	FM,M,L	30	•		•		157
					100			-		

September 2000 HI-FI CHOICE 127



### Award-Winning Speakers available from:



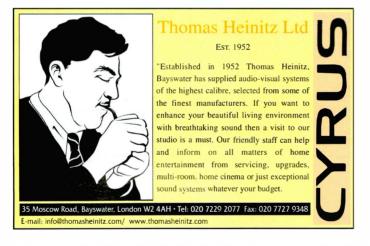






0% Finance available on selected items

- MANCHESTER: 65 Bridge Street 0161 839-8869
- PRESTON: 43 Friargate 01772 883958
- WARRINGTON: 88 Bridge Street 01925 632179
- BOLTON: 33 Knowsley Street 01204 395789
- CARLISLE: 106 English Street 01228 44792
- BLACKPOOL: 81 Whitegate Drive 01253 300599
- LANCASTER: 84 Penny Street 01524 39657



### Richard's Audio Visual

Stockists of all Mission ranges

0% finance subject to status

"Expert, friendly service" - Listening Rooms

**4 Greyfriars, Bedford Tel: 01234 365165**Mon - Sat 9.30 - 5.30

85 St Peters Street, St Albans Tel: 01727 868700 Mon - Sat 10.00 - 6.00, Sun 10.00 - 4.00

To advertise on the Mission Page call the advertising sales team 020 7317 2600

Choosing a good hi-fi dealer is the most vital step in acquiring the system that is right for you. This unique directory gives full information on dealers able to help in your area.

# DEALER Directory

Members of the British Audio Dealers Association are able to offer:

- 100
- Two year guarantee, transferable to another BADA dealer should the purchaser move more than 30 miles from his/her original address
- low cost five year guarantee option
- proper demonstration facilities
- seven day exchange or refund scheme if the dealer's advice is taken on product selection
- fully guaranteed service work
- customer complaints procedure in the event of problems

For more information contact BADA on 17 020 7226 4044

#### **BATH/BRISTOL**

THE RIGHT NOTE, tel: 01225 874728. Give your ears a new reference point for the best sounds at any price. Forget reviews and trying to put together a system like a patchwork quilt with the 'best' bits around. It's our job to do the assessing, you judge the results. Come here, or we'll come to you, and plan a system for the future, even if you spread the purchases. Leave "upgrade-itis" behind, save money and enjoy music. Just listen, and you'll know. Ask also about our ex-dem and mint used items if you must! Our credentials - CD: Acurus, Audio Synthesis, Classé, Enlightened Audio Design, Meracus, Orelle, Wadia, XTC. Vinyl: Basis, Graham, Michell, Sumiko. Amps: Arcurus, Audio Sculpture, CAT, Classé, DNM, Kora, Lumley, Meracus, Michell, Orelle, Sirius, Sonneteer, XTC. Speakers: Audio Artistry, Audio Physic, Ethos, Harbeth, Lumley, Magneplanar, Mirage, NEAT, Spendor, Totem. Tuners: Fanfare, Magnum Dynalab. Cables: Chord, DNM, Silver Sounds, SonicLink, Tice.

V' AUDIO, 36 Druid Hill, Stoke Bishop, Bristol BS9 1EJ. Tel: 0117 968 6005. Alon, ATC, Audiomeca, AVI, Cable Talk, Cadence Valve, Chord Amps, Electrocompaniet, Goldring, Harman Kardon, Heybrook, Inner Sound, Jamo, Leider, LFD, Lyra, Mark Levinson, Michell, Nakamichi, Opera, Oracle, Ortofon, Pink Triangle, Project, REL, Ruark, Shearne Audio, SME, Sonic Link, Stax, Townshend, Triangle, Trichord, Unison Research. Home Cinema including video projectors by Davis, Seleco, Sony, plus screens by Owl, Da-Lite and Stewart. Demos by appointment only. Home trial facilities, free installation, service facilities. Mastercard, Visa.

#### **BEDFORDSHIRE**

RICHARDS AUDIO VISUAL, 4 Greyfriars, Bedford. Tel: 01234 365165. Stockists of Arcam, Audioquest, Beyer, B&W, Bose, Cabletalk, Celestion, Cyrus, Denon, Marantz, Mission, Moth, Optimum, Ortofon, Pioneer, Pro-ject, REL, Rotel, Ruark, Sennheiser, Soundstyle, Stands Unique, Talk Electronics, Tannoy, Target, Teac, Van den Hul and more! Hi-Fi Listening room. Free credit available. Open 6 days 9.30-5.30.

#### **BIRMINGHAM**

MUSIC MATTERS, 351 Hagley Road, Edgbaston, Birmingham B17 8DL. Tel: 0121 429 2811. Arcam, Audioquest, Audio Research, B & W, Castle, Celestion, Chord, Cyrus, Denon, Dynaudio, Jamo, KEF, Kenwood, Krell, Marantz, Martin Logan, Meridan, Michel, Mission, Monitor Audio, Musical Fidelity, Panasonic, Pioneer, Pok, ProAc, Project, Quad, REL, Rogers, Rotel, Ruark, Sennheiser, SME, Sonus Faber, Tag McLaren, Tannoy, TEAC,

Technics, Theta, Thorens, Yamaha. Excellent demonstration and home trial facilities. Free installation. All major credit cards accepted. Full credit facilities available. Tue-Sat 10-5.30, Thurs 10-7

MUSIC MATTERS, 10 Boldmere Road, Sutton Coldfield, West Midlands B73 5TD. Tel: 0121 354 2311. See above for full details FADA

SOUND ACADEMY, 111 The Parade, Sutton Coldfield, Birmingham B72 1PU. Tel: 0121 321 3445.

#### BUCKINGHAMSHIRE

NORTHWOOD AUDIO, 98 Cambridge St, Aylesbury, Bucks HP20 1BA. Tel: 01296 428790 (A/P), fax: 01296 421282. Selected sounds from Acoustic Energy, Alchemist, Audiomeca, Audio Note, Boston, B&W, Cabletalk, Castle, Chord, Chord Company, CR Development, Davis, Denon, DNM, D.P.A., Epos, Exposure, Harman Kardon, Heart, KEF, Klipsch, Linn, Magnat, Marantz, Michell, Micromega, Monitor Audio, Musical Technology, NAD, Pioneer, PMC, ProAc, Quadraspire, Rega, REL, Rose, Rotel, Ruark, Sony, Stax, System Audio, Talk Electronics, Tannoy, Target, Teac, UKD. Nobody ever regretted purchasing the best. Export orders welcome. 2 demo rooms. Credit facilities available.

TECHNOSOUND and AUDIO INSIGHT, 7-8 Granville Square, Willen, MILTON KEYNES, Bucks MK15 9JL. Tel: 01908 604949, fax: 01908 672760. Open MonThurs & Sat Ibam-6pm, Fri 10am-7.30pm. 79 West Street, DUNSTABLE. Tel: 01582 663297, fax: 01582 471078. Open Mon-Sat 9.30am-5.30pm. www.technosound.co.uk, E-mail: hiff@technosound.co.uk, Hi-Fi, home cinema, custom installation & multiroom specialists. Main lines include Meridian (500 & 800 series), Arcam, Musical Fidelity, B&W, Ruark, Mission, Bang & Olufsen, Pioneer & Yamaha. Dedicated demo rooms (4 at Milton Keynes, 3 at Dunstable).

#### CAMBRIDGESHIRE

SYSTEMS - Specialists in Sound. 28-30 Burleigh Street, Cambridge CB1 1DG. Tel: 01223 461518. Open Mon-Sat 9am-5.30pm. Stockists of Arcam, REL, Denon, Mission, Yamaha, NAD, Marantz, Technics, Rotel, Sony, Project, Musical Fidelity, Ruark, Castle, Acoustic Energy, Wharfdale, Myryad, Audioquest, Soundstyle and much more. Demonstration room available.

THE AUDIO FILE, 41 Victoria Road, Cambridge CB4 3BW. Tel: 01223 368305, fax: 01223 354975. Open Mon-Sat 9.30-5.30pm. Sstreater@aol.com. Interest free credit. Arcam, Audio Research, B&W, Celestion, Cura, Cyrus, Denon, Krell, Lexicon, Loewe, Mission, Martin Logan, Marantz, Proceed, Ruark, Sonus Faber, Teac, Tag Mclaren, Tannoy, Wadia, Wilson Benesch, Yamaha.

#### **CHESHIRE**

ACOUSTICA, 17 Hoole Rd, Chester CH2 3NH. www.acoustica.co.uk. Tel: 01244 344227. All that's best in Hi-Fi and Home Cinema from quality manufacturers including Naim, Rega, Arcam, Musical Fidelity, Rotel, Seleco Projectors, Kef, Ruark, Densen, Primare, Teac, JM Lab, Nakamichi, Quadraspire, Celestion and Crimson. We offer friendly, helpful advice, interest-free credit and trade-in facilities, and deliver and install systems throughout Cheshire, Merseyside and North Wales. Opening hours Tues. - Sat. 10-5.30, evenings by arrangement.

ACTON GATE AUDIO, 4 Ruabon Rd, Wrexham. Tel: 01978 364500. Audio Visual specialists. Arcam, Bose, Boston, B&W, Celestion, Castle, Denon, GLL, Harman-Kardon, Jamo, JBL, Marantz, Michell, Mission, Mordaunt-Short, Musical Fidelity, Myryad, NAD, Micromega, Quad, Rotel, Rogers, Roksan, Ruark, Tannoy, Teac, TDL, UKD, Yamaha DSP member. Demonstration room, installation service. Easy parking and motorway access. Mastercard, Visa etc.

AUDIO COUNSEL, 14 Stockport Rd, Cheadle, Cheshire. Tel: 0161 428 7887. Please see entry under Greater Manchester.

CHRIS BROOKS AUDIO, 29 Gaskell St, Stockton Heath, Cheshire. Tel: 01925 261212, fax: 01925 264001. E-mail: chris.brooks@audio.u-net.com. Tues-Fri 9.30-5.30, Sat 9-5. 3 demo rooms. Credit facilities. All credit cards. Hi-Fr, AV, multiroom. Total absence of bull\*\*\*.

#### CEDIA BADA

DOUG BRADY HI-FI, Kingsway Studios, Kingsway North, Warrington WA1 3NU. Tel: 01925 828009, fax: 01925 825773. For the widest range of high quality hi-fi in the Northwest. Family business est. 35 years. 3 demo rooms, inc. home cinema, home trials; deliveries throughout NW; Mastercard, Visa, credit facilities. Open 10-6; Send for free map and/or 5 page sale list

FORTISSIMO, 2 Bold Street, Hale, Cheshire WA14 2ER. Tel: 0161 929 0834. Retailers of high quality audio and visual equipment. Naim & Bose specialists. Stockists of Royd, NAD, Creek, Arcam, Castle, Quad, Yamaha, Onkyo, Ruark, Teac, Marantz, Ash Designs, Panasonic and Sky Digital. Full demonstration facilities and service department. Professional installation.

INPUT AUDIO, Dukinfield, Cheshire. Tel: 0161 304 7494 (Mobile) 077147 58109. We have the time, we have the patience, we have the desire and we have the products to help you reach your goals. Featuring ART, Audiogram, Audio Analogue Puccini, Audiomeca, Audio Physic, Audio Vector, Base, Chord Cables, Clearaudio, Diapason, Graaf, Helios, Insert, Immedia, LFD, Meracus, Michell, Monrio, Neat, Pink

Triangle, Stands Unique, System Audio, Triangle, UKD Opera, Unison Research, VPI, Yamamura Churchill, YBA. Specialising in home demonstration. Please phone for more information or friendly chat. Credit card facilities. Input for the pleasure of music.

PRACTICAL HIFI, 88 Bridge Street, Warrington. Tel: 01925 632179. The audio video specialist, expert advice, instant demonstrations, best prices, interest-free credit, part-exchange welcome. Extended warranty. Stockists of Yamaha, Kenwood, Denon, Sony, Technics, Onkyo, Marantz, Pioneer, Mission, KEF, Jamo, Celestion, B&W. Also stockists of LaserDiscs.

#### ТΗХ

THE HI-FI SHOWROOMS, 12A West Str, off West St Car Park, Congleton, Cheshire. Tel: 01260 280017. E-mail: mail@hifishowrooms.co.uk. Web site: hifishowrooms.co.uk. Naim Audio, Audiolab, Rega, REL, Arcam, Technics, KEF, NAD, Harman-Kardon, Yamaha, Rotel, Lexicon, RCF, Millennium, NHT, JBL, Onkyo, Sony, Marantz, Toshiba, Panasonic, Ruark, Jamo, Celestion, Qed, Teac, Castle. Front and rear projection systems, 3 demonstration rooms, 1 A/V with 8ft screen, customer car park. The North West's Premier Audio Visual Specialist. Mastercard, Visa, Amex, JCB. 9.15-5:30, Closed Sun/Mon.

#### CORNWALL

SOUNDS PERFECT @ JD BROWN, Nightree House, Mawgan, Helston, Cornwall, TR12 6AX. Tel/fax: 01326 221372. Email: sales@soundsperfect.co.uk. Alchemist, Audio-note, Audio Spectrum, Avid Audio Design (The Groove), Border Patrol, Boston Acoustics, Cable Talk, Henley Designs, Lexicon, Michell, Nordost, Parasound, Monitor Audio, Musical Fidelity, Primare, Project Turntables, REL, Roksan, SME, Sonic Frontiers, Stands Unique, Philosophy, Audioquest, Tannoy, Target, Teac, Thorens, V-Damp Isolation, Unison Research, Audio Analogue, J.M. Labs, Electrocompaniet, Triangle, Trichord, Sugden, Tara-Labs. Open 6 days a week Mon-Thurs 10-7, Fri 10-6, Sat 9-5.

#### **CUMBRIA**

PRACTICAL HIFI, 106 English Street, Carlisle. Tel: 01228 44792. The audio video specialist, expert advice, instant demonstrations, best prices, interest-free credit, part-except ar t-exchange of the value of the v

DORSET



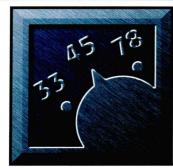
INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS ASSOCIATION

### **Tuners**

REMOTE CONTROL

BOST CONTROL WAVEBANDS PRESETS RDS

7	PRODUCT	(£)	COMMENTS	V	7		V			V
)	Sony STS-B920S	180	A little hiss and image compression don't detract from the clean performance of this feature-packed tuner	FM,M,L	30	•		•	•	184
	Technics ST-GT1000	500	Handy tuner that combines DAB, FM and AM in one unit and substantially lowers the price bar for DAB entry	DAB,FM,M	97	•	•	•	•	199
	Thorens TRT2000	499	Not exactly neutral sounding, but nonetheless makes listening fun	FM,M	59	•	•	•	•	157



#### **Turntables**

**S** pecialist tumtables are at the heart of high-fidelity sound. CD players may offer ultra-low noise and a flat frequency response, but they can't match the dynamics and superlative rhythmical timing taken for granted by serious turntable users. Less expensive turntables are usually supplied with a matching tonearm (and often a 'starter' cartridge, too). Still better quality is found at higher prices among the separate motor units and tonearms. Because tumtables are mechanical devices, designed to retrieve micron-small modulations engraved into vinyl, engineering quality is of paramount importance. This is also the reason why turntables cost as much as they do, and require the finest equipment support systems.

#### T O SPECIFICATIONS KEY

- MANUAL: You do all the work
- AUTO: The record player does all the work. • SEMI-AUTO: You put the needle on, the
- turntable lifts it off at the end of the record
- SPEEDS: In RPM to correspond with long-
- SUSPENDED SUBCHASSIS: Sorung suspension to minimise structural interference.
- EXTERNAL PSU: Outboard power supply;
- generally indicative of higher-quality performance.

   SUPPLIED WITH ARM: Many tumtables do
- not come with a tonearm fitted, but if this category is checked, the deck is already thus equipped.
- SUPPLIED WITH CARTRIDGE: If a turntable comes complete with arm and cartridge
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback section of our Archive page.
- ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

**BEST BUY** 

RECOMMENDED

**EDITOR'S** CHOICE

### **Turntables**

SUSP SUBCHASSIS

SPEEDS SUBCHASSIS

SPEEDS SUBCHASSIS

SUCH ARM

CART SEMI-AUTO ISSUE NO. AUTO

IS						-						
S	PRODUCT	(£)	COMMENTS	V			V	V	V	V	V	
0	Audio Note TT1/ARM1	594	Simple and unpretentious, it delivers a real taste of true high end performance at an affordable price	•			33/45	•	•	•		203
E	Avid Acutus	4,995	E tremely capable design with no apparent shortcomings, don't sell your vinyl 'til you've heard it on this!	•			33/45	•	•			194
-	Clearaudio Reference	3,990	Opulent beast tested with Souther TQ-1 arm. Tends to gloss over detail, but can sound bold	•			33/45					144
0	DNM Rota 2	5,600	Tonally slightly bleached, but extracts detail like few others. Works well on its own table	•			33/45	•		•	•	144
	Dual CS 455.1	220	Neat record player with automatic convenience (and 78rpm), but doesn't match simpler manual rivals sonically		•	33	/45/78	•	•	•	•	203
0	Dual 505-4 UK	250	Consistent sounding and well isolated turntable. It is slightly lacking in oomph			•	33/45	•		•		103
0	Kuzma Stabi/PS	1,950	(Tested with Stogi Reference) Solid oak plinth; sound is very clear, detailed and e tended	•			33/45	•	•	•		91
0	Linn LP12 Basik	1,100	Trails the full LP12 significantly, but pace, rhythm, timing etc. still top rank				33	•		•		103
0	Linn LP12 Lingo	1,750	The classic reference is improved by the Lingo, but charming character remains			Annual Control of the	33/45					91
0	Michell Gyrodec	875	Sweet and natural-sounding player, well matched to Rega RB300 arm				33/45	•	•			55
E	Michell Gyro SE	775	A stunningly desirable combination of looks, solidity and sound make this a tempting turntable			20	33/45					190
0	Michell Orbe 'SE'	1,725	A Superb turntable, able to mix it with the best at virtually any price	•			33/45					192
	Moth Kanoot	329	Rather coarse-sounding deck that requires decent isolation and comes with a Rega RB300 arm	•			33/45			•		164
0	NAD 533	220	Sonically a little crude, but musically satisfying results at a very modest price	•			3/45	1000	•		•	203
0	Notts Analogue Spacedeck/Arm	750	No frills, just a first-rate, outstandingly natural-sounding deck that will last forever	•			3/45		•			159
0	Pink Triangle Tarantella II	850	A turntable that looks unlike any other, with rare ability too. Quirky, but sound is immensely likeable	•			3/45	•	•	1200		192
0	Pro-ject 2	300	Remarkably effective at the price, with decent timing and a generally well defined sound	•			3/45			•		164
	Pro-ject Classic Cherry	450	A great looking turntable with a generous and dynamic sound, but lacks something in overall coherence	•			3/45			•		203
	Pro-ject Perspective	750	Flexible facilities and competitive package, but performance of turntable alone is behind the best	•			3/45	•		•		192
0	Pro-ject 6/Sumiko	850	Don't think of this as a deck with a good arm, but as a scaled-down Oracle Delphi — it's that good	•		2	3/45	•		•		138
0	Rega Planar 2	214	A remarkable product at the price, surprisingly articulate and confident	•			3/45			•		48
0	Rega Planar 3	274	Sounds musical in a balanced manner, needs decent isolation and suffers a little pitch instability			3	3/45			•		164
0	Rega Planar 25	619	Great looking turntable has a silky smooth sound with exceptional midband coherence	•			3/45		•	300		203
0	Reson RS1	600	Supplied set-up and ready-tuned, this unconventional deck is packed with mid-band detail	•			3/45		•		1	159
0	Roksan Radius 3/Tabriz zi	890	Elegant-looking turntable with a tidy, ordered sound. Bright and breezy if a shade lightweight	•		1	3/45	•	•			159
E	SME Model 10A	3,333	Elegant and e tremely capable design with Series V/309 hybrid arm, superbly built	•			3/45	•		•		195
E	SMÉ Model 20.2A	4,863	Beautifully built, e tremely neutral damped and suspended deck with superb sound. Inc V arm			33	/45/78	•		•		186
0	Thorens TD166 VI/UK/RB	400	Refined, solid sound with well-focused imagery; suitable for use with good MM/MC budget cartridges				3/45	•			•	103
	Thorens TD 146 VI	550	Tonearm not quite up to turntable's potential; this semi-auto is much pricier than manual TD166	•			3/45	•	•	•		203
ı	Thorens TD2001	700	Balances convenience and sound well, but deck lacks detail and bass could be better controlled		(1)	• 3	3/45	•		•		159
0	VPI HW19 Junior	650	A notably large and handsome turntable with good sound quality and considerable upgrade potential	•		3	3/45	•		•		203
0	Well Tempered Record Player	850	Intriguing and challenging. Musically not ideal, but its limpid quality and lack of artificiality set standards	•		3	3/45	•	•			136
0	Wilson benesch The Circle	795	A beautiful turntable with a sumptuous sound, all at a very reasonable price – a clear Best Buy	•			3/45	•				192

### **NEW PowerBlock** from Russ Andrews...

- Internal SuperClamp protects equipment from high voltage mains spikes
- Eight socket capacity (using our famous SuperSockets)
- Supplied with detachable Kimber High Current PowerKord<sup>1</sup>
- With Hubbell high current IEC sockets for improved
- Earth terminal for optional extra earth
- Compact design using high performance UL90-VO (impact & fire resistant)

Why settle for an ordinary extension block when you can own something this good!

The Russ Andrews PowerBlock provides the highest quality sound, bringing surprising improvements in musicality, openness and dimensionality.... to any system.

With prices starting from just £350 this is probably the easiest and most effective way to improve the performance of your system.



**Order Now on UK Freephone** 0800 373467

quoting ref: AHC0900 and ask for our FREE CATALOGUE

🚾 ≍ 🧼 💆

Lifetime Guarantee

30 Day **Home Trial** 

**Expert** Advice

Free **Delivery** 



DAWSONS, 74 Poole Road, Westbourne, Bournemouth, Dorset. Tel: 01202 764965. Bang & Olufsen, JBL, Lexicon, Myryad, Sony, Technics. Suppliers and installers of complete home cinema systems. Cedia member. Various credit facilities available, open 9-5.30 Monday to Saturday.

MOVEMENT AUDIO, 588 Ashley Road, Poole, Parkstone, Dorset BH14 0AQ. Tel: 01202 730865. Arcam, Audio Vector, B&W, Castle, Cyrus, Denon, Helios, KEF, Marantz, Meridian, Michell, Mission, Pioneer, Roksan, Ruark, Shearne Audio. 2 demo rooms. Listen to the available choice and decide at your leisure - no pressure, no obligation. Our staff enjoy music, with our choice of products, you can too! Service department. Free installation. Home trial facilities. Mastercard, Visa, Amex, Diners card. Credit facilities available. Open Monfri 10-6, Sat 9-6.

MOVEMENT AUDIO, 336 Wimborne Road, Winton, Bournemouth, Dorset BH9 2HH. Tel: 01202 529988/ 520066. Arcam, B&W, Denon, KEF, Marantz, Musical Fidelity, Pioneer, Rotel, Ruark, Tannoy, Yamaha. Full demo facilities available, also home demo. Friendly expert advice. Service department. Free installation. Home trial facilities. Mastercard, Visa, Amex. Open Mon-Fri 9-5.30.

SUTTONS HI-FI, 18 Westover Road, Bournemouth. Tel: 01202 555512. Acoustic Energy, Arcam, Atacama, Celestion, Cable Talk, Denon, Definitive Audio, KEF, Linn, Meridian, Mission, M+K, QED, Rotel, Sennheiser, Teac, Sony, Talk Electronics, Tag Mclaren, Wharfedale, Yamaha, DTS & Dolby Digital, DVD. 2 single speaker listening rooms, home demonstrations, free installations. Open Mon-Sat 9-5:30. Call for details.

WEYMOUTH HI-FI, 33-35 Maiden Street, Weymouth, Dorset DT4 8BA. Tel: 01305 785729. Arcam, B&W, Castle, Denon, Marantz, Musical Fidelity, Panasonic, Quad, Ruark, Sony, Technics, Yamaha. Demo room. Friendly professional advice. Only quality hi-fi dealer in Weymouth area. Service department, free installation, home trial facilities. Mastercard, Visa, Amex, Switch, Delta. Interest free credit. Instant credit. Open Mon 9.30-5.30, Fri-Sat 9. 30-5.30

#### CO. DURHAM

#### **DARLINGTON**

HI-FI EXPERIENCE, 17 Coniscliffe Road, Darlington DL3 7EE. Tel: 01325 481418, fax: 01325 382982. Agencies include: Arcam, Bang & Olufsen, Cyrus, Denon, Dynaudio, KEF, Marantz, Mission, Musical Fidelity, Meridian, NAD, Quad, Rotel, Audio Shearne, TDL, Teac, Yamaha. 3 listening rooms. 3 years guarantee. Free delivery and simple installation North Yorks/South Durham. Opening hours Mon-Sat 9-5.30pm Closed Tues. Home cinema specialist.

#### **ESSEX**

CHEW AND OSBORNE, 148 High Street, Epping, Essex CM16 4AG. Tel: 01992 574242. 26 King Street, Saffron Walden, Essex CB10 1ES. Tel: 01799 523728. Specialists in home entertainment equipment for over 30 years. Demo facilities in all branches with extensive range of Hi-Fi & A/V products including Yamaha, Pioneer, Sony, Arcam, Bang and Olufsen, B&W,

Celestion, Marantz, Tannoy, Onkyo, Cable Talk, Ruark, NAD, Sennheiser, Loewe. Full installation service available. Interest free credit facilities. Service department

RAYLEIGH HI-FI, 44a High Street, Rayleigh, Essex. Tel: 01268 779762. Arcam, Atacama, Bose, Chord, Copland, Cyrus, Denon, KEF, Krell, Lexicon, Linn, Loewe TVs, Marantz, Micromega, Mission, Miller & Kreisel, Naim, Ortofon, Parasound, Pioneer, Proceed, Quad, QED, Rega, Roksan, Rotel, Ruark, Revox, Seleco, Sennheiser, Stands Unique, Stax, Sugden, Tag McLaren, Target, Van Den Hul, Wilson Benesch XLO Yamaha.

RAYLEIGH HI-FI, 216 Moulsham St, Onthe-Parkway, Chelmsford. Tel: 01245 265245

BADA

BADA

RAYLEIGH HI-FI, 132-134 London Road, Southend-on-Sea. Tel: 01702 435255.

RAYLEIGH HI-FI, at Dansk International Furniture World, Lakeside Retail Park, West Thurrock. Tel: 01708 680551 Open on Sundays.

#### **HAMPSHIRE**

#### **PORTSMOUTH**

JEFFRIES 29 London Road Portsmouth PO2 0BH. Tel: 023 9256 3604. Email: sales@ieffries.co.uk, Hi-fi, home cinema and custom install specialists Range includes Acoustic Energy, AKG Apollo, Arcam, Audio Technica, Audiophile, Beyer, Chord, Cura, Denon, Goldring, Grado, Ixos, Jamo, JBL, KEF, Linn, Linn Knekt, Loewe, Miller & Kreisel, MusiQ, Musicworks, Naim, Nordost, Ortofon, Musicworks, Naim, Nordost, Oroco, Panasonic, Partington, Projekt, QED, Ocadospire Rega, Rotel, Ruark, Panasonic. Sennheiser, Sonance, Soundstyle, Sound Organisation, Systemline, Teac, Top Tape, Traxdata, Yamaha. 2 demo rooms. Open Tues-Sat. Free parking, bus route, credit facilities. Winner Sony/Hi-Fi News Best Southern Dealer. Est 1935 www.jeffries.co.uk IB/AD/A

PHONOGRAPHY, Star Lane, Market Place, Ringwood BH24 1AL. Tel: 01425 461230. Contributions to music from Dynaudio, Cura, Rega, Naim, Rotel, Densen, Shahinian, Dynavector, Chord Co., Quadraspire, Ortofon. Relaxed and friendly service, two demonstration rooms, long guarantees, delivery and installation.

#### HEREFORDSHIRE

ENGLISH AUDIO, 37 Whitecross Road, Hereford HR4 0DE. Tel: 01432 355081. Arcam, ATC, B&W, Castle, Cure, Cyrus, Denon, Dynaudio, KEF, Marantz, Mission, Musical Fidelity, Naim, Pink Triangle, Pioneer, Proac, REL, Rotel, Ruark, Shearne, Stax, Tag Mclaren, Teac, Vienna Acoustics, Wadia, Yamaha and others. Single speaker demo room. Home trial. Free install. Service dept. Mastercard, Visa, Credit arranged. Open Mon-Sat 9.30am-5.30pm.

#### **HERTFORDSHIRE**

THE AUDIO FILE, 27 Hockerill St, Bishops Stortford, Herts CM23 2DH. Tel: 01279 506576, 9:30-5:30 open 6 days,9:30-8pm Thursdays. Absolute Sounds, Acoustic Energy, Arcam, Bose, Denon, Linn, Mission, Miller & Kreisel, Naim, ProAc, QED, Rega, Systemline, Sony, Tag McLaren, Nakamichi, Yamaha. 0% credit. Web site: www.audiofile.co.uk

ACOUSTIC ARTS, four demo rooms, 2 home cinema, impartial advice on system building, multiroom design and installation, free parking, home trials on cables, home demos, custom install and after sales service, credit, mail order, 5 minutes from M25 and MI, est over 20 years. No nonsense, just good advice. Call Tony, Kingsley or Fraser on 01923 245250/ 233011, fax: 01923 230798 E-mail: Acoustic-Arts@Free Net.co.uk. 101 St Albans Rd, Watford, Herts WD1 1RD. Apollo, Audio Research, Audio Analogue, Audioquest, B&W (inc. Naut 800), Beyer, Bose, Boston, Castle Celestion. Copland. Denon Densen, DPA, Grado, Jadis, KEF, Koetsu, Krell, Marantz, Martin Logan, Michell, Micromega, Nordost, Ortofon, Projekt, Quadraspire, QED, REL, Rotel, Ruark, Sennheiser, Sonus Faber, Sound Style, Sumiko, Target, Theta, Transparent Audio, Vidikron, Wilson. Open Tuesday to Saturday 10-5.30 Thursday until 8 by BADA appointment.

DARBY'S OF ST. ALBANS, 6 Market Place, St. Albans, Herts. Tel: 01727 851596. Hert's premier Hi-Fi/AV specialists, est. 1946. Full home cinema demonstration suite. Whether your needs are large or small, we stock it all: Arcam, Yamaha, Quad, Denon, Sony, B&O, Pioneer, REL, JVC, KEF Reference, Mission-Cyrus, Ruark, Celestion, Polk, and many more. Free delivery and installation. Open 9-6 Mon-Sat.

DAVID ORTON AUDIO VISUAL, 6-8 Bancroft, Hitchin, Herts SG5 1JQ. Tel: 01462 452248, fax: 01462 458424. Stockists of Apollo, Arcam, B&W, Cyrus, Denon, Marantz, Mission, Pioneer, Quad, Rotel, Ruark, Soundstyle, Teac, and many others. Hi-Fi listening room and A/V demo room. Workshop off premises. Mastercard, Amex, Visa, Diners. Interest free and instant credit. Open 9.30-5.30 Mon-Sat. Email: davidortonaudiovisual@compuserve.com

#### KENT

ASHFORD SOUNDCRAFT HI-FI, 40 High Street, Ashford. Seeking music lovers, male or female any age, to share common interest in musical Pro-aktiv Hi-Fi systems, multiroom or home cinema. Attractive unusual equipment in unusual setting, your place or ours, we guarantee lasting pleasure. Open Mon-Sat, appointment service. Just pop in. Tel: 01233 624441.

BADA

HOME MEDIA, 24-26 Union Street, Maidstone MEI4 1ED. Tel: 01622 676703. Open Mon-Sat 9.30 to 5.30. Fed up of not being listened to? Visit a store with a different approach. Expert staff and extensive demonstration facilities mean that the best in Hi-Fi, home cinema and multi-room can be demonstrated for you to make an informed choice. Credit facilities. Major credit cards accepted. Delivery and installation service available.

HOME MEDIA, 6 High Street, Tunbridge Wells, Kent TN1 1UX. Tel: 01892 525666, fax: 01892 527666. Open Mon-Sat I0am-6pm. Knowledgeable, trained and enthusiastic staff who listen and will assist in finding the proper solution for you. Hi-Fi, Home Cinema and Multi Room expertly catered for. Demonstration facilities on three floors!

Credit facilities. Major credit cards accepted. Delivery and installation service available.

MUSICAL IMAGES LTD, Beckenham Branch, 126 High St, Beckenham, Kent BR3 1ED. Tel: 020 8663 3777, fax: 020 8663 3555. Musical Images is a main authorised dealer for over 100 leading Audio Visual manufacturers. For multiroom, home automation and audiophile installations plus unsurpassed service, our award-winning stores are recognised centres of excellence. Over the past 15 years Musical Images has established a unique reputation for customer care and we ensure all the latest Hi-Fi technology is on permanent demonstration in luxurious surroundings. Open seven days a week and with 0% finance available (subject to status), to experience the best team in the business, make sure you visit Musical Images. Opening times: Mon-Sat Ioam-6pm, Sun Ioam-4.30pm.

SOUNDS OF MUSIC, 10/12 Chapel Place, Tunbridge Wells, Kent TN1 1YO. Tel: 01892 547003, fax: 01892 547004. Highend department on 01892 616383. Wisdom, Advantage, Zingali, Primare, Jamo, Ouad, Marantz, Tannoy, REL, Magnum, Ruark, Musical Technology, Micromega, Acoustic Energy, Anthem, Audio Note, Pink Triangle, AVI, Electrocompaniet, Teac, Audion, KEF, Pro-Ac, Michell, Copland, Trichord, Thorens, Pass, Lumley, Woodside, BAT, CAT, Osborn, Wadia, Krell, Audio Research and many more. We offer the very best service and advice along with some very special deals. 1 month's trial exchange, good prices and free delivery, the widest range of equipment, systems from £300-£100K, valve + vinyl specialist. All major credit cards accepted. www.sounds-of-music.co.uk

JOHN MARLEY HI-FI CENTRES LTD, DOVER HI-FI, 43 High Street, Dover. Tel: 01304 207562. Acoustic Energy, Arcam, Denon, JBL, KEF, Musical Fidelity, NAD, Pioneer, Panasonic, Rotel, Ruark, Tannoy, TDL, Technics, Yamaha. AV demo room. Full service department. Mon-Sat 9-5.30. Free installation. Credit to £1000. Mastercard, Visa, Switch, Electron. Established 29 years. Expert advice. Friendly service.

#### LANCASHIRE

PRACTICAL HI-FI, 43 Friargate, Preston. Tel: 01772 883958. The audio specialist, expert advice, instant demonstrations, best prices, interest-free credit, part-exchange welcome. Extended warranty. Stockist of Yamaha, Kenwood, Denon, Sony, Technics, Onkyo, Marantz, Pioneer, Mission, KEF, Jamo, Celestion, B&W. Also stockists of LaserDiscs.

#### THE

PRACTICAL HIFI, (also in) 81 Whitegate Drive, Blackpool. Tel: 01253 300599.

33 Knowsley Street, Bolton. Tel: 01204

84 Penny Street, Lancaster. Tel: 01524 39657.

#### **LEICESTERSHIRE**

CYMBIOSIS, 6 Hotel Street, Leicester LE1 5AW. Tel: 0116 262 3754, E-mail: shop@cymbiosis.com. Acoustic Energy, Arcam, Castle, Chord Company, Cure, Denon, Linn Hi-Fi, Linn Knekt, Loewe Televisions, Lutron Lighting, Musical Technology, Naim, Nordost, Rage, Revox,



INDICATES MEMBERSHIP
OF THE BRITISH AUDIO
DEALERS ASSOCIATION



Rotel, System Audio, Tag Mclaren. Multiroom Design and Installation Service. 4 Listening Lounges. Finance available. Open 6 days 10am-5.30pm.

LEICESTER HI FI CO, 6 Silver Walk, St Martins Square, Leicester LE1 5EW. Tel. 10116 253 9753, fax: 0116 262 6097. Arcam, B&W Nautilus, Bryston, Mission, Cyrus, Marantz, Pioneer, Quad, Tannoy, Copland, Michell, Technics, Rotel, Roksan, Yamaha, Acoustic Energy, Chord Electronics, Teac, Miller & Kreisel, DPA, Talk Electronics, Greig Loudspeakers, etc. 4 listening areas over 3 floors, we can demonstrate, deliver and install. Including AV and multiroom. Credit facilities. All cards taken, open 6 days 9.30-5.30.

BADA

#### LINCOLNSHIRE

STAMFORD HI-FI, 9 Red Lion Square, Stamford, Lincs PE9 2AJ, Tel: 01780 762128. Aiwa, Denon, KEF, Kenwood, Marantz, Mission, NAD, Pioneer, Quad, Technics, Yamaha, plus all major speaker manufacturers. Expert advice, comparator demonstrations on two floors, part exchange, Hi-Fi purchased for cash. No appointments necessary, home trial facilities, free installation, service department. Mastercard, Visa & credit charge, finance available. Mon-Sat 9-5.30pm, closed Thursdays.

#### LONDON

AUDIOJOY Co, Now on demonstration as a complete system: new Michell Delphini phono stage, Alectos and Orca amplifiers, P3P7 Harbeth speakers, Clearaudio turntables, Graham tonearm, Transfiguration cartridge, Trichord Research transport/Dac, Nordost, Argento and VDH cables. For an audition tel. 020 8363 4963. Enfield, North London.

CHOICE HI-FI, London SW14. Tel: 020 8392 1959/1963, fax: 020 8392 1994, E-mail: Choice\_hifi@msn.com. The most comprehensive range of new and second hand equipment anywhere in the country. Unique knowledge and experience in midto high-end systems and equipment matching. Part exchange welcome, upgrade service and interest free credit available. Home installation and multiroom specialists. Brands include, but not limited to: Michell, Lavardin, Trichord, Krell, Audible Illusions, Boulder, SME, Alon, Tara Labs, ATC, XLO, Van den Hul, Bryston, Target, Naim, Quad, Sonus Faber, Wilson Audio, Martin Logan, Meridian. If it's high-end and it's good, we've got it. Others may sell you hi-fi, at Choice we sell solutions.

KAMLA, 251 Tottenham Court Rd, London W1P 9AD. Tel: 020 7323 2747. Kenwood, Pioneer, JVC, Philips, Toshiba, Boston, B&W, AR, Mitsubishi. Demonstration room available. Appts required. Service dept. Mastercard, Visa, Amex, Diners. Open Mon-Sat 9-6.

BILLY VEE SOUND SYSTEMS, 248 Lee High Road, Lewisham, London SE13 5PL. Tel: 020 8318 5755/ 020 8852 1321. Arcam, AVI, Denon, Linn, Marantz, Mission, Naim, Pioneer, Rega, Rotel, etc. Two domestic style listening lounges. Appts required, service dept, home trial facilities, interest free credit, instant credit. Mastercard, Visa. Open Mon-Sat 10-6.30, Closed Thurs.

THE CORNFLAKE SHOP, 37 Windmill

Street, London W1P 1HH. Tel: 020 7631 0472, fax: 020 7436 7165. E-mail: corr-flake@dial.pipex.com. Open Tues-Sat 10-6, Thurs 10-7. The specialists for high quality sound, be it for one room or many more. They offer friendly advice, and a full delivery and installation service is available. Two listening rooms with full AV facilities demonstrating Arcam, ATC, AVI, Barco, Bryston, Dynaudio, Mark Levinson, Linn Knekt, Naim, Origin Live, Proceed, Pro Monitor Co, Rega, Royd, Yamaha and more. Service department. Amex, Mastercard, Switch, Visa and worldwide mail order service. They used to be the coolest Hi-Fi shop in London, now they're the hottest.

GRAHAMS HI-FI, Canonbury Yard, 190a New North Rd, London N1. Tel: 020 7226 5500. Winner Sony/HFN Greater London Dealer Award 1986/89/90. "One of the 5 best hi-fi shops in the world". Arcam, Linn, Meridian, Naim, Rega, etc. Systems from £500. Free parking, 4 demo rooms, service dept, open Tues-Sat. Ring for appointment.

HI-FI & COMPONENTS, 84 Battersea Rise, London SW11 1FH. Tel: 020 7223 1110. Established 33 years. Beyer, Celestion, Cerwin Vega, Denon, Eminence, Goodmans, Harman Kardon, KAM, Jamo, Kenwood, NAD, Ortofon, QED, Sennheiser, Shure, Stanton, Tannoy, Project, Marantz, Vivanco. Wide range of accessories & styles. Appts nec, service dept. Mastercard, Switch, Visa, Diners, Amex, Open 10-6. Closed Wed.

HI-FI WAY HI-FI LTD, 318-324 Edgware Road, London W2 1DY. Tel: 020 7723 5251, fax: 020 7258 1682. Email: Sales@hiway-group.co.uk. Also at 242 Tottenham Court Road, London W1 9AD. All major brands stocked, established since 1978, price match policy, extended guarantees, mail order service, home cinema equipment, hij separates, midi, mini & micro systems, portable audio video recorders for home & export, full range of video accessories, digital camcorders, VHS 8mm camcorders, video editing equipment, digital still cameras, 35mm & APS photo cameras.

HI-FI EXPERIENCE, 227 Tottenham Court Road, London W1P 0HX. Tel: 0171-580 3535, fax: 0171-436 4733. Agencies include: Acoustic Energy, Arcam, Audio Alchemy, Bang & Olufsen, Castle, Celestion, Chord, Cyrus, Denon, KEF, M&K, Marantz, Mission, Musical Fidelity, Meridian, NAD, Naim, Quad, REL, Rotel, Ruark, Tag Mclaren, Tannoy, TDL, Teac, Wharfdale, Yamaha. 8 listening rooms, 3 years guarantee. Free delivery and simple installation (M25 periphery), opening hours Mon-Fri 10am-7pm, Sat 9am-6pm. Home cinema specialist.

BADA

MUSICAL IMAGES LTD, Covent Garden Branch, 18 Monmouth Street, Covent Garden, London WC2H 9HB. Tel: 020 7497 1346, fax: 020 7497 9205. Musical Images is a main authorised dealer for over 100 leading Audio Visual manufacturers. For multi-room, home automation and audiophile installations plus unsurpassed service, our award-winning stores are recognised centres of excellence. Over the past 15 years Musical Images has established a unique reputation for customer care and Musical Images Covent Garden has the distinction of being the first Sony ES Centre of Excellence in the world. Open seven days a week and with 0% finance available (subject to status), to experience the best team in the business make sure

you visit Musical Images. Opening times: Mon-Sat 10am-6pm, Sun 10am-4.30pm.

THX BADA

MUSICAL IMAGES LTD, 173 Station Road, Edgware HA8 7JX. Tel: 020 8952 5535, fax: 020 8951 5864. E-mail: sales@musical-images.co.uk. See main entry above.

ORANGES & LEMONS, 61-63 Webbs Road, Battersea SW11. Tel: 020 7924 2040. Juicy fruit from London's newest, treshest hi-fi/home cinema retailer. Telephone for demonstrations or just pop in. All the usual, ie friendly and efficient service, free home installation, credit cards, 0% finance available, plus all the very best from: Arcam, Cable Talk, Chord Co, Demion, Denon Lifestyle, Epos, NAD, Naim, Neat, QED Multiroom, Quad, Rega, Roksan, Rotel, Royd, Ruark, Soundstyle, Stands Unique, Wilson Benesch, Yamaha with more to come. The innovative AudioVisual retailer.

STUDIO 99, 79-81 Fairfax Road, Swiss Cottage, London NW6. Tel: 020 7624 8855, fax: 020 7624 5315. Naim, Meridian, Quad, ATC, Mission, Creek, Cyrus, Denon, KEF, Arcam, Acoustic Energy, Yamaha, Philips, Royd, Rotel, Bang & Olufsen, Para Sound, Project, Vienna, Lexicon. High quality demonstrations. Home cinema. Multi-room. Service dept. Visa/Mastercard, credit facilities. Mon-Fri 10am-7pm, Sat 10am-6pm.

THOMAS HEINITZ, 35 Moscow Road, Bayswater, London W2 4AH. Tel: 020 7229 2077, fax: 020 7727 9348. Tube Stations Queensway & Bayswater. Parking meters available. Demonstration room by appointment. Stockists of Acoustic Energy, Bryston, Cura, Linn, Loewe, Naim, Neat Acoustics, Pioneer, PMC, Proac, Rega, Teac, Cyrus, Denon. Payment via Mastercard, Visa, cheques, cash and interest free credit facilities (details on request). Open 10.30am-6pm, Tuesday-Saturday.

#### **GREATER MANCHESTER**

AUDIO COUNSEL, 14 Shaw Road, Oldham OL1 3LQ. Tel: 0161 633 2602, fax: 0161 633 2502. Arcam, Audiolab, Rega, Naim, Rotel, Royd, Marantz, Sonus Faber, Ruark, Epos, Denon, Yamaha, Bang & Olufsen. Free installation. Major credit cards and credit facilities. Open Tuesday-Saturday 10-5.30, 8pm on Thurs.

FORTISSIMO, 237 Deansgate, Manchester City Centre M3 4EN. Tel: 0161 834 2545, fax: 0161 834 2535. Retailers of high quality audio & visual equipment. Naim & Bose specialists. Stockists of Royd, NAD, Creek, Arcam, Castle, Quad, Yamaha, Onkyo, Ruark, Teac, Marantz, Ash Designs & Panasonic. Full demonstration facilities and service department. Professional installation.

**PRACTICAL HIFI,** 65 Bridge Street, Manchester. Tel: 0161 839 8869. See main listing under Lancashire for details.

#### **MERSEYSIDE**

**ACOUSTICA**, 17 Hoole Rd, Chester CH2 3NH. Tel: 01244 344227. See our main entry under Cheshire.

#### **MIDDLESEX**

MUSICAL IMAGES LTD, Edgware Branch, 173 Station Rd, Edgware, Middlesex HA8 7JX, Tel: 020 8952 5535, fax 020 8951 5864. Opening times: Mon-Sat 10am-6pm Sun 10am-4.30pm. See main entry under London

THX BADA

MUSICAL IMAGES LTD, Hounslow Branch, 45 High Street, Hounslow, Middlesex TW3 1RH. Tel: 020 8569 5802, fax: 020 8569 6353. Opening times: Mon-Sat 10am-6pm Sun 10am-4.30pm. See main entry under London.

ПНХ ВАДА

#### WEST MIDLANDS

MUSIC MATTERS, 93-95 Hobs Moat Road, Solihull, W. Midlands B92 8JL. Tei. 10121 742 0254. Arcam, Audioquest, Audio Research, B & W, Castle, Celestion, Chord, Cyrus, Denon, Dynaudio, Jamo, KEF, Kenwood, Krell, Marantz, Martin Logan, Meridan, Michel, Mission, Monitor Audio, Musical Fidelity, Panasonic, Pioneer, Pok, ProAc, Project, Quad, REL, Rogers, Rotel, Ruark, Sennheiser, SME, Sonus Faber, Tag McLaren, Tannoy, TEAC, Technics, Theta, Thorens, Yamaha. Excellent demonstration and home trial facilities. Free installation. Customised multi-room systems. All major credit cards accepted. Full credit facilities available. Tues - Sat 10-5.30, Thurs 10-7.

MUSIC MATTERS, 9 Market Street, Stourbridge, W Midlands DY8 1AB. Tel: 01384 444184. See above for full details. Tue - Sat 10-5.30, Thurs 10-7.

MUSIC MATTERS, 10 Boldmere Road, Sutton Coldfield, West Midlands B73 5TD. Tel: 0121 354 2311. See above for full details.

SOUND ACADEMY, 152a High Street, Bloxwich, Nr Walsall W Midlands. Tel: 01922 493499/ 473499. Audio equipment from leading and specialist brands, with 3 demo floors, home trials, home cinema with instore demo theatre, evening demos by appointment. In house service dept. Mail order avail. Int. free credit subject to status. Open 6 days 9am - 6pm. Late night Friday. Expert advice, cable dressing and free installation.

ACOUSTICA, 114 Wolverhampton Road, Stafford ST17 4AH. Tel: 01785 258216. See our main entry under Staffordshire.

#### **NORFOLK**

BASICALLY SOUND, The Old School, School Rd, Bracon Ash, Norwich NR14 BHG. Tel: 01508 570829. Arcam, Audio Analogue, Bayer, Bryston, Cabletalk, Chord Co., Opera Speakers, Denon, Dynavector, Epos, Grado, Heybrook, Naim, Opera, ProAc, PMC, Sound Organisation, Rega, Royd, Soundstyle, Teac, etc. 2 comprehensive demo rooms. Home trial. Free installation. Visa, Mastercard, HP facilities. 0% Finance. Tues-Fri 9.30-1, 2-5.30. All day Sat.

BADA

RIVER CROSSING AUDIO, The Old Barn, Glandford, Holt, Norfolk NR25 7JP. Tel: 01263 741230. Open Tues-Sat 9am-6pm. Other times by appointment. Leave the noise of the city behind! Our showroom is a converted barn, situated in a picturesque north Norfolk village with ample off-road parking. We are pleased to demonstrate systems including Canary, Chord, CR Developments, Densen, Fi-Rax, Michell, MVL, Myryad, Rothwell, Veritas Loudspeakers (including the award-winning H3) and many others.



# **DEALER**Directory

#### **NORTHAMPTONSHIRE**

CLASSIC HI-FI & VIDEO, School Lane, Kettering, Northants. Tel: 01536 310855. Call us for all your hi-fi and home cinema. Denon, Sony, Lexicon, REL, Yamaha, Acoustic Energy, KEF, Tannoy, Rotel, Roxsan, Pioneer, Monitor Audio and many more. All major credit cards accepted. Interest FREE credit. FREE delivery and installation. Open 9.30am-5.30pm Mon-Sat

LISTEN INN, 32 Gold Street, Northampton NN1 1RS. Tel: 01604 637871. The world's finest hi-fi equipment: Arcam, Audio Analogue, Castle, Chario, Copland, Denon, KEF, Krell, Linn, Marantz, Martin Logan, Mission, Musical Fidelity, NAD, Naim, Rega, Rotel, Sennheiser, Shahinian, Sonus Faber, Yamaha. 2 listening rooms. Appointments recommended. Part exchange welcome. Finance available, subject to status, written quotations available on request. Open 10am-5.30pm Mon-Sat (Closed Thursday).

#### **NOTTINGHAMSHIRE**

DEFINITVE AUDIO serves the first time buyer and the seasoned audiophile with the same high level of care and interest. Our aim is long term customer satisfaction. We achieve this with impartial advice, quality back-up service and a genuine interest in your needs. We have an established reputation for delivering sound quality benchmarks with innovation. Our range of carefully selected brands includes Art Audio, Border Patrol, Living Voice, Musical Fidelity, Wadia and many more. We have extensive part-exchanged stock. Open Mon-Fri 9.30-6.30, Sat 10.00-1.30. Visa/Mastercard /Switch/Amex. For more information call 0115 973 3222 or fax 0115 973 3666.

NOTTINGHAM HI-FI CENTRE, 120-122 Alfreton Road, Nottingham. Tel: 0115 978 6919. The area's oldest established specialist (Est. 1969). Two superb demonstration rooms, easy free parking. Home cinema and multiroom. Stockists of: Arcam, Audiolab, Celestion, Denon, KEF, Linn, Loewe T.V., Marantz, Micromega, Michell, Mission-Cyrus, Rotel, Sennheiser, Yamaha. Mon-Sat 9-5.30.

#### **OXFORDSHIRE**

ASTLEY AUDIO LTD, 3 Marketplace, Wallingford OX10 0EG. Tel: 01491 839305, fax: 01491 825024. Founded 1975. Great deals on Aura, B&W, Denon, Dual, KEF, Kenwood, Marantz, Mission, Mordaunt Short, Panasonic, Pioneer, Sony, Tannoy, Technics, Yamaha. Home trial, installation and delivery service. Service dept on site. 2 yr guarantee on most products. Interest free credit on selected items. 1 home cinema room, 2 listening rooms. Mastercard, Visa, Amex, Diners. Instant credit. Tues-Fri 9-5.30, Sat 9-5. Tapes & C.Ds stocked.

OVERTURE HI-FI, 3 Church Lane, Banbury OX16 8LR. Tel: 01295 272158. Arcam, Bose, Cura, Denon, Linn Products, Mission, Naim Audio, Quad, Yamaha. For sensible unbiased advice, call Oxfordshire's audio experts. Superb demo facilities. Home cinema, multiroom & commercial installations. No appts nec, service dept, free install, home trial. Mastercard, Visa, instant credit. Mon-Fri 10-6, Sat 9.30-530

BADA

OXFORD AUDIO CONSULTANTS, Cantay Hse, Park End Street, Oxford OX1 1JE. Tel: 01865 790879, fax: 01865 791665. E-mail: oxford.audio@btinternet.com. Quad, Denon, B&W, Pink Triangle, Krell, Sonus Faber, NAD, Rotel, Musical Fidelity, Pioneer, Marantz, Copland, Teac, Audio Analogue, Castle, Yamaha, Proac, REL. Demo room. Home trial and free installation. Instant credit, Mastercard, Amex, Visa. 10-6 Mon-Sat.

#### SHROPSHIRE

CREATIVE AUDIO, 9 Dogpole, Shrewsbury SY1 1EN. Tel: 01743 236055. Email sales @ creative-audio.co.uk, www.creative-audio.co.uk. One of the largest ranges of quality HiFi/Audio Visual equipment outside of London. Arcam, Ash, Atacama, Cabletalk, Celestion, Chord, Cura, Cyrus, Denon, Dual, Heybrook, KEF, Mission, Onkyo, Optimum, NAD, Naim, QED, Quad, Rega, Soundstyle, Stands Unique, Teac, Wharfedale. Large selection of bargain special purchases available on most makes. Comfortable listening room, expert installation (including multiroom and DVD home cinema), free 2 & 5 year warranties, selected used equipment, part-exchange welcome, specialist workshop facilities. Mastercard/Visa/Switch/Amex and low cost finance from £250 up to £15.000.

#### SOMERSET

MIKE MANNING AUDIO, 110 Middle Street, Yeovil, Somerset BA20 1NE. Tel: 01935 479361. 54 Bridge Street, Taunton. Tel: 01823 326688. The HiFi and AV specialists. The best in HiFi from: Arcam, B&W, Castle, Denon, Densen, Heybrook, JM Lab, KEF, Loewe TV & Video, Marantz, Naim Audio, NAD, Pioneer, PMC, Rega, Rotel, Royd, Shahinian, TDL, Teac. Dedicated listening lounge for relaxed and unpressured demonstrations. Home installations on most systems. Full service department. Mastercard, Visa, Instant Credit Closed Mondays.

#### **STAFFORDSHIRE**

ACOUSTICA, 114 Wolverhampton Road, Stafford ST17 4AH. www.acoustica.co.uk. Tel: 01785 258216. All that's best in Hi-Fi and Home Cinema from quality manufacturers including Naim, B & W, Arcam, Musical Fidelity, Rotel, Seleco Projectors, Kef, Ruark, Densen, Primare, Teac, JM Lab, Nakamichi, Quadraspire, Celestion and Crimson. We offer friendly, helpful advice, interest-free credit and trade-in facilities, and deliver and install systems throughout Staffordshire and the Midlands. Opening hours Tues. - Sat. 10.30-6.00, evenings by arrangement.

#### **SUFFOLK**

ANGLIA AUDIO, The Street, Hessett, Bury St Edmonds, Suffolk IP30 9AZ. Tel: 01359 270212. Hi-Fi and speaker centre dedicated to quality hi-fi since 1971. Open 10-6. Closed Wednesdays and Sundays. Evening and Sunday demos by appointment.

AUDIO IMAGES, 128 London Road North, Lowestoft NR32 1HB. Tel: 01502 582853. The shop for real Hi-Fi separates and home cinema. Refreshingly different range as well as established manufacturers. Hi-Fi from budget to high-end, transistor & valve.

A/V from £100 to a £100,000 custom install. Projection systems, DVD players and movies. Separate demo room, range of credit facilities, free fitting & the best and friendliest service available.

RADA

EASTERN AUDIO, 41 Bramford Rd, Ipswich. Tel: 01473 217217. Easy parking. Demo room. Giving sound advice for over 21 years. Arcam, Audiolab, Meridian, Denon, B&W, Technics, Quad, Castle, Celestion, Top Tape, plus all the usual headphones, leads, racks etc.

STOWSOUNDS, Stone Farm, Borough Lane, Gt Finborough, Suffolk IP14 3AS. Tel: 01449 675060 Specialist Hi-Fi dealer with great products from Acoustic Solutions, Alchemist, Altacama, Audioquest, Beyer, Cable Talk, DPA, Electrocompaniet, Exposure, Grado, JM Labs, Kimber, Magnat, Neat, Nordost, OED, SonicLink, Sonneteer, Sound Organisation, Soundstyle, Stands Unique, Van den Hul, other makes and used equipment available, call us for more details.

#### SURREY

COSMIC HI-FI SUPERSTORE, Est 1962, 244-256 Station Road, Addlestone, Weybridge, Surrey KT15 2PS. Tel: 01932 854522/ 832400/851753, fax 01932 832432. Open 7 Days a week, Mon-Sat 9-6pm, Fri till 8pm, Sun 10-4pm. Large free car park, fully equipped service depart, massive showroom. Arcam, Audio Quest, B&W, Cable Talk, Denon, Dual, Jamo, Kenwood, Marantz, Mission, NAD, Pioneer, Quad, Rogers, Sennheiser, Sony, Tannoy, Target, TDL, Technics, Thorens, Yamaha home cinema, widescreen TV, projection TV, Laserdisc. Int. free credit. All major credit cards.

INFIDELITY, 9 High Street, Hampton Wick, Kingston Upon Thames, Surrey, Tel: 020 8943 3530. Arcam, Densen, B&W Nautilus, Musical Technology, Meridian, Linn, Naim Audio, Neat Acoustics, Royd, Rega Research, Rotel, Shahinian, Proceed & more. Single speaker listening room. Appts pref, free installation, service dept. Major credit cards. Closed Mon, Tues-Fri 10.30-7. Sat 10-6.

PJ HI-FI, 3 Bridge Street, Guildford GU1 4RY. Tel: 01433 504301/ 304756. Mon-Sat 9am-6pm. Arcam, B&W, Denon, Linn, Meridian, Mission, Cyrus, Kef, Marantz, NAD, Pioneer, Primare, Proac, Quad, REL, Rega, Rotel, Tag Mclaren, Yamaha. Demo rooms for Hi-Fi/home cinema, parking, delivery & installation. Service department on premises. Call now.

ROGERS HI-FI, Unit 4, Bramley Business Centre, Station Road, Bramley, Guildford, Surrey. Tel: 01483 561049. Castle, Denon, Marantz, Micromega, Musical Fidelity, Myryiad, NAD, Ruark, Tannoy, Teac and many more. Home demonstrations available, telephone for details. Free installation. Service department. Mastercard/Visa. Monday-Saturday 9.30am-6pm, later by appointment

SPALDINGS HI-FI, (Established 30 years), 352-4 Lower Addiscombe Rd, Croydon, Surrey CR0 7AF. Tel: 020 8654 1231/2040. Linn, Naim, Quad, Meridian, Mission, Marantz, Denon, Ruark, Tag Mclaren, Tannoy, Arcam, KEF, Castle, Musical Fidelity. 3 demo rooms including AV room. Service dept, free install, home trial facilities, appointments advisable. Mastercard, Visa, Amex, interest free credit, instant credit. Mon-Sat 9-5.45. Tues-8. Service

dept.

BADA

UNILET SOUND & VISION LTD, The Hidden Hi-Fi Store, 35 High Street (Opposite Waitrose), New Malden, Surrey KT3 4BY. Tel 020 8942 9567. Open Mon-Sat 9am-6pm. 6 well appointed Hi-Fi and A/V demonstration rooms. Agencies covering all the best brands available worldwide. Knowledgeable friendly enthusiastic staff. Fully equipped service department. Instore custom cable service outlet supplying tailor made cables to your specific require ments. Stockist of hundreds of specialist cables, accessories, headphones and terminations. Free parking. Interest free finance. All major credit cards accepted Worldwide mail order service. Part exchange welcome. Legendary Blue List special offers. Full equipment and cable price lists available on request. With over 30 years experience in demonstrating, retailing and servicing high quality Audio Visual equipment, from budget minisytems to high-end exotica, is there really any need to go elsewhere? BADÁ

#### SUSSEX (EAST)

ADAMS & JARRETT, 6-18 Norman Road, St. Leonard's-on-Sea, East Sussex TN37 6NH. Tel: 01424 437165/432398. Stockists of B&W, Cabletalk, KEF, Marantz, Meridian, Micromega, NAD, REL, Rotel, Ruark, Sennheiser, Tannoy, Target, Yamaha, Talk Electronics, Stands Unique, Dynaudio, Musical Fidelity, Denon, Dali, Myryad, Onkyo, Aura. Two demo rooms, home trial, AV specialists. Instant and interest-free credit available. Open Mon-Sat 9-5.30.

JEFFRIES HI-FI, 69 London Road, Brighton BN1 4JE. Tel: 01273 609431. Email sales@jeffries.co.uk Hi-Fi, home cinema and custom install specialists. Range includes Acoustic Energy, Arcam, Atacama, Audio Technica, Beyer, Chord, Cura, Denon, Dynavector, Goldring, Grado, Ixos, Jamo, JBL, KEF, Linn, Linn Knekt, Loewe, Miller & Kreisel, MusiC, Musicworks, Naim, Nakamichi, Ortofon, Panasonic, Partington, Projekt, OED, Quadraspire, Rega, REL, Rotel, Sennheiser, Shahinian, Sonance, Soundstyle, Sound Organisation, Systemline, Teac, Top Tape, Traxdata, Yamaha. 2 demo rooms. Open Tues-Sat. Free parking, bus route, credit facilities. Winner Sonyl/Hi-Fi News Best Southern Dealer. Est 1935. www.jeffries.co.uk

BADA

JEFFRIES HI-FI, 4 Albert Parade, Green Street, Eastbourne BN21 1SD. Tel: 01323 731336, fax: 01323 416005. E-mail sales@jeffries.co.uk Hi-Fi, home cinema and custom install specialists. Range includes Acoustic Energy, AKG, Apollo, Arcam, Atacama, Audio Technica, Beyer, Chord, Denon, Goldring, Grado, Ixos, Jamo, JBL, KEF, Linn, Linn Knekt, Loewe, Miller & Kreisel, MusiQ, Musicworks, Naim, Nakamichi, Ortofon, Panasonic, Partington, Projekt, QED, Quadraspire, Pega, REL, Rotel, Ruark, Seleco, Sennheiser, Sonance, Soundstyle, Sound Organisation, Systemline, Teac, Top Tape, Traxdata, Yamaha. 2 demo rooms. Open Tues-Sat. Free parking, bus route, credit facilities Winner Sony/Hi-FI News Best Southern Dealer. Est 1935.

THE POWERPLANT, 66/67 Upper North Street, Brighton BN1 3FL. Tel: 01273 775978, fax: 01273 748419 E-mail: email@powerplant.co.uk Whatever your budget we can help you choose from our



INDICATES MEMBERSHIP
OF THE BRITISH AUDIO
DEALERS ASSOCIATION



carefully selected range of today's finest Hi-Fi and home cinema equipment. Recommended agencies include Arcam, Audiolab, ATC, B&W, B&O, Cyrus, Exposure, Epos, Linn, Marantz, Micromega, Mark Levinson, ProAc, Rega, QED, Systemline, Yamaha. Excellent demonstration facilities, knowledgeable and friendly staff. Multiroom specialist, CEDIA member. Open Tues -Sat 10am-6pm. Late evenings by appointment. All major credit cards. Full credit facilities.

BADA

#### SUSSEX (WEST)

AUDIO DESIGNS, 26 High Street, East Grinstead, West Sussex RH19 3AS. Tel/fax: 01342 314569. www.audiodesigns.co.uk. Hi-Fi, home cinema & multiroom specialists. Authorised stockists of: Arcam, Audiolab, Cabletalk, Castle, Cyrus, Epos, KEF (inc. Reference), Linn (inc. AV51), Loewe, Marantz, Mission, Naim, Pioneer, Quad, Rel, Rotel, Sennheiser, Sony, Soundstyle, Stands Unique, Tag Mclaren, Target, Thorens, Yamaha & more. 3 dedicated demonstration rooms - Hi-Fi & home cinema. Service dept. 0% finance available. 9.30-6 Mon-Sat.

BOWERS & WILKINS LTD, (Est 1945), 1 Becket Buildings, Littlehampton Road, Worthing, (near Thomas a Becket). Tel: 01903 264141, E-mail: sales@bowersand-wilkins.co.uk. Web site: www.bowersand-wilkins.co.uk. 1 minute from A24 & A27. Free local parking. B&W, Denon, Harman-Kardon, JBL, Jamo, Marantz, NAD, Philips, Solid, Tannoy, TDL, Technics, Thorens and many more in 4 demo rooms. Systems, Hi-Fi and home cinema, DVD and projection TV. Service dept, installations. Open 6 days a week. Mastercard, Visa, instant credit to £1,000 subject to status.

PHASE 3 HI-FI, 213-217 Tarring Road, Worthing, West Sussex BN11 4HW. Tel: 01903 245577. E-mail: Pearl@msn.com. Whether your requirements are for the best in HiFi, home cinema, multiroom or full systems integration, contact us to discuss bespoke systems to match your needs and your budget. Three listening and viewing studios. Agencies include: Arcam, B&W (including Nautilus 800), Castle, Celestion, Denon, KEF, Linn (including CD12), Marantz, Meridian (including 800 series), Naim, Yamaha. Open Mon-Sat 9.30am; 5:30pm. Major credit cards. Full credit facilities.

#### **TYNE AND WEAR**

GLOBAL HI-FI CENTRE, HI-FI AND CINEMA SPECÍALISTS. CLAYTON STREET, NEWCASTLE-UPON-TYNE NE1 5PY. TEL 0191 230 3600 FAX: 0191 222 0286, www.globalhificentre.com. FOR THE ULTIMATE HI-FI AND HOME CINEMA EXPERIENCE GO GLOBAL, WE'RE WITH YOU ALL THE WAY FROM STARTER KITS TO STATE-OF-THE-ART SYSTEMS. For the ultimate solution in Custom Design, Installation of Home Cinema and Multi-room systems it's got to be GLOBAL HI-FI CENTRE. Consultancy service available offering qualified advice from concept to design. Three state-of-theart showrooms, including a superb multiroom facility. For the bigger picture it's got to be GLOBAL HI-FI CENTRE, Plasma and Rear Projection TVs, LCD/DLP/CRT THX demonstrations available Projectors. in our superb state-of-the-art showrooms. Authorised dealer for major manufacturers including all the latest and greatest Dolby

Digital, D.T.S., THX and EX surround products. Authorised dealer for major manufacturers including, Acoustic Energy, Audio Analogue, Bose, Boston Acoustics, Cura, Creek, Chord Electronics, Davis Projectors, Denon, Elac, Fujitsu Plasma, Heybrook, JBL, JVC, KEF, (inc. THX & KEF reference), Linn, Marantz, Myriad, Nakamichi, NAD, NHT, Optimum, Panasonic, Parasound, Pioneer, Project Audio, REL, Roksan, Rotel, Seleco, Sony, Talk Electronics, Tannoy, Teac, Technics, Vestax, Vienna Acoustics, Yamaha and many more. GO GLOBAL, WE'RE WITH YOU ALL THE WAY.

#### **WILTSHIRE**

SALISBURY HI-FI LTD, 15 Catherine Street, Salisbury, Wiltshire SP1 2DF. Tel: 01722 322169. Arcam, Audio Analogue, B&W, Celestion, Denon, KEF, Kenwood, Marantz, Meridian, Mission, Musical Fidelity, NAD, Naim Audio, Opera, Quad, Ruark, Sony, Yamaha. 2 demo rooms. Friendly relaxed atmosphere. Professional advice. Home demo available. Service department. Free installation. Home trial facilities. Mastercard, Visa, Amex. Interest free credit. Instant credit Open Mon-Sat 9-5.30

**BADA** 

#### **YORKSHIRE (EAST)**

THE AUDIO ROOM, 2 George Street, Hedon, Hull HU12 8JN. Tel: 01482 891375 or visit www.audioroom.karoo.net. Superior quality Hi-Fi, home cinema and multi-room. Authorised agents for Linn Hi-Fi, Linn AV51, Loewe TV, Cyrus, Musical Fidelity, Copland, Marantz (inc. Premium), Denon, Nakamichi, B & W, Sonus Faber, PMC, Tannoy, AVI, QED, Sonic Link, Ecosse, Quadraspire, Stands Unique, Soundstyle, Atacama, Dual, Project. Open Mon-Sat 9am-7pm (later if required). Credit facilities & home demonstrations available. Free car parking and a warm welcome with impartial advice guaranteed. East Yorkshire's friend-liest Hi-Fi dealer.

ZEN AUDIO, 35 George St, Hull HU1 3BA. Tel: 01482 587397. Hull's best Hi-Fi store! From entry-level systems to high-end exotica. Friendly service, impartial advice, home demonstrations, free installations, car parking, and the best range of quality products including...Audio Analogue, Acoustic Energy, Audio Note, Audion, Densen, Denon, Dynaudio, EAR, Graff, NAD, Naim Audio, Musical Fidelity, Musical Technology, Michell, Pioneer, Pro-Ac, Rega, REL, Ruark, Sugden, Teac, Unison Research, Yamaha and many others. Open Mon-Sat. Instant credit facilities available. Feel free to call for more details.

#### YORKSHIRE (SOUTH)

#### **DONCASTER**

HI-FI STUDIOS, Sunnyfields, Doncaster DN5 8SA. Tel: 01302 781387/ 391193, fax: 01302 781387, Hi-Fi, home cinema and multi-room experts. Musical Fidelity, Tag McLaren, Electrocompaniet, ProAc, Ruark, Castle, Teac, Unison Research, John Shearne, T&A, Impulse Horns, Monitor Audio, Harbeth, Alchemist, Michell Turntables, Nottingham Analogue Studios, Blueprint, Audio Analogue, Exposure, Living Voice, Densen, Celestion (A Series only), Opera, Audio Physic, Trichord

Research, Nordost, Stands Unique, Stax Electrostatics, Ortofon, Goldring, REL Subwoofers, Yamaha A/V, Proceed Digital Cinema. Viewing and demonstration by appointment. Home trials and free installation. Mastercard, Visa and credit facilities. Phone for more information. 10am-8pm Tues-Fri, 10am-6pm Sat. Closed Monday.

THX BADA

#### NORTHERN IRELAND

#### **ANTRIM**

AUDIO AUDIO, Audio Hi-Fi Specialists. Tel: 028 9082 2128, fax: 028 9082 2128. Arcam, Rega, Denon, Sugden, Alchemist, Totem, Acoustic Energy, Tangent, Ortofon, Audioquest, QED, Ixos, Chord Co., Apollo, Soundstyle. Demonstrations by appointment. Evening demos our speciality. Ask for our free customer care package. We can also be contacted in the evening at the above telephone number.

#### **BELFAST**

LYRIC HI-FI, 161/3 Stranmills Road, Belfast. Tel: 028 9038 1296. Demonstration and installation of the finest Hi-Fi, home cinema and multiroom systems, including Arcam, Cyrus, Denon, Linn, Loewe, Mission, Naim, Yamaha and many more. Our experience will help you to choose the right system for your needs. Open Mon-Sat 10-6, Late night Thurs, closed all day Wednesday.

THE HI-FI SHOP, Bruce House, Bruce Street, Belfast BT2 7JD. Tel: 028 9032 7604. Product lines include Arcam, Audiolab, B&O, B&W, Castle, Chario, Keswick Audio, Micromega and Rotel. Demo room and Earl Gray available. Service dept, free installation, home trial facilities. Mastercard and Visa, instant and interest free credit. Open Tues-Sat I0am-6pm.

#### **DUNGANNON & OMAGH**

KRONOS HI-FI, 7 Scotch Street Centre, Dungannon BT70 1AR. Tel: 028 8775 3606, fax: 753006 and 19F high St., Omagh BT78 1BA. E-mail: David@KronosHi-Fi.co.uk, website: www.KronosHi-Fi.co.uk. We have one of the largest and best ranges of Hi-Fi and Home Cinema equipment in Ireland. Our agencies include Absolute Sounds, Acoustic Energy, Arcam, Arion, Audion, Audio Analogue, Audiomeca, Audio Physic, Audio Research, AVID, Cadence, Copland, Denon, Densen, Eltax,HK, Helios, JBL, Krell, Klipsch, Living Voice, Lyra, Marantz, Meracus, Michell, Mission, Musical Fidelity, Nottingham Analogue, Opera, Oracle, Quadral, Rega, Rotel, Roksan, Ruark, SME, Sonus Faber, Triangle, Teac, Tannoy, Unison, UKD, Yamaha, YBA. TVs and Projectors: Akai, Davis, Loewe, Revox, Runco, Panasonic, Philips, Seleco, Sony. Demo rooms for Hi-Fi and Home Cinema. Free installation, home demos and home trials. Mastercard and Visa. Credit including instant and interest free. Multiroom and custom installation specialists. Open Mon-Fri 9.30-5.30. Closed Wed. Sat 9.30-5.30. Open any evening by appointment.

#### SCOTLAND

#### **EDINBURGH**

MUSIC MILL, 72 Newhaven Rd., Edinburgh EH6 5QG. Tel: 0131 555 3963, fax 0131 555 3964. Audio Research, Copland Krell Marantz AVI Botel Grado Transparent Audio, Theta Digital, Wilson Benesch, Quadrospire, Stands Unique, Sequence, Target, Ortofon, Ringmat, Michell, Project, Jecklin Float, Crimson, Sonus Faber, Wilson Audio, ProAc, Alchemist, Teac, Martin Logan, Revox, Goldring, Koetsu, Stax, Bon Horns, JBL, Loewe. Listening rooms, free parking, workshop, delivery and installation. Open Tuesday to Saturday 10am-6pm. Call Mark, Stuart, Raoul or Mike for information or directions.

#### DUNDEE

#### SOUNDS PERFECTION AT JD BROWN,

26 Andrews Street, Dundee. Tel: 01382 266592, fax: 01382 229994, E-mail: jdb@jdbrown.demon.co.uk. Sounds perfect at JD Brown. Exceptional quality and professional service at Dundee's premier Hi-Fi store. Open 6 days a week 9.30-5.30. Outside of these hours demonstrations are available by appointment. Main dealers for Arcam, Rotel, Tag McLaren, Marantz, Technics, Sony, Mission & B&W.

#### **GLASGOW**

LOUD & CLEAR, 520 St Vincent St, Finnieston, Glasgow. Tel: 0141 221 0221. Visit us at www.loud-clear.co.uk. Central Scotland's finest and friendliest Hi-Fi store combining knowledgeable advice with specially selected products and the best of service. Four comfortable demonstration rooms including dedicated A/V room, full service and Multiroom installation facilities. Exclusive Naim Audio dealers for Central Scotland, Rega, Tag McLaren, Musical Fidelity, Denon, Marantz, NAD, DNM, KEF, ProAc, Monitor Audio, Acoustic Energy, Tannoy, VDH, Nordost, Chord Co, Ash Design, Optimum, Stands Unique. Open Tues-Sat I0am-6pm. 7pm on Thurs. Also in Edinburgh: 0131 226 6500.

#### WALES

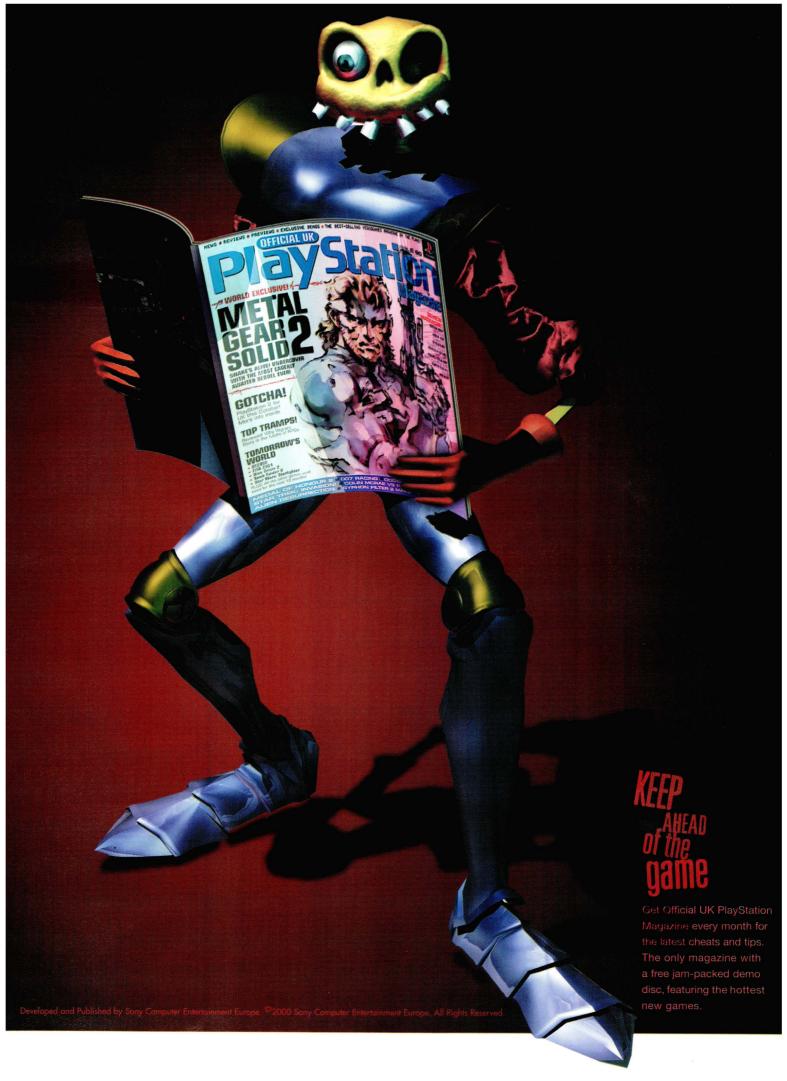
#### **NORTH WALES**

**ACOUSTICA**, 17 Hoole Rd, Chester CH2 3NH. Tel: 01244 344227. See our main entry under Cheshire.

ACTON GATE AUDIO, 4 Ruabon Rd, Wrexham. Tel: 01978 364500. Demonstration room, installation service. Easy parking and motorway access. Mastercard, Visa etc. See main entry under Cheshire.



INDICATES MEMBERSHIP
OF THE BRITISH AUDIO
DEALERS ASSOCIATION



Do you want to choose your hifi in a comfortable and relaxing environment . . ?

Do you want friendly and helpful advice (and a cup of tea) . . ?

Do you want to buy your system based on what you hear (and not what somebody tells you) . . ?

### Do you live in GUILDFORD . . ?

. . . or Addlestone, Aldershot, Ashford (Middx), Ashstead, Bagshot, Basingstoke, Bracknell, Camberley, Chertsey, Crowthorne, Cranleigh, Dorking, Epsom, Esher, Farnborough, Farnham, Fleet, Frimley, Godalming, Hartley Wintney, Haslemere, Hook, Horsham, Kingston, Liphook, Leatherhead, Molesey (East & West), New Malden, Odiham, Petersfield, Reading, Reigate, Redhill, Richmond, Shepperton, Virginia Water, Walton-on-Thames, West Byfleet, Weybridge, Windsor, Woking, Wokingham, Yateley?

Nobody else in these areas stocks all the following major brands: Acoustic Energy, Arcam, B&W, Castle, Cyrus, Denon, Epos, Harman Kardon, Infinity, KEF (Reference), Linn Products (including records), Marantz, Meridian, Mission, NAD, Nakamichi, Pioneer, Primare, PROAC, QED (Systemline), Quad, Rega, Revox, Rotel, Tag McLaren, Target, T.D.L., Yamaha (including Home Cinema Systems) & Top Tape.

Visit us first and you won't need to go anywhere else, we have superb demonstration rooms where you can decide in comfort, and we will deliver and install free of charge (and part exchange is possible).

Complete service - We are the only outlet in the area to offer the complete service. As well as stocking selected items from the above manufacturers we are able to service and/or repair on the premises all the above brands (and others also).



"Complete range of TAG McLaren Audio available for demonstration'

**NEW LINN** CD PLAYERS CD12 and IKEMI on Permanent demonstration

We are at

3 BRIDGE STREET, GUILDFORD (by the traffic lights - adjacent to Yates Wine Lodge)

01483 504801 • 01483 304756

cam/Yamaha/ Denon AV all on permanent lemonstration

Access • Visa • Switch • American Express • Diners Club • Open Monday – Saturday 9am-6pm (later by appointment)

### THE HI-FI CHOICE ARCHIVE

Missed Hi-Fi Choice the first time round? Don't worry! There are ways to catch up with us...

1. BUY AN ORIGINAL BACK ISSUE 22 (01458) 271147



#### FEBRUARY 2000/ISSUE 199

- Loudspeakers £500-£1,500
- Budget separates systems
   Mana Stealth amp



#### **MARCH 2000/ISSUE 200**

- CD players £120-£900
- Pre/power amplifiers
   B&W Nautilus 804
- Sharp digital am



#### APRIL 2000/ISSUE 201

- Budget lou
- Integrated amplifiers



#### **MAY 2000/ISSUE 202**

- idget CD & DVD players
- Valve amplifiers Technics DVD-A10
- TAG McLaren F1 loudspeakers



#### JUNE 2000/ISSUE 203

- Turntables up to £700 Speaker Cables ■ Audio Note DAC 5



JULY/AUG 2000/ISSUE 204

- ers £550 £1,520 ■ Loudspeakers £550 - :
  ■ CD & DVD changers
  ■ MP3, CD & MD perso

- Martin-Logan Prodigy

Back issues from 1988 onwards are available as shown in the table. They cost £4.00 (UK) or £6.95 (overseas). Both prices include p&p. Order by phone on @ (01458) 271147.

We accept Mastercard and Visa credit, or Switch debit cards. Or send a cheque or PO to Future Publishing using the form on this page.

	BACK ISSUE AVAILABILITY												
YEAR	HFC N°S	AVAILABLE ISSUES	AVAILABILITY										
1988	54-65	Mar, Dec	Very limited										
1989	66-77	May, June, Aug, Sept, Nov, Dec	Very limited										
1990	78-89	Nov	Very limited										
1991	90-101	May, June, July	Very limited										
1992	102-113	Mar, Collection	Very limited										
1993	114-125	Feb, Dec	Very limited										
1994	126-137	Jan, Feb, Mar, April, May, Jul, Oct	Very limited										
1995	138-149	All sold out	None										
1996	150-161	Jan, April, BBG	Very limited										
1997	162-173	May, Dec, BBG	Very limited										
1998	174-185	May, Jul/Aug, Oct, BBG	Limited										
1999	186-197	None sold out	Good										
2000	198-	None sold out	Good										

RACK ISSUE AVAILABILITY

#### 2. GET REVIEW REPRINTS BY FAX



Hi-Fi Choice reprints are available via fax, 24 hours a day. Our database, operated by Starcomm Ltd, holds a broad selection of reviews and features from mid-1995 onwards. UK readers can access this service by calling (0906) 959 2051. You only pay for the cost of the call, which is 75p

Overseas readers can order copies of reviews, non-interactively, by sending a faxed request to Starcomm on 🕿 (+44 1937) 510014 remember to include your credit card details. Reviews will then be faxed

back to a designated number at a cost of £1.50 per page.

All pages have been designed to minimise user costs. If you experience problems with this service, or have further gueries, please do not contact the editorial offices. Call Starcomm Ltd on 2 (0800) 0832030.

#### HOW TO USE FACTSBACK (UK readers only)

- 1 Dial (0906) 959 2051, from the handset of your fax machine, which must be switched to 'tone'. You will be connected to an automated switchboard. The system works using a series of index numbers corresponding to individual reviews and features, which are printed in The Directory.
- 2 The switchboard will offer you a number of actions to choose from. If you know the index number of the reprint you seek, enter it on your fax machine's handset, when prompted to do so. Alternatively, you may request an index of stored pages, at all times using the handset of your fax machine and following the voice prompts.
- To select two or three documents, press \* between each one selected and press # to finish.
- Your chosen documents will then be sent to your fax machine.

#### 4. ORDER A REVIEW REPRINT

If you are interested in an HFC review TURNTAB AND CARTRI of an older component and the back issue has sold out, we can usually send photocopies of old reviews to any UK address for a flat fee (inc. p&p) of £5.00 per review. You must know in which issue the original review appeared; we are unable to search back issues for old reviews. Send a written request, enclosing a cheque for £5 made payable to Future Publishing Ltd, to: Hi-Fi Choice Reprint Service, Future Publishing Ltd, 99 Baker Street, LONDON W1M 1FB. PLEASE NOTE: THIS SERVICE IS ONLY FOR OTHERWISE UNOBTAINABLE REPRINTS.

THE OCTOBER EDITION OF HI-FI CHOICE WILL BE ON SALE **DON'T MISS IT!** 

#### **TO ORDER YOUR BACK ISSUES**

#### **YOUR DETAILS** Name Address Postcode E-mail address Male/Female D.O.B. **Card Number Expiry Date** Switch Issue No./ Valid Date Signed

#### **WHICH ISSUES DO YOU REQUIRE?!**

WHICH ISSUE(S) DO YOU REQUIRE? HOW MIICH DOES IT COST? **MONTH & YEAR** ISSUE NUMBER AMOUNT UK £4 (per issue) Overseas £6.95 ..... (per issue)

**UK READERS** UK READERS
FUTURE PUBLISHING LTD,
FREEPOST BS4 900, SOMERTON,
SOMERSET TA11 6BR

OVERSEAS READERS FUTURE PUBLISHING LTD, FREEPOST BS4 900, SOMERTON. SOMERSET TAIL 6TB, UK

#### **HOW WILL** YOU BE PAYING?

Make cheques/POs payable to **Future Publishing Ltd.** CHEQUE **MASTERCARD SWITCH** VISA POSTAL ORDER

(PLEASE TICK RELEVANT BOX) September 2000 HI-FI CHOICE 137

### JIMMY ...

lane, Jimmy finds that a

### Taking a trip down memory H U G H E S

seminal classic by 70s multi-track meisters Supertramp proves the old adage that Crime pays...

upertramp's 1974 masterpiece Crime of the Century is out again in a new 180g vinyl reissue from Speakers Corner, and re-hearing it rekindled the thrill I experienced over 25 years ago when I first heard the record. And it still sounds great. Catchy songs, imaginative production, superb engineering - what

more could you ask for? Produced and engineered by Ken Scott, Crime was one of the first rock albums that really made the most of emerging multi-track technology, and the recording abounds with clever **Catchy songs, imaginative** 

exploitation of stereo soundstaging. Tape hiss is low, and the sound is clean with plenty of body and presence. At a time when most rock albums were quite crudely produced, *Crime* impressed with its sophistication.

True, there's a slight tonal thinness at times, and maybe the bass could be a shade firmer and more dynamic. But that's being hypercritical: compared to most of its contemporaries, Crime was in a sonic class of its own back in 1974.

Back then, very few rock albums were produced with such care. Most sounded 'multi-mono' rather than true stereo, with mono voices and instruments pan-potted into place in the mix to create 'stereo'. However good left/right separation might have been, the subtle interplay of ambience and acoustic was missing. Naturally there were exceptions. I class King Crimson's 1970 album Lizard (probably recorded on eight track) as an incredibly skilful forward-looking production, with all the creative advantages of multi-track recording and none of the sonic drawbacks. By the early 70s, 16 track recording was possible, extending creative possibilities still further. But it was limited nonetheless.

Come the end of that decade, studios were synchronising two 24 track machines together to give 46 usable tracks. The idea was to use tracks in pairs for true stereo reproduction, giving breadth and space to the sound. I think Crime was done on 16 track. And though there's still a bit of that multi-mono effect referred to earlier, the production is unusually sophisticated for the time.

The new reissue sounds very full-blooded and powerful, with a strong bass line. Cutting levels are high, and the sound is very vivid. It had been years since I last played the album, and I wondered if the sound would disappoint. I needn't have worried. Rather than highlighting

production or technical faults, I could only hear what was right.

The first track, School, opens with a wailing harmonica, set against a backdrop of sounds made by children in a playground. The effect is quite surreal, and the first of many imaginative details is the way a girl's scream leads into the second verse. For those with surround sound systems, tracks like Dreamer have surprising amounts of out-of-phase ambient information. Listening to the album again made for a wonderfully

nostalgic evening. There it might have ended, but a couple of weeks later, a friend invited production, superb engineering – me over to hear his new horn speakers

- the £5,000 Model One from Taylorwhat more could you ask for? Hyde. Without prompting, the first thing he played

was Crime of the Century on CD, and it sounded

incredible. My own Impulse H-1 horn speakers sound vivid enough, but the way I place them gives a broad generalised soundstage rather than one that's pin-point precise. Not so with my friend's system! The detail was fantastic - like listening on headphones, but with the breadth and depth you only get from speakers. The Model Ones use a fabulous new Focal titanium dome tweeter, the Audiom TLR, and this coupled with a superb mid-range horn ensures outstanding presence and detail.

I remember stereo sounding thrillingly vivid back in the early 70s, but few modern systems at any price seem to replicate the pin-point clarity and immediacy one seemed to get then. However, through the Model Ones that glorious evening, I heard vivid soundstaging the like of which I'd rarely experienced.

Playing the track Rudy, it was possible to detect the reverberation on the station announcer's voice tailing off - something I'd never heard before. It was very noticeable that the introductory piano was true stereo, whereas a little later on (during the big climax) it went back to mono. Clearly, Ken Scott and Supertramp had run out of spare tracks!

Of course, listeners today may not find Crime of the Century that incredible. It is, after all, over 25 years old and music has changed much in that time. But it was a groundbreaking album in its day and still impresses now, both musically and technically. Especially when heard on a really good system!

Taylor-Hyde 2 (020) 7729 4805 Vivante 2 (020) 8977 6600

#### MONTH'S HIGHLIGHTS $\mathbf{0}$ $\mathbf{F}$ NEXT ISSUE...

#### **DIGITAL DUST-UP!**

We put top-notch CD, DVD-V, DVD-A and SACD players to the test to see just which sings the sweetest. Includes models from Arcam, Marantz, Sony and JVC.

#### SUPPORT ACT

Is your sound coloured by your coffee table? Troubled by a tea-chest? Flawed by the floor? Find a better place for your hi-fi in our test of top equipment supports.

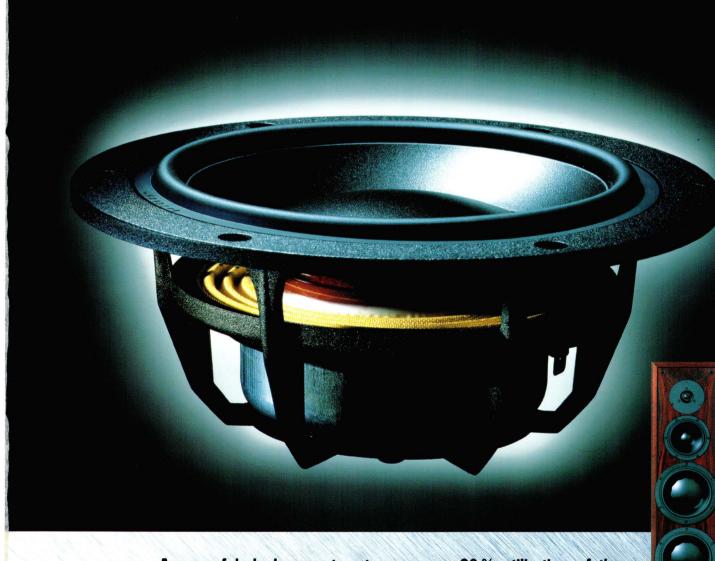
The Mains Event: Be here next month to find out why the power you feed your hi-fi is crucial to its sound.

#### A GONG FOR EUROPE

Join us for our special European Imaging and Sound Association (EISA) awards report! A panel of experts from all over Europe (including, we say modestly, our very own Jason Kennedy) have got together to judge the best amplifier, audio player, loudspeakers, DVD player and many more!

ON SALE FROM TUESDAY 15 AUGUST.

# WE KNOW ABOUT BASS



A powerful dual magnet system ensures 90 % utilization of the magnetic energy. The vented pole piece provides additional cooling of the motor structure. The progressively resistive flat spider adjusts compliance at an optimum rate based on the driver's excursion, allowing for maximum control even at high power levels. That's why a Dynaudio immediately converts power into breathtaking bass reproduction, efficiently and dynamically, with significant decreases in intermodular and group delay distortions. We know. Do you!

Know about Dynaudio: www.dynaudio.com Or call (0171) 37 89 750 That's a Contour 3.3 in the ad





## "Simply Sensational"



The 601 S2 has been awarded the "Product of the Year" award from What HiFi Magazine 1999

For more information contact B&W Loudspeakers (UK) Ltd on: +44 (0) 1903 750 750 http://www.bwspeakers.com



LISTEN AND YOU'LL SEE