

#### The Jamo Concert Series. HEAR...SEE...RELAX & ENJOY...

Advanced technology, innovative design and refined workmanship is not always the perfect recipe for success, we believe a little more is required.

The Concert series has enabled Jamo to produce a range of loudspeakers which will reproduce music that is clean and neutral. The dynamic range transparency and sound stage are all raised to a higher dimension.

AA MERZ, Ludwigsburg

The successes attained by the Jamo development team

is the result of efforts to design high-quality loudspeaker components which are critically matched to one another.

a

"THE

SOUND OF EXCEL-LENCE"

oncert

It is an honour for us to introduce this new generation of loudspeakers to you... ... Jamo Concert 11, Jamo Concert 8 and Jamo Concert Center. THE SOUND OF EXCELLENCE - Made in Denmark.

JAMO UK Ltd, 5 Faraday Close, Drayton Fields, Daventry, Northants NN11 5RD Phone: 01327 / 301 300, Fax: 01327 / 300 511 International enquiries: JAMO A/S, PO. Box 220, DK-7870 Glyngoere, Denmark, Phone: +45 99 76 76 76, Fax: +45 97 73 20 75 Web page: http://www.jamospeakers.com E-mail: speakers@jamo.dk

#### () OPINION



#### e 100433.1130@compuserve.com

QUERIES (PAGE 26) AND LETTERS TO THE EDITOR (PAGE 21)
 Accepted by letter only to the fax number, e-mail or postal
 addresses given. We deeply regret we are unable to speak with
 readers or answer queries on the telephone.

#### BACK ISSUES – SEE PAGE 129 FOR DETAILS.

A number of selected back issues are available at £4.00 each (£6.95 overseas) including p&p. Call (01789) 490215 to order all major credit cards accepted.

#### SUBSCRIPTIONS - SEE PAGE 30 FOR DETAILS

If you have a problem with an existing subscription, contact our fulfilment company on (01454) 620070, (01454) 620080 (fax), or e-mail 'cihotline@aol.com'. Quote your Subscriber Number, which is printed at the top of your subscription address label.

#### NEW PRODUCT INFORMATION

We welcome information on all new and upgraded products in all instances manufacturers should contact the editorial department. However, the magazine is obliged neither to review nor return unsolicited products. The Editor-in-Chief does not accept responsibility for unsolicited copy.

#### PHOTOCOPIES

We cannot supply photocopies of articles that are out of print, but do try our FactsBack service (p. 121).

#### COPYRIGHTS & REPRINTS

Material in *Hi-Fi Choice* is copyright and may not be reproduced in any form without written permission from the Publisher. Address requests for re-use of copyright material to Paul Smyth, Co-Operative Marketing Executive, Dennis Publishing Ltd., 19 Bolsover Street, London W1P 7HJ. **20** 0171-917 3946.

#### DISCLAIMER

Every care has been taken in the preparation of this journal, but the publishers cannot be held responsible for the accuracy of the information contained herein, or for any consequence arising. 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.

Editorial Editor-in-Chief ATW "Stan" Vincent 🕿 0171-917 7747 • Deputy Editor Jason Kennedy 🕿 0171-917 7746 • Reviews Editor Alan Sircom 🕿 0171-917 7751 • Art Editor Del Gentleman 😰 0171-917 7748 • Production Editor Christina Bunce 🕿 0171-917 7745 • Consultant Editor Paul Messenger • Technical Editor Paul Miller • Editorial Fax 0171-917 5512 • e-mail 100433.1130@compuserve.com ¶ Contributors Richard Black • Alvin Gold • Jimmy Hughes • Russell Moorcroft • David Vivian ¶ Photography Chris Foster . Chris Richardson ¶ Advertising Group Ad Manager Rob Debenham 🕿 0171-917 3834 • Deputy Ad Manager Sean Gibson 🕿 0171-917 3932 • Sales Executive Clare Smith 🕿 0171-917 3935 • Advertising Fax 0171-917 5555 ¶ Production Manager Simon Maggs 🕿 0171-917 7676 • Advertisement Controller Jane Shepherd 🕿 0171-917 3885 • Classified Ads Mark Young 🕿 0171-917 5664 • Production Fax 0171-580 6430 ¶ Circulation Director Sean Farmer 🕿 0171-917 7654 • Manager James Burnay 🕿 0171-9177810 • Marketing Director Alison Townsend 2 0171-917 7675 • Co-Operative Marketing Executive Paul Smyth 🕿 0171-917 3946 • Circulation & Marketing Fax 0171-917 7677 ¶ Men In Suits Publisher Simon Davies 🕿 0171-917 7718 Advertising Director Ian Westwood 2 0171-917 7618 • Publishing Director Eric Fuller 🕿 0171-917 7686 • Managing Director Alistair Ramsay 🕿 0171-917 7661 • Chairman Felix Dennis • Film Output & Image Manipulation Elements, London W1 ¶ Web Offset Printing St Ives (Plymouth) Ltd. ¶ Distribution USM Distribution Ltd, 86 Newman Street, London W1P 3LD 🕿 0171-396 8000 Fax 0171-396 8002 ¶ Published by

Dennis Publishing Ltd. 19 Bolsover Street, London WIP 7HJ 1 Company registered in England, number 1138891 Entire contents of this issue © 1997 Felden Productions 1 ISN 09551115



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



Editor-in-Chief Stan Vincent welcomes all readers to the new issue.

his month's special feature (p39) rounds up the extras you can buy for your hi-fi once you want to do more than just listen. Some hifi fans get totally absorbed by accessories and how to fine-tune a system. Once hooked they become 'tweakers', and their lives are never the same again. No book sums up the tweaker mentality better than Harvey 'Gizmo' Rosenberg's *Search for Musical Ecstasy*, which I review in the accessories feature. Buy a copy if you plan on getting serious about your hobby!

#### Survey results... and winners!

We've had the results of this year's *Hi-Fi Choice* reader survey, and the good news is that most respondents think we're doing okay. More than 88 per cent, for example, keep at least part of the magazine for reference. The favourite section is *Hints & Tips*, followed by our comparative product tests. The most popular hi-fi components are loudspeakers, then amplifiers. And half of our sample have connected their VCRs to their hi-fi, which is up on last year.

As you'll recall we offered a prize-draw for everyone who completed and sent in the survey form. On offer were two superb prizes from Talk Electronics, and I am pleased to announce the following winners:

The First Prize, of Talk Electronics' Hurricane 1/Tornado 1 pre/power amps, is awarded to Mr T Klapproth of Burnley, Lancs. The Second Prize, a Talk Electronics Storm 1 integrated amp, is awarded to Mr C Lorenzo of Ipswich, Suffolk.

Now I'll reveal who's won the ten copies of the Sam Brown album *Box* that we gave away last month: S Tuck of Ludlow; D Deeks of Newcastle-upon-Tyne; A Fray of Farnworth; D Ratchford of Stoke-on-Trent; M Tyrrell of Manchester; H Kyriacou of Edgware; L D Leeson of London SE1; C Winckles of Bradford; A Lovatt of Meir, Staffs; and G Peckover of New Barn, Kent.

Ten Classic FM *Absolute Blues* CDs, offered in May's issue, are en route to: A Gilson of Castleford, W. Yorks; D Ellis of Coleford, Glos; M Leach of Erith, Kent; I D Sutherland of Andover; N Bizekis of London N8; M O'Neill of Kidderminster; P Summers of Manchester; T J Maxwell of Exeter; N Barrett of Sowerby Bridge, W. Yorks; and P Drake of Wisbech, Cambs.

#### **The Mana effect spreads**

While we're discussing Sam Brown, John Watson of Mana Acoustics rang in recently to reinforce my eulogy over the great sound of her new cut (*Editor's Notebook*, *HFC* 167). John reckons it might have something to do with the recent arrival of Mana isolation supports at The Astoria studio in Hampton, Middx, where the album was mixed! He also told me that Mana's new 'phone number is 2 (01753) 655744; new fax number is 2 (01753) 655766.

#### **Suites of San Francisco**

In early May, Reviews Ed Sircom and I spent a week in San Francisco with Dolby Labs Inc. (Its president, Ray Dolby, has just won a top-level award from the US government, as you'll read in Update, p6.) The trip proved extra-fruitful when we encountered the superb Bishop Norman Willis jazz trio playing acoustically in the San Francisco Brewing Company pub (where else?). Over several pints of potent homebrewed pale ale we thrilled to the sound of the ultimate hi-fi system. Even the finest recording equipment would not have captured the effect of standing five feet from an acoustic trio on top form. Hi-fi is great but you can't beat live music. And beer.

#### **Banana skin dept**

Due to an administrative error, we have printed incorrect bargraph values for the Audible Distortion measurements in Group A of the amplifiers on test this month (feature starts page 56). The correct values are as follows:

AMC CVT3030a	-25%
Cyrus SL	-40%
Marantz PM-66 K I Signature	-80%
NAD 317	-45%
Pioneer A-605R	-30%

On page 51 of HFC 167 we printed a diagram entitled 'What's happening to the sound in your room?' The key to the colour-coded arrows should have read as follows:

Direct	thick red lines
Reflected	thin red lines
Diffused	green lines
Absorbed	

Enjoy your listening (and tweaking!) this month.

JULY/AUGUST 1997 3





# CONTENTS









## JULY/AUGUST 1997 ISSUE 168

#### REGULARS



It's Summertime Splashdown time for the latest bumper crop of brand new hi-fi goodies.



Jason Kennedy discovers the ultimate in onemake systems, the sexy silver JVC SD-1.



Your dispatches from the edge, sent by letter, fax or e-mail — but no more carrier pigeons.

## 22 Statements I

Alan Sircom and Paul Miller discover the future face of audio in the Sony SDP-EP9ES.

## 25 Statements II

Teac's flagship P-30 CD transport comes under the gaze of Central Scrutiniser Sircom.

## 26 Help!

iLos expertos responden! Our hi-fi troubleshooter advises on every hi-fi query.



Jimmy Hughes adjusts his response with the new Musical Fidelity X-Tone.

#### **34** Inspirations

Jason Kennedy starts thinkin' of good vibrations as he visits a Theremin king.



Does Sony's new SDP-EP9ES represent the shape of digital audio to come? p22

#### **OPINION**

# **3** From the Editor's Notebook

Cap'n Stan and his hardy-har-har crew trawl the audio ocean to bring you the finest prime white chunks of hi-fi cod. Allegedly..

# **13** Ear Waxings

Lat month he was horny, but this month he doesn't have the bandwidth. Jason Kennedy goes all French with Rehdeko speakers.

# **15** The Jimmy Hughes Experience

Jimmy Hughes delves into the dark heart of audio and finds that all is not well in the land of CD mastering quality.

# **17** Oasis of Sanity

Read Paul Miller's latest slab from the lab, as he gets all shirty about companies not designing loudspeakers by measurement.

# **19** Personal Messages

Paul Messenger ponders the relative merits of the latest crop of loudspeakers from KEF and Totem.

# **130** Ultra Vivian Scene

David Vivian lends his support to the latest ground-breaker from the brain of Max Townshend — the Seismic Sink Stand.

#### REVIEWS

# **38** Accessories to the fact

The *Hi-Fi Choice* team brings you the collected works of the accessories market, from the most basic cones or oaken feet to the darkest depths of hi-fi tweaking. Be afraid... be very afraid.

# **46** Loudspeaker Cables

Richard Black plugs into a dozen of the most significant loudspeaker cables around, ably abetted by the mighty lab of Paul Miller.

## **56** Amplifiers

The latest 14 amplifiers from around the world are given a complete going-over by Alvin Gold, his barmy army of blind listening panellists and the mighty morphin' measuring instruments of Paul Miller.



Get yourself connected! Get wired! And other vaguely cable-related clichés. p46

#### **READER SERVICES**

## **30** Subscriptions

Save time, money and shoe leather when you subscribe to the world's finest hi-fi magazine. There's a free gift for every subscriber!

# **91** Reader Classified

Buy, sell or trade a top-quality audio bargain today, with our special portfolio of well-loved, pre-owned hi-fi kit.

# 121 Factsback

The ultra-convenient and high-speed way to access classic *Hi-Fi Choice* articles and reviews by return of fax.

# **129** Next Month & Back Issues

Find out what's going on in September's action-packed *Hi-Fi Choice* — and how to get hold of any issues you may have missed.

#### THE BUYER'S GUIDE

# **93** The Price Guide/Directory

Our new icon-infused listing of every new hi-fi product on the market goes from strength to strength, and includes an easy-to-use almanac of every reviewed component to boot. If it's hifi and it's not here, you don't need to worry about it!





## products reviewed IN THIS ISSUE

Alchemist Nemesis 69
AMC CVT3030A59
Arcam Alpha 971
Audioquest Crystal
Cable Talk Talk 3.1 48
Chord Myth 48
Copland CSA877
Cyrus SL 61
DNM LSC35049
Gale XL189
Goertz M1
JoLida 202
JVC SD-18
KEF RDM Two19
Kimber 4TC 50
Marantz PM-66 KI Sig63
Musical Fidelity A220 79
Musical Fidelity X-Tone31
NAD 317 65
Nordost Octava51
Nordost Uctava51 Pioneer A-605R67
Pioneer A-605R 67
Pioneer A-605R 67 Prime Design A-100 73
Pioneer A-605R         67           Prime Design A-100         73           QED Profile 4x4         51
Pioneer A-605R       67         Prime Design A-100       73         QED Profile 4x4       51         Quad 77       80
Pioneer A-605R       67         Prime Design A-100       73         QED Profile 4x4       51         Quad 77       80         Rehdeko RK115       13
Pioneer A-605R       67         Prime Design A-100       73         QED Profile 4x4       51         Quad 77       80         Rehdeko RK115       13         Roksan Caspian       81
Pioneer A-605R       67         Prime Design A-100       73         QED Profile 4x4       51         Quad 77       80         Rehdeko RK115       13         Roksan Caspian       81         Rose Scion       75
Pioneer A-605R       67         Prime Design A-100       73         QED Profile 4x4       51         Quad 77       80         Rehdeko RK115       13         Roksan Caspian       81         Rose Scion       75         Silver Sounds 12 gauge       52
Pioneer A-605R       67         Prime Design A-100       73         QED Profile 4x4       51         Quad 77       80         Rehdeko RK115       13         Roksan Caspian       81         Rose Scion       75         Silver Sounds 12 gauge       52         Sonic Link Silver Aero S300.       52
Pioneer A-605R       67         Prime Design A-100       73         QED Profile 4x4       51         Quad 77       80         Rehdeko RK115       13         Roksan Caspian       81         Rose Scion       75         Silver Sounds 12 gauge       52         Sonic Link Silver Aero S300       52         Sony SDP-EP9ES       22
Pioneer A-605R       67         Prime Design A-100       73         QED Profile 4x4       51         Quad 77       80         Rehdeko RK115       13         Roksan Caspian       81         Rose Scion       75         Silver Sounds 12 gauge       52         Sonic Link Silver Aero S300       52         Sony SDP-EP9ES       22         Teac P-30       25



JUST IN THIS MONTH... TECHNICS CD UPGRADE... GLL IMAGIO REVISION... NEW LYRA CARTRIDGE... AND MORE!

# In brief

High End Audio Recherché of Belfast has announced new agencies for myriad high-end wonders: Forsell's Air Reference components, Arcici isolation stands, Elliott ASE amplifiers, Purist Audio Design cables, the SigTech TimeField Acoustic Correction System and Altis's digital components. **12** (01232) 319148

IXOS has launched two new additions to its Scart AV interconnect series. The Scart to Scart 126AV is now available in 3m and 5m lengths, model numbers 130AV and 131AV respectively. Both cables feature the IXOS Ingot Scart plug and IXOS audio video cable. Prices are £49.95 for the 130AV and £59.95 for the 131AV. @ (01494) 441736

Rogers has announced the reduction in price of its db101 speakers from £399 to £249. The company is also proposing to refund the difference to any existing UK customers who paid over £249 for the speakers. Customers should produce proof of purchase in order to claim the refund. (2) (0181) 640 2172

Blackshore Acoustics has launched its Concept range of speakers. The range consists of the Concept 200 at £1,200 and the Concept 300 at £1,800. Both speakers benefit from metalcone drivers and minimalist cross-overs, and according to Blackshore are best suited to low-power-output valve amplifiers. ☎ (01502) 724301

JBL has expanded its Simply Cinema range with the ESC300 system, which includes a

# **Technics také two**

Technics has upgraded its popular SL-PS770 CD player, which is now in 'D' suffix form and costs £250. Changes from the A version include the use of the company's také bamboo dielectric capacitors and virtual battery operation, plus the S advanced version of its MASH DAC.

The také caps and virtual battery operation are taken from Technics' work on its pre/power amps, which themselves have been upgraded to mkll form with the introduction of the také II capacitor and advanced virtual battery operation (as reported in *Update* last month). All three models feature dual pre-outs to allow for bi-amping, even though the cheaper models can only be bought as pre/power pairs.

In the pipeline is the SH-D100 programmable digital processor. This is like a professional mixing desk in miniature, and offers myriad sound-tailoring options that can be customised with the aid of a PC-compatible computer. It

# Korkin' Kronos kit

Hot news just in from Kronos Distribution of Dungannon. Pierre Lurné's Audiomeca range now includes the Talisman, an £1,850 top-loading transport or £1,250 CD player (available with Trichord mods if preferred).

Also new is the  $\pounds$ 1,850 Ambrosia DAC (pictured) and The Tube Extension, a  $\pounds$ 950 valve output stage for both Ambrosia and Talisman.

On the cable front, Kronos now distributes Silver Sounds cables, the £150 Titan mains filter box and Kebelwerk mains cable, offered at an introductory price of £99 and claiming to be "the best mains cable" that Kronos proprietor David Campbell has ever heard. Cables and filters are offered on a 14-day sale-or-return basis.

Finally, French speaker brand Triangle has announced the arrival of the £499 Lunn, a new floor-standing speaker with a claimed 91dB sensitivity and 'easy'

impedance. Meanwhile Triangle's £379 Titus and £525 Comete stand-mounts have improved drive units, in common with their £799 Zephyr, £1,099 Antal and £1,750 Zays siblings.

siblings. Kronos 🕿 (01868) 748632

# Arise, Ray Dolby

The upgraded SL-PS770D CD player from Technics

Also new from Technics is the SA-TX30 Pro Logic

receiver, equipped to process decoded Dolby Digital sig-

nals. It has a 30-station random-preset AM/FM digital

should be available next year for around £500.

tuner, and is priced at £699.95.

Technics 🕿 (0990) 357357

Ray Dolby has been awarded the US National Medal of Technology by President Clinton.

The guru of commercial noise reduction systems and cinematic surround sound was one of only five individuals to be recognised for their technological innovation and advancement of US global competitiveness.

Dolby was cited for "inventing technologies

that have dramatically improved the recording and reproduction of sound, fostering their adoption worldwide, and propagating a vision of how innovative audio processing technologies could enable new formats for recording and listening."

"I am delighted and honoured," responded 64-year-old, Stanford/Cambridge-educated Dolby, who founded Dolby Labs. Inc in 1965 and now holds 50 US patents, an Oscar and an Emmy award. Dolby Labs Inc **2** (01793) 842101

Doldy Lads Inc 2 (01793) 842101

## JPW's new Millennium series is boxing clever

The new £1,850

Ambrosia DAC from

Pierre Lurné's

Audiomeca range

JPW's new Millennium series encompasses five standmounts (ML210 to '610, priced £79.99 to £169.99) and four floorstanders (ML710 to '1010, priced £229.99 to £399.99). The key feature is a 'massive sandwich' of MDF and particle board forming an extra-thick front baffle, which, JPW claims, is a much better solution than the plastics mouldings employed in competitors' budget models. Also notable is a bass drive-unit with a precisionmoulded polymer chassis which, claims JPW, matches the stiffness and strength of a metal chassis but avoids its inherent resonances. On the AV side JPW offers four new centrechannel speakers priced from £79.99 to £129.99, and two active subwoofers — of which the SW120 offers remote control at £499.99. JPW 2 (01752) 607000



# GLĽs 'i' level

GLL's Imagio range of speakers has been revised to feature an improved version of the company's proprietary Inductive Coupling Technology tweeter. An 'i' suffix denotes the new range, whose numbers will be bolstered by the addition of the IC50i 'baby bookshelf' model and the IC115i floorstander. The latter, at £299.95, slots in below the reduced-price IC120i (£399.95), and the IC130i (499.95), but above the reduced-price IC110i (£259.95), and the IC100i (£169.95). The price of the '50i will be confirmed closer to its September launch date.

Other family revisions include a higher-density cabinet, plus better packaging materials.

GLL 🕿 (01705) 492777





# **AE for size**

AESC-C3 is a custom-made tri-wire cable announced by Acoustic Energy to complement the company's 100 Series speakers, in particular the recently-launched AE120

Tri this:

Acoustic

(£500). The latter, it appears, is internally wired with the same ultra-pure 'single-crystal' copper that constitutes the speaker cable. All 100 Series enclosures will benefit from this wire during 1997

Inside the AESC-C3 there are three twisted pairs of multi-strand, variable-thickness conductors, all sheathed within a 13mm-diameter grey iacket

AESC-C3 will cost £11.95 per metre, and may be adapted for bi- or mono-wiring. Acoustic Energy 🕿 (01285) 654432



# Power rangers

A rechargeable alkaline battery, would you believe? It's here in the guise of amazing new Pure Energy cells, which are being imported by Allied Battery Technologies and distributed nationwide through the 42 shops of Maplin Electronics plc. A four-pack of AA-size cells has an RRP of £4.99, while a plug-top charger with four cells included, costs £17.99.

These new Rechargeable Alkaline Manganese (RAM) cells were designed in Canada, and lack the environmentallyunfriendly mercury content of traditional reusable batteries. It's claimed

the 'average British family' could save £100 a year by using RAM cells in place of conventional alkaline manganese designs. Allied Battery Technologies 2

(01494) 484050



recharge able alkaline PURE ENERGY batteries.

## Lyra's above Par

The princely sum of £1,895 buys you the new Lyra Parnassus DCt cartridge. Like its Clavis DC sibling, the new needle is unique for its one-piece machined titanium body which is coupled directly to its moving components. This is claimed to avoid the so-called 'echo distortion' effect alleged to afflict lesser groove-tracers.

Another feature shared with the Clavis DC is a Ceralloy cantilever, but with an added diamond layer. The stylus is 60 microns square (smallest and lowest mass in the world, they say) and is fashioned with an Ogura PA line-contact profile.

A direct-flux magnetic circuit (with dual disc magnets)

incorporates a gold-plated iron square wound with copper coils, both of high purity. Output is claimed to be 0.35mV, and internal impedance two Ohms. Path Premier 🕾 (01494) 441736



# Any Rockport in a storm

US-based Rockport Technologies has announced the £50,000 Sirius III, a 525lb air-suspended turntable. It includes a 'biaxial air-bearing platter", a vacuum system to hold down LPs being played, and what's described as a "non-contact" drive system. An air-bearing passive lineartracking tonearm and combined compressor/refrigerator unit complete this 525lb package.

A 'budget' model, the Capella, costs £7,000 but may be upgraded to full air-bearing/vacuum hold-down for £5,000. With the Rockport Series 6000 air-bearing tonearm it's yours for a paltry £14,500. Vinyl Demand 2 (01425) 654545



Rockport's new Sirius III: yours for £50,000!

## In brief

"smart-sub", remote/remote sensor and small satellites which can be either wall or stand mounted. Prices are £599.99 for the ESC300 system. with FS300 floor stands at £39.99 per pair, WB300BLK wall brackets at £7.99 per pair and XC300BLK extension cables at £7.99 a pair. 😰 (01908) 317707

Jamo has launched a collection of in-wall and ceiling speakers. All incorporate a two-way design and use titanium metal-dome tweeters and polypropylene cone bass units coupled to a Velbex PVC cone surround. **Enclosure surround and grille** may be painted to match interior décor. Prices vary from £139.99 per pair for Jamo 525s, to £109.99 each for a Jamo 860SW. 🕿 (01327) 301300

Sharp's latest offering in the midi market is the CD-C1600H system, a new addition to its SRS range. The system boasts 100 Watts per channel, a 3-way bass reflex speaker system with 20cm woofers and five-mode 3-D surround sound system, three-disc CD player and twin cassette decks. The unit is priced at £399.99. 2 (0161) 205 2333

The Car Audio, Tuning and Styling Show will be held in Wembley on September 20-21st this year. **Replacing ICE, the show will** also include the final of the regional Sound Offs, and sections for car styling and tuning. 2 (01634) 261262

ALBUMS PLAYED IN THE HI-FI CHOICE
OFFICE THIS MONTH
Victor Lewis-Smith
Tested On Humans For Irritancy
Tom Waits
The Heart of Saturday Night
FFWD ►► FFWD ►►
Bob Marley & The Wailers
Uprising
Ben Harper
Welcome to the Cruel World
Joni Mitchell
Mingus
Yes
Fragile
Ramsey Lewis
In Concert 1965
Boroy Crainger
Percy Grainger Orchestral Music Vol. 1 (Chandos)
Urchestral Music Vol. 1 (Chandos)
Boston
Boston
The Chemical Brothers
Dig Your Own Hole
Dig four Swithold

# Separate lives

A JVC system for £5,000? In this UK exclusive, Jason Kennedy reveals the new SD1, which matches top-flight construction with ace sound. ou're not a mad hi-fi buff, but you like music and want to listen to it through decent kit. You don't want a stack of black boxes and a sack of remotes — so where do you go? Until recently, this variety of music lover was likely to end up with one of B&O's stylish single-box systems.

These look fantastic and don't blind you with flashing lights or arrays of switches. But other manufacturers have cottoned on to the fact that the abovementioned Danish company is turning over a lot of product. Rival top-notch 'lifestyle' systems are springing up — and this rather tasty

JVC SD1 is one of them. Stylistically, the SD1 is a cross between conventional hi-fi kit and the less conventional designs of B&O, Revox or Bose. The SD1 incorporates separate 'components' (CD player, amp etc), but

IME

TTE

IL-SOI COMPAC

AX-SOL INTEGRATED AMP

HI-FI CHOICE





#### **INSTANT SYSTEMS – EXCLUSIVE**

they're the width of a midi system, are finished in champagne aluminium with cast side panels, and have discreet displays.

The whole thing hooks up with bus cables so that remote operation is simple. If you want to hear the radio you just press 'tuner', and the amp selects that input and turns on the wireless. The remote could be a bit prettier but it covers a lot of bases, including tuner presets and CD track select. If your coffee table yearns for myriad handsets, you got 'em; each component has its own zapper but all basic functions are actuated by the amp's remote.

For £5,000 you get the AX-SD1 amp, XL-SD1 CD player, TD-SD1 cassette deck, FX-SD1 tuner and SX-SD1 loudspeakers. Each unit is ultra-hefty, thanks to substantial alloy casework and colossal transformers inside. The amp's novel touch is a three-position 'presence' selector with which to enhance the midband; its claim to potential sound quality is an encouraging amount of heat emanating from the ventilation grilles.

The CD player incorporates JVC's K2 20-bit processing, while the cassette deck is a three-head design whose only frill is bias calibration (the only frill that makes a difference to sound except for Dolby S, absent here).

3:11

HI-FI CHOICE

The tuner is an RDS EON model with a rotary knob and presets best accessed via the remote.

The bookshelf speakers appear to be built from solid wood, with a metal-front baffle harbouring a 19mm fabric-dome tweeter and a 100mm paper-cone woofer This is a classic combination that seems most capable in this twin-ported design.

Unusually, the speaker's base is fitted with three gold-plated nuts, which are designed to locate in a matching stand (not supplied). These should aid sound if you do bookshelf-mount the enclosures; alternatively you can cover the nuts in Blu-Tack for stand-mounting.

Decent-quality interconnect and speaker cables are supplied with the system, which appear to work well even if they're low on designer name cred.

#### **Sounds sweet**

11

When shiny, slick kit turns up from large Japanese corporations, one does not always expect the best. We've all heard too many pretty but disappointing midi-width components. So when packaged audio surprises with sonic excellence, the impact is so much greater. The SD1 system seems to hit the mark. Its key strength is coherence, implying good timing and transparency that combine to create palpable, fluent music. Inevitably it's not the most dynamic or bone-crunching system, but makes up for this by remaining unflappable up to decent volume levels, producing a clean, even balance that lets through music with the minimum of fuss.

There was real image depth from the CD player, which is an elusive characteristic even in some so-called high end hi-fi. In the fullness of time I'm sure it would be worthwhile investigating the components of this system one at a time, to see which one



and CD player) complete JVC's SD1 system.

contributes the most to the system's sound in this critical respect. What I describe here enhances not just to left-right imagery per se, but also naturalness and a listenable relaxed presentation. State-of-the-art design work must be the reason.

#### Conclusion

The JVC SD1 is well built, easy to use and sounds excellent — a Lexus to most Toyota systems. It's not an edge-of-seat choice for ardent audiophiles, nor a European design classic by appointment to the Danish throne. However I believe this system will reward purchasers with years of faultless service, and sweet sound to boot.

THE JVC SYSTEM
AX-SD1 Amplifier£999.99
FX-SD1 Tuner £699.99
XL-SD1 CD Player£899.99
TD-SD1 Cassette Deck £899.99
SX-SD1 Speakers£1,499.99
TOTAL£4,999.95





#### COMPETITION

his month, three lucky *Hi-Fi Choice* readers will have their lounges enhanced by one of these smart new Reference 500 systems! Teac's acclaimed new modular hi-fis boast top-notch upgradeable components, which combine remotecontrolled ease of use with the serious sound quality of separates hi-fi.

Our First Prize this month is the Reference 500 VRDS System Package, worth £1,249.95. Highlight of this outfit is the VRDS-9 CD player, which includes Teac's Vibration-free Rigid Disc-clamping System as found in the company's top-end hi-fi players like the P-30 transport reviewed on page 25. Completing the line-up are the A-H500 integrated amplifier, T-H500 tuner and R-H500 auto-reverse cassette deck.

Second Prize is the Reference 500 A/V System Package, worth £899.95. Here there's the added dimension of Dolby Surround Pro-Logic in the AV-H500 amplifier, which joins the T-H500 tuner, R-H500 cassette deck and PD-H500 CD player to provide total entertainment.

Third Prize is the Reference 500 System Package worth £799.95, as reviewed in *HFC* 160. It comprises the A-H500 integrated amplifier, T-H500 tuner, R-H500 autoreverse cassette deck and a PD-H500 CD player.

All units feature a 10mm-thick, champagne-coloured anodised aluminium facia for durability and discretion. The A-H500 amp boasts separate left-right circuits, a fully-shielded toroidal transformer and the claimed capacity to drive four-Ohm speaker loads. The PD-H500 CD player offers a one-bit DAC with eight-times oversampling digital filter, and multi-function digital display with calendar function. The R-H500 cassette deck has full logic transport control, bi-directional record and playback, plus Dolby B/C noise reduction system. Finally the T-H500 has a phase-locked-loop synthesiser tuning system and 30-preset FM/AM station memory.

Just add speakers and off you go! Entering is easy so put pen to paper today – it'll only cost you a stamp.





### **HOW TO ENTER**

Answer the question below by circling the correct answer, then fill in your name, address and day-time telephone number in the spaces given below. Please remember to tell us whether you are over 18 years of age.

#### **POST THIS ENTRY FORM TO:**

- Hi-Fi Choice Competition (CHFC707A)
- Bradley Pavilions,
- Bradley Stoke North,
- Bristol BS12 OBQ
- All entries must arrive by first post, Thursday July 31, 1997.

#### THE QUESTION

- The initials 'VRDS' are an acronym of...
- a) Very Reliable Digital Signal
- b) Various Rates of Decaying Sawtooths
- c) Violently Rotating Danger Session
- d) Vibration-free Rigid Disc-clamping System

#### **YOUR DETAILS**

and a state of the second s
and the second second second second

#### Day-time Telephone Number

- Please tick here if you are under 18
- Please tick here if you do not wish to receive details of further special offers or new products from other companies.
- products norm other companies.
- Are you a current subscriber? OR
- Are you an occasional reader?

#### **COMPETITION RULES**

- The Closing Date for this competition is Thursday July 31, 1997.
  Winners of the Teac competition will be judged from all correct entries submitted,
- and drawn at random after the Closing Date.
  Winners will be notified by post.
- The Editor's decision is final and no correspondence will be entered into
- The Teac competition is not open to employees of Dennis Publishing Ltd, Teac UK Ltd, nor their suppliers, agents or associates.
- We regret this competition is open to UK residents only.
- No cash alternatives will be offered.
- By entering the competition you agree to be bound by the rules.
- For a list of the winners of the Teac competition, write, enclosing a stamped addressed envelope, to: *Hi-Fi Choice* Winners, Dept 168/1, 19 Bolsover Street, London W1P 7HJ.
- All entries must be on this official entry coupon. If you do not wish to cut your magazine, you may send a photocopy of the page instead. Please note: only one entry form per household.
- CHFC 707A

# To perfect our latest CD player, we added an input.

TEAC

0

When seeking to even further improve the already remarkable CD-P3450, we decided to add input.

How? By asking the valued opinion of a top audio electronics engineer here in the UK - and acting on his advice. The result - a sub-£200 special edition CD player, the new CD-P3450SE. It is enhanced by a unique circuit modification, developed specifically to appeal to music lovers in the UK and Europe.

The new CD-P3450SE from TEAC. We put more in, so you'll get more out.



TEAC UK Limited, 5 Marlin House, The Croxley Centre, Watford, Herts WD1 8YA Brochure Hotline 01923 819630 Monday - Friday 9am to 5.30pm





In the wake of last month's mammoth speaker test, **Jason Kennedy** explains why Rehdeko speakers can teach everyone a thing or two about listening techniques.

ehdeko loudspeakers are controversial. RK115s returned from Paul Messenger's group test (issue 167) recently and we decided to try them out in the office system. Operated for ambience rather than serious listening, this system gets a lot of use with CD and cassette. Its usual loudspeakers are rather war-torn Audio Note AN-J/Bs, the original Snell copy with open balance and useful efficiency. These are particularly prized for their abilities at low volume levels. When a member of staff plays a recording that's either distracting or grim, it would be nicer to have a duller, more innocuous system but on the whole the Is are well suited to the task. Numerous

alternatives have been tried and rejected over the years. Art Editor Del, who's a closet audiophile and the most prolific CD buyer in the office, sometimes gets the urge to try different kit. Which is how Rehdeko's least substantial model came to put in an appearance on the end of a Talk Electronics Storm 1 and the pretty Sherwood Tema CD. I warned Del he wouldn't like the Rehds, but encouraged him to give them a try because I was intrigued about the response they would elicit from a largely non hi-fi oriented audience (we share space with the videophiles on *Home Entertainment*).

The response was as expected and not altogether positive - the RK115's balance is just too tinny. Both Alan Sircom and I encouraged everyone to live with them on the basis that such cosmetic factors can be accommodated with exposure, and we almost succeeded: I think they lasted for two days. I liked them almost from the off, especially with electric guitar, which seems to be the Rehdeko forté. In many respects the Fun Loving Criminals became a far more enjoyable record for those of us that didn't much go for it before. I even preached a Zen-style non-listening, just-hearing approach to Del, but on returning from a day out of the office I found the stalwart Audio Notes back in play. The tonal balance barrier could not be surmounted. The Rehdeko's fine sense of timing failed to offset this lack of low frequency extension and drastic coloration for listeners who wanted their records to sound as they had always done.



It was interesting to note the reaction when the RK115s were removed. Several staffers realised something crucial had gone from the sound, and that included those whose attention was barely focused on it. I experienced the same thing at Paul Messenger's at the end of the blind listening tests. As the Rehdekos were the last up we left them on during the après-listening banter, then Paul decided to haul in a pair of speakers we hadn't heard that day - the Dynaudios, I believe. The contrast was distinct, the latter's bass was welcome, but a few degrees of rhythmic integrity disappeared and again I realised why Paul had been unable to let go of the big RK175s when he reviewed them two and a half years ago (issue 136). In fact he purchased these behemoths of deck-chair-mount boxes and has yet to find a speaker that suits him better.

Which brings me round to the subject of listening. How we approach it and what we listen to are the defining elements in selecting a system. Do you have a listening ritual like Harvey Rosenberg (author of The Search For Musical Ecstasy), methodically preparing yourself for a session; or do you use music to relax and soothe away your troubles? Perhaps you use it as ambience - a background against which you continue your day to day life? I guess most of us end up using music for a variety of purposes and what defines the audio maniac is a propensity for focused, total-immersion listening, where all else is cast aside in the quest for musical ecstasy. That pure, non-intellectual,

almost physiological thrill that great music through great kit can produce.

The biggest barrier to achieving our goal is of course psychological: our minds want to control and analyse the situation whereas we should really be engaging our emotions. Perhaps live music is more fun than hi-fi because it gives us the chance to have a couple of drinks and jump about with mates, our intellects not getting much of a look in. I regularly simulate this kind of merriment in my living room - a bunch of pals and some sherbert - and find myself enjoying my music more than usual. Intellectual analysis gives way to air guitar and genuine musical appreciation ensues.

#### The ultimate tweak

Whatever your system or tastes, the ultimate tweak is the appreciation of the music you play on it. Because software is not solely a hi-fi product, we haven't mentioned it in our tweaks guide (p39), but it is the most important audiophile ancillary, and one which we could do with spending a little more time and money on. There are hi-fi enthusiasts out there with more demo discs than genuine music for music's sake, a folly that makes hifi a joke in the 'real' world, and one which distances enthusiasts from the heart of the matter. So as well as sorting out your mains cables and upgrading your Blu-Tack, don't forget to buy yourself some fantastic music as well. You'll amazed at what it can do. 🔺 👁 Virtual Reality: (01277) 227355



# For years, this man has been designing hi-fi for you to listen to... Now you can buy the hi-fi he listens to.

THE lignature Series

FROM

ESSENCE OF MUSIC

# The Jimmy Hughes **Experience**

The CD format promised the best sound available - so why is there such variance in the quality of individual discs? **Jimmy Hughes** investigates.

re you happy with the quality of compact discs? Are they a faithful reflection of the original source, for better or worse, or are mastering and pressing limitations beginning to affect quality?

Recently I read a disturbing article on CD mastering in the pro-audio magazine *One To One*. It highlighted the concern some engineers and producers have over the quality of CDs, and how they degrade the pristine sound of the original master tape.

Basically, some professionals feel the 'sound' of finished CDs fails to match the quality of the original master-tape or glass

master disc. There seem to be two problem areas: the pre-mastering of the recording and its transfer to glass disc, and losses that occur when the discs are pressed.

Consumers can only speculate on why a disc sounds poor. It might be down to the original tape, or it could be because a good tape has been transferred badly. It isn't the same for those involved in making recordings; they should know how close the CD gets to its master.

This obviously assumes that the chosen CD player can recreate the sound of the original tape in all its glory, given a well mastered disc. But all CD players are not equally good as we know only too well.

In the One To One article, Pink Floyd engineer/producer James Guthrie is among the most critical of current mastering standards. He had Floyd's album *Pulse* pressed by EMI from his own pre-mastered glass disc, and was most unimpressed with the finished CD.

EMI's test pressing, in Guthrie's words, "bore no resemblance to the original; it was lifeless and limp, the low-level information had gone, and sounded as though it had been phase-shifted; and there was high frequency distortion and a bump in the low-end, reminiscent of the sound you get when an analogue tape machine is badly out of alignment".

*Pulse* had been mastered in real time by Doug Sax at the Mastering Lab in Los Angeles on a Sony 1630/Umatic. Guthrie called EMI, who said it had made a straight data transfer and nothing could be done to change it. EMI then sent two further test discs which should have sounded the same, but didn't.

The One To One article encompasses five detailed pages that I can only skim here. But the bottom line is that finished CDs can and do sound different according to how they're mastered and pressed, even if the digital 'numbers' appear to remain unchanged.

The article makes pretty depressing reading, but just how serious is the problem? For those of us who buy lots of CDs it's clearly an issue. When I began collecting CDs in 1984 I wasn't happy with their sound, and wondered if I was wasting my money on soft-



ware that was inadequate. Yet as time went on it became clear that the problem was more with the player than the disc.

It's interesting James Guthrie has concerns about EMI's standards. On the classical front, I've long felt the sound of EMI CDs hasn't been all it might. I'm not sure when I first began to have doubts, but I'd say it was during the late '80s.

It didn't seem to matter where a recording was made, or who produced and engineered it, the sound appeared to be 'thin' and lacking in body and weight. Many classical CDs are under-modulated so that peaks fail to reach maximum level. EMI is among the worst offenders.

I used to despair over the series of EMI recordings with Mariss Jansons and the Oslo Philharmonic, comparing EMI's pale onedimensional sound to the rich vibrance Chandos achieved with this orchestra in their '80s Tchaikovsky symphony cycle.

The EMI recordings had to be played loudly to get any sense of presence, and even then the sound lacked real weight and body. Was it the original recording, or something to do with the mastering? I wasn't sure.

Then in the late '80s I got two CD copies of Olaf Bar's EMI recording of the Schubert song cycle *Die Schöne Müllerin* — one pressed in Japan, the other by Sonopress in Germany. The Germancopy sounded tonally thin and edgy, with a pronounced sibilance to the voice. EMI used Sonopress a lot, and ever since I've wondered if this was signifi-

cant to its 'house' sound.

Yet I have to say, since I bought a Meridian 518 digital audio processor (which allows the volume level to be raised or lowered in the digital domain and re-clocks the signal), my 'difficult' EMI CDs now sound very respectable sometimes to the point where I almost wonder why I had so much trouble with them once.

Thus, while the *One To One* piece was alarming to read, it didn't worry me as much as it once would have done; you can get good sound from 'second rate' transfers, providing they're played on good hardware.

Great! But should one have to buy a Meridian 518 to correct low-level CDs? Why not get the transfer level right to begin with; it can't be that difficult, surely?

One great benefit of digital formats is the way corrupted signals can be totally constituted by re-clocking. My PD-75 Pioneer has Trichord's Clock 2 and output stage, plus an external Pulsemaster de-jittering box between transport and DAC — not to mention the Meridian 518 which also re-clocks the signal.

This seems to reduce the variation I used to get between different CDs, allowing one to hear what's right with a disc rather than what's wrong with it.

This doesn't resolve the question of whether or not a problem exists with CD mastering and pressing standards, but does present a solution of sorts.



# With Cinema DSP, you'll be amazed at what comes out of the woodwork.

Bats screech overhead. Wolves howl in the distance. And footsteps crunch across your living room floor.

No, it's not your imagination. You're hearing sounds placed around the room, just as the director intended.

All courtesy of Yamaha Cinema DSP. The home theatre technology that gives dialogue more definition. Music, more dimension. And sound effects, more graphic detail.

Only Yamaha Cinema DSP creates phantom speakers that fully replicate the experience you get in multi-speaker movie theatres. It sounds so real, in fact, you'll swear you hear sounds in places that you don't even have speakers.

As you might imagine, a breakthrough like this is no small feat. It's accomplished by multiplying the effects of Digital Sound Field Processing and Dolby Pro Logic.®





Only Yamaha Cinema DSP creates phantom speakers. It sounds so real, you'll swear you hear sounds in places you don't even have speakers.

Digital Sound Field Processing is Yamaha's unique technology that electronically recreates some of the finest performance venues in the world. And Dolby Pro Logic is the technology responsible for placing sound around the room, matching the dialogue and sound effects with the action on the screen.

Together, these two technologies allow Yamaha to offer a complete range of home theatre components that outperform other comparatively priced products on the market.

Stop by your local Yamaha dealer for what could be a very eerie demonstration. Maybe we can't talk you into a system, but that doesn't mean we can't scare you into one.

For your local Yamaha Dealer telephone: (01923) 233166.



Yamaha Electronics (UK) Ltd, 200 Rickmansworth Road, Watford, Herts. WD1 7JS. Dolby Pro Logic is a registered trademark of Dolby Laboratories Licensing Corporation.

To: Yamaha Electronics (UK) Ltd. 200 Rickmansworth Road, Watford, Herts. WD1 7JS. Tel: (01923) 233166 Please send me full information on Yamaha Hi-Fi Components and A/V Range.

Please state where you saw this advertisement

Paul Miller's Oasis of Sanity

**Paul Miller** argues that there is no alternative to designing by measurement when it comes to loudspeakers – audiophiles shouldn't accept anything less than the best!

uring the compilation of last month's loudspeaker group test, it became impossible to ignore two distinct perspectives of the designers involved. Some were acutely aware of compromises made during the design of their loudspeakers, cautiously treading a line between optimum bass output, distortion, an even response and a decent overall sensitivity. Others had decided to fly in the face of engineering convention and concoct what amounted to a series of expensive but seriously flawed loudspeakers designed largely 'by ear'.

The phrase "we don't believe in measurements" was heard with greater regularity on this occasion than it would be, for example, during a large test of amplifiers or CD players. Frankly, and at the expense of ruffling a few feathers, this might just as easily have been translated as "we're designing on a wing and a prayer". All well and good if you're cobbling together a box on your kitchen table-top, but far from acceptable if you are expecting enthusiasts to shell out large wads of hard-earned cash. Anyone spending over £1,000 on a speaker has a right to expect a high standard of engineering.

What follows is a clear example of just what can go wrong, and regularly does, when hobbyist manufacturers design in the objective dark, with emphasis on achieving a good, clean bass delivery. It also provides an opportunity for me to elaborate on some of the more sophisticated loudspeaker measurement techniques regularly performed behind the scenes at *Hi-Fi Choice* — all thanks to the power of Virtual Instrument technology.



ere's an example (Fig.1) of a reflex-loaded loudspeaker designed by engineers who genuinely understand their craft. The plot combines three sets of data. A nearfield analysis of the speaker's output from 10Hz-1kHz via the port (black trace) and the bass driver (red trace) is superimposed atop its impedance curve (blue-shaded trace). The left-hand scale refers to the speaker's SPL (sound pressure level), the right-hand scale its impedance (in Ohms) and the horizontal scale is a logarithmic frequency axis.

At resonance, the output of the bass driver falls to zero (5) and the speaker's impedance (1) is largely determined by the voicecoil and cabinet losses, particularly air leaks around the driver. The 'real' voice-coil value appears at (2) (5.2 Ohms at 170Hz) after the system resonance (3) and before the inductance of the voice coil takes over (4). This is an ideally tuned system. The bass driver's output falls at 12dB/octave (theory suggests 24dB/octave for a reflex-loaded unit, but this rarely occurs in practice), reaching zero output (5) at a frequency that corresponds with the Helmholtz resonance of the port (6).

In this instance, all three traces are coinciding at 43Hz: the maximum output of the port (6), the minimum output of the bass driver (5), and the minima of impedance between the lower and upper system resonances (7) and (3) respectively. Also, note the smooth decay in output of the port through the upper bass (6a), allowing the bass unit (red trace) to take over unencumbered.

However, while this speaker's engineers are busily clapping each other on the back, I'll point out the slight mistermination between the cone and its surround, reflected in a small blip on the impedance trace (8) and corresponding glitch in its acoustic output (9).

And now (Fig.2) for something completely different: a thoroughly misaligned and mis-tuned speaker, ostensibly designed 'by ear'. In this instance, the bass driver's output falls to zero (10) at 40Hz but the Helmholtz resonance of



the port (11) is tuned to a low 14Hz. This anomaly is caused by the manufacturer's use of a very long port, which depresses the tuned frequency. A shorter port would encompass a lower mass of air and therefore bring the Helmholtz resonance back in line with the diminishing output of the bass driver.

The subjective effect of such a misalignment is to trade a uniformly extended bass response for transient distortion, a ruse attempted to give a small loudspeaker the impression of bass beyond its capacity. And yet, to all intents and purposes the tuned frequency (11) is so low that the speaker might as well do without the reflex port altogether and become a 'sealed box'. Meanwhile, the practical -6dB point in the 'average' room is unlikely to extend below 70Hz.

This speaker is also hampered by the reduced LF output of the port (12) caused by an improperly designed aperture, while at frequencies above this meagre 40Hz peak, a series of high-Q resonances (13-15) punch clear of the upper bass/lower midband. The fundamental resonance (13) at 250Hz is directlylinked to the length of the port while the succeeding peaks are its associated harmonics. All of which contrasts with the rapid upper bass roll-off of Speaker 1's port (6a), and contributes to its coloured performance.

And the moral of this tale? The next time you encounter manufacturer's literature with an anti-academic slant or a lack of objective evidence to back-up its claims, be very wary indeed. Designed by ear? Get wise! Do you have a subject matter for the Oasis? Please contact P.Miller via E-mail on 100576.3021@compuserve.com

The Krell Playback System KPS 20i sets a totally new standard in digital playback. The KPS 20i is the reference standard integrated transport/digital processor that beats the performance of separates. With balanced DACs, fully discrete output stages and a true high-end



partnered with just a Krell power amplifier

transport and convertor is the latest addition to the Playback System.

secure relationship between the loudspeaker and the amplifier's driving force, Sustained

amplifiers stand at the very edge of musical technology. Available in 600, 300 and 200-

watt outputs each power amplifier (FPB-600, FPB-300 and FPB-200) uses output

level of speed, current drive and musical accuracy, in other words the FPB amps are musical, fast and incredibly strong. Martin Colloms, reviewing the FPB-300 in Hi-Fi News (Dec 1996) said it 'must be regarded as a reference, regardless of considerations of price and power'. He concluded that Krell's zero feedback design carries with it 'greater neutrality and musicality' yet making no concessions to the 'traditional amplifier virtues of

The natural partner for the FPB range is the Krell KRC-HR High Resolution Remote Controlled Preamplifier which offers uncompromised audiophile sound

switching with absolute signal integrity. Power supply and gain stages are

with ease of operation. Digital logic circuits operate gold-contact relays for positive

refinements of classic Krell Class A complimentary circuits with extraordinary levels

Supporting Krell's outstanding AV Cinema System Controller (Dolby Pro-Logic, THX, AC-3) are Krell AV amplifiers — a range of 100 watt per channel multi-channel amplifiers (the KAV-500/3, /4 and /5), the 2, 3 and 4-channel amplifiers can be extended with an optional add-on channel (the KAV-500 Rail).

The KAV-300i an integrated two-channel 150 watt amplifier — Krell's first

integrated — was launched alongside the AV power amps and has been wildly

low-feedback design features full Class A dual mono output stage. Its supplied remote control give access to the basic functions of Krell CD players. In fact, a matching CD player is shortly to be launched. The KAV-300cd (hoped to retail at £3499) features a Teac CMK-4 drawer loading mechanism, HDCD, 2  $\times$  20 bit Burr-Browns DACs, with Class A direct coupled output stages feeding balanced and

received, cleaning up awards around the world. This fully discrete, wide-bandwidth,

A stand alone power amplifier the KAV-250a will be available April/May '97 offering 250 watt with at a projected price of £3290. A matching preamplifier, designated KAV-250p, will be available at the same time at the fantastic price of £1990. The

KAV 250p features one balanced input, three single ended inputs and one tape loop. One single ended input can be configured as a theatre throughput for use in

devices manufactured exclusively for Krell by Motorola. The result is an unprecedented

Plateau Bias II, direct coupled signal paths and full complementary circuits the FPB

new range of Full Power Balanced designs looks set to re-write history. First implemented in the KRC-3 preamp, current mode gain design has lead to the Full Power Balanced amplifiers. Unique in the audio industry, current mode gain is a faster, more linear method of amplification achieved by designing gain stages that operate in the current and not the voltage domain.With fully regulated outputs, pure Class A operation, true balanced configuration for a cleaner, more

blockbuster bass, huge power and adverse load driving muscle'.

of transparency and resolution.

single ended outputs.

balanced outputs are offered. To discover where Krell components can work for

> you-contact Absolute Sounds.

Absolute Sounds

58 Durham Road London SW20 0DE Tel 0181-947 5047 Fax 0181-879 7962

the KPS 20i/l can be

highest degree of musical integrity to CD playback. The Krell Playback System is also available in transport only (KPS 20t) and full remote control integrated transport/processor versions (KPS 20i/I). Requiring no preamplifier,

for the ultimate in high-end performance. The KPS 30i high-quality integrated CD Krell amplifiers are known the world over as the very finest solid-state designs. The prize possessions



AAHEA Golden Note Awards '96 Krell Reference 64 — Best digital converter design Krell KPS 20il — Best digital source design



Krell KAV-300i — Winner EISA **European High-End** Audio '96-'97



FPB 600

Krell KAV-300i — Best amplifier under £5000 Hi-Fi News & Record Review Awards

Email 73064,1710@compuserve.com

surround sound applications. Single ended and

# Personal

Paul Messenger laments the British obsession with miniature loudspeakers. Where are the dynamics?



ssembling the candidates for a major speaker group test, like the one we printed last month, is a fraught business. It's difficult to reach quorum on schedule, and a last minute rush left our 'first reserve', the Totem Model One Signature, watching from the sidelines.

I'd have like to have included it for several reasons. I loved the original, and it would have been good to have had a high-quality miniature to do battle against the floorstanders. Being a fraction of the size of most equal-priced competition, the Totem brings an intriguing mixture of pluses and minuses, and I reckoned any improvement on the doughty Model One stood a very good chance of doing well.

With hindsight, however, I'm not so sure. Having consigned the last of the review group to the carriers, I brought in and connected the Totem MOSs with some anticipation, only to end up mildly disappointed. Several weeks in the company of 15 larger models had conditioned me to expect a 'bigger' sound than these Totems are able to deliver.

Not that the Totems lack bass. They're no bottom-octave excavators, true, but the Dynaudio main drivers punch much more than size or mass implies. But it wasn't so much the slight lack of bass weight that worried me; rather a more general shortage of expressiveness. The dynamic range as such is good, so you can still hear what's going on, but the dynamics themselves showed a lack of get-up-and-go compared to larger speakers, and in this respect they sounded their size.

In nearly every other respect the new Totems are close to impeccable (which they should be to justify a hefty  $\pounds 1,250$  price-tag) and offer a definite, if subtle, improvement over their predecessors. The bass is clearer and less congested than before, and quite astonishingly powerful from one so small, while the balance is quite superb - clear and open without succumbing to harshness, thanks to improved treble smoothness.

The usual small-speaker virtues are there, like minimal cabinet coloration, stunning stereo space and focus and a freedom from boxiness. And it's definitely my favourite amongst the miniatures I've had a chance to try. But I am coming to the conclusion that miniatures per se are not capable of realistic



Totem Model 2 (right) Miniature loudspeakers may look cute, but can they cut the sound-quality mustard?

> dynamics, and suspect that the small size and/or low sensitivity of the main driver has much to do with it.

I could rattle off numerous examples to support this thesis. From last month's group test, the Neat Petite II/Gravitas combo, which relies on the Petite miniature to do most of the work, also sounded dynamically challenged, whereas the three-way Origin Live Conqueror was far more convincing in this respect. That the Conqueror has comfortably higher sensitivity and one of the biggest bass drivers in the group might well be significant - though the fact that it also has the smallest midrange driver shows the danger of trying to make generalisations.

#### **Big brother is watching...**

A more meaningful point of comparison for the Totem is KEF's exceedingly pretty RDM Two. Bigger brother of the equally cute RDM One (HFC March 1997), the Two's larger and more generously ported enclosure goes a long way towards countering my main criticism that the One has far too little bass.

Given a price differential of nearly 2:1, it's no surprise that the KEF doesn't really match the Totem for overall sound quality. The miniature wins out on bass drive, mid openness and delicacy, and top-end sweetness.

But the KEF does have the more realistic and entertaining dynamics, which may well be a function of its larger driver cone area (around 118mm diameter against 90mm, which translates into an area differential of about 1.7:1). The box itself is about twice the volume of the Totem, and the port has a much larger diameter, all of which add up to a significant increase in midband sensitivity.

It's almost impossible to separate driver size from sensitivity because the two are usually closely linked (at least as far as conventional dynamic drive units are concerned; horns and panels operate under rather different rules). And there's the further complication that the higher sensitivity speaker is allowing the driving amplifier to work less hard to achieve a similar result.

Whatever the mix of influences at work, I'm now firmly convinced that 'miniature' speakers have very real dynamic limitations, which are probably ultimately defined by one or other of the Laws of Physics.

The fact that they're the most popular loudspeaker solution for the average British hi-fi buyer is

easy to explain. They're cheap; they look good and take up very little space; and they do a good job of delivering a decent balance in a typical British lounge. But at the end of the day they leave us short-changed, by selling short the dynamic dimension of the musical experience.

Maybe that doesn't matter to a lot of people. Perhaps they are happy to make the sacrifice for the sake of domestic harmony. Or maybe they're not aware of the advantages of size. (The fondness for miniature speakers is essentially a British phenomenon, so as usual the Continentals are out of step.)

To check whether it matters to you just pop into your local hi-fi dealer and ask to compare two of Britain's most popular speakers B&W's £200 DM601 and £300 DM602, as alike as two peas save the latter is about 50 per cent larger. The smaller 601 is actually the smoother, and there's little to choose between them in the bass, but the larger 602 is by far the more communicative and entertaining, to this pair of ears at least. KEF 🕿 (01622) 672261 Totem 🕿 (01535) 632700



Stonehill, Huntingdon, PE18 6ED, England. Telephone: +44 (0) 1480-431577 Fax: +44 (0) 1480-432777 E mail: info@roksan.co.uk

# Write on!

#### TELL US YOUR VIEWS ON HI-FI AND MUSIC. THE BEST LETTER EVERY MONTH WINS AN M-S POLO-SHIRT!

#### LETTER OF THE MONTH

#### A twist in the fabric of space...

I've built a system based around a Musical Fidelity A1 Final Edition, with Castle Durham 900 Speakers and Musical Fidelity E60/Cambridge Audio DACMagic 2.

Despite numerous tweaks I had never managed to dispel a glare in the treble. Originally I bi-wired the speakers with Kelvin K19 cable, but ended up going back to my old favourite, singlewired Ixos Hardcore 6, as bi-wiring seemed to make the sound both brash and muddy.

Recently I rewired with a single length of K19. Result: no brashness, no sharp edges to notes or muddy sound. Nothing for it but new cable. My wife (a hi-fi nut and Choice subscriber her-

self) suggested I should bi-wire using Ixos for the treble and K19 for the bass. Great idea, I tried this, and got a much better sound, but the bass and vocals were still slightly



muddy compared with Ixos alone.

Swapping the cables between bass and treble led to a totally unbalanced sound. But then I cross-wired the terminals so that the Ixos fed one terminal and K19 the other on the bass and treble (see diagram). Result: total musical bliss - better, clearer bass and midrange, and crystal-clear treble with no glare to muddle it.

Is there any technical reason to explain my results? And is it worth rewiring so that both negative terminals are fed by the same type of cable? At the moment the wire is just over-crossed. I have heard that the signal return benefits from thicker cable would that be the positive terminal on the speaker? Or is this only possible if there are banana plugs big enough to take two thicknesses of K19?

Nick Austin, St. Andrews, Fife

#### Paul Miller, Technical Editor, replies:

In reverse order: the 'signal return' is marked by the black or -ve loudspeaker terminal and, no, will not necessarily benefit from a thicker length of cabling. With regard to the novel amp/speaker wiring; although this poses no threat to the system, it does fundamentally alter the geometry, and therefore the capacitance (which is reduced) and inductance (which is increased) of the respective bass and treble cable runs. Any influence of Lenz's Law, brought about by the flow of current, will also be reduced as the bass path is now split between two separate lengths of cable. So the system will, likely as not, sound different, and if you perceive the difference as an improvement, stick with it!

#### **Bedtime psychedelia**

I used to enjoy reading an article or two in bed before settling down to sleep, but do you know how difficult it is to read print in semi-psychedelic pages such as eight to 13 and 28-33 (HFC May 1997) by the light of a bedside lamp? This secondary bed-time pleasure was no problem before Choice started appearing like this, and the primary bed-time pleasure, given the old truism "the better the light the better the loving" doesn't exactly require an arc lamp. Pity really...

L G Neville, Tewkesbury, Glos.

Stan Vincent replies... What next? "Something for the weekend" as a cover-mount?

#### A chest of flaws

Your competitions now have questions about our employment. Do employed people have a better chance of winning?

Your reader survey of a few months ago asked extremely personal questions but did not give the option of refusing to answer any question, nor did it state that the given information would be held in strictest confidence

The Write On page has shrunk to just four letters.

In your Price Guide and Directory there is no indication of which speakers are biwirable; and why not include the new product prices with the reviewed product listing?

The competition forms, when cut out, remove articles on the reverse page which I would keep for reference.

But the Reader Classified page is a valuable source of bargains, Jimmy Hughes's Hints & Tips are verv useful, Help! is invaluable and Update informative.

Phew! I've been waiting a long time to get that lot off my chest.

P Cameron, Isle of Skye, Scottish Highlands

#### On the slab

I'm 16 years of age and eager to try any cheap upgrades I can. Roger Hooton's suggestion (HFC February 1997) of placing speakers on £1.00 paving slabs was simply irresistible. So off I trekked to the local DIY store, with slabs I returned, and now my energetic Mission 733s are almost breath-taking. The copious lashings of low frequencies have tightened and yield more punch and definition, allowing treble to soar amazingly. Truly the best £2.00 I have ever spent. S Ritchie, E. Sussex

**OUR ADDRESS** The Editor-in-Chief, Hi-Fi Choice, 19 Bolsover Street, LONDON W1P 7HJ. f 0171-917 5512. e 100433.1130@compuserve.com. correspondence preferred! All letters must nclude address and daytime 'phone numbers.

#### Win garb!

The best letter every month wins a stylish polo-shirt from Mordaunt-Short, purveyors of fine loudspeakers. Available in black with a discreet sleeve logo. One 'large' size fits all.



http://www.mordaunt-short.com

Mordaunt Short



ony's £600 SDP-EP9ES looks like just another AV processor, and could easily be overlooked as such by the hi-fi fraternity. But closer inspection reveals a component that could change the face of hi-fi. In fact its only real stumbling block is that it's pitched so far into the future as to have limited compatibility with today's systems.

ENHANCED SURROUND

SONY

Fortunately, all this technology doesn't mean poor ergonomics. At the sharp end, there is little more than master volume, 10 push buttons, set-up button and two digital control knobs. At the back are five digital inputs (one AC-3 RF input, one coaxial and three Toslink optical connections), a single Toslink digital output for recording, and 5.1 channel inputs and outputs to account for every Dolby Digital eventuality.

And there's the problem: there are no regular analogue inputs whatsoever, which makes it almost completely unusable with all those tuners, cassette decks, turntables and CD players without digital outputs. So a lot of existing hi-fi systems cannot incorporate this preamplifier at all — and that hardly constitutes the future of hi-fi, does it? At present, no. But, with the continuing digitisation of our musical future, the SDP-EP9ES's worth is self-evident. With CD already well established, MiniDisc and DVD (Digital Versatile Disc) gaining ground as viable formats, and digital radio, satellite and broadcasting waiting in the wings, a completely digital system could be a practical domestic proposition by the year 2000. Such a system could use a multiplicity of digital to analogue converters where only one is necessary.

Sony has been talking about 'convergence' a lot recently. Convergence is about linking hi-fi, home cinema, computers and anything related to home entertainment with a single control centre. The SDP-EP9ES is a superb example of convergence in action: designed as an A/V processor, it also seamlessly blends the digital sources of hi-fi and home cinema.

High-end, high-tech companies like Meridian have already developed all-digital systems, converting back to analogue in the body of the loudspeaker itself. But these systems are by their nature expensive, and as there is no on-board D/A conversion — difficult to use with regular power amplifiers. The Sony SDP-EP9ES, by contrast, represents a stunning bargain.

The A/V part of the SDP-EP9ES is powerful and among the most up to date available. It sports all the latest Dolby Digital and Dolby Pro-Logic surround processors. It also utilises digital-domain simulations of the sound fields found in Sony's Hollywood movie mixing theatres — the studios which are used to record the soundtracks for a wide variety of films.

It is also possible to alter the time delay of the rear speakers to make the surround sound appear to come from the rear or side of the viewing seat. Plus home cinema modes, all of which are featured in the review that our sister magazine *Home Entertainment* is running this month.

But it is the audio performance that caught our attention on *Hi-Fi Choice*. Being an all-digital system, with more or less the DAC section from the Sony CD player range, the SDP-EP9ES has all the smoothness and detail of these players. It also bestows a even-handedness and sense of consistency to all digital inputs. Fortunately, because of



the level of detail, this consistency does not mean bland mediocrity.

Connect it to a decent CD transport and you get a terrific soundstage from this processor. The soundstage stands wide of the loudspeakers but is not the ultimate in terms of depth or height. The only sonic quibble is with the bass, where there is a slight lack of solidity. It's not that the sound is bass light as such, it's just that you get slightly ethereal drums and bass guitars. That aside, it is the transparency of the SDP-EP9ES that wins the listener over: it revels in detail but stops short of overkill.

All of this is with the SDP-EP9ES used in straight stereo mode. The DSP modes without Dolby all affect the soundstage in a subtle manner that befits a purist product like this. Some hairshirt hi-fi types still baulk at tampering with the signal, but some of the DSP modes are really rather good, especially the third soundstage simulation, which has been used for many well-known classical recordings, Granted, most recordings do not need such digital additions, but those that do can benefit from its subtle touch in a way that few other DSP units have achieved. The more cinematic elements of the processor are equally adept, but we'll leave their description to Home Entertainment.

Of course, shoe-horning so much technology into such a competitively-priced product means that the performance of the DAC is about in line with last season's £250 Sony CD players. If you are a potential Wadia customer, this may be a bit of a come-down, but for middle-market players there may be considerable improvement to be had, especially in single-source pre/power systems that can now do without the preamplifier.

This is a 'twirly' product from Sony. It has arrived a little too early to reap the rewards it so obviously deserves; while as a hi-fi or AV preamplifier, it is truly state-of-the-art, it can only be used with a fraction of today's products. If you buy one now though, you could 'lay it down' for a few years like a fine wine. When audio has matured into a full-bodied digital multimedia system, the SDP-EP9ES will be there waiting for you as an ideal audio digestif. 45 ▲ Sony @ (0181) 784 1144 LAB REPORT: SONY SDP-EP9ES

Ithough the SDP-EP9ES has facilities to service the most advanced home cinema system, here at *Hi-Fi Choice* we are more concerned with its potential as a digital preamp in a high-end *two-channel* audio system. Stripped to this most basic of its various guises, the SDP-EP9ES offers both coaxial and optical inputs to handle the digital output(s) of a CD, MD or DAT player.

The front L/R analogue outputs would then be connected to your choice of power amp, with Sony's sophisticated digital attenuator acting as a volume control for the system.

Connected directly to a power amplifier, I seriously doubt whether many users will find the need to advance the volume setting beyond –16dB, this being equal to the 2V peak output typical of today's CD players. The processor's maximum output is an outrageous 10.89V, though Sony's internal DSP is clipped at this point, even in standard stereo mode. With a OdB (peak level) digital input, the processor's digital volume control cannot realistically be advanced beyond –3dB or 9.419V, which, quite frankly, is more than sufficient for any foreseeable application.

than, say, -20dB or –30dB, the processor offers a performance comparable with Sony's budget CD players. Distortion disappears below the noise (1) at between 0.0025-0.018 per cent (re. –30dB digital signal), the response is ruler flat and low-





level linearity holds true to within -0.0/+2.7dB. Nevertheless, in common with Sony's MD recorders, this processor appears to use a sample rate converter, as evidenced by 'leaky' (though inaudible) tones at 48kHz and 96kHz (2), despite the fact that the incoming CD-derived signal is coded at 44.1kHz....

The processor only really achieves a true 16-bit performance between 0dB and -10dB volume settings where the overall S/N ratio varies between 99.4dB and 91.5dB respectively. Nevertheless even with a S/N >87dB at volume settings >-30dB, the 'dithering' effect of a little extra noise could, in practice, be of subjective benefit.

rguably, the biggest departure of the SDP-EP9ES from the performance of a traditional outboard DAC is revealed in its jitter spectrum. Here we see very little evidence of gritty-sounding high-rate jitter (3) but,

instead, a clump of very low-rate, almost noise-like jitter (4). Close analysis reveals this to have a repetition rate around 11Hz and would, strictly speaking, amount to a huge total of some 65,000psec – about 300x higher than that suffered by Sony's CD players. In practice, this type of jitter will tend to affect the focus of stereo images (which will seem larger and 'softer') rather than contribute to a change in the music's balance. As a result, the SDP-EP9ES may 'get away with it' though improvements to its central DSP will inevitably reap further reward. *PM* 



#### Authorised Cyrus Centres

Midlands, North & Scotland Aberdeen Holburn Hi Fi 01224 585713 Alderley Edge Aston Audio 01625 582704 Barrow Sevenoaks Hi Fi 01229 838757 Belfast Lvric Hi Fi 01232 381296 Blackburn Romers 01254 887799 **Bury St Edmunds** Sevenoaks Hi Fi 01229 838757 Cambridge The Audiofile 01223 68305 University Audio 01223 354237 Carlisle Practical Hi Fi 01228 44792 Coventry Frank Harvey Hi Fi 01203 525200 Darlington Hi Fi Experience 01325 481418 Edgbaston Music Matters 0121 429 2811 Edinburah Hi Fi Corner 0131 2201535 Falkirk Hi Fi Corner 01324 629011 Gateshead Lintone Audio 0191 4774167 Metro Ctr. Lintone Audio 0191 4600999 Glasgow Glasgow Audio 0141 3324707 Hi Fi Corner 0141 2482840 Guildford PJ Hi Fi 01483 504801 Halifax Halifax Hi Fi 01422 366832 Huddersfield Huddersfield Hi Fi 01484 544668 **Kings Lynn** Martins Hi Fi 01553 761683 Kilmarnock Laser Audio 01563 540292 Leeds Image Hi Fi 0113 2789374 Leicester Leicester Hi Fi 0116 2539753 Manchester The Hi Fi Room 0161 8351366 Norwich Martins Hi Fi 01603 627010 Nottingham Nottingham Hi Fi 0115 9786919 Peterborough The Hi Fi Company 01733 341755 Preston Audio Excellence 01772 253057 Rotherham Moorgate Acoustics 01709 370666 Sheffield Moorgate Acoustics 0114 2756048 Shrewsbury Creative Audio 01743 241924 Solihull Music Matters 0121 7420254 Stourbridge Music Matters 01384 444184 Stratford Stratford Hi Fi 01789 414533 Wakefield Image Hi Fi 01924 200272 Warrington Practical Hi Fi 01925 632179 Worcester Sevenoaks Hi Fi 01905 612929 York Vickers Hi Fi 01904 629659

Mission Group Huntingdon, PE18 6ED England Tel: +44 (0)1480 451777 Fax:+44 (0)1480 432777 email: info@mission-cyrus.com http://www.mission-cyrus.com



Alan Sircom discovers Teac's new P-30 has charms to soothe the most savage DACs.





**STATEMENTS** 

The P-30 sports phono co-axial, XLR-balanced and ST-optical cable sockets.

#### **On its best behaviour**

I tried out the P-30 with a selection of digital-to-analogue converters (DACs) old and new, good and bad. Not once did it trip up, even with the fussiest DAC. Inevitably some pairings were more fortuitous than others: the Audio Note DAC-1 valve converter was

a notable one. From experience I know this DAC is timbrally and temporally spot on when warmed up, but often lacks dynamics and bass. So often has this been the case that until now I've assumed it was the innate character of the DAC-1. But from the P-30/DAC-1 combo there were dynamics aplenty and bass to keep any head-banger happy. Is it just a coin-

cidence that Audio Note's own transports are based on Teac's VRDS mechanism?

So often is a transport's performance dogged by DAC quality, it's easy to become blasé about the transport's rôle. The P-30 forces one to reconsider such presumptions. While it can't improve a duff DAC, it will push such a component to limits only surpassable with the likes of a Mark Levinson transport in tow. The P-30 has almost no intrinsic character to colour the sound.

Only in the fabled 'boogie factor' stakes could Teac's P-30 be marked down. This might be ascribed to its even-handedness, but it does seem to lack the raw, heads-down energy that the very best players can do well.

To play Devil's Advocate, I'd venture that foot-tapping timing is only available with single-box players or combinations that are in some way designed for each other. Maybe there's a DAC out there somewhere that will lead even the P-30 to surpass itself. *Teac* **2** (01923) 819630

o Japanese CD manufacturers can match Teac's reputation for building epically-proportioned transport mechanisms. The new P-30, costing £2,499.95, serves only to fuel such a reputation.

Built to near-military standards, the P-30 is engineered to perfection from top to bottom. It passes the beloved high-mass-audio tyre-kicking test with flying colours: weighing in at over 14 kilos, the P-30 is one of the heaviest CD transports around.

One particularly clever feature is the package of feet supplied with the P-30. There are three screw-in cones that mate with three brass cups, so that the unit can benefit from vibration-reduction without damaging the surface it's placed upon. The feet may be screwed in and out to make light work of levelling the player, or removed completely to fulfil the requirements of exotic equipment support systems.

Behind the chunky, dark-champagne façade lurks a centre-mounted CD mechanism, which is the very latest heavy-duty Vibration-free Rigid Disc-clamping System (VRDS) transport designed by Teac itself. In purely physical terms, the mechanism embodies the overkill, flagship standards that one would expect to find in a tank. Notwithstanding its machismo, Teac's VRDS transport is the choice of many top hi-fi manufacturers around the world. The smart money says it's among the finest-sounding mechanisms you can buy.

The front panel supports only the bare minimum of controls, but the P-30 is packed to the gills with features. The majority of track-handling, programming and editing functions require the button-stuffed remote control, so make sure you don't lose it down the back of the sofa!

Turn to the rear panel to observe a display of the P-30's true colours. Many transports are merely CD players without converters, so a simple 75 Ohm co-axial socket is all you'll find at the rear. On the Teac there are phono co-axial, XLR-balanced and SToptical cable sockets (the latter in place of the more common but inferior Toslink cable). Even the 75 Ohm digital cable packaged with the unit is a cut above the usual anonymous flex: van den Hul D 102 mkIII.

Remarkably the P-30 is one of those rare high-end components that does not need to warm up in order to give of its best. During hours of use in my system, its sonic character did not seem to change much at all.

# Help

#### Alan Sircom is here to answer your hi-fi queries this month. Send your hi-fi queries to Help!' at Hi-Fi Choice, 19 Bolsover Street, London W1P 7HJ • fax on 0171-917 5512 • e-mail on 100433.1130@compuserve.com

# Query of the month

#### Levelling the land

I have been struggling to find a replacement for a rather dated Marantz SD-45II cassette deck. I'm no recording expert, but I am aware of two fairly important facts. First, most Type I and II tapes can be pushed to around 2 or 3dB, while Type IV can be taken to the dizzy heights of 5dB before distortion sets in. Secondly, an increase of 3dB doubles the loudness of a recording.

Trouble is, how am I supposed to acquire optimum recordings from blank tape when the decks in my price range — such as the Yamaha KX-580 and Technics RS-BX601 — continue to use VU meters with 2dB steps and small record dials that make for lousy adjustment? Do I have a point or am I just far too fussy? NA Hilleard, Peterborough

I'm afraid your discerning nature has overstretched your budget. While tape decks of the type you mention do great things for the budget, something has to give. If you make the jump up to the £230 price bracket (roughly the price your SD-45II would be if it were currently available), decks like the superb Technics RS-AZ6 have all the control and display you need, plus the bonus of Technics' own Amorphous-Z playback head.





My system comprises Rega Planar 3, Linn K5 cartridge, Arcam Alpha 5+ CD, Naim Nait 2 amplifier and Linn Kan I speakers. My room is 4m x 3m.

I like the system but I'm losing octaves at the lower end. Should I buy a pair of Naim Intro speakers to replace the Kans or add a subwoofer, like the REL Strata? Or, should I add a NAP 140 to my Nait?

NS Thorpe, Birmingham

If you like the sound of the Kans, there is precious little today that can match them. They have a very odd tonal balance, however, geared towards optimising the LP12 of the time. If they are on original Kan I stands and you can't get hold of a pair of the later Kan II stands, go for the Intros. If you have the later stands, adding a REL Strata or similar may well give you the oomph you need to get the best from the system.



#### Keilidh konundrum

I wish to upgrade my integrated amplifier with a preamp and power amplifier combination. However, I have difficulties in creating a shortlist that satisfies the minimum requirements of my Linn Keilidh LS300 speakers: 80W per channel into four Ohms.

I listen to classical, soul and jazz on my Meridian 206B and I am planning to upgrade in 1999.

I will be pleased to receive your recommendation to drive my CD-only system, within a £1,400 budget. D Best, Weymouth, Dorset

The specifications quoted in speaker brochures and manuals can be rather misleading. The requirements of the Keilidh should be taken as a benchmark, not an absolute. If you were to partner the Keilidh with a three-Watt or a kiloWatt amplifier you might cause the speaker distress, but otherwise how it performs musically is more important than any on-paper specs.

Actually, there are a number of amplifier combinations that suit the Keilidh speakers down to the ground, without busting your budget. Although technically not a pre/power combination, the Arcam Alpha 9/9P integrated/power amp combo is a perfect match for the kit you currently own. The

> Quad 77 pre/power combination is also ideally suited. Other products that may not have garnered a Swing Tag but produce great synergistic results with the Keilidh are the Naim NAC92R/NAP90 and Talk Electronics Hurricane 2L/Tornado 2.

Finally, if you have not already done so, fit the Keilidh bases and use good speaker cables, such as Cable Talk 3.1. This will improve the sound of the speaker no end.



#### The drab Lab

I have the following set of Audiolabs: two 8000Ms, an 8000C and an 8000DAC. I've tried them with many loudspeakers, such as the Heybrook Sextet, ProAc Response 2, Monitor Audio Studio 10, KEF 103/5. Unfortunately, whatever I try, the sound is very dry, lacks life and sounds shut-in. I am not sure if it is because I use a Micromega Stage 1 CD player as a transport or because I have yet to find compatible speakers.

I am very upset because I've just bought another cheap system comprising Sony CDP-561E CD player, NAD 304 amplifier and KEF Coda 7 speakers and I found that the sound it produces is warmer and more relaxing than the more expensive system.

Could you please recommend a pair of speakers or even a new CD player (I plan to sell the 8000DAC)? Otherwise, should I sell the whole lot and buy a new system? *Tull Traisorat, via the Internet* 

While the Audiolab set-up is very well respected, even its closest ally will admit that its fundamentally ascerbic character can sound rather too lifeless to some ears and can also sound too shut-in with the wrong speakers. Consequently, I'd suggest scrapping the whole lot and starting again, this time a little more carefully.

Get yourself to your nearest specialist dealer and book a demonstration with a handful of your own CDs. The dealers should play you one or more complete systems in your price range to find one that suits you. When you find that special system, buy it and stick with that dealer.

As you seek warmth and relaxation from your hi-fi, you may want to try something like the Pioneer PD-S505 Precision CD player, A-300R Precision amplifier and Musical Technology Harrier or even the more expensive Castle Harlech loudspeakers, hooked to the amp with runs of Goertz speaker cable.

help to pro-

dia

#### Time for a change?

C.SHE

My system comprises a Marantz CD-63SE (with Chord Cobra interconnect), Yamaha KX-580 tape deck and TX-L400 tuner, Naim Nait 3 integrated amplifier and a pair of KEF 102 loudspeakers (with the KUBE equaliser disconnected) on Linn Kan II stands using old QED cables. I listen to a lot of jazz, folk and Ladysmith Back Mambazo stuff.

My tuner is on the way out, but I can't think of a better one for the price. I plan to get an old Nakamichi 582 cassette deck and hopefully a Rega Planet CD, which I have been informed is in the same league as the Naim CDS. I also need more powerful amplification, and the Naim NAC 92/NAP 90 pre/power combo are my next possible step. I do not want to neglect the speaker section, so I will invest in the new Naim Intro loudspeakers and NAC A5 cable. W Chakawata

Carmarthen, Wales

Starting from the top, only change the tuner for a Denon TU-260L or similar if it is near the end of its life; a well-sorted system and decent aerial may make you reconsider. Secondly, I love the old Nak 582 too, even though it is now old enough to vote. If you are not worried about using a deck of that vintage — go for it.

The Planet is in the same league as the CDS, eh? This is like saying a Mini is in the same league as a Ferrari because they both have four wheels. The Planet is not far off the Naim CD3, though, a noble feat as it is half the cost.

My recommendation is simply to audition the Planet and CD3 side by side in a Nait 3/Intro combination, then try the same test with the Nait 3 and 92/90 amps to see if you need that extra lift. But get that NAC A5 in there, pronto!

#### Sweet sixteen

My system consists of a Rotel RCD-965BX CD player, Naim 42/11 0 pre/power amplification and 16-year old Mission 700 loudspeakers on Linn Index stands, with Naim speaker cable. I listen to Björk, Tindersticks and Dubstar etc in a 4m square room.

The sound is harsh and congested, especially with complex recordings, and the bass is rather soft. The speakers are old budget models and may not be capable of partnering the rest of the system. Could you recommend speakers which would solve the problem and do the rest of the system justice? My budget is around £350-£600.

Also, would a D/A converter for my Rotel CD player help? Derek Gabbitas, South Yorks



This floorstanding speaker suits the Naim 42/110 pre/power amp combo.

floorstanding loudspeakers like the Rega Ela II, Musical Technology Harrier, Royd Doublet or stand-mounted speakers like B&W's CDM1 or Professional Monitor Company's TB1 would suit your system perfectly. In truth, however, your biggest problem is that the room is square, which causes strange standing-wave problems and really needs to be decked out in soft furnishings to help absorb excess bass.

Given your amplification,

On the digital side, I'd consider holding back on the DAC upgrade. The '965 was a superb integrated CD of its day, but improving it will take mucho cash. Why not save the money in the short term and replace the Rotel with a more up-to-date integrated player that will suit the Naim sound, such as the Orelle CD100e or the Naim CD3?



#### 🕶 Grain, grain go away

My current system comprises an Arcam Alpha 6 CD player, Audiolab 8000A amplifier and a pair of Castle Severns. Chord Company Siren interconnect cables and a Musical Fidelity X10-D enhancer separate CD and amplifier, and the amp and speakers are separated by Cable Talk 3 cables.

The system has a lush and elegant presentation but there is room for improvement. The bass could be tighter, but the most pressing problem is an occasional gritty, grainy treble that can make vocals sound electronic and raspy.

To address this I have considered adding Audiolab's 8000P but have noticed an ex-dem or second-hand Arcam Delta 250 CD transport and BB50 DAC — or even Musical Fidelity's X-DAC with the same transport.

The problem with this option is that auditioning potential purchases will be impossible. Help!

A Moses, Durham

As the problem is only an occasional one, I wonder if it is likely to be resolved with any of the equipment you mention. Replacing the Alpha 6 front-end with the Delta 250/BB50 combination will improve the spatial and tonal qualities of the system and may well alleviate the problem. As may the Delta 250/X-DAC. But I think that the problem is not one that can be fixed quickly and if the gritty treble is due to a handful of bright CDs, that is throwing good money after bad.

Each component in your system is even and warm in tone, but likewise, each has a touch of brightness about it. This could combine to make too gritty a sound. Otherwise, you'll have to start again, mixing the speakers with something like the Pioneer Precision CD and amplifier, and connecting up with an inherently neutral interconnect like Moth Ley Line Black, and Goertz speaker cable.

#### **Searching high and low**

A month ago, I upgraded my system with an Arcam Alpha 7 CD player, and Alpha 8/8P integrated/power amps bi-amping Acoustic Energy AE109 loudspeakers. I have Cable Talk 3.1 bi-wire cable and Monster interconnects. Components are supported on Sorbothane feet.

Although the clarity of the sound is a great improvement on my old system, I find the frequency extremes lacking. I confirmed this with a test CD where frequencies above 16kHz and below 50Hz were suppressed. I listen to all types of classical music including opera and organ where I am completely aware of the lack of deep bass (no matter how I position the speakers).

Do you have any suggestions about how to improve extreme frequency response.

AF Turner, Bexley, Kent

Low frequencies are easy to improve. Simply add a REL Q100e subwoofer and set it to blend in with the speakers. That will dig down at least to 40Hz. Any deeper takes bigger, better and more expensive subwoofers and very large rooms.

To get frequencies above 16kHz is slightly harder. Either arrange for a preteenage boy to donate his ears, or find a time machine, go back to puberty and have a sex change. Unfortunately, by the time you reach your early 20s, the 18+kHz region is little more than a memory for most men — and it's downhill all the way from there, I'm afraid!



#### Linn line-up

I have a £2,000 budget to spend on a tonearm and cartridge for my LP12 with Lingo, Cirkus and Trampolin. Do I follow the obvious path of Ekos arm and Klyde cartridge, or Naim Aro arm and Lyra Lydian cartridge, or do I go for the Wilson benesch Act Two arm with Matrix cartridge?

The rest of my system is an Linn Akito arm, K18II cartridge, Intek amplifier and Keilidh speakers. I know my amplifier is the weak link, but I want to get my LP12 up to full spec before addressing other areas.

Harry Passley, E London

I'm a Naim Aro user, but I'm honour bound to recommend the Linn Ekos arm and Klyde cartridge combo, over the other two. Why? Simply because it will cause less long-term disruption to your system.

Here's why. Dismissing the Wilson benesch arm is easy, because you would have to get a custom arm-board made, and I am not wholly sure that the arm will fit at all; the Rega RB 300, for example, fouls the cross bracing of the plinth and can't be fitted into a LP12 deck without surgery to the wood itself. The Naim Aro is the more logical unipivot here, but it's distinctive character is less suited to an all-Linn system. You'll begin to talk about Armageddon power supplies, Prefix phono stages and Hi-Cap power supplies and before you know where you are only a handful of parts come from Glasgow. Not that this is a bad thing, but if you have already chosen Linn's way of doing things, why break up a beautiful relationship?



#### **B**ass desires

"If you seek a system that digs deep into dub Reggae, look elsewhere," said Alan Sircom, referring to the Meridian/Arcam/ Triangle combination in issue 164's Instant System.

Could Alan put together a system of that very nature for people like myself who crave really deep bass? My personal budget is £1,500. Can you also recommend two or three examples of

large, high-quality 'satellite' speakers for use with an active subwoofer of

the REL variety? Are satellites best pinned to the wall on brackets, or can they be standmounts or even floorstanders? *D Pepper, Brighton* 

To get true deep and accurate bass is hard to achieve at any price: at  $\pounds$ 1,500 it is almost impossible. But here goes — try a Marantz CD-67SE hooked up to a Talk Electronics Storm 1 amplifier and a pair of Tannoy 635 loudspeakers. Ally this system to the new REL Q100e subwoofer and you have a system that can really grunt if required.

Most satellite speakers are designed to be used with a specific subwoofer. They are also considerably lacking in bass: satellites can be used almost anywhere. A few are worthy of note, however, and the most exciting at the moment is the Boston Micro 90 system. While one of the best satellite/subwoofer systems around it's no match for the sound quality the Tannoy/REL system could produce, no matter where the satellites are positioned.

#### **Does digital do it better?**

My current system is as follows: Micromega Drive 2 and DAC, Project 6.1 turntable with a Nagaoka Boron TP12 cartridge and Audio Alchemy VAC in the box, plus a Kenwood KX-7050S cassette deck. These are all connected to a Restek Challenger integrated amplifier and a pair of UKD Opera Callas Gold speaker cables biwired with Cable Talk 3 speaker cable. My room is 4.5m x 3.5m and heavily furnished with the speakers up against the wall on shelves.

I am happy with the sound from tape and turntable, but my problem lies with the CD player — I don't get a sound that justifies the cost. The turntable and tape deck sound almost as good as the CD combo. Can you give me some advice on what is wrong with the system, as well as some comments about the system as a whole? Nazif, Bracknell, Berks

In many respects, that you like the sound from both your analogue sources says a lot about your tastes in this matter. While CD rules the roost when it comes to sources at the moment, there are many who prefer the sound of analogue — be it records or tapes. Such folks disregard background noise and bask in the musicality inherent to these non-digital systems. Fortunately, however, you have one of the least-digital-sounding CD combos around. I believe that careful use of cables and isolation platforms (I'd opt for the expensive vdH The First digital and analogue interconnects and a pair of Base baseboards) will give your CD the extra lift it requires.

In terms of the rest of your system, one obvious point is clear — get those speakers on stands. If it is at all possible, putting the speakers on heavy, highquality stands (like Target's R1s) will transform the sound of your system, both on analogue and digital material.

#### **Bi-Bi sound quality**

My system comprises a Pioneer PD-S602 CD player, Arcam Delta 290 amp, Leak Sandwich loudspeakers (over 20 years old) bi-wired with Monster XP and Monster Interlink 300 interconnects and XP-HP speaker cables. I sometimes listen with my AKG 270 headphones.

I am using another integrated amp to bi-amp the tweeters (with the 290 driving the bass units). After I bought the 290, I found CD was not so satisfying. The treble lacks air and bass is not so rounded. I want to upgrade it without exceeding the 290's capabilities.

Recently I have seen that Pioneer's models are the basis of many modifications. Do you think I should reclock my CD (perhaps changing its PSU as well) or add a £300 D/A converter?

I have auditioned the CD-63 KI Sig, Arcam 6 and Pioneer 904. The 63 gives bass but not good treble. The 904 could be a basis for future upgrades and has a coaxial output. I'd like to use the 290 for a few more years. Do I have to consider a player at more than £500? Dimitris Panagiotidis, via the Internet

Your system is doing a serious unbalancing act. Using a bi-amped system with two separate amplifier brands undermines the sound of the system, as you can never balance the output characteristics. If you have £500 to spend, an Arcam Alpha 9P or second-hand Delta 290P is more likely to benefit the sound quality in the long term.

I'd take a look at the Leak speakers. No matter how many

modifications are made, the frequency extremes do not match up to today's models and the rubber surrounds will be rather aged. Look at a pair of Castle Harlech speakers as a possible replacement.

Only at this point would I suggest a CD player change. Rather than upgrading your player by Trichord modification or DAC, try something like the Pioneer PD-S505 Precision, Acurus ACD11 or Orelle CD-100e CD players.



#### To subwoof or not to subwoof

I begin with reference to your recent opinion on the Rogers LS3/5a "...a beguiling, but ultimately limited and compressed loudspeaker." I have a pair sitting on Partington stands, along with a Sugden A28 II amplifier and a Marantz CD-50SE, and I am looking at a general upgrade. The logical route seemed to be the Arcam 9/9P duo, Marantz 63 KI Signature and a pair of Rogers AB1 subwoofers.

Would this be the best way to advance the system? Or what would you suggest as a replacement to the Rogers? This hi-fi will be housed in a room of 4m x 7.5m with a 2.65m ceiling, the speakers facing across one end of the room approximately 3.5m apart. John Moneta, Norway, via the Internet

> First, while the LS3/5a sounds a little dated, it is still a classic product. The addition of the AB1 will add bass and make the mid-band more transparent. but may only offer shortterm satisfaction.

However, to find a better speaker is so very subjective that one has to consider musical tastes, how loud you play your music and what you think about your existing speakers. The Harbeth HL-K6 may prove a perfect upgrade, as it sounds bigger, bassier and more dynamic. Or you may prefer the more vivid presentation of a Mission 753 Freedom, or the laid-back warmth of a Castle Harlech.

# "How to subscribe to **Hi-Fi Choice and claim your**

F

# Vivanco headphones!"

**RE** 

When you subscribe to **Hi-Fi Choice today** vou'll receive these **FREE Vivanco SR250** headphones. worth £24.99. And as they've been voted a Hi-Fi **Choice Best Buy you're guaranteed** quality listening with your FREE gift.

Say YES! to your special **Hi-Fi Choice subscription offer** and we'll guarantee you:

- Your FREE Vivanco headphones worth £24.99
- V A subscription for as little as £14.97
- V A saving of over £5 on the cover price
- FREE delivery of your favourite magazine direct to your door

## **HOW TO SUBSCRIBE**

Simply complete the order form below and return it to: Hi-Fi Choice Subscriptions, FREEPOST WD7, Bristol BS12 OBR.

HI-FI CHOICE SUBSCRIPTION APPLICATION FORM		
YES! I want to take part in the Hi-Fi Choice subscription deal.  Please start my subscription from the next available issue and send me my FREE Vivanco headphones or	YOUR CHOICE OF PAYMENT Complete section ① Direct Debit ② Cheque or ③ Credit /Debit card ① _ I would like to subscribe by Direct Debit for just £14.97 every six months	
I am already a subscriber, please extend my subscription and send me my FREE Vivanco headphones	Instruction to your bank or building society to pay by Direct Debit (UK only) To the manager: Bank name	
YOUR SUBSCRIPTION Direct Debit payment	Address	
f14.97 every six months (UK only)	Postcode	
Cheque or Credit/Debit card payment	Name of account holder(s)	
1 year         UK £29.97         Europe £43.99         World £56.99           YOUR DETAILS         Bank sort code               Account no.		
Name	Originator's ID No 7 2 4 6 8 0 Office Use Ref No	
Address	Please pay Dennis Publishing Ltd. Direct Debits from the account detailed on this instruction subject to the safeguards assured by the Direct Debit Guarantee.	
Postcode	Signature(s) Date	
Daytime phone	<ul> <li>Banks and building societies may not accept Direct Debit instructions for some types of account</li> <li>2 I enclose a cheque made payable to: <i>Dennis Publishing Limited</i></li> </ul>	
PLEASE RETURN THIS COUPON TO: Hi-Fi Choice, Subscriptions Department, FREEPOST WD7, Bristol BS12 OBR. (No stamp required)	Please charge my:     Visa Access/Mastercard AMEX Switch (Issue No) Card Number	
<b>OVERSEAS READERS, PLEASE POST TO:</b> Hi-Fi Choice Subscriptions Department, Bradley Pavilions, Bradley Stoke North, Bristol BS12 0BQ, UK	Expiry date     I     I       Signed     Today's date	
Please indicate here if you do not wish to receive details of furth	her special offers or new products	

CALL THE CREDIT CARD HOTLINE NOW ON: 01454 620070 (9.00 AM-6.00 PM)



#### Naim newcomer

I recently upgraded my old H/K PM660 integrated amplifier to the



An alternative to the Naim Intro. Mission loudspeakers work well with Naim systems.

Naim Nait 3. The rest of my modest system consists of Monitor Audio 202s with mediumpriced speaker wire and a Marantz CD-63SE with a Chord Prodac interconnect (a big help). Although my speakers are now very clear, they lack depth, imaging, and warmth. Very focused. I've heard a similar system driving MA's 703s and they sound pretty good. What speakers would you recommend? I would like to spend about £750.

Rick Shuster, Singapore, via the Internet

Before you change speakers, what medium-price speaker wire are you using? If it ain't Naim NAC A5 cable, change it. Naim amplifiers are designed to work with the company's own cable and unless you use NAC A5 — or a handful of similar cables like Cable Talk 3.1 — the results are unpredictable at best.

When it comes to loudspeakers, the obvious choice would be Naim's new Intro

floorstander, but you might also want to investigate the Castle Harlech, Celestion A1, Neat Mystique, Mission 753 Freedom or the Spendor 2030.

#### **Fishing for speakers**

My system is a Sony CDP-561E, Pioneer A-400X and Fisher speakers. I listen to jazz and classical, so depth and detail are important.

I want to upgrade my speakers. My short list includes the KEF Coda 9, Sony SS176EB, Acoustic Energy AE109 and the Mordaunt-Short MS25i. My budget is £250-£350.

Which speaker could you recommend? I've tried listening to the Tangent Monitor 11, but the bass quality wasn't too clear. Israel Idowu, via the Internet

The speakers are indeed the weak link in your hi-fi chain. However, speakers must also reflect the size of your listening room — a pair fine for a small room will be bass light in a larger one.

Assuming your room is of average British proportions then, I believe that you should check out the AE109 and MS25i from your shortlist, as well as trying a pair of B&W DM305s, stand-mounted Heybrook Heylios or even the Musical Technology Kestrel SE. Hook any of these to a set of Goertz or Kimber speaker cables.

### HINTS & TIPS CONTROL FREAK Jimmy Hughes abandons hi-fi laws and extols the virtues of a tone control.

The same way; in the latter, the current provided increases as the load impedance falls, giving increasing output levels providing the amp can maintain current delivery.

Some valve amps have several taps on the output transformer to allow the user to select the right impedance for the speakers being used. How to tell what's correct? Usually the tap that gives the loudest sound is the most ideally matched, and one might assume it would sound best.

However at a friend's house recently with Audio Innovations' Second Audio power amps, I found I preferred the sound of the lowest impedance output tap, even though this resulted in a loss of volume. Basically the sound was tighter and more controlled at the low impedance setting. Bass was firmer and cleaner and overall the music seemed subtler and more expressive. Rhythmically the music had more shape, and there was a greater sense of ebb and flow.

The loss of volume level was perhaps as much as 4dB to 6dB — quite a lot with less than 15 Watts, but using efficient speakers it was not a problem here. If your valve amp has several output taps, why not try them all and see what you think?

You know how we tend to use cables as tone controls to try and correct tonal aberrations in our systems for a truer, more natural balance? Well, have you ever thought of adding tone controls to your system for this purpose? Daft question, I know...

Musical Fidelity's X-Tone allows you to shape bass and treble extremes to give a more pleasing tonal balance. Of course we all know it's totally wrong to even think about using tone controls, and a sign of manhood that your amp is as simple and purist as possible. But the X-Tone really does work. It has virtually no effect on things when switched out, so the purity of your signal is uncompromised. With judicious adjustment you can tailor the sound to correct for excessive brightness or heavy bass, and do so without adversely affecting the mid-range.

With three turnover frequencies to choose from, the X-Tone is far more subtle than ordinary tone controls which hinge around 1kHz and thus affect the midband. With the X-Tone you can roll off the extreme highs without dulling treble impact and tonal brilliance. Or boost the deep bass to bolster the bottom end of small speakers without creating boom.

At £129 it's a steal, and probably just what many systems are crying out for if only people knew about it. I've set mine to give a slight treble cut above 15kHz, plus a shallow bass cut below 120Hz. This brings the middle frequencies forward, firming-up the sound beautifully. There's no loss of articulation or brilliance, but the sound is definitely cleaner and more natural with it in. You owe it to your system to investigate!

Musical Fidelity 🕿 (0181) 900 2866





<sup>\*</sup> Offer available on recording models only and while stocks last.



MINIDIS

The cassette tape has finally reeled to its end. Now a new digital era begins with Sharp MiniDisc.

A breakthrough that means you can digitally record up to 74 minutes of your favourite music on a single disc, over and over again.

Without any wear, without any loss of sound quality.

What's more you can move, divide, combine or erase your recorded tracks.

Thanks to a title generator, you can even enter the disc name and individual song titles, confirming them on the alpha-numeric LCD

Then enjoy instant playback with the brilliant clarity that can only come from is digital sound.

Adding a new dimension to music at home or on the move.

All on a neat little MiniDisc that no tape can match.

The unreel, made real by Sharp.

For further information call FREEFONE 0800 262958



AD-MS200 PERSONAL MD RECORDER



E

T

H



M

0



V E



MD-XV300 MD/CD











Remember the spooky warbles on the Beach Boys' Pet Sounds album? All down to the amazing Theremin, father of modern synthesisers, and now back in production courtesy of this month's Inspirations subject. **Jason Kennedy** reports.

he last few *Inspirations* candidates have been out-and-out hi-fi enthusiasts, so we decided — in common with the British electorate — that it was time for a change. This month's candidate, Barry Wooding, derives more pleasure from what he can produce with his hi-fi, rather than the kit itself. Barry works in the left field of the music industry, supplying ideas and unusual instruments to a broad range of musicians. His client list includes such luminaries as Alex Paterson of The Orb, Julian Cope's soundscape meister Thighpaul Sandra, and old Led wallet himself Jimmy Page. What Barry sells is a version of an original electric instrument, the Theremin.

In November 1993, Barry saw a film about Leon Theremin, a Russian born in 1896, who in 1920 invented the extraordinary instrument which bears his name. To generate its characteristically eerie, almost human-vocal sound requires no actual physical contact. Instead there are two antennae, one to control the pitch of the signal, the other to control volume. Mastery of Theremin technique requires the operator to stand stock still and exert almost superhuman muscular control.

The day after the film was shown Theremin died, and Barry became inspired









Audiolab 8000DAC Audiolab 8000CDM Audiolab 8000C Audiolab 8000P Audiolab 8000S Audiolab 8000T



Audiolab 8000Q Audiolab 8000M Audiolab 8000T



Audiolab 8000S

By combining advanced design and innovative engineering we created pure direct coupled circuitry for the Audiolab 8000Q Pre-amplifier. We call it Audiolab Z<sup>4</sup>TECHNOLOGY. Combine the 8000Q with two or four Audiolab 8000M Monobloc Power Amplifiers and you have a formidable amplification system.

If your requirements are more modest, Audiolab manufactures a range of seven amplifiers beginning with the internationally acclaimed Audiolab 8000A Integrated Amplifier.

For more information and details of your Audiolab dealer call or write.

Cambridge Systems Technology Ltd Spitfire Close, Ermine Business Park Huntingdon, Cambs PE18 6XY

> Telephone 01480 415600 Fax 01480 52159


➡ by the man and his extraordinary instrument. So much so, in fact, that he took it upon himself to obtain an instrument and record a tribute. This proved difficult: originals are scarce and fetch up to £10,000, and even Bob Moog's Big Briar Theremins are expensive and hard to find. So Barry decided to build one himself.

He met his partner in this venture, Jake Rothman, through an ad in a music paper, and the two of them formed Longwave Instruments. Since then the company has opened up a market for kit-form Theremins, and developed the pocket-size 'Thereman' which has an onboard speaker and an output for use with effects and amplification.

Barry is clearly a major fan of this peculiar instrument. He has contacted Leon Theremin's niece, Lydia Kavina, who has made records of solo and accompanied Theremin, and sent her a Thereman which she uses in lectures on the subject. Inevitably Barry has an extensive collection of discs showcasing the instrument, including the Beach Boys' *Pet Sounds*, which has a track specifically written for the instrument: *I Wasn't Made For These Times*.

Barry's attention was first drawn to the theremin when he saw the Led Zeppelin film *The Song Remains The Same*, in which Jimmy Page plays the instrument on an extended version of *Whole Lotta Love*.

Barry's Zep fever runs pretty deep, as illustrated by the evening of LZ music he organised with local bands — preceded by a solo performance on the Theremin!

#### Dual hi-fi

In effect Barry has two hi-fi systems set up in his child-proof studio (all the precious stuff is kept away fromkeen young fingers). The source roster includes a Sony ST-S370 tuner, Sony TCD-D8 DAT recorder and infra-red receiver, Denon DCD-920 CD player and Sony TC-K611S cassette deck, plus two amp/speaker combos. In the red corner, JBL Control Ones and a Denon PMA-720 integrated chosen for its seven inputs; in the blue corner Quad ESLs, driven by a pair of EPE valve monobloks (see below) and a passive preamp designed and built by Jake Rothman. Naturally this diversity lends itself to input permutation, but the current preference is for CD through the Quads, and everything else via the JBLs.

Jake's article on building the EPE appears in the June '95 *Everyday with Practical Electronics;* it sounds and looks like a neat, economical design. Two years ago the parts for one of these 25 Watts units cost £110, but bear in mind this amp is not a project for absolute beginners.

If Jake is the electronics brain in the crew, Barry definitely knows his marketing. His greatest coup was getting the chance to demonstrate his instrument to Alex Paterson shortly before a gig in Southampton and hearing it played on stage on the same night!

Top: Quad ESLs are Barry's CD transducers. Above: Longwave Instruments' pocket-size Theremin checks in at £99; the full-size version starts at £545. Sci-fi soundtracks ahoy!

Barry has set up his hi-fi rather like a recording studio without the mixing desk. Apparently he would rather have a preamp with myriad inputs and outputs - I'll bet this project is already absorbing Jake's spare time! The system evolved largely as a result of getting the best possible gear for the minimum outlay. Of course that's the way we all do it, but Barry's system contains more than a couple of second-hand units. The DCD-920, for instance, came with the amp, replacing a Marantz CD-65, and was much appreciated for the improvements it wrought. The whole system is supported on a tubular steel structure with three spiked feet and some decoupling for the box that supports the electronics.

The Quad ESLs (which will be augmented by a subwoofer in future) were supplied by Barry's mate at Beam Echo, a company that like Longwave Instruments has devoted itself to the resurrection of historical

electronic products (valve amps, actually, manufactured with more concern for authenticity than economy of production). Barry's Theremins are not slaves to the original valve technology with which they were conceived, which is why he's able to produce the pocket unit for £99 and the full-size device (in leather finish) for £545. I believe the craftsman-built marquetry cabinet in the pictures is more expensive. Longwave Instruments is clearly in touch with the modern musician's requirements, however, and offers a MIDI/CV interface for the Theremin to facilitate sampling of the instrument's continuous pitch-bending capabilities.

Barry and his pals have picked a good time to start making their Theremin demand is high from bands like Pulp, Blur and Portishead. (On the latter's *Dummy* album a synthetic Theremin did the honours in the absence of the real McCoy). It's thought there are only 70 of Theremin's original instruments left in the world, with artists like Brian Eno among the users.

Barry's head resounds with novel ideas. Launching a receiver into space to capture broadcasts from the past, anyone? But it's only by thinking like this that one day he'll hit on a lucrative idea that everyone else has written off. His system might not admit him to the Audio Maniac Society, but his retroeclecticism is enough to bestow honorary membership. All together now: ooeeooee... *Longwave Instruments* **2** (01425) 610849. **ULTIMATE ACCESSORIES** 



# **Hi-Fi Choice** brings you a one-stop guide to all the best tweaks and accessories!

he joy of hi-fi separates is the way you can fine-tune them to your own musical tastes. Accessories, the little things, are the nuts and bolts in the fine-tuner's tool-kit. And many hi-fi fans discover that before long, a whole new hobby develops in experimenting with accessories, buying new widgets and swapping them with friends. This is known as tweaking, and its remit extends from cables to contact enhancers. In this feature we've condensed into six pages a complete beginner's guide to accessories and tweaking. There's a contents list (see right) detailing the areas we've covered. Where applicable we've reprised products already reviewed in *Hi-Fi Choice*. Otherwise we've trawled the most eclectic regions of hi-fi to report on the gizmos and gadgets that await your pleasure. This is all about personalising your hi-fi system; it is all about making your mark as an audio individual. Experiment, peruse, reflect and enjoy!

#### CONTENTS CD STORAGE.....p41 DAMPING.....p43 EQUIPMENT SUPPORTS ......p43 ESSENTIAL READING ......p38 FIVE FREE TWEAKS ......p40 GREAT TWEAKERS IN HISTORY ....... p44 ISOLATION RESOURCES ......p39 MAINS SUPPLY .....p40 PC SOFTWARE ......p44 PLUGS & SOLDERS .....p44 SOFTWARE CLEANING ......p43 SPEAKER STANDS......p38 TURNTABLE ACCESSORIES.......p41

WIDGETS .....p39

#### **SPEAKER STANDS**

It's generally accepted that speaker stands make a difference to the sound of any speaker, for two distinct reasons. First, the height of the speaker above the floor makes a difference to its bass response and general clarity of sound. This is due to the effect of reflections from the floor reaching your ear and adding to the direct sound from the speaker. Even so-called floorstanding speakers benefit from being hoisted off the floor. Speaker elevation is definitely worth experimenting with. It can also affect the amount of extreme high frequencies (HF) reaching your ear, since few speakers have uniform vertical response off-axis at HF.

Second, the stand acts as a vibration coupling between the speaker and the floor, affecting not only the output from the speaker cabinet but also that of the floorboards and indeed the stand itself. The business about 'rigidly fixing the speaker to the floor' could be a red herring, though; in fact some prefer to insert a thick piece of high-density foam rubber between speakers and stands to keep vibrational energy out of the floor.

A further, largely ignored effect of stands is speaker tilt. Due to the construction and crossover alignment of many two-way speakers, the best driver integration occurs on a line tilting downward from a point between the drivers. If the speaker is tilted back, this line will become horizontal and point at the listener's head. Unfortunately, some high treble will probably be lost so the ideal amount of tilt should be set by ear. It's an easy thing to experiment with, though — you'll need some cones, as pictured right.

Not surprisingly, speaker stand performance varies with the speaker that's put on it, but the following models have done well in *Hi-Fi Choice* tests: **Atacama SE24** (61cm high, £69.99); **Kudos S100** (63cm, £269.95); **Partington Discovery** and **Trophy** (£79.90 and £99.90); and **Soundstyle 124** (65cm, £100).

#### **ESSENTIAL READING**

If you like hi-fi but can't understand the tweaker mentality, this'll enlighten you. *The Search For Musical Ecstasy, Book One: In The Home* is Harvey "Gizmo" Rosenberg's sprawling eulogy to the pursuit of hi-fi as a "typical male monumental activity". Either you'll love Gizmo's relentless philosophising about music and male bonding — the "expanded gizmological metacontext" — or you'll gag on his endless drug, sex and Harley-Davidson

The shiny Soundstyle 124 stand — a Hi-Fi Choice Best Buy. references. Be prepared for a no-compromise puff for valve amps (of which the author was once a manufacturer, natch) and an omnipresent undercurrent blaming women for spoiling men's audio fun. Recommended for the broad-minded reader, but don't take it too seriously!

Published by the Image Marketing Group, 911 Hope Street, Stamford, CT 06907, USA. ☎ +1 (203) 357 7600; fax +1 (203) 967 9100.



You too could partake in The Search for Musical Ecstasy.

#### **ULTIMATE ACCESSORIES**

#### **CABLES : SPEAKER AND INTERCONNECT**

Cables are apt to be a huge minefield, and the choice available is pretty bewildering. As with special supports, benefits are hard to prove but often easy to hear; unfortunately they also depend heavily on the precise circumstances, hence the many cables available. Generally, with better cables you can expect to hear more subtle information in your music. You may also find a slight change in tonal balance, but be careful here: what at first sounds impressive can in time become tiring. Home audition is ideal, and many dealers will allow this. If you live near any kind of radio transmitter unshielded interconnects are not recommended — ferrite clamps (see p40) can also help here. Bi-wiring, where separate speaker cable runs are used for treble and bass drivers (if the speaker has the appropriate terminals, as many do) can give worthwhile gains, although of course it increases cost. A hot tip here is to use a cheap cable the bass and spend most of the budget on the tre-

ble cable; the benefits this can give to subjective bass quality are surprising! For the ultimate in tweakery, remove the speaker's crossover and put it next to the amplifier, using separate, high-quality cable runs from it to each driver. Of course, this will invalidate any warranties in effect.

Cables noted in *Hi-Fi Choice tests* include interconnects from DNM (TCC75, £34), Ixos (104, £19.95; from Path), Linn (£47), SonicLink (Silver Pink, £35) and XLO (Type 0.1, £180); digital interconnects from Audioquest (Video Z, £60), Audio Note (AN-V, £219), DPA (Digi-Link, £27.50), The Chord Company (Prodac, £50/50cm) and QED (£19.95); and speaker cables from Bandridge (SF LC1259, £1/m), DNM (LSCB500, £6.95/m), Gale (XL315, £1.99/m), Ixos (603, £2/m), Sonolith (Monolith 20/20, £40/m) and Sonic Link (AST50, £2/m). See also this month's tests (p46).

The SonicLink Silver Pink interconnect is available for £35.

#### WIDGETS

No self-respecting hi-fi home should be without the Cardas Sweep record, Densen DeMagic CD or Russ Andrews CD Cleaner.

> Welcome to the Twilight Zone of hi-fi, where scientific explanations are thin on the ground and arcane principles rule. Take the **Bedini CD Clarifier** (Pear Audio) for example. Priced at £59.95 for a hand-held version, or £149 for a table-top device, this US-built unit spins your CDs for about 20 seconds, and in doing so claims to electromagnetically 'polarise' stored data to enhance it. Sounds kooky, but golden ears

reckon it works, if only on some discs. A number of special CDs are available

that claim to banish the effect of unwanted magnetic fields from hi-fi systems. **Densen's DeMagic** (Moth Marketing) costs £10, while

Sheffield Labs offers the MDMS (magnetic domain matrix signals) System Conditioning & Degaussing CD





The £25 Milty Zerostat 3 once zapped static out of vinyl — can it do the same for CDs?

(£24.95), and XLO/Reference Recordings has a Test & Burn-In Disc (£25) — both from Wollaton Audio. All of these CDs contain special signals to play through your system and give it a good clear-out, like a spring clean for its internal workings. Analogue enthusiasts can join in the fun with the Cardas Sweep — this £15 LP is

claimed to de-gauss whole systems and demagnetise cartridges (Audiophile International).

Complete system demagnetisation can be achieved with the **Gryphon Exorcist** (£69, Moth Marketing). An active device sends a signal through the system with the aim of improving clarity and instrumental separation.

Cable itself can be tweaked with **Nordost's ECO 3** static inhibitor ( $\pounds$ 29.99, QLN UK Ltd) which claims to reduce your system's noise floor by zapping stray static built up in the insulation. You can even treat the label side of CDs!

The **Milty Zerostat 3** (£25, Goldring), originally developed to reduce static on vinyl, claims benefits can be had by 'statting CDs. Given that two companies are claiming static is an issue with CDs, perhaps there's something in it!

#### **ISOLATION RESOURCES**

An isolation platform might be little more than a paving slab or a headstone — but we recommend paying a visit to a monumental mason, as grave-robbing is still illegal.

Platforms are also designed to act as a form of suspension, damping the effects of vibration with springs, elastic materials or even air bags. Often they'll take the form an MDF sheet with springy feet like the £35 **Mission Isoplat**, but as the price increases, so does the level of sophistication. Other

products to try include the  $\pounds 60$  Audiophile Furniture Base, the  $\pounds 129$  Perfect Sound

Absorber Platform from Goldring and the £150 Acoustic Precision Inertial Slab. High-end

supports use everything from air-suspension (the £400 Townshend 3D Seismic Sink) to glass, MDF and steel (Mana Acoustics' £125 SoundFrame) to isolate the product from its surroundings. Others, like the £130 Shun Mook Isolation Platform (via Audiofreaks) use wood and other materials to tune system resonances.

Cones, from top: Oak Cone Feet from Russ Andrews (£14.95 small, £19.95 large); Michell Tenderfeet (£8.95 large, £5.95 small for three); Perfect Sound Crystal Cones & Discs from Goldring (£50). Platforms: Townshend 3D Seismic Sink (£400, top) and Shun Mook Isolation Platform (£130).

#### **MAINS SUPPLY**

The whole business of mains cables, mains plugs, fuses and other such tweaks must be prefaced by a very important note on safety. MAINS VOLT-AGE CAN KILL! And mains current can cause fires and damage to equipment if treated without respect. If you have the slightest doubt about the correctness of what you are doing, leave well alone.

The jury is still out on mains tweaks, maybe because mains cable 'sound' comes from reactions between the cable and the mains transformer, rectifier and storage capacitors in the equipment, which will make results variable between components.

Souped-up mains cables can certainly make a difference to a good system, and as long as your equipment has an IEC mains inlet, this is a very simple and safe tweak. Replacing captive mains cables is not a good idea unless you are highly experienced in electronics. Expect to pay between £25 and £100 for most mains cables; brands to look at include **SonicLink** (vast range), **Kimber** (e.g. **Powerkord 4TCM**, £60/3ft), **XLO** (**PL10**, £225/6ft and **PL1000**, £125/6ft), **Living Voice** (£69), **Kebelwerk** (which has an RF filtering effect, Kronos) and **DNM** (£25).

Most special mains cables come fitted with plugs. These often feature precious-metal-plated pins; corroded contacts passing electric current are a great source of radio frequency interference. These tend to cost from £20 upwards. Dedicated tweakers adopt theatre-lighting-style 15A round-pin plugs, which are unfused and so should be used with high current cable, giving greater contact area and reliability. **SonicLink** has a range of rhodium plugs and **Kontak** from Path does a gold plated MK plug for £13.95.

Fuses are a necessary evil, protecting against fire risk if various components

should fail. Don't be tempted to remove them. However, you may wish to replace fuses with special 'audiograde' types having goldplated ends.

by **Bussmann**, one of the world's largest fuse manufacturers, and should be on sale by the time you read this. Alternatively, the experienced might try replacing equipment fuses with thermal circuit breakers, which are supposed to sound better (available from **Farnell Components**). Mains cables from XLO (above), and RATA. Below left: Versa Dynamics Red Rollers. Bottom right: get an electrician to replace captive leads.

> Mains filters are available in various forms, including filtered plugs (e.g. the **RATA Superclamp** plug, £15.95), filtered distribution boards (e.g. **Kimber 6**-

way £199/3ft also from RATA), standalone boxes (e.g. Acoustic Precision Black Box, £149) and replacement mains inlet sockets (RATA). Schaffner inlet filters feature inductors on all three mains lines — many filters do not have one on the earth wire. Note that noisy thermostats etc. should be treated at source; ask an electrician to fit a suppressor to the contacts.

The simplest filter is the ferrite clamp, a split-sleeve made of ferrite magnetic material, clamped over any cable near its entry. **Tandy** clamps are about £6/pair, **Townshend Purifiers** are £12/pair, **Versa Labs Red Roller** £99/pair, and **A.R.T. Q-Ring** £12.99. They can be fitted and removed in seconds and are safe. They are also suitable for interconnects and speaker cables.

Finally in this area, two really dedicated tweaks. Some folks go to the trouble of having a separate mains spur run from the switchbox to the hi-fi, to avoid some of the contamination due to other electric equipment in the house. This is expensive and troublesome and should be left to a professional electrician, but can be worthwhile. Good results have also been reported from a separate external earth spike hammered into the ground and connected in parallel with the mains earth. If you want to give it

a try, RATA sells a suitable spike for £28.95.



The "green pen" CD treatment – will it work for your system?

#### **FIVE FREE TWEAKS** by Jimmy Hughes

1) It caused much hilarity at the time, but giving your CDs a brief spell in the freezer is a worthwhile thing to do. The secret is to allow the disc to reach room temperature as slowly as possible after freezing (wrap it in a cold towel and slowly 'thaw' in the fridge) then take out the disc, still wrapped in the towel and leave for about 12 hours. Result? A slightly cleaner, firmer sound, with greater immediacy and control.

2) Putting green ink from a felt-tip pen around the circumference of a CD is another worthwhile and inexpensive improvement, as is keeping the disc surface clear of scratches, dust and fingermarks. It's not free, but **Russ Andrews' Reveel** cleaning fluid is superb at taking off surface debris, leaving even new CDs looking and sounding noticeably cleaner and more transparent.

**3)** If your CD player has a display-off facility, you may find things sound a little bit cleaner with the display extinguished. Putting shorting plugs into unused digital output sockets (and unused amplifier signal inputs) also helps improve clarity. Also, some inputs on an amplifier can sound better than others; so if CD is your main source listen to it through all available inputs and see what you think. Often 'tape monitor' sounds best, because it provides the shortest signal path, avoiding the main input selector.

4) Integrated amps with two sets of speaker outputs, A and B, sometimes sound better on B, because these terminals are closer to the main circuit board and thereby have a shorter signal path. However, if set A is designated 'direct', they should sound best.

**5)** Equally don't just assume speakers always sound best with their grilles off; tonally the sound may seem more open and perhaps slightly sharper, but see if the overall sound isn't more integrated with the grilles in place. Michell's Record Clamp keeps vinyl in its place.

#### **ULTIMATE ACCESSORIES**

Vivanco's CD Wallets offer high-density storage.

UNITED

#### TURNTABLE ACCESSORIES

Audiophiles bemoan the demise of the turntable as the most tweakable hi-fi component in the system. Operating on relatively straightforward principles, the turntable

offers tremendous scope for experimentation.

Metal parts of the plinth can be damped with sheeting, as can platters, so long as you are careful to apply it evenly.

**A.R.T.** makes graphite Q-Dampers in the form of the **Head** (£17.99), a lump that sits between cartridge and headshell, and the **Disc Q-Damper** (£169), which is a record clamp. **Shun Mook** (Audiofreaks) also makes a record clamp, using rare hardwoods. It has damping qualities and improves record-to-platter contact, and costs £600. The best-value record clamp we've seen is the **Michell**; at £20 this is a steal.

Mats are another area of interest. Nottingham Analogue offers the graphite Space Mat, while the



**Ringmat** (from RATA) does the same but is made of a cardboard disc with cork rings to decouple and damp simultaneously. These are claimed to redefine the art of turntable mattery; prices start at £27.50 for the **200** mode

The Mana Spirit Level: every deck deserves one!

prices start at £27.50 for the **200** model. Tweaking turntables requires a number of specialist tools, including a stylus gauge like the classic **Shure** design available from Moth at £12.95. A particularly essential tool is the **Mana Spirit Level** (£25)

which sits on the spindle to

allow perfect suspension levelling. Cartridge alignment can be tricky but the **Polaris** protractor (£7.95) from **Russ Andrews** makes it pretty simple. The same company also supplies the **Armony** arm base which gives Rega arm users the freedom to adjust VTA.



#### **SOFTWARE STORAGE**

Collect a few CDs and you have a storage challenge — both for discs within their protective jewel cases and those travelling light for a listening session. CD storage furniture is readily available from stores such as Ikea, Habitat and the John Lewis Partnership, but those who can afford something better might consider the wares of cabinetmakers such as **Philip Koomen 2** (01491) 681122. His new CD cabinet holds

approximately 284 CDs and 96 cassettes, is finished in walnut with boxwood, and commands the princely price-tag of £3,720. Another hand-crafter is **Ian Edwards** (01423) 500442. He

offers a large range of real-wood-veneered storage furniture, for example the £880 **Charlotte** chest of drawers (480

CDs and 75 cassettes) or the £2,250 Wizard that takes 1,550 CDs. Those in seeking more contemporary

design should check out the **KDA 'W'** rack for walls or shelves at £45 per

Bib offers the CD Projects range of CD sleeves. 60 discs 22 (0181) 806 2515.

**Case Logic** offers a number of CD storage solutions for fixed and mobile applications. The range, distributed by Path, varies from bags to carry jewel-cases, disc-only wallet systems, the 120-CD **Skydisc** storage tower (£69.99), and **ProSleeve**, in which disc and booklet slide into an index-card-style holder. 30 ProSleeves and a carry case cost £17.99.

The **CD Projects** system from Bib also relies on individual sleeves for discs and booklets, and provides a variety of filing systems both desk-top and wallet based. Pictured is the **CC-24** carry case (£9.99) and **RDC-25** home storage unit (£12.99).

Vivanco also has a range of CD wallets and jewel-case carriers.

#### **CONTACT ENHANCERS**

Unless you change cables on a regular basis, all of your plugs and sockets will tend to oxidise and thus reduce the quality of electrical connections they are making. This applies all the way down the



sparkle to plugs.

chain, from mains plugs and sockets, through interconnects between components, to speaker cables. The simplest way to improve contact quality is to remove and re-insert all of your plugs once every few months, however, using a proprietary cleaning fluid should prove even more effective. There are plenty of different types to

choose from and many alternative application methods to boot.

**XLO TPC** (£1.50) is a moist tissue, so you don't need a cloth to wipe with. **Russ Andrews** seems to specialise in cleaners with one for every occasion; **Deoxit** (£13.95) is a spray that's suitable for any type of plug or socket whereas **Pro-Gold** mini-spray (£13.95) is specifically for plated surfaces such as gold phono plugs. Russ also does **Caig Cramolin** (£29.95), a two-part deoxidiser and

contact enhancer. **Reson's Licon** (DNM, £22) is claimed to fill in the microscopic fissures in the contact surface and increase contact area. Alternative cleaner brands include Path Premier's **Kontak** (£14.95) and its extensive **Allsop** range.

Deoxit from Russ Andrews (above) can be sprayed on any plug or socket. Reson's Licon (left) claims to fill in microscopic fissures.



CD jewel cases ensconced in a Case Logic carrier.

# Wall to Wall Magic!



# The Widest Choice of THX in the UK!

Nothing will prepare you for the



sound of THX Kamla style. Experience each soundtrack as the director intended through the JBL Synthesis II system and two other superlative THX Home Audio loudspeaker systems. Amplification by JBL, harman/kardon, Proceed and McIntosh. Processing by harman/kardon and Proceed. Also featured, the UK's first AC-3 demonstration through EAD TheaterMaster.





251 Tottenham Court Road, London W1.Tel: 0171 323 2747. Fax: 0171 637 2690.

IBL, HARMAN/KARDON, JAMO, BOSTON, B&W, KENWOOD, PIONEER, PROCEED, REL, ROTEL, G.E., SHARP, DALITE, RUNCO.

0% finance available subject to status. http://www.kamla.com/kamla hifi-info@kamla.com

#### **ULTIMATE ACCESSORIES**

Optimum International 2000's rather stylish stand.



#### DAMPING

Perhaps the main sources of distortion within hi-fi components are the resonances created by the music being reproduced. The casework and components all react with the energy produced by the speakers, and damping can be used to minimise this effect.

Damping products come in a variety of forms, the most common being soft rubbery materials such as **AudioQuest Sorbothane** and **Spectra Dynamics' Deflex**, which are designed to turn energy into heat. Used in sheet form these materials can be stuck onto casework panels and even individual components, so long as you avoid the ones that get hot. Adventurous souls can try it on integrated circuits' chips and parts of CD transports. The damping panels sold in car parts

shops can also be used for the same purpose. Valve damping can be achieved with **Pearl Coolers** from **Russ Andrews**. These improve cooling efficiency, and the rubber rings used to hold them on offer a degree of damping. Prices start at just

over a fiver. CDs can also be damped, either with stick-on devices or with a mat such as the

**A.R.T. Q-Damper**, which also claims to stop electromagnetic radiation. Neither of these are compatible with Pioneer's Stable Platter CD players.

Pearl Coolers keep your valves from overheating.

CD repair kits: Allsop has an extensive range.

### EQUIPMENT SUPPORTS

Equipment supports work by reducing the amount of external vibration (from all kinds of sources) reaching your hi-fi equipment. The extent and type of this effect depends on the equipment in question, with the greatest benefits occurring in turntables, particularly in those with little or no suspension. However, it seems that even amplifiers, and certainly CD players, can benefit also. Some supports, such as the various Townshend Seismic Sink models (£110 upwards), seek to provide mechanical isolation by the use of springs, damping materials and other kinds of decoupling, while others such as the Mana range of supports (e.g. Reference Table, £350, or 5-Tier Sound Table, £600) act effectively as tuned filters. Try also the Quadraspire

Q4 rack (£200), Sound Organisation Z560 (£150) and Optimum International 2000 OPT490 (£349.95 and unusually stylish).

#### **SOFTWARE CLEANING**

CDs are almost as susceptible to dust and damage as LPs. Mould-release agent, fingerprints and general goo all get in the way of good sound.

Cleaners fall into two camps. Some strip away accumulated gunk: the £14.95 **Reveel** from **RATA**, the £7 **Milty** wipes from **Goldring** or **AudioQuest**'s £14.95 **LaserGuide**. Others fill in minute scratches and divots in

the polycarbonate itself, such as **Allsop**'s CD restoration kit for £12.99. Keep your LPs clean with a swipe of carbon-fibre brush. Go for a good one, either **Decca**'s £12.95 mk 3 brush (Moth) or **Milty**'s £12

Permaclean, which comes with a cleaning fluid.

An occasional clean with a wet record cleaner is also useful. The most popular ranges still available are **Nitty Gritty** from KJ West One, or **Moth** and **VPI** (from Vinyl Demand). These vary in price from £220 for the **Nitty Gritty Basic** cleaner up to £799 for the professional **VPI HW 17 F**.

Russ Andrews' CD Cleaner pack – every emollient a CD could need!

CD CLEANER



cleaning cloth.

HI-FI CHOICE

#### **ULTIMATE ACCESSORIES**

AudioFile recordcataloguing software

#### PC SOFTWARE

How do you catalogue your software collection? On your PC, no! Well you could do it easily with **Doubleware's AudioFile** database. This US software (available in the UK for \$50 inc. shipping) runs on Windows 3.1 upwards and makes light

work of designing databases for records, CDs, tapes etc. Its standard categories cover everything from title to genre, price paid and where kept. If you want to add fields of your own, you can do that too. It includes pretty well everything the avid record collector might consider. Fax +1 (216) 871 2242 for more info.

If you just want the info and can't be bothered with creating your own listing, the £39.95 **RockBase Plus** CD-ROM for



pg, the £39.35 Rockbase Flus CD-ROM for DOS or Windows-compatible PCs is probably right up your alley. With information on over 330,000 albums, it covers popular recordings made between 1952 and 1996. You can even update RockBase and personalise it to suit your own collection. Call **Cravenplan Computers Ltd ☎** (01895) 444603.

Rockbase is every trivia geek's ideal CD-ROM!

newsgroups you'll hook up to a plethora of tweaky tips. Just conducting a Web search on 'tweaks' elicits several interesting pages on the

If you've got access to the Internet and

topic, one being Better Hi-Fi Sound — Tweaks & Ideas, at http://home.pacific.net.sg/~erickoh/hifitweaks.htm .

#### **GREAT TWEAKERS IN HISTORY by Jimmy Hughes**

**Enid Lumley** became something of legend on both sides of the Atlantic, for her highly individual approach to hi-fi. Clearly hypersensitive, she told us to hang our cables via thread at precise distances, and reckoned to be able to tell by the way her system sounded whether her electric power was supplied from coal, gas, or nuclear power stations. Once she transformed a mediocre sound at a hi-fi show into something good simply by removing a picture hanging on the wall!

■ Peter Belt sees himself as the man who discovered a wholly new science of perception and understanding. In the late '80s he 'treated' the room used by New Hi-Fi Sound magazine at one of the London hi-fi shows, transforming the sound from 'lost cause' into one of the best demonstrated that autumn. His methods included 'polarising' everything from water and lightswitches, to a cream for lightbulbs! Nowadays he's keeping a low profile.





#### **PLUGS AND SOLDER**

Standard solder uses lead, but an alternative is silver solder from **WBT** (Path Premier) at £7.95 or **Audio Note** at £23.44 for 50g. Or why not try the low-lead **Wondersolder** by RATA, for £2.35/m?

You can also upgrade phono plugs and the sockets they mate with. Try **Audio Note**'s £30 **AN-P** plug and £4.29 **AN-CS** socket, **WBT**'s phono plugs (from £50 to £73 per quartet) and sockets, and the £11.75 **PureSonic 6123** metal-bodied phono plug from **Tech+Link**.

If your amp accepts 4mm speaker connections, change your plugs to solderless cold-welded **Airloc** plugs (£2.50 inc fitting) from **QED**.



#### CONTACT NUMBERS

Acoustic Precision (01483) 267516 Allsop (0121) 749 2240 A.R.T. (01359) 240687 Atacama (01455) 283251 Audiofreaks (0181) 948 4153 Audio Note UK (01273) 220511 Audiophile Furniture (01342) 826262 Audiophile International (01276) 855578 Audioquest (01223) 440964 Bandridge (0181) 543 3633 Bib (01442) 233233) Bussmann (01509) 882737 Deflex (01745) 360070 DNM (01277) 227355 DPA (01222) 795621 Farnell Components (0113) 263 6311 Gale (0500) 101112 Goldring (01284) 701101 Ixos (0121) 749 2240 KJ West One (0171) 486 8262 **Kronos Distribution** (018687) 48632 Kudos stands (01903) 750750 Linn (0500) 888909 Living Voice (0115) 981 3562 Mana Acoustics (01753) 655744 Michell (0181) 953 0771

Mission (01480) 451777 Moth Marketing (01234) 741152 Neutrik (01983) 811441 Nottingham Analogue (01773) 762947 **Optimum International** (01274) 583249 Partington Discovery (01322) 383712 Path Distribution (0121) 749 2240 Path Premier (01494) 441736 QED (01276) 451166 QLN UK Ltd (01352) 730251 Quadraspire (01634) 296615 **RATA/Russ Andrews** (01539) 823247 Schaffner (0113) 263 6311 SonicLink (01332) 674929 Sonolith (0171) 247 0813 Sound Organisation (01284) 701101 Soundstyle (01284) 70110 Tech+Link (0181) 771 8388 The Chord Company (01722) 331674 Townshend (0181) 979 2155 Vinyl Demand (01425) 654545 Vivanco (01442) 231616 Wollaton Audio (0115) 9284147 XLO (0115) 928 4147



Last year we became the first ever manufacturer to gain five stars for five separates. This year we've done it again. We're speechless. We'll leave it to "WHAT HI-F1" to say a few words.





TA-F448E AMPLIFIER. "...sounds clean and totally in control. This amp is good – very good". (JULY'96)



MDS-JA3ES MINIDISC SYSTEM. "The Sony makes recordings virtually indistinguishable from the original." (DEC'95)



CDP-XE 900E CD PLAYER. "... feels built to last, looks smart and sounds very classy: it deserves to do well." (AUG'96)



TC-KA6ES TAPE DECK. "...a very superior piece of machinery. Superbly built, this deck mixes luxury and functionality." (JUNE'96)

SS176EB SPEAKERS. "... their space, presence and rich authority make for a wholly satisfying listen." (SEPT'96)



# Wired science

Everyone wants to upgrade without breaking the bank. **Richard Black** (listening test) and **Paul Miller** (lab test) show you how with a selection of speaker cables.

early two decades after the original cable 'heresy' was first propounded, now it is widely accepted that cables *do* affect the overall sound of a hi-fi system. At the simplest level, speaker cables of great length and/or very small cross-section will have enough resistance to alter the frequency response of most loudspeakers by a significant amount, but even when these variations are held to vanishingly small levels, many listeners still report upon very noticeable differences between cables.

Do these differences really exist? Despite the evidence from many pro-audio, doubleblind tests to the contrary, anecdotal evidence from the hi-fi community is, I think, overwhelming. Cables do have an effect. However it's difficult to be sure whether a change is in fact an improvement. Also, a cable might turn out to be complementary to one kind of system but unsatisfactory in another; or does it just hide or cancel some particular weakness? It's a can of worms.

In the best *Hi-Fi Choice* tradition, the following reviews attempt to be as objective as possible, but as always there's nothing better than deciding for yourself, with the co-operation of a good hi-fi dealer.

Despite various pseudo-scientific claims by some of the cable manufacturers, no totally convincing explanation for the audibility of cable differences has been put forward. In fact it must be said that rather a lot of the 'explanations' are not just speculative but openly in contradiction to basic physics and electronics, and often probably untrue. Still, there must be some reason for the differences, so what's going on?

Any cable has four basic parameters: resistance, capacitance, inductance and 'dielectric loss'. The last is effectively a



THE CAST LIST	
Audioquest Crystal	
Cable Talk Talk 3.1	£2.25/m
Chord Myth	£5.95/m
DNM LSC350	£6.95/m
Gale XL189	Contraction of the second s
Goertz M1	
Kimber 4TC	
Nordost Octava	£2.99/m
QED Profile 4x4	£9.00/m
Silver Sounds 12 gauge	£12.00/m
Sonic Link Silver Aero S300	
XLO Pro 600	£16.50/m

leakage resistance that appears between the conductors of the cable, but it varies with frequency. In the vast majority of audio cables it is effectively infinite at DC. Its value depends on the cable's capacitance and on the type of dielectric (insulator) used. Capacitance is a measure of coupling between the cable's conductors, and inductance measures how hard it is to push high frequencies round the cable. Resistance defines how much of the electrical energy passing along the cable gets turned into heat, and is defined effectively by the amount of copper (or other conductor) in the cable. At high frequencies resistance may rise due to 'skin effect', which is often cited as important but is usually swamped by inductance. Capacitance and inductance in practically all real-world cables are inversely related and any manufacturer who claims 'low inductance and capacitance' is being economical with the truth.

A fifth parameter sometimes mentioned is 'characteristic impedance', which is itself a function of the other four. Its direct relevance really crops up at high frequencies, where the wavelength of the electrical signal is of similar size to the length of cable — hence around 50MHz for a cable 1m long, or for audio frequencies of up to 20kHz in cables a couple of miles long. However, it still has a meaning at lower frequencies and can be a useful shorthand for expressing a cable's parameters.

In my opinion, for the flattest possible frequency response of an amplifier/cable/ speaker system, the cable should have zero

resistance and a characteristic impedance that equals the resistance of the speaker. There are three major 'buts': all speakers, and many amplifiers, have a frequency response with bigger 'wiggles' in it than most cables will introduce; the cable's resistance appears, electrically, in series with the output impedance of the amplifier and the resistance of the speaker; and no speaker has a resistance that is constant at all frequencies — in most box speakers it varies by as much as 10:1 across the audio range. Also, such a cable will have a very high capacitance which for various reasons can result in certain amplifiers becoming unstable and oscillating, with disastrous consequences for sound and the risk of damage. However, that's really a problem for amplifier manufacturers to address.

Many other qualities are cited by manufacturers: purity of the metals used, methods of winding strands together, ways of damping mechanical vibrations — there may be something here, but to the best of my knowledge no tests have ever substantiated these claims. A wide-ranging and sophisticated test programme by a noted hi-fi researcher, written up in various learned journals, ultimately succeeded in measuring nothing more than the four parameters mentioned above. Anyone used to designing cables for RF use can estimate all the parameters just from looking at a cable, which ought, one might think, to dispel much of the magic surrounding the subject. So let's see what occurs in practice! RB

#### UNDERSTANDING THE SPEAKER CABLE BARGRAPHS

**INDUCTANCE** This is related to the current flowing through the cable and the magnetic flux associated with it. Parallel, spaced-conductor cables tend to have a higher inductance which adds to their *reactance* at treble frequencies (see final bargraph category).

**CAPACITANCE** Another electrical constant related to the electrical field and charge maintained across the two 'halves' of the cable. Tightly-twisted or braided cables with thin, poor-quality insulation will have a high capacitance. Some amplifiers may become unstable driving very high capacitance cables (see final bargraph category). **RESISTANCE** This is determined by the total cross-sectional area and conductivity of the cable's metal core. High resistance introduces a greater power loss and reduced speaker damping factor (see final bargraph). **DIELECTRIC QUALITY** High quality insulators, such as Teflon (PTFE), possess superior dielectric properties to cheaper alternatives like PVC, helping to reduce capacitance, leakage and various RF effects. **EFFECT ON SPEAKER'S FREQUENCY RESPONSE** This is determined by both the

resistive and reactive properties of the cable which may exaggerate any existing 'wobbles' in the speaker's response.

Note: all measurements are normalised to a five-metre length.



#### **AUDIOQUEST CRYSTAL**

This large, forbidding cable is a so-called 'Hyperlitz' design, which if the illustration on the box is anything to go by, means that several conductors are spiralled round a central core with alternate conductors connected to hot and return. It is only supplied terminated and the review sample was in fact fitted with four plugs at the speaker end, to allow for biwiring. As no other cable was thus equipped, and my ATC speakers only have single input terminals, I simply connected both pairs of plugs together to end up with single wiring.

Crystal turned out to be a moderate performer, neither remarkably detailed nor particularly lacking in any area. On the positive side, it had a good tonal balance which preserved both deep bass and high treble, even though it lacked the last word in impact.

Against this should be set a degree of graininess which coarsened many kinds of music and slightly smeared detail. With a good piano recording, for instance, this meant that one's concentration started to wane after a few minutes because of the extra effort involved in keeping focused on the sound. Funnily enough, dense textures such as orchestra or a large drum kit seemed less affected by this and came across as quite detailed and with moderate imaging. Not bad, then, but I feel a cable at this price should offer a little more. *RB* 

	AUDIOQUEST CRYSTAL – VERDICT		
SO	UND ★★★☆☆		
VA	LUE ★★★☆☆		
PR	LICE £18/m STEREO (UNTERMINATED)		
	Neutral balance, no major flaws.		
	A little grain and smearing.		
	Waterbeach, Cambridge CB5 9PB.		
2	(01223) 203203		



#### **THE LAB REPORT**

The Crystal is not atypical of Audioquest's earlier, more complex so-called 'Hyperlitz' cable designs. This version utilises a helical array of both 18 and 20gauge conductors, drawn from long-grain and 'functionally-perfect' (cf PC-OCC) grades of copper respectively. The tight winding helps drag the inductance down to a moderate 2.75µH while reducing the high frequency impedance en route, though the surprisingly high 712pF capacitance and 37 MOhm leakage suggests the cable's dielectric is not of the highest quality. This overall performance is akin to that of earlier Audioquest cables which had a decidedly 'manipulative' quality. *PMI* 

1 INDUCTANCE	17%
2 CAPACITANCE	39%
3 RESISTANCE	53%
4 DIELECTRIC QUALITY	-80%
5 EFFECT ON SPEAKER'S FREQUENCY RESPONSE	17%
Better Voi 1 2 4	

#### **CABLE TALK TALK 3.1**

A classic variation on the standard 'figureeight' type, this cable has two quite thick stranded conductors (3mm<sup>2</sup> or thereabouts) insulated with thick PVC and spaced apart by some 5mm. It is moderately flexible. It was supplied for review fitted with the same cheap but good-quality Deltron gold-plated banana plugs as were used on at least half the cables.

Initial impressions of this cable were of a slightly harsh and brittle sound, but on extended listening it became clear that this was only a relatively minor effect to which one became accustomed. In fact this may be more of a sin of omission, as bass seems rather subdued. This tends to heighten the effect on midrange and treble. It's not that





low frequencies are missing — very low sounds, such as organ pedal stops, come through just fine — but when there's a lot going on in the music, bass lines tend to recede somehow. Likewise solo piano, which has a very wide spectrum, seems to lack some weight although its basic tonal qualities are quite well preserved. Apart from that, however, the sound is quite well

	CABLE TALK TALK 3.1 - VERDICT		
VA	UND ★★★☆☆ LUE ★★★☆☆ LICE £2.25/m MONO		
PI	A fair all-rounder.		
ŧ	Tends to lose the bass in complex music.		
	Cable Talk, Unit 12, Farnborough Business Centre,		
	Eelmoor Rd, Farnborough, Hants, GU14 7XA		
2	(01252) 373434		

#### THE LAB REPORT

Last tested in issue 133, Talk 3 has been upgraded to 3.1 with a higher-grade (6N purity) copper, arranged as 42x0.3mm strands per 'side' of this symmetrical cable. Furthermore, both signal and return conductors are *reversed* in their 'directionality', i.e. from amp to speaker (hot or signal) and speaker to amp (return). The loop resistance has now improved from 56 mOhms to 50 mOhms and the series inductance from 5.5 to  $5.1\mu$ H. Nevertheless, this still amounts to a total impedance of 0.64 Ohms at 20kHz, a fact appreciated by Cable Talk which is deliberately attempting to 'smooth' the potentially bright sound of some budget amplifiers. *PMI* 

	-28%
2 CAPACITANCE	86%
3 RESISTANCE	50%
4 DIELECTRIC QUALITY	-75%
5 EFFECT ON SPEAKER'S FREQUENCY RESPONSE	-21%
Better	5 rse

balanced and moderately detailed with a fair stab at imaging. It's not up with the best of the pricey cables here, but is very respectable at this modest price. It seems in order, then, to issue a Recommendation. *RB* 



#### **CHORD MYTH**

This flat cable consists of 14 single-strand conductors laid side-by-side, seven hot and seven return, with a 5mm gap between hot and return sides, giving very low capacitance. It is insulated in hard polythene and is rather inflexible, although it will stay where it's put if bent quite sharply. Only 1.4mm thick, it is evidently suitable for installation

## CHORD MYTH - VERDICT SOUND ★★☆☆ VALUE ★★☆☆ PRICE £5.95/M MONO (£30 TERMINATION CHARGE) ▲ Light, airy quality may please. ♥ Bass rather recessed, detail not outstanding. ☑ The Chord Company, 30a Sarum Business Park, Portway, Witts, SP4 6EA ⑫ (01722) 331674

under carpets. It was supplied fitted with Deltron 4mm banana plugs.

The Myth's sound turned out to be predominantly of the airy and light variety, with good midrange and treble but rather recessed bass. Superficially, detail seems to be excellent but in fact on prolonged exposure it becomes clear that the cable's apparent clarity is more a result of its tonal quality than a true delineation of separate musical strands, and it is hard to distinguish all the inner lines in a piece of music. It's an odd effect, and what's even odder is that music such as rock, which one would expect to be heavily compromised by such characteristics, actually seemed to be most flattered, while a simple violin and piano recording sounded rather thin and wiry. Orchestral music showed that the cable's imaging is fair but not great. Myth



is arguably not the most neutral or honest cable around, but its subtle filtering effect is not necessarily unpleasant and it might be worth an audition. *RB* 

#### THE LAB REPORT

Superficially, Chord's Myth looks a close technological cousin to Nordost's Octava. Both are flat cables employing a spaced array of parallel, single-strand conductors, though by employing a total of 7 cores for signal and 7 for return, Chord's Myth enjoys a lower 82 mOhm 5m loop resistance. Nevertheless, it's the geometry of the cable that increases its inductance and, in turn, the cable's treble impedance to some 0.48 Ohms. Meanwhile, the low capacitance and very low 340 MOhm leakage demonstrate the Myth's improved dielectric property. *PMI* 

1 INDUCTANCE	-5%
2 CAPACITANCE	90%
3 RESISTANCE	20%
4 DIELECTRIC QUALITY	80%
5 EFFECT ON SPEAKER'S FREQUENCY RESPONSE	-3%
Better 2 Wo	orse

#### **ON TEST : SPEAKER CABLES**

#### **DNM LSC350**

DNM was one of the first cable specialists, largely responsible for the founding of the solid-core movement in this country. This cable is typical of DNM speaker cables, with two thin single strands separated by a wide web, giving very low capacitance and high inductance — high enough to give a treble roll-off of undoubtedly audible magnitude. It also has high resistance and in very high power systems with low impedance speakers may even run warm. It is supplied with high-quality gold-plated banana plugs.

The DNM cable sound has been the subject of much debate. Certainly it's rather distinctive. Essentially it is light and airy, a little bass-shy but with good definition in the treble. As such, it suits certain musical





styles better than others, for instance being well attuned to unaccompanied female voice but less so to Mahlerian orchestra or heavy stride piano. Ultimately, however, I found it lacking in detail and rather two-dimensional, and although at first hearing it seems very detailed it is in fact difficult to keep a grasp on complex musical strands. The lack



#### THE LAB REPORT

Last tested as DNM Rainbow speaker cable way back in issue 109, this latest derivative is sticking to the tried-and-tested, single-strand, solid-core philosophy. Pros include a fabulously low 36pF capacitance and low 300 MOhm leakage, both linked to the dielectric quality and physical geometry of the cable. Cons include the high 536 mOhm 5m loop resistance, which influences bass quality, and the massive  $8.2\mu$ H inductance which increases the cable's impedance to 1.16 Ohms at 20kHz, and will influence the treble balance of many loudspeakers. *PMI* 

2 CAPACITANCE	
	94%
3 RESISTANCE	-90%
4 DIELECTRIC QUALITY	55%
5 EFFECT ON SPEAKER'S FREQUENCY RESPONSE	-78%



of bass is also a drawback. Nevertheless it is still worth auditioning as it clearly appeals to some tastes and is one of the most individual cables around. *RB* 



#### **GALE XL189**

This simple cable, highly reminiscent of some Monster Cable types of years gone by, is sold exclusively by Richer Sounds' shops at a budget 99p/m. Attractively (but malodorously) insulated in transparent polyurethane, it actually has rather less copper in its construction than it appears, thanks to the lens effect of the insulation. But it is still fairly chunky with about 1.5mm<sup>2</sup> of conductor. It is very flexible and easy to strip; it was supplied unterminated but we fitted cheap gold-plated banana plugs of the same sort as were used on the majority of other cables in the group.

At this price a cable is apt not to have any pretensions, and the Gale did a basically honest job without disgrace. On the one hand it didn't have anything like the refinement and detail of the best cables in the test (at 20 times the price, mind); on the other, beyond a certain rather bright and harsh quality, there was little to criticise. Everything's there: bass seems to go pretty deep and treble pretty high, and it is perfectly possible to listen for long periods with-



out distress. In the sort of system where any individual component will only cost as much as the most expensive cables in this test, this Gale is clearly a perfect choice and very cheap for its type. Which makes it, I think, an inevitable Best Buy. *RB* 

#### **THE LAB REPORT**

As the little brother to Gale's XL315 reviewed in issue 157, this XL189 derivative shares many of its features. The reduced cross-sectional area of each spaced, multi-stranded conductor has caused its resistance to rise from 69 mOhms to 115 mOhms, while the physical geometry of the cable maintains a high  $4.9\mu$ H series inductance (5m loop). This, in turn, bumps up the cable's impedance to some 0.63 Ohms at 20kHz. As with Cable Talk's 3.1, this may moderate inherent multi-strand grittiness while combating the treble 'brightness' of some amp/speaker combinations. *PMM* 

CAPACITANCE     RESISTANCE     DIELECTRIC QUALITY		
REDISTRICE	86%	CAPACITANCE
4 DIELECTRIC QUALITY	-2%	RESISTANCE
	-70%	DIELECTRIC QUALITY
5 EFFECT ON SPEAKER'S FREQUENCY RESPONSE	-19%	EFFECT ON SPEAKER'S FREQUENCY RESPONSE





#### **GOERTZ M1**

Representing the opposite extreme to DNM's thin, widespaced conductors, the M1 features two flat strips of copper some 20mm wide, spaced apart only by a thin layer of polyester insula-

#### GOERTZ M1 - VERDICT

# SOUND ★ ★ ★ ★ ★ VALUE ★ ★ ★ ★ ★ PRICE £16/m MONO ▲ Excellent sound right across the board. May upset some amplifiers; slightly impractical. ⊠ Townshend Audio, 7 Bridge Rd, Hampton Court, Surrey, KT8 9EU (0181) 979 2155

tion. This gives a claimed characteristic impedance of four Ohms (I found it to be nearer two Ohms), hence very high capacitance which may give strange results with a few amplifiers. One down-side of the construction is its fragility, and although it is fine for 'fit-and-forget' use, inveterate tweakers should beware of kinking the cable and splitting the insulation or even cracking the con-

ductors. Special banana plugs clamp directly on to the copper.

Practical or not, this cable certainly sounds the business. Of all the cables in the group, it clearly gave the widest, deepest and most clearly defined soundstage. Hitherto incognito instruments suddenly turned out to ve important lines to play and

have important lines to play and the general tonal balance seemed to relax into place. Marc-André Hamelin's piano playing took on the same weight and authority it possesses live, and full orchestra clearly consisted of 70 or so players in a

large space, rather than an ill-defined blob somewhere between the speakers. It really does appear to justify its price — but do consult your amplifier's manufacturer (or your dealer) before purchase, to ensure M1's eclectic character will not upset your amp. *RB* 

#### THE LAB REPORT

Comprising two thin strips of enamelled copper, laid on top of each other and isolated by a fine tape-like insulation, Goertz M1 is by any other name a capacitor unwound from its can. As the separating layer is none too secure, the cable's capacitance does vary with positioning, though a figure of around 11nF per 5m run is very close to the mark. This is 20-100 times higher than anticipated and could add extra 'zing' or 'edge' to the performance of your system if your amplifier's stability margins are compromised. This, rather than claims of 'impedance matching', is the key to Goertz's M1. *PMI* 

INDUCTANCE	75%
CAPACITANCE	-99%
RESISTANCE	65%
DIELECTRIC QUALITY	-91%
EFFECT ON SPEAKER'S FREQUENCY RESPONSE	68%





#### **KIMBER 4TC**

Kimber has been making cables similar to this one for a number of years, and it's clearly a very successful formula. There are eight individually-insulated strands (four per conductor), each in turn stranded beneath Teflon insulation, twisted together to give quite high capacitance in a sort of Litz construction. The cable is both flexible and rugged, and for review was fitted with good quality rhodium-plated banana plugs.

#### 

Kimber makes great claims for its advanced metallurgy and special techniques for applying the insulation, and also marks the cables for directionality — a highly arguable topic! (Yes, I did try it, and if there's a difference it's darned small).

Directional or not, this cable is clearly capable of fine performance. It gives a solid, three-dimensional image and has no obvious tonal aberrations. In a Chandos recording of Grainger orchestral works, it was one of the few cables that allowed listeners to hear clearly all the subtle changes in orchestration that characterise Grainger's writing, and it also presented the positioning of the various instruments well. Ultimately it was perhaps not quite as extended in the bass as the Goertz cable, and although it certainly did go down pretty



deep there was still some more weight to be brought out in various piano recordings I used. Overall, however, it's a very satisfactory cable of wide applicability and deserves Recommendation. *RB* 

#### THE LAB REPORT

I last tested this popular, long-standing cable nine years ago in issue 64. Since that time, while its distinctive multi-core/multi-gauge construction has remained intact, its technical performance has changed slightly. Whether this reflects slight changes in material quality over time is uncertain, but the resistance has reduced from 95 mOhms to 73 mOhms, and leakage has improved from 78 mOhms to >350 mOhms. Nine years on, this 4TC is probably wound fractionally tighter, causing a slight increase in capacitance to 734pF. Overall, the 4TC remains as impressive as ever. *PM* 

1 INDUCTANCE	53%
2 CAPACITANCE	38%
3 RESISTANCE	29%
4 DIELECTRIC QUALITY	87%
	100/



#### **ON TEST : SPEAKER CABLES**

#### **NORDOST OCTAVA**

This very slim (1.3mm) flat cable looks a lot like computer data cable, and is probably made on the same machines, but it uses single-strand conductors and has a single 'dummy' spacer in the middle. Four conductors per side are terminated in cheap but good-quality gold banana plugs. Because of the solid conductors and its thin PVC insulation, the cable is moderately flexible and can easily be formed to shape. In many ways it resembles the Chord cable also included in this group.

The resemblance doesn't entirely stop at looks, either, with Octava sharing the same essential lightness of touch. It perhaps has just the edge over Chord in its handling of bass, which seemed slightly fuller though still not quite as extended and effortless as it might be. Where it seemed to

NORD	OST OCTA	VA – V	13(1)	-



do a little less well was in its handling of treble detail, which was a little confused and grainy at times. This was particularly noticeable in orchestral music, where simultaneous strings, woodwind and percussion tended to merge and become indistinct. On piano recordings, there was more than a hint of 'zing' on high notes, and solo voices somehow seemed louder and more piercing than with many of the other cables. One

listener also felt that the orchestra sounded louder than with other cables. Imaging was no better than fair. Not so good, then; but cheap if you want an under-carpet cable. *RB* 



#### THE LAB REPORT

Aside from the sheer, carpet-friendly convenience of flat cables like the Nordost Octava, their spaced geometry usually promotes an exceptionally low capacitance, as do the Chord and DNM derivatives. The Octava's dielectric quality is slightly less impressive than its competitors, however, because both its capacitance and leakage are slightly higher than expected. The four solid conductors for signal, and a matching four for return, also increase its resistance to 125 mOhms, though this figure is still far smaller than the half-Ohm rating accorded to DNM's solidcore cable! *PMI* 

1 INDUCTANCE	-6%
2 CAPACITANCE	88%
3 RESISTANCE	-4%
4 DIELECTRIC QUALITY	-54%
5 EFFECT ON SPEAKER'S FREQ	UENCY RESPONSE -4%
Better	3 Wors



#### **QED PROFILE 4X4**

This flat cable looks effectively like four sets of bell wire laid side by side, although the connections actually have the two outer pairs combined as one conductor and the inner wires as the other, giving slightly higher capacitance than the otherwise similar Nordost and Chord cables in the test. The translucent insulation is quite soft and the conductors are stranded, so the cable ends

#### OBD PROFILE 4X4 - VRDICT SOUND ★★★☆☆ VALUE ★★☆☆☆ PRICE \$9.00/m MONO ▲ Good midrange and treble balance. ▼ Slack bass and lack of detail. ⊠ QED Audio Products Ltd, Ridgeway House, Ridgeway Close, Lightwater, Surrey, GU18 5XU 鞏 (01276) 451166

up quite flexible. It is also available in a biwire form. Deltron banana plugs are coldwelded, rather than soldered, to the ends.

Another fairly middling performer, this QED cable showed more aptitude with the upper frequencies than the lower, and although bass was only very slightly subdued it was definitely reduced in impact compared with the Goertz and Kimber cables. Extreme treble seemed to develop a very slight glaze which became somewhat irritating on some recordings, but for the most part the midrange and treble seemed well balanced and clearly defined. Once again, detail and imaging were the real stumbling blocks, and the full orchestra tended to become slightly indistinct and homogenised. In rock music, rhythms seemed a little less distinct than they should be; percussion and bass guitar were both



slightly slack and recessed. Solo piano lacked both weight and some of the subtle detail on the attack of single notes. Overall, then, this cable seems to offer little not available from cheaper types. *RB* 

#### THE LAB REPORT

In common with other flat cables of this ilk, QED's Profile uses four parallel, multi-stranded conductors for signal and return. However, by combining the inner pairs of conductors for return (ground) and the outer pairs for signal, QED has reduced the cable's inductance from around  $3.5\mu$ H to just  $2.0\mu$ H for a 5m loop, reducing its overall impedance at high treble frequencies. Sure enough, the parallel capacitance is increased to 223pF by way of recompense, but this will be of little or no consequence. All this plus a low 35 mOhm/5m loop resistance, adds up to pretty compatible speaker cable. *PMI* 





#### SILVER SOUNDS 12 GAUGE

Supplied unterminated, this cable has a distinctly homemade feel to it; the two conductors are loosely twisted together and can easily be separated. In fact each conductor

#### SILVER SOUNDS 12 GAUGE - VERDICT SOUND ★★★☆ VALUE ★★☆☆ PRICE £12/m MONO ▲ Quite neutral and with good solidity. ▼ Not the most detailed at the price. ⊠ Kronos Distribution, 35 Farlough Rd, Newmills, Dungannon, Co. Tyrone, BT71 4DU 2 (01868) 748632

plugs, this cable ranked as one of the better ones in the test, although it was still behind the Goertz. It exhibited good solidity with most

recordings and had a generally neutral tonal balance, although there was just a hint of 'zing' on solo piano. Bass was even and well extended, and in rock recordings a good solid rhythm section was not compromised. However, detail was not quite of the best and in the Grainger recording with its shifting orchestration it was not always possible to discern where in the orchestra the tune had in fact gone. This was not helped by some rather condensed stereo images. On

is nothing more than standard Teflon-insu-

lated equipment wire with 19 strands of sil-

ver-plated copper. Fair enough; but Silver

Sounds might at least have made it look

more finished, if only by binding the ends so

that the twist doesn't unravel. The

cable isn't very flexible but

can be bent in any direc-

tion and will tend to

of copper in it.

stay where it's put.

It's also quite slen-

der for the amount

Fitted with decent banana

#### THE LAB REPORT

Whatever the origins of this cable, its sonic performance is more likely linked to its traditional multistranded topology and choice of conductor purity than the equally traditional twisted-pair geometry. This tried-and-tested regime yields a modest  $3.3\mu$ H inductance and low 57 m0hm resistance, adding up to a worse-case impedance of 0.42 0hms, which is still sufficient to modify the balance of some loudspeakers in runs exceeding 5m or so. Leakage is low at 330 M0hms, thanks to Silver Sounds' choice of a high quality PTFE insulation. Low on innovation, nonetheless. *PM* 

INDUCTANCE CAPACITANCE	4% 83%
RESISTANCE	44%
DIELECTRIC QUALITY	70%
EFFECT ON SPEAKER'S FREQUENCY RESPONSE	6%



balance, then, a fair performer but not outstanding at the price. *RB* 



#### **SONIC LINK SILVER AERO \$300**

This chunky round cable is a simple 'figureeight' type, with two stranded conductors, each about 2.5mm<sup>2</sup> of silver-plated copper, insulated in silicone rubber and surrounded overall in white silicone rubber. It is moderately flexible and came for review fitted with Deltron gold-plated banana plugs.

S300 did poorly on the listening tests, with the principal criticism being of muddiness and smearing of detail. Although its



tonal balance seems largely neutral, it has a distinct tendency to smear the bass particularly, making rhythms sound lazy and bass lines unclear. There was also some loss of clarity in the midrange and treble, and overall it was quite hard to follow threads in the music. It should be said in mitigation that as with most cable transgressions this is quite a minor effect in the overall scheme of things, but it is still definitely audible and comes between the listener and the music.

Thus orchestral music and dense rock textures become impenetrable when they should be lucid; lighter textures, however, such as solo piano or voice, are less hampered and in fact piano had rather good attack, only becoming somewhat indistinct in the heaviest passages. Tenor saxophone lost some of its bite and an electric guitar



solo became almost polite. Not what's required. Perhaps in some systems this cable may be synergistic, but in the review system it had little to recommend it. *RB* 

#### THE LAB REPORT

Rather like the Silver Sounds cable that proceeds it, the failure of Sonic Link's Silver Aero S300 has more to do with the very traditional choice of tight, multistranding (which encourages non-linear inter-strand conduction) than any significant deviation in its basic LCR characteristics. As I explained nine years ago in issue 59 (June 1988), the effects of conductor purity, crystal structure, grain boundaries, skin-effect and non-linear surface conduction all contribute to the potential muddling and harshness imposed by a length of cable. And that's as true in 1997 as 1988. PMM



#### **ON TEST : SPEAKER CABLES**



#### SOUND ★★☆☆ VALUE ★★☆☆☆ PRICE £16.5/m MONO A Neutral at best, and can be exciting. Aggressive in complex music. Mollaton Audio, 134 Parkside, Wollaton, Notts NG8 2NP 20 (0115) 928 4147

XLO PRO 600 - VERDICT

instruments almost sound as if they have been piled together in a heap. As

long as there isn't too much going on everything is pretty much fine, with only a hint of grain detracting from a basically open sound, but when the going gets tough everything starts to collapse towards the centre of the image and detail is considerably compromised. It's not a gross effect but it was observed repeatedly with orches-

tral, jazz and rock music and while it can make for quite an exciting and immediate presentation in some ways, it is essentially a loss of information. Bass on the whole is quite solid, but tends to become recessed because of the collapsing image, which leads to brightness. Extreme treble seems just a shade bright and solo piano is in consequence slightly metallic, but gener-

#### THE LAB REPORT

Sifting back through my archives revealed XLO's Pro 600 to be a cost-effective derivative of the Type 0.6, reviewed in issue 133. Both cables share a similar geometry with around 24 strands wound in helical fashion around a core of high quality insulation. Both signal and return conductors are fashioned in the same way, then insulated and bound together as a twisted pair. This yields a mix of a moderate 233pF capacitance and  $3.1\mu$ H inductance which, together with the low 45 mOhm resistance, gives a betterthan-average 0.39 Ohm 20kHz impedance. Another generally compatible cable. *PMi* 

	9%
2 CAPACITANCE	78%
3 RESISTANCE	55%
4 DIELECTRIC QUALITY	90%
5 EFFECT ON SPEAKER'S FREQUENCY RESPONSE	10%
Better 1 2 3 4 W	orse

ally believable. A cable that might suit lovers of fast'n'loud music. *RB* 

#### CONCLUSIONS

n concluding this review, there is an obvious question: how much is it worth spending on a speaker cable? The answer hinges not on what more expensive cables seem to offer, but on the degree of difference they are likely to make in a system at a given price.

While the most satisfactory cable in this test is in fact the dearest (just), the cheapest was not necessarily the least pleasing, and in fact two of the more expensive cables came in for quite strong criticism. So it seems clear that cost alone is not necessarily a sure guide to cable quality. The notorious concept of 'system synergy' also applies, but even more important perhaps are the various ways in which different people hear the same sound. This has just been brought home to me anew

by the writings of the noted French audiologist Prof. Tomatis, whose published curves of listeners' sensitivity to different frequencies show very large variations between individuals and probably go a long way towards explaining the question of 'taste' in hi-fi.

Given all those considerations, then, I am going to suggest that you don't initially spend too much on cables. Instead, I find it more logical to concentrate on finding a basic ensemble of components that suits your tastes and only then splash out on fancy wires. They will almost certainly make a difference, but the point is that trying to balance up a system by juggling wires is often at best a compromise, at worst a nightmare. If instead you find a sound you like and then seek out cables which do the same thing, you are more likely to have happy results in the long term.

And finally, look at it this way: the difference between, say, a couple of good-quality 100 Watts power amplifiers could easily be a couple of hundred pounds. Any of the cables reviewed here, terminated and all, will come in for that much or less. If a good cable can save you an upgrade, surely it has been money well spent.

In awarding only one Best Buy and three Recommendations, I am not trying to imply that all the other cables are not worth trying.

Nevertheless, those four seemed on test to offer particularly fine results for their price. **Gale's XL189** is hard to fault, given that it costs barely more than 13A mains cable and is a lot more practical. It represents a rough-and-ready average of different cable 'flavours' that you might find on offer, and as such is as good a place as any to start out from. So particularly for the first-time system buyer and those seeking to replace some lamentable bit of bell-wire given away with an existing system, it is certainly a Best Buy.

**Cable Talk's Talk 3.1** may not be the ultimate in balance and refinement either, but it is a decent performer for a modest price. It is also fairly representative of quite a few similarly constructed cables, several costing rather more, and is therefore worth trying as an alternative you might like. If you find yourself drawn to hi-fi components described in reviews as 'giving good control' or 'punchy' I suspect this cable may be much to your tastes.

**Kimber 4TC** (also available in bi-wire version) is a considerably more refined piece of wire capable of effecting a surprising improvement in detail and smoothness. As high-end cables go it's very practical, and unlikely to upset amplifiers.

However, my vote for 'best of the test' goes to **Goertz M1**, a revealing cable with astonishing subjective bass performance and a relaxed, detailed, extended midrange and treble. The only rider to this is that some amplifiers will become unstable when connected via such a high capacitance cable. Goertz distributor Townshend Audio offers a small terminating network which, connected across the speaker terminals, claims to restore a largely resistive load condition and ensure stability. But anyone worried about possible deleterious effects should consult their amplifier manufacturer and/or dealer before investing in this wire.

Subjective tests were carried out with cables inserted between a pair of EAR 519 amplifiers (valve, 100W, output impedance 0.4 Ohm resistive) and a pair of ATC SMC20 speakers (2-way sealed box). *RB* 

#### **XLO PRO 600**

This is another variation on the 'figureeight' theme, this time with two conductors loosely twisted together and enclosed overall in a transparent sheath of what looks like unshrunk heatshrink

sleeve. Each conductor appears to consist of a tightly wound spiral of strands under a hard plastic insulation. Like the Kimber, the cable is marked for directionality, and again I failed to confirm this in practice.

Although the Pro 600 has a neutral enough signature, it seems somehow to give a slightly strangulated sound in which

## "It's a rare combination of superb sound, and terrific value" WHAT HI\*FI?

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

ABERDEEN Sevenoaks Hi-Fi 01224 587070 ACCRINGTON Cryers 01254 391440 AI DEBLEY EDGE Aston Audio 01625 582704 AVI ESBLIRY Nood Audio II 01296 28790 BANBURY 01295 259859 BANGOR 1 & H Griffiths 01248 370655 BARKING Hyper-Fi 0181 591 6961 BARNSTAPLE J & A Video Centre 01271 24384 BARROW-IN-FURNESS Sevenoaks Hi-Fi 01229 838757 BASINGSTOKE Audio T 01256 24311 BATH Moss of Bath 01225 465085 Paul Green Hi-Fi 01225 316197 BECKENHAM Musical Images 0181 663 3777 BEDFORD Richard's A.V. 01234 365165 Sevenoaks Hi-Fi 01234 272779 BELFAST Audio Times 01232 249117 **Richer Sounds** 01232 321332 BIDEFORD J & A Cameras 01237 421791 BIRMINGHAM Empire Superstore 0121 643 0972 Music Matte 0121 429 2811 Ma 0121 742 0254 Norman H. Field 0121 622 2323 **Richer Sounds** 0121 643 1516 Sevenoaks Hi-F 0121 233 2977 Superfi 0121 631 2875 BISHOP'S STORTFORD he Audio File 01279 506576 BLACKBURN 01245 51842

Romers Hi-Fi 01254 887799

ractical Hi-Fi 01253 300599 BLOXWICH Sound Academy 01922 473499 BODMIN FTS. 01208 75579 BOLTON Cleartone 01204 531423 Practical Hi-Fi 01204 395789 Sound & Visior 01204 701711 BOURNEMOUTH 01202 529988 Suttons 01202 555512 BRACKNELL B&B Hi-Fi 01344 424556 BRADFORD Erricks 01274 309266 BRENTWOOD Hi-Spek Electro 01277 226303 BRIGHTON Richer Sounds 01273 673333 The Powerplant 01273 775978 BRISTOL Audio Excellence 0117 926 4975 **Richer Sounds** 0117 973 4397 BROMBOROUGH CROSS Peter's Hi-Fi 0151 344 1874 BROMSGROVE 01527 872460 BURY ST. EDMUNDS Sevenoaks Hi-Fi 01284 753776 CAMBORNE ETS 01209 712344 CAMBRIDGE Campkins Hi-Fi 01223 312240 The Audio File 01223 368305 University Audic 01223 354237 CANTERBURY Canterbury Hi-Fi 01227 765315 CARDIFF Audio Excellence 01222 228565 Richer Sounds 465654 CARLISLE Practical Hi-Fi 01228 44792 CASTLEFORD Eric Wiley Hi-Fi 01977 556774 CHELMSFORD 01245 355666

CHELTENHAM EDINBURGH Bill Hutchinson Audio 1 01242 583960 0131 220 0909 Bill Hutchinson 0131 667 2877 Sevenoaks Hi-Fi 01242 241171 CHESTER **Richer Sounds** 0131 226 3544 Audio Excellence ENFIELD 01244 345576 Peter's Hi-Fi 0181 367 3132 01244 319392 Sevenoaks Hi-Fi 0181 342 1973 CHIPPENHAM ID Steren Center EPPING 01249 654357 Chew & Osborne 01992 574242 CHORLEY Monitor Sound EXETER 01257 271935 Audio Excellence CONGLETON 01392 491194 EXMOUTH The Hi-Fi Sho 01260 280017 Exe Video 01395 278 558 FALKIRK COVENTRY Frank Harvey Hi-F 01203 525200 Hi-Fi Corner 01324 629011 Superfi FOLKESTONE 01203 223254 Halksworth W CREWE 01303 255688 Cloughs A.V. V.J. Hi-Fi 01203 256860 01270 257030 CROYDON GATESHEAD Audio Tech 0181 680 1177 Lintone Audio 0191 460 0999 Lintone Audio **Richer Sounds** 0181 667 1100 0191 477 4167 Sevenoaks Hi-Fi GLASGOW 0181 655 1203 Bill Hutchinson 0141 248 2857 0181 654 1231 Glasgow Audio 0141 332 4707 Zebra 0181 688 2093 Richer Sounds 0141 226 5551 DARI INGTON Hi-Fi Experier The Music Room 0141 332 5012 01325 481418 GLOUCESTER DERBY Audio Excelle Superfi 01452 300046 01332 360303 DEVIZES Phototopic 01452 503691 Rutters Hi-Fi 01380 722268 GODSTONE Surrey Hi-Fi 01883 744755 DOUGLAS Island C.D. 01624 674505 GUILDFORD Rogers Hi-Fi 01483 561049 DUBLIN 2 Hi-Fi Corner 0 1 671 4343 Sevenoaks Hi-Fi 01483 36666 Richer Sounds 0 1 671 9666 HALIFAX DUBI IN 4 01422 366832 The Sony Centre 0 1 667 0990 HARROW Harrow Audio 0181 863 0938 DUNDEE HASTINGS J.D. Brown 01382 226591 01424 437165 W.M. Coupar HEI STON 01382 229588 E.T.S. 01326 573285 DUNSTABLE Technosound HEREFORD 01582 663293 EASTBOURNE Smythe & Barrie 01323 729192 B&B Hi-Fi EAST GRINSTEAD 01494 535910 The Sound Gall 01494 531682 Audio Designs 01342 314569 EDGWARE HOUNSLOW Musical Images 0181 952 5535 0181 569 5802

HUDDERSFIELD Huddersfield Hi-Fi 01484 544668 HULL A Fanthorpe 01482 223096 Superfi 01482 324051 Zen Audio 01482 587397 ILFORD Audio T 0181 518 0915 PRC Hi-Fi & Video 0181 514 7449 INVERNESS The Music Station 01463 225523 IPSWICH Eastern Audio 01473 217217 KETTERING Classic Hi-Fi 01536 310855 KINGS LYNN Martins Hi-Fi 01533 761683 KINGSTON UPON THAMES Infidelity 0181 943 3530 Richer Sounds 0181 549 9999 Sevenoaks Hi-F 0181 547 0717 LANCASTER Practical Hi-Fi 01524 39657 LEEDS Bill Hutchinson 0113 242 7777 Empire Supers 0113 235 1701 **Richer Sounds** 0113 245 5717 0113 244 9075 LEICESTER Cymbiosis 0116 262 3754 Leicester Hi-Fi 0116 253 9753 May's Hi-Fi 0116 262 5625 Richer Sounds 0116 255 4656 Sevenoaks Hi-Fi Huddersfield Hi-F 0116 255 7518 The Stereo Shack 0116 253 0330 LINCOLN Superfi 01522 520265 LIVERPOOL Beaver Hi-Fi 0151 709 9898 Better Hi-Fi 0151 227 5007 **Richer Sounds** 0151 708 7484 LLANDUDNO Peter's Hi-Fi HIGH WYCOMBE 01492 876788 LONDON A&M Electronics 0171 580 1577 0181 567 8703

LONDON Audio T 0171 794 7848 Bartletts Hi-Fi 0171 607 2148 Brians Hi-Fi 0171 631 1109 Chelsea A.V. 0171 352 2596 Cornflake Shop 0171 631 0472 Francis of Streat 0181 769 0466 Grahams Hi-Fi 0171 226 5500 Hi-Fi Care Hi-Fi Care 0171 637 8911 Hi-Fi Confidential 0171 233 7225 Hi-Fi Components 0171 223 1110 Hi-Fi Surplus Store 0171 323 6712 Hi-Spek Electronics 0181 349 1166 Kamla Electron 0171 323 2747 KJ West One 0171 486 8262 Kerco Electroni 0181 743 3698 Martin-Kleiser 0181 400 5555 M. O'Brien Hi-Fi 0181 946 1528 Musical Images 0171 497 1346 Myers Audio 0181 520 7277 Oranges & Lem 0171 924 2040 PRC Hi-Fi & Video 0181 470 3499 Richer Sounds 0171 352 8496 **Richer Sounds** 0171 403 1201 **Richer Sounds** 0171 722 3359 0171 831 2888 **Richer Sounds** 0171 626 8006 Sevenoaks Hi-Fi 0171 352 9466 noaks Hi-Fi 0181 855 8016 Sevenoaks Hi-Fi 01376 501733 0171 323 0333 Spatial Audio 0171 637 8702 Superfi 0171 388 1300 The Hi-End 0181 876 3355 The Sound Organisation 0171 403 2255 OSSIEMOUTH John Munro 01343 812340 LUTON B&B Hi-Fi 01582 459915 MACCLESFIELD Philip Dooley 01625 264666

MAIDSTONE th Wheeler 01622 756756 Sevenoaks Hi-Fi 01622 686366 MANCHESTER Bill Hutchinson 0161 832 1600 Central Radio 0161 834 6700 Practical Hi-Fi 0161 839 8869 Superfi 0161 835 1156 The Hi-Fi Room 0161 832 0888 MARGATE V.J. Hi-Fi 01843 226977 MARKET The Auditorium 01858 461460 MIDDLESBOROUGH Gilson Audio 01642 248793 MILTON KEYNES Technosound 01908 604949 NELSON Wilkinson's Hi-Fi 01282 612901 NEW MALDEN Grandix 0181 336 0012 NEWBURY B&B Hi-Fi 01635 32474 NEWCASTLE Bill Hutchins 0191 230 3600 **Richer Sounds** 0191 230 1392 NEWPORT Hi-Fi Western 01633 262790 NEWQUAY Quartetdeck Music 01637 851441 NEWTOWNARDS Moore's Hi-Fi 01247 812417 NORTHAMPTON Listen Inn 01604 37871 NORWICH Basically Sound 01508 570829 Martins Hi-Fi 01603 627010 Richer Sounds 01603 620860 Sevenoaks Hi-Fi 01603 767605 NOTTINGHAM Forum Hi-Fi 0115 962 2657 John Kirk 0115 925 2986 Richer Sounds 0115 924 1551 0115 941 2137 OBAN Frank Walton Hi-Fi 01631 62917 OLDHAM Audio Counsel 0161 633 2602

OTLEY Aston Audio 01943 467689 OXFORD Audio T 01865 65961 Oxford Audio Consultants 01865 790879 Sevenoaks Hi-Fi 01865 241773 PENZANCE E.T.S. 01736 64274 PERTH W.M. Coupar 01738 634809 PETERBOROUGH Audio Vision 01733 352752 The Hi-Fi Company 01733 341755 PLYMOUTH The Hi-Fi Attic 01752 669511 Richer Sounds 01752 222256 POOLE Movement Audio 01202 730865 PORTSMOUTH Now That's Hi-Fi 01705 811618 Now That's Hi-Fi 01705 811230 PRESTON Audio Excellence 01772 253057 Practical Hi-Fi 01772 883958 PRESTWICH **Richer Sounds** 0161 773 0333 RAMSEY Island C.D 01624 815521 READING Audio T 0118 958 5463 B&B Hi-Fi 01734 583730 Reading Sony Centre 0118 950 0350 01734 591111 Sevenoaks Hi-Fi 0118 9597768 RICHMOND Riverside Hi-Fi 0181 892 7613 ROSSENDALE Cryers 01706 216305 ROTHERHAM Moorgate Acoustics 01709 370666 SAFFRON WALDEN Chew & Osborne 01799 523728 SALE Hi-Fi Stereo 0161 973 5577 SALISBURY SALISBURY Salisbury Hi-Fi 01722 322119 SCARBOROUGH Audio One 01723 355654

TRURO E.T.S. enoaks Hi-Fi 01872 79809 TUNBRIDGE WELLS oaks Hi-Fi Seve 01892 531543 Moorgate Acoustics TUXFORD nr. Newark Chantry Audio 01777 870372 UXBRIDGE Uxbridge Audio SHREWSBURY 01895 465444 WALLINGFORD Astley Audio Shropshire Hi-Fi 01491 839305 WARRINGTON Doug Brady Hi-Fi 01925 828009 Practical Hi-Fi SOUTHAMPTON 01925 632179 WATFORD Hi-Fi City Southampton Hi-Fi 01923 226169 **Richer Sounds** 01923 218888 Sevenoaks Hi-Fi 01923 213533 WEYBRIDGE Cosmic 01932 854522 WEYMOUTH Weymouth Hi-Fi 01305 785729 WILMSLOW Swift Hi-Fi 01625 526213 WITHAM oaks Hi-Fi Seve 01376 501733 WOKING Bartletts Hi-Fi 01483 771175 WOLVERHAMPTON Superfi 01902 772901 STOURBRIDGE WORCESTER oaks Hi-Fi 01905 612929 West Midlands Audio 01905 458046 WORTHING Bowers & Wilkins Audio Excellence 01903 264141 Phase 3 Hi-Fi 01903 245577 WREXHAM Acton Gate Audio 01978 364500 YEOVIL Mike Manning Audio 01935 79361 VORK THORNTON HEATH Vickers Hi-Fi 01904 629659

SEVENOAKS

01732 459555

SHEFFIELD

Audio Images

0114 273 7893

0114 275 6048

**Richer Sounds** 

0114 266 1616

0114 272 3768

Creative Audio

01743 241924

01743 232317

Frasers Hi-Fi

01753 520244

**Richer Sounds** 

01703 231311

01703 228434

ST. ALBANS

Radlett Audio

01727 855577

ST. AUSTELL

01726 75400

ST. NEOTS

A N Audio

01480 472071

Audio Vision

STAMFORD

01480 471202

Stamford Hi-Fi

01780 62128

STOCKPORT

**Richer Sounds** 

0161 480 1700

Living designs

01782 260047

01782 265010

Music Matters

01384 444184

STRATFORD

Stratford Hi-Fi

01789 414533

01792 474608

01792 773644

01793 538222

Thame Audio

01844 215431

0181 653 3657

Quinn's A.V.

SWINDON

Audio T

THAME

AWE

SWANSEA

STOKE

Superfi

FTS.

SLOUGH

Superfi





1995

1996

Best Interconnect & Highly Recommended Speaker Cable

Best Interconnect & Best Speaker Cable

Best Speaker Cable

dams & Jarrett

nglish Audio 1432 35508

Cable Talk scooped the top honours for Best Cables in the WHAT HIXFI? Awards 1996

Interconnects: Monitor 2 Speaker Cables: Talk 3.1 Doesn't your system deserve the best?

& Speaker Cables



For further information please write to: Cable Talk, Unit 12, Farnborough Business Centre, Eelmoor Road, Farnborough, Hants, GU14 7XA. Tel: 01252 373434 Fax: 01252 371818

Please quote HFC 07/97





**Alvin Gold** (listening test) and **Paul Miller** (lab test) round up 14 of the best amplifiers from the mid-priced sector of the market.

ast month, as a prequel to this month's test, we looked at a small group of five inexpensive integrated amplifiers. This month we continue with the same theme, except that the price band starts at just under £400 and goes through to £945, and the number of amplifiers tested has jumped up to 14. The range covers an important band broadly aimed at the second-time buyer, where price remains an important issue, but performance takes precedence.

At first sight, it's difficult to pin down the benefit delivered by spending more than you'd have forked out for last month's contenders. Extra Wattage is one obvious advantage, but on examination the real volume gain is seldom more than 2–3dB, and is sometimes less than that. Is it features, then? Not likely. Only two of this month's testees are seriously well kitted out (Arcam Alpha 9 and Pioneer A-605R) and the bottom line is that on average, this month's models have probably less controls than last month's.

There is one rather obvious difference. Most of this month's units are quite a bit

THE CAST	LIST
MODEL	PRICEPAGE
Alchemist Nemesis	£650.00p69
AMC CVT3030A	£399.95p59
Arcam Alpha 9	£499.90p71
Copland CSA8	£945.00p77
Cyrus SL	£398.00p61
JoLida 202	£695.00p78
Marantz PM-66 KI Signature	£399.90p63
Musical Fidelity A220	£699.99p79
NAD 317	£469.95p65
Pioneer A-605R	
Prime Design A-100	£650.00p73
Quad 77fror	n £699.95p80
Roksan Caspian	£695.00
Rose Scion	

#### **HOW THE TESTS WERE DONE**

Our 14 amplifiers were subject to a full battery of tests, including a close physical examination, unsighted panel-based listening tests in a high-grade system, hands-on listening using a range of speakers and source components (including records) and a computerised measurement test programme. Each amplifier was run in and warmed up prior to being auditioned. In total this represents by far the most involved programme of tests that any magazine employs to judge hi-fi products.

Listening panel testing was conducted over a period of two days, and included a number of repeats, with no panel member knowing the identity of the equipment on test, and with levels carefully equalised between test runs. The system used for these tests included a Copland CDA-277 CD player and Castle Howard S2 loudspeakers, with cables from Nordost, and Alphason equipment supports. The hands-on listening was widened to include Sonus Faber Concertos and Ruark Crusader II floorstanding speakers, Tannoy Mercury M2 compacts, a Roksan Caspian CD player and an Alphason Solo turntable with Goldring MM cartridge. All equipment was sited on Mana isolation supports.

#### WHAT MUSIC DID WE USE?

Allison Krauss: / Will from Now That I've Found You;

on Rounder CD0325 Poulenc: Allegro Tristamente from Sonata for Clarinet and Piano. Victoria Soames (clarinet), Julius Drake (piano); on AVM AVZ3031

Ry Cooder: Flashes from Jazz; on Warner Bros 7599-27355-2

Walton: In Babylon Belshazzar the King from Belshazzar's Feast. Bournemouth SO, Wayflete Singers/Andrew Litton (cond); on London 448 134-2 Assorted other albums used for hands-on testing.

#### THE LISTENING PANEL

Our unsighted listening tests were conducted by a team of 'golden ears' drawn from the ranks of the hi-fi industry: David Inman (The Audio Marketing Department) Alan O'Rourke (Ruark Loudspeakers) Alan Shore (Harbeth Loudspeakers) Jonathan Jordan (The Audio Partnership) Robin Marshall (Mission) Jason Kennedy (Hi-Fi Choice)



heavier than last month's, though at first sight it's not obvious how this translates into improved sound quality. However larger transformers, heftier power supplies and bigger heat sinks should mean more real-world dynamic power; while the combined effect of extra voltage and current should reduce an amp's dependency on the

#### UNDERSTANDING OUR BAR-GRAPHS AND GROUP AVERAGES

There will be significant differences
 between the cheapest product in our
 test and the most expensive. For this reason
 we always segregate our test candidates
 into two or more categories based on price.
 Our aim is to assess every product's performance in the context of its closest rivals.
 Each lab-report panel is colour-coded
 according to the key given below:



load it has to drive and the volume level it is aiming to reproduce. A good design should perform more consistently within the volume range it is asked to encompass.

Of course there are other differences. Fewer knobs and controls bestow their own advantage, as does every measure taken by the manufacturer to reduce complexity and shorten signal paths. Anyone who's owned a half-decent system will surely have discovered that tone controls and suchlike do very little to help, in most circumstances anyway.

This month's group also boast improved components, tighter tolerances, and more extravagant circuit techniques. None of these things in themselves necessarily guarantee better sound quality, but on the whole this month's group is a strong showing which has thrown up a handful of genuinely talented amplifiers. To find out which I'm referring to, turn the page! AG

#### UNDERSTANDING OUR BAR-GRAPH MEASUREMENTS

The measurements behind *Hi-Fi Choice's* unique bar-graphs are provided by our Technical Editor, Paul Miller, using both GPIBcontrolled 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.

#### **1 Dynamic Power Output**

A measure of power up to one per cent distortion under realistic, music-like conditions, using a brief (20msec) transient signal and a model eight Ohm speaker load.

#### **2 Speaker Load Tolerance**

This indicates how ably the amplifier maintains a given level of performance into progressively lower-impedance, more difficult speaker loads. **3 Audible Distortion** 

Rather than quote a single figure for distortion at one frequency and level, this bar value represents a measure of distortion and its consistency across both the whole audioband and the amplifier's entire dynamic range. **4 Noise** 

This is a direct representation of the amplifier's A-weighted Signal-to-Noise (S/N) ratio at 1W output into a model eight Ohm load.

#### **5 Susceptibility to RFI** Various forms of Radio Frequency noise can induce audible, dynamic variations in the amplifier's S/N ratio. A susceptibility to this effect is demonstrated by a negative-going bargraph.





### UPGRADEABLE HI-FI.



#### WHATEVER WILL WE THINK OF NEXT?

You've thought long and hard about choosing the right sound system. You think you've found what you're looking for. It looks great. It sounds even better. And it's within your budget. So how come you still have that niggling doubt in the back of your mind? Simple. Before you make your final decision, you want to be sure that two, five, even ten years down the line, you're not going to regret it. Unlike most hi-fi manufacturers, we understand completely. We've already set the standard by offering legendary sound quality in every price category. What we're about to do will rewrite the rules. Because every piece of Arcam equipment now comes with something that will radically change the way you buy hi-fi. A unique modular design that will allow you to upgrade your sound system just as soon as technology (or your wallet) allows. If you'd like to hear more about Arcam's revolutionary upgradeable components, call now on **(01223) 203203.** 

You can write to us at: Arcam, Pembroke Avenue, Cambridge CB5 9PB, England. Fax: (01223)863384. Or visit our web site at: www.arcam.co.uk

In Australia: Stolmack Audio Pty. Ltd., P.O. Box 139, St. Ives, N.S.W., 2075. Tel: 02 440 8755. In Canada: Emerald Audio Resources, Sussex P.O. Box 19016, 720 Spadina Avenue, Suite 100A, Toronto, Ontario, M5S 3C9. Tel: (416) 596 7657. In New Zealand: Avalon Audio, 587 Mount Eden Rd., Auckland. Tel: (09) 369 9000. In South Africa: Hi-Fi Specialists, Durban Road 155, Bellville. 7535. Tel: (021) 946 1441. In USA: AudioInflux Corporation, P.O. Box 381, Highla: 1 Lakes, NJ 07422. Tel: (201) 764–8958.

# AMC CVT3030a

he world's most competitively-priced valve amplifier" screams the promotional copy (para 2, line 9), and for once this may be the case. Certainly, a fully-fledged valve amp (well, a hybrid MOS-FET design with a valve output stage) which tips the scale at just £400, sounds like remarkable value. The output stage employs a pair of EL34s on each channel, for a rated 30 Watts per channel power output, though it sounds like more.

At this price you would not expect, and neither do you get, Rolls-Royce standards of construction, but build quality does appear to be adequate. The 3030a is based on the now long-running 3030, but with improvements aimed at increasing reliability and performance. The amp has a moving magnet phono input, five line inputs and a tape circuit with off-tape monitoring, plus tone controls with a 'direct' bypass facility (switchover is very noisy if activated before the temperature stabilises) and a headphone socket. Balance is adjustable, but no user biasing of the output valves is allowed.

The amplifier is boxed like a standard solid state design; only the orange gleam of the vacuum tubes through the perforated cover gives the game away, though the curi-

	VERDICT
V	UND ★★★☆☆ LUE ★★★★☆ LICE £399.95
	A great amplifier for the shortlist, which hints at high-end valve virtues for a giveaway price. Modest build quality, slightly untidy and load-
	dependent performance which can lack refinement. Tangent Acoustics UK, 115 New London Road,
2	Chelmsford, Essex CM2 0QT. (0500) 828620



#### erwise wonder why the amp is

so heavy (11.8kg!), or so noisy. The noise comes from a pair of fans which are needed to keep the circuit and the outer casing on the right side of the law. The noise character is fairly benign, but high enough in level to be potentially irritating. Electrical noise through the line inputs is low, though it may be audible, especially with speakers which are very bright or very sensitive, and the phono input was marred by hum with a significant high-frequency harmonic content.

#### **Sound quality**

The AMC scored impressively on test, none of the panel apparently recognising that it was a valve amplifier (which is as it should be, of course), though they would probably have guessed had they been any closer to the unit, and been able to hear the healthy swishing noise from its twin cooling fans. A lack of absolute neutrality was also recognised at least by one panel member, who scored the amp highly "because I like a mellow sound!".

Other panel members were less trenchant in their comments, but the 3030a's "naturalness", "warmth" and "smoothness" were widely recognised. One described the Alison Krauss track as having a "firmer bass line" than usual, and for being "a little schmaltzy

but quite dynamic". The Ry Cooder track was described as "feeling good" with "plenty of presence", and the Walton as "suitably spacious, with an airy bass, and a breathing quality", all attributes frequently associated with valve amplifiers.

I was surprised at the AMC's ability to rock and roll. The balance is a bit rich, and it lacks the delicacy and subtlety of the best valves (or the JoLida — see page 78) but the AMC has an energetic, driving quality unusual at the price, irrespective of technology. With refined, detailed speakers like the Sonus-Fabers, however, the amplifier sometimes sounded congested and lacking in fine detail, and the character of its sound does change markedly from speaker to speaker.

#### Conclusion

Although too particular in its virtues and vices for a blanket endorsement, the CVT3030a hints at the grace and euphony of more costly valve amps, backed by a surprisingly solid low-frequency performance. Not the most neutral choice at the price then, but with benign electrical loads (look for an easy impedance curve — or consult your dealer) this is a very interesting option. *A*G

 $\blacktriangleright$ 

### THE LAB REPORT

The 'a' suffix refers to AMC's enhancement of its basic 3030 amplifier with higher quality valve and passive components, but as we've not tested the 3030, no direct comparison can be mounted. Either way, the 3030a is traditional enough to suffer a limited low frequency power output (just 7W at 3 per cent THD at 20Hz) while its 1.2 Ohm source impedance will surely modify the response of many speakers. The 'rich' balance reported by our listeners is a direct reflection of this.

As expected, its output picks up to 37W through the midrange with a dynamic output of 42W that's still some way behind the other amplifiers in this test. High sensitivity, easy-to-drive speakers will be vital. Meanwhile, rejection of RF interference is surprisingly good for a valve design, but this must surely be linked to AMC's brick-wall filtering which features an almost CD-like cut-off beyond 43kHz — very unusual.

Within the audioband, noise is some 5-10dB higher than that achieved by its solid-state competitors, helping (in part at least) to disguise the oddorder distortions that increase with growing power through bass and midrange (0.04-0.35 per cent), and leaving a stronger second harmonic to dominate at higher (treble) frequencies. *PM* 

### HOW IT COMPARES



For Fast 'n Free 24 hr UK Mail Order Contact: 0181 852 1321

SOUND · SY 248 LEE HIGH RD, LONI PHONE: 0181 318 5755 FAX: OPEN: 10AM - 6.30PM MON - S	0181 318 0909	THE CHOIC We carry the finest rate can be sure that any here are on display and ave experienced staff are alway possibilities open to you. The Free, for the most flexible
THE PRODUCTS		://www.billyvee.demon.co. s@billyvee.demon.co.uk
ARCAM New Range		DOSE YOUR DEPOSI E AND AMOUNT*
AVI Products		
B & O New 6 play CD		
B & W		
CHORD COMPANY		
DENON		
EPOS		
KEF		
LINN		
All - inc: Knekt	0	
& the New AV 51		
MARANTZ		
MORDAUNT SHORT		
MISSION		
MYRYAD		
NAIM AUDIO		
New Intro,Credo		
N.A.D		
<b>PIONEER</b> <sub>*</sub>		
CD Player/Recorder		
ProAC		
REGA		
ROTEL		
SENNHEISER	*MIN LOA	N £350 - MIN DEPOS
SOUNDSTYLE		SE CALL FOR DETA
TANNOY	GOODS PRICE £1000	GOODS PRICE £2500   GOODS PRICE
TARGET	DEPOSIT £100 BALANCE £900	DEPOSIT £500 DEPOSIT BALANCE £2000 BALANCE
YAMAHA	12 MTHS @ £75	20 MTHS @ £100 24 MTHS @

#### THE CHOICE IS TRULY YOURS e carry the finest range of Hi-Fi in London and you can be sure that any of the products you see advertised here are on display and available for audition. Our helpful experienced staff are always on hand to help explore the possibilities open to you. This month - check our Interest Free, for the most flexible way to buy what you really want!

T & FIRM FAVOURITES complete - SYSTET Denon DC1 Micro inc Spks £379 Denon D-F07 System	MS .00 .00 .00 TS .00 .00 .00 .00
Denon DC1 Micro inc Spks £379 Denon D-F07 System	.00 .00 TS .00 .00 .00 .00 .00
Denon D-F07 System	.00 .00 TS .00 .00 .00 .00 .00
Denon F10CD/TunerAmp/Cass. £899 source - COMPONEN Arcam Alpha 7 CD (NEW!)£319 Arcam Alpha 8 CD (NEW!)£1519 AVI S2000MC CD Player£1399	.00 TS .00 .00 .00 .00 .00
<i>source</i> - COMPONEN Arcam Alpha 7 CD (NEW!) £319 Arcam Alpha 8 CD (NEW!) £519 AVI S2000MC CD Player £1399	TS .00 .00 .00 .00 .00 .00
Arcam Alpha 8 CD (NEW!) £519 AVI S2000MC CD Player £1399	.00 .00 .00 .00
AVI S2000MC CD Player £1399	.00 .00 .00 .00
	.00 .00 .00
Linn Karik Player£1850	.00
Marantz CD46 (Special)£109	.00
Marantz CD 67se (NEW!) £349	
Marantz CD63se Signature £499 Naim CD 3 Player£1000	
Naim CD2 Player£2000	.00
Rega Planet CD Player (NEW!) £399	.00
Rega Planar 3 inc arm£274	
Linn LP12 - combinations from £1488 selected - AMPLIFIE	
Arcam Alpha 8 (NEW!) £349	
AVI S2000MI (line) Amp £799	.00
Denon 350se Amplifier (NEW!) £199	
Linn Majik (line level) £650 Linn Kairn Pro Preamp£1400	
Marantz PM66se amplifier £229	
MYRYAD M120 (Rem) £529	.00
Naim Nait 3 Amplifier £575	.00
Naim NAC 82 Preamp £2160 Naim NAP 180 Power Amp £1060	.00
Pioneer A300R Precision (NEW!) £399	
Rotel RA 930x Amplifier £149	
Rega Brio Amplifier £229	
am/fm - TUNE	
Arcam Alpha 7 Tuner £229 Linn Kremlin FM Tuner£2600	
N.A.D. 412 Tuner£189	
Naim NAT 03 FM Tuner £566	
Rega Radio Tuner£229.00	
<i>selected</i> - RECORDE Denon DRM 550 Cassette £159	
Pioneer CT-830S Cassette £499	
Pioneer PDR-05 CD Recorder £1299	.00
Yamaha KX390 Cassette £149 Yamaha KX580 Cassette £249	
<ul> <li>ramana KA580 Cassette</li></ul>	
B&W DM 302 £129	
B&W DM 601£199	.00
B&W DM 602£299	.00
B&W CDM 2 £400 B&W P4 Speakers £675	
Epos ES12 (NEW!)£499	
Linn Tukan Mini Monitor£550	0.00
Linn Keilidh Speakers £750	
Mission 751 Freedom (NEW!) £348 Mission 752 Freedom (NEW!) £578	
Morduant Short MS0.5 (NEW!) £99	
Mordaunt Short MS10i £139	
Naim INTRO (NEW!) £596	
Naim CREDO (NEW!)         £987           ProAc Response 2.5         £2700	
Rega Kyte speakers£198	
audio - VISI	
Pioneer CLD515-1 Laser (NEW!) £549	
Arcam Xeta2 processor £649 Yamaha DSP-E390 processor £245	
Yamaha DSP-E390 processor £245 KEF AV System (C9/90/70s) £849	
KEF 30B SubWoofer£499	
audio - ESSENTI/	
Chord Chrysalis Intercon £25	
£5000 Rega Couple Int (NEW!)	
£ 1400 Chord Rumour Spkr Lead/mtr £8	3.00
£3500 & large selection of tables & stands fr	om:
<b>£150 TARGET- STANDS UNIQUE - SOUNDST</b> ALL PRICES CORRECT AT PRESS E&0E	YLE

TELEPHONE 0181 318 5755 OR 852 1321 NOW!

# **Cyrus** SL

he idea behind the Cyrus SL (Straight Line) is so obvious and sensible, it is surprising it's taken so long to see the light of day. This new entry-level Cyrus amplifier uses the same non-magnetic alloy body castings with integral heatsink fins as other Cyrus products, but with simplified features and controls, the latter consisting of a six-way input selector, a tape-monitor switch and a volume control. Forget about headphone sockets or a phono input; and the front-panel standby switching is something of an orphan in the absence of remote control. There isn't even provision to add an outboard PSX power supply, but a preamplevel output is provided, for bi-amplified systems perhaps.

Cyrus has retained its favoured 3mm loudspeaker connector standard, but the competing Camcon standard seems more likely to succeed, if any connector other than the familiar 4mm standard with the obligatory blanking pegs achieves any success at all. I used short adapter leads for this test to allow use with the standard speaker cables, though this will have had limited impact on sound quality.

Highlights include a new short, highly symmetrical circuit layout based on surface mount (SMD) technology, and a proprietary



current feedback amplifier design, for which a high slew rate and low distortion are claimed, fed from

a 180VA transformer and slit-foil

CYRRE

reservoir capacitors (remember DNM?). The SL is designed to be good for 50 Watts into eight Ohms, or 70 Watts into four Ohms. The amplifier runs cool, and both build and finish rank as superb.

#### **Sound quality**

Although described by the panel as "forward and gritty" and "close" (Ry Cooder, but similar comments were made about other test tracks), this amplifier was generally wellliked, and scored fairly well with the panel, with a high level of consistency between listeners — both numerically and in the nature of the comments made.

More than one listener commented on an apparent similarity in sound with the Marantz PM-66 KI Signature (which was unidentified, of course), though they were not confused with each other: the Cyrus generally came out of the comparison slightly worse. The SL was generally felt to be a clean, consistent and detailed amplifier, with a strong sense of detail. "Instruments and voices are well defined and separated" wrote one of the Walton; another spoke of the SL's "open sounding top", while noting some "congestion" in the bass.

While the last comment was not widely held, there was a general feeling that the frequency extremes, and the bass in particular, were

slightly constrained,

though the real-world midrange output was surprisingly potent, especially for such a compact amplifier.

Hands-on listening pointed to some alteration of dynamics and spatial perspectives when driven at high volume levels, but at more everyday settings the SL sounded every inch a Cyrus amplifier, with the expected precision and transparency, and a suggestion of tonal leanness implying the amp could help tame some richer sounding speakers like the middle-price floorstanding Tannoys. This comment is based on form rather than direct experience. Listening notes also point to a very clean treble that sometimes veers towards brashness — a jangly piano being one specific complaint.

#### Conclusion

The SL marks a welcome return to affordability from the increasingly costly Cyrus range, but without any noticeable loss of musical performance. The sound can be a bit lean and forward, but within its power limits this is an extremely finely-controlled and highly-articulate design that should not be overlooked. Recommended. AG

H

### THE LAB REPORT

Mission's Cyrus 3i is the 'parent' model to this SL sibling (see issue 162), which has shed the logic circuitry, error lights, remote control and PSX upgradeability to become a 'core' amplifier of, by all accounts, superior performance. Both amplifiers share the same complementary Toshibabased power amp and patented slit-foil capacitors but the SL's simplified circuit has improved the overall S/N ratio by some 3dB.

At 74/103W into 8/4 Ohms respectively, the SL's power output comfortably exceeds Mission's 50W specification while matching up well enough to the 3i's 75/111W. Small, but very robust, this little amplifier puts up a good show of dealing with difficult speakers, its dynamic output reaching a maximum of 310W into 2 Ohms before dropping back to 275W into 1 Ohm as Mission's electronic protection limits the current delivery to 15.9A.

Channel balance is very tight (within 0.8dB over a 60dB range) but the performance of the volume control falls off very rapidly thereafter. Unlike, I must add, the more sophisticated digital attenuator used in the 3i. Distortion also mirrors the 3i, proving to be more consistent with output level rather than frequency. PMi

### **HOW IT COMPARES**



# Somewhere in a town near you...

...there's a specialist retailer of Hi-Fi and Home Cinema equipment who gives independent advice, excellent deals and a level of after sales service that keeps customers returning year after year.

Since 1981 we have selected products which offer high guality performance and value for money whatever your budget. We back this up with excellent demonstration facilities and staff that have the knowledge that only comes with being a genuine enthusiast.

We are not just another dealer, why not test our claims for yourself soon ... at a town near you!

- Systems and separates
- Home cinema surround sound 
  Home delivery and installation
- Multi room systems
- Friendly expert advice
- Part exchange welcome
- Comfortable demonstration rooms
- In-shop repair service
  - Interest free credit on selected products
  - Free 3 year warranty on Hi-Fi separates
- We will match any deal offered by another authorised dealer

# audio eXcellence

#### WHERE MUSIC MATTERS THE

BRISTOL 65 Park Street, BS1 5PB. Tel: 0117 926 4975 CARDIFF 134/136 Crwys Road, CF2 4NR. Tel: 01222 228565 CHESTER 88/90 Boughton, CH3 5AQ. Tel: 01244 345576 EXETER 156 Sidwell Street, EX4 6RT. Tel: 01392 491194 GLOUCESTER 58 Bristol Road, GL1 5SD. Tel: 01452 300046 PRESTON 131 Friargate, PR1 2EE. Tel: 01772 253057 SWANSEA 9 High Street, SA1 1LE. Tel: 01792 474608 Open Tuesday - Saturday 9.00am - 5.30pm. Closed Monday

Visit our website at http://www.audio-excellence.co.uk/ updated weekly for more details and our latest offers or email us on Compuserve 100631,167.



AUDIOLAB 🔶 🔶 B&W ARCAM 🔶 AUDIOQUEST ACOUSTIC ENERGY CABLE CASTLE TALK CHORD LEXICON 🔶 I Image: MYRYAD EPOS DENON DUAL DYNAUDIO DYNAVECTOR KEF LINN LOEWE MERIDIAN MICROMEGA MILLER & KREISEL MISSION NAD RANTZ NAIM PANASONIC PIONEER 🔶 γαμαμα

# Marantz PM-66 K I Signature

n the past, Marantz used to produce 'SE' (Special Edition) versions of basic products, but there was never a basic version of the PM-66. Tested here is an unusual, highly-symmetrical, dual-mono circuit topology which extends through to the heatsinks, and which started life as an SE. The £229.90 PM-66SE is now supplemented by the KI Signature, a further enhanced version of the same basic design. KI is the personal imprimatur of Ken Ishiwata, who has a gurulike status within the hi-fi industry based on his acknowledged technical understanding and the musical sensibilities that allow him to hone products by ear when the slide-rule runs out of answers.

The PM-66 KI lacks tone controls or other unnecessary complications, but you do get a headphone circuit, a phono (MM only) input, three line and two tape circuits, one with off-tape monitoring. Remote control is provided via a system handset (supplied) and by system wire links using rear panel sockets. A source direct switch bypasses the balance control, tape switching and the remote-accessed mute function.

The KI Signature builds on the basic SE model in various ways. The power supply frame transformer has, allegedly, been

	VERDICT
50	UND ****
VA	LUE $\star \star \star \star \star$
PB	LICE £399.90
	Expressive, transparent amplifier with superb stereo
	imaging and utter precision.
T	Lightweight bass sometimes leads to diminished
	scale and sense of occasion.
	Marantz Hi-Fi UK Ltd, Kingsbridge House, Padbury Oaks,
	575-583 Bath Rd, Longford, Middlesex UB7 OEH
2	(01753) 680868

replaced by a highly-specified toroid, and reservoir c a p a c i t y

increased by about 20 per cent, though the power spec remains unaltered at 50 Watts per channel

at eight Ohms and 70 Watts per four Ohms. The chassis

has been extensively copper plated to reduce eddy current effects; even the back panel has a copper mirror finish, making this one of the few amplifiers that looks good back and front. Key passive components have been upgraded, and the moving-magnet phono stage incorporates 'major' but unspecified improvements. Extended testing, front badging and an authentication certificate complete the KI Signature package.

#### **Sound quality**

The test amp bypassed the pre-listening soak test, and promptly failed with a dry joint half way through the listening. This was promptly fixed, and the tests completed without further incident.

The PM-66 KI Signature is a very precise, highly articulate piece of kit that knows how to rock and roll, with a quick, rhythmic feel in difficult material, and a secure sense of pitch that shows up many of the competing amplifiers as vague and/or leaden by comparison. It also excels in the areas of timing and stereo soundstaging in which it comes within a whisker of having the ability to generate aural holograms, and it was scarcely less capable via its phono input. The down-side is that the Marantz doesn't have the weight or solidity of some com-

BEST BI

petitors, which tended to

undermine the sense of gravitas with large-scale Mahler symphonies and some rock material too.

The panel was marginally less fulsome in its praise, but still scored the Marantz well. Most of the negatives concentrated on the lack of bass weight, and a couple of comments were made about some 'spittiness' in the treble, though hands-on testing with other speakers and source components suggested that the latter was more systemrelated than a fault of the Marantz. The following refers to the Allison Krauss track. which is typical of the type of acoustic, medium-scale music that suits the Marantz best, and sums this amp up well: "confident, nicely timed, tidy and natural", he wrote our listener, "the bass could be more distinct, but it keeps time well".

#### Conclusion

Certainly the most precise, articulate amplifier on test, the PM-66 KI Signature also excels in the areas of timing and stereo soundstaging, and these far outweigh a slight lack of 'slam'. A clear Best Buy. *AG* 

### **THE LAB REPORT**

When all the enthusiastic dust has settled and the expanses of copper plating have lost their subjective lustre, just what *really* separates the Kl Signature from the basic PM-66SE tested in issue 167? Certain areas of performance have not witnessed any change at all, notably the S/N ratio (88dB re. 1W/80hm), stereo separation and channel balance — parameters linked to the common board layout and selector technology in the PM-66 series.

Otherwise there *are* some potent improvements. Power output has increased from 69/105W to 79/132W into 8/4 Ohms respectively while the output impedance is reduced to 0.03 Ohms. The maximum current remains steady at 21.8A (equal to bursts of 475W into 1 Ohm), ensuring the PM-66KI Sig is just as tolerant of difficult speakers as NAD's 317, despite the apparent difference in power output.

Most important of all is the dramatic improvement in the Sig's linearity. Whereas distortion increased from 0.0016 to 0.02 per cent across the audioband with the PM-66SE, it holds true to within 0.0009-0.0015 per cent under the same conditions with the PM-66KI Sig. Oh yes, and its response is now flat beyond 100kHz! *PMi* 

#### HOW IT COMPARES



"... hi-tech amps, at surprisingly reasonable prices, that beat most of the purist competition to a pulp." HI-FI'CHOICE BEST BUY, April 1997



# audio T

Great Value Sound & Vision

▶ 30 Years Old - Audio T is one of the oldest and most respected hi-fi retailers in the world.

We're Authorised Dealers for all the products we stock and have factory trained staff who know what they're talking about.

**Demonstrations** - All our shops have single speaker dem rooms and all but two have a separate Home Cinema studio.

**PX** - We're happy to take your old, working, equipment off your hands if you don't want to sell it yourself (although you'll do better if you do).

**Exchanges & Upgrades** - You can change goods within 7 days if they are in perfect condition. You can also upgrade to more expensive products within 30 days at no charge.

Interest Free Credit is available on selected items.
 E. Mail & the Web - We are contactable on

"hifi@audio-t.co.uk" and on the web at "http:// www.audio-t.co.uk" where you'll find our full sale list regularly updated.

**Guarantees** - a full 3 year guarantee on all new hifi separates. Mini Systems, Video & TV are 2 years.

▶ We're friendly and un-intimidating, we can arrange home dems and home loans (subject to status) and we install equipment foc if required.

"See our monthly special offers list on our Web pages or in What Hi-Fi every month"





Main Brands: Acoustic Energy, Arcam, Atacama, Audiolab, B&W, Cable Talk, Celestion, Cyrus, Denon, Dynaudio, KEF, Kenwood, Linn, Marantz, Meridian, Micromega, Mission, Monitor Audio, Mordaunt-Short, NAD, Naim, Pioneer, Quad, Rega, REL, Rotel, Royd, Sennheiser, Tannoy, Technics, Trichord, Yamaha. Not all products are stocked by every shop.

### **PRICE PROMISE**

We know you won't find better service.
We know you won't find a better sound.
But if you find a better price, let us know and as long as we can verify it we'll be happy to match it. Plus you will still get our 3 YEAR Guarantee\*.

\* 2 Year on TV/Video/Mini Systems • 1 Year on Portables





40/42 Albion Street Tel: (01242) 583960 Jon & Andy

Easy parking near



London NW6 Tel: 0171-794 7848 Felix, John & Graham



until 8



19 Old High St., Headington Tel: (01865) 65961 Jon, Dominic & Paul Tues-Fri 10-6 Sat 9.30-6 Thurs eve open late until 8





159a Chase Side, Enfield, Middx Tel: 0181-367 3132 David, Maggie & Jason Tues-Fri 9.30-6 Sat 9.30-5.3 Customer Car Park at rear

GANTS HILL



442-444 Cranbrook Rd. Gants Hill, Ilford Tel: 0181-518 0915 Märk, Burak & Richard Tues/Thurs/Fri 10 - 7 Wed/Sat 9.30 - 5.50





60 Fleet St., Swindon Tel: (01793) 538222 Andy, Wayne & Andrew





4 Queens Walk, Broad Street Mall Tel: 0118 958 5463 Simon, Keith & Tom Tues-Sat 9-5.30 Car Park over Broad Street Mall Il shops closed Monday



#### **ON TEST: AMPLIFIERS (BELOW £470)**

# **NAD** 317

or those with some knowledge of NAD genealogy, the 317 is a 214 power amp with an added preamp. To the rest of us, this is a big, muscle-bound amplifier, with enormous potential for expansion via bridging and bi-amping options. The 317 also follows in the established pattern of previous NADs. A removable preamp-out/power-amp-in link is included, along with 'soft clipping', which is a simple limiter that can be invoked for parties and other hazardous situations.

The issue of power is an important one here. The 317 claims to possess a big, stiffly-regulated power supply (including a Holmgren toroidal transformer, of near 500VA capacity, allegedly, with properties that on paper at least make it more capable than traditional toroids). The power-supply reservoir is said to include multiple smallvalue capacitors connected in parallel to minimise output impedance and inductance and to minimise recovery times.

NAD claims this results in a high-current amplifier (35 amps peak) capable of delivering 80 Watts into eight Ohms, and which can operate safely into sub-1 Ohm loads. The 317 can also be bridged, so NAD says, to deliver 240 Watts, or bi-amped with a 214 power amp, which shares the same





317's power amp section.

The 317 boasts remote control (a system handset is included), tone controls and tone defeat, and inputs for four line-source components and two tape decks. There is no provision for a phono input, but headphones can be accommodated. Build quality is on the utilitarian side, but the butch internal construction (the transformer alone weighs around 10lb) is indicative of altogether more ambitiously-priced hardware.

#### **Sound quality**

A nondescript panel score reflected a wide spread of individual scores. There was much to enjoy for some of the listeners at least, one pointing to the 317's "good midband resolution and transparency", though even he tempered his enthusiasm with comments of "slight compression" and of "slight grain and muddle" in the Walton piece.

This is a powerful amplifier, capable of driving a wide range of speakers hard, always exhibiting fine control and discipline, and sounding consistent in each case. Consistent, however, is not to be taken as synonymous with consistently good, and I can only add my own backing to the majority panel view that the NAD is "muddled and dynamically constrained" (Walton again, played

well within the NAD's power envelope), and "a biggish sound, but the guitar and banjo are sour and nasal, and the top octave is missing" on Allison Krauss. Another made the general observation that the NAD sounded "bleached", and a third declared that "it sounds like a musical stew: timing, dynamics, resolution, enjoyment are all missing".

Harsh words, and some may feel happier with another sum-up line: "slight grain and muddle, but communicative — a nice one" for a powerful and upgradeable amplifier that doesn't exactly cost the earth. But unless you really needs bucketloads of power, it would make sense to go elsewhere for fewer, more cultured Watts.

#### Conclusion

Plenty of raw power here, but the 317 has a rather cluttered quality which deteriorates sharply with complex and densely scored music, the Walton piece being typical of the kind of music that made the NAD seem least comfortable. Simpler music often sounded big, vibrant and colourful, but even so the level of detail remained deficient. *AG* 

 $\blacktriangleright$ 

### THE LAB REPORT

I was rather looking forward to subjecting the 317 to our new Dynamic Output Profiling test, and with momentary outputs close to 535W (2 Ohms) and 840W (1 Ohm), this beefy amplifier surely did not disappoint. However, despite grabbing any likely loudspeaker confidently by its voice-coils, the test did reveal an almost uniform increase in distortion with reducing load impedance: approximately 8dB for each halving of the load for a given (voltage) output.

This means that under realistic, dynamic conditions, distortion is around 35 times higher (typically 0.5 per cent) into momentary 1 Ohm loads as it would for an 8 Ohm load, for the *same* voltage output. This, in turn, is not ideal for good sound quality, despite its massive 27A current reserve — *quality* rather than quantity is the key.

Channel balance deteriorates to 2.8dB at -60dB while the 500pF input capacitance suggests a slavish adherence to EMC regulations. Conventional harmonic distortion is otherwise very low at 0.0014 per cent through the midband and only slightly higher at 0.009 per cent through the extreme treble. This consistency is a positive sign, only bettered in this group by the Marantz PM-66KI Sig. *PM* 

#### HOW IT COMPARES



JULY/AUGUST 1997 65





"This is an excellent little speaker, delivering fine sound quality from a compact and attractively finished enclosure"

HI-FI CHOICE March 1997



"The Heylios deliver an impressive sense of scale with plenty of rich bass perfect for atmospheric pieces" Wнат Hı-Fı? November 1996

"Dynamics and bass are both excellent as is the soundstaging" HI-FI WORLD FEBRUARY 1997

Please send me details of the Heybrook Heylios

**HEYBROOK** 

Name.....Address .....

HEYBROOK HI-FI LTD, CLEMO ROAD, LISKEARD, CORNWALL PL14 3NH TEL: 01579 342866 FAX: 01579 342833



#### The New Collection from The Chord Company What are your speakers wearing? **CHORD LEGEND** (Patent pending) This is something really special. A unique flat cable specially designed to optimise the performance of bi-wireable speakers. Constructed from four runs of oxygen free round copper conductors (two x seven strands for the bass and two x four strands for the treble). The larger conductors used for the bass and the smaller conductors used for the treble are spaced in a THE MYTH way that produces ideal inductance and capacitance figures for perfect bass and treble reproduction. It is THE RUMOUR extremely unusual to find this in speaker cable. Bass needs more current than treble, therefore Legend provides more current carrying capacity. Chord Legend will give you all the openness and detail that a good bi-wire cable produces, together with a wonderful degree of coherence and musicality. For information on the finest handmade a/v leads, interconnects, speaker cables and loudspeakers, please return the coupon. Tel: 01722 331674 Fax: 01722 411388 Interconnects Speaker Cables Loudspeakers AV Leads NAME ADDRESS THE LEGEND POST CODE HEC JULY 97 The Chord Company, 30a Sarum Business Park, Portway, Salisbury, Wiltshire SP4 6EA.

# Pioneer A-605R

here's something reassuringly retro about this large and well-equipped amplifier, which boasts a full set of traditional amplifier-ware, including tone and loudness controls, -20dB mute, switching for two pairs of speakers, source direct, independent source and record selection. It also has a mini figure-of-8 mains socket which allows you to change the polarity of the mains lead and alter the sound. There are also some features you wouldn't have found on a typical amp in the past, including 4mm speaker sockets (blanked off as usual) and remote control. Naturally there's a phono input in moving-magnet flavour only, and a system control socket. Rated power output is a chunky 80 Watts per channel at eight Ohms (90 Watts at four Ohms), so if you want it bold and brassy, this is where to come. It's a far cry from the minimalist Pioneer Precision A-300R we reviewed in issue 162 though most of the '605's less important features can be hidden behind a front panel flap.

The A-605R may have been designed for a broad and general constituency, specifically perhaps for those who buy off the page, but it is very far from being just another amplifier under the skin. The principal claim

	VERDICT .
SO	UND ***
VA	LUE ****
PR	LCR £399.95
	Powerful, well (too well?) equipped, generally open
	sound.
T	Lacks fine detail, consistency with volume level and
	fine discrimination of the best at this price.
$\boxtimes$	Pioneer High Fidelity (GB) Ltd, Pioneer House, Hollybush
	Hill, Stoke Poges, Slough, Bucks SL2 4QP
2	(01753) 789500

to fame is an output stage deploy-

ing, apparently, а new HEX MOSFET output device. which is claimed to be highly efficient, producing less waste heat,



tion, and producing a low output impedance over a wider then normal bandwidth, without the need for high levels of feedback and with only single pole (6dB/octave) filtering. With a range of other power reducing components, including non-scanning microprocessors in the control section, Pioneer claims it has designed a compact, highly symmetrical, physically compact circuit with a reduced power demand. Power is drawn from a toroidal transformer.

#### **Sound quality**

Sample number one decided to throw a wobbly in the panel tests, but another was promptly supplied for Day Two, and listening proceeded as usual. A middling score concealed some differences between panellists, one of whom pointed to what he perceived as an increased output in the 4-6kHz range, and a "degree of hardness" (though which observation springs from which is not clear), while another commented on a "big, airy though somewhat insubstantial bass".

For my money, this is a broad, spacious and surprisingly powerful amplifier, but it lacks subtlety, which is apparent as a rather rigid lack of expression with many recordings. Percussive sounds — classical piano for example — tended to sound rather electronic, with perceptibly clipped decay sounds, and clearly different character with changes in musical dynamics. The A-605R lacks the consistency of the very best (including Pioneer's own Precision amplifier, which was on hand for comparison in the hands-on testing), and perhaps for this reason fails to set up a tangible sense of solidity and presence with known good recordings. The phono stage was adequate rather than inspired — brash with light bass, say the notes on the Karajan/EMI Sibelius Finlandia and that perhaps is the A-605R's principal weakness.

#### Conclusion

The promise inherent in the technology is not entirely fulfilled on test, and it would be interesting to see if its design will be adopted by the Precision design team, as exploited in ostensibly less promising material from Pioneer's mainstream range. The A-605R is not a bad amplifier though, being unusually powerful at the price, though not without a suggestion of changing sound as the volume level is altered. AG

### **THE LAB REPORT**

As far as I can tell, there are no outrageous claims being made by Pioneer for the A-605R which emerges, relatively unscathed, as a powerful if relatively conventional amplifier. If our listeners reported a slightly hard, bright and forward sound there's nothing so obvious as a rising frequency response to serve as explanation. The clues are actually more subtle.

For example, the S/N ratio is pretty much the widest in the group at 89dB (re. 1W/8 Ohms) though this, in turn, could make the effects of its RF susceptibility (in the low 1-10MHz) band more obvious. The substantial 20x jump in distortion that occurs between midband and treble sounds (0.002 to 0.045 per cent), almost regardless of power output, is also likely to have an impact on sound quality. Perceptions of brightness and early listening fatigue are just symptoms of phenomena that make our enjoyment of music rather too much like 'hard work'.

Otherwise, the A-605R offers a full 80W output into 8 Ohms and 140W into 4 Ohms, though its electronic protection cuts in rather prematurely to limit its maximum current to 12.6A (equal to bursts of 160W into 1 Ohm). Safe and flexible, but hardly invigorating stuff. PMi





# **Alchemist** Nemesis

Ichemist was founded a few years ago, and has acquired a loyal, specialist following for its uniquelystyled amplifiers, partly in the UK. but mainly, I hear, in Far Eastern markets. The Nemesis is a powerful, minimalist design with a claimed power rating of 80 Watts per side. The bipolar output devices are biased more heavily than usual towards Class A, and consequently the amplifier runs a little hotter than most, even though the instruction manual's opening sentence states that "the Nemesis integrated amplifier is a class A/B device, and as such does not need to dissipate much heat".

This is a minimum-features design. There are four line inputs and two tape circuits, with off-tape monitoring using independent record and listen selectors. One of the inputs can be used as a phono input for MM or MC cartridges, but this means plumbing in an accessory circuit board at extra cost. The only other control provided over the input is by adjusting the volume. There is no balance control, tone control or speaker switching, and no headphone circuit or remote control. There are two preamp

#### VオRDIGT SOUND ★★★☆☆ VALUE ★★☆☆ PRICE £650.00

- Interesting amplifier, improved in its latest form, which combines warmth and solidity with a strong power yield.
- Provides a slightly distant and constrained view of the music.
- Alchemist Products, Unit 1, Furzewood House, Cranbourne Industrial Estate, Potters Bar, Herts EN6 3JN
   (01707) 664607

#### output cir-

cuits, which could be used to drive outboard power amplifiers.

Looks are very much an issue here. The black, silver and gold finishes make a strong statement, and this is undoubtedly an amplifier whose looks you will love or hate, rather than be indifferent to. It is, however, well-built, the controls especially so, though there are too many sharp edges and visible fixing screws in contrasting colours for my liking.

#### **Sound quality**

The test sample of this amplifier was quickly replaced by a revised version, which forms the basis of this test. The new model is much more accurate tonally the old one was clearly a little soft-centred and dull in the extreme treble — and I am convinced that most would find it a clear improvement over the original, which is the one that most will have heard to date in dealer demo rooms.

Not enough of an improvement to be completely convincing to the panel, however, which turned in a wide variation of opinions, ranging from "rather unimpressed" to "rather impressed". One described the Nemesis as "smooth and mellow" in the Allison Krauss track, but the amplifier appeared to sharpen up with more aggres-

#### sive, wide-ranging

material, and the Poulenc for example was described as "confused and strident" by one, and as "vibrant but a little messy" by another. Perhaps the fairest sum-up comment, in that it comes closest to expressing a consensus view, is that the Nemesis offers "average resolution", being neither "distinguished nor dull".

Children .

Hands-on listening showed that this is a well-balanced, engaging performer that rises to the challenge of busy, agitated musical orchestral passages, and which had a fruity, well-timed bass line. There were limitations, though: a slightly 'enclosed' quality which was noticed with a wide variety of material, and a loss of high frequency harmonics, which deprived piano recordings, for example, of 'ring' and air.

#### Conclusion

A true individual, though less idiosyncratic than of old, the Nemesis is a powerful and musical amplifier, but it can sound a little restrained by the best standards, and it needs to work a little harder to really justify its price. It's a great looking unit, though, and a real talking point in its own right. *AG* 

### **THE LAB REPORT**

In common with previous Alchemist amplifiers, the Nemesis runs hot, causing one or two areas of performance to shift slightly in parallel with changes in temperature. Distortion, for example, finally settles to a low 0.06-0.014 per cent (re 1W/8 Ohms) over the first hour the amplifier is switched on, increasing by some 10dB between 8 and 4 Ohm loads. Into these lower loads, its power output is limited, not by a reasonably well defined clip (as it is into a moderate 8 Ohms), but by a 'creeping' distortion that grows with decreasing load and increasing frequency.

Using the new Dynamic Output Profiling test described in Oasis of Sanity (issue 166), Alchemist's VI-limiting was clearly revealed beyond 5A into any load below 8 Ohms, leading to a limit of 6.8A into all 4, 2 and 1 Ohm loads under dynamic conditions.

As a result, though the amplifier can sustain between 103-125W across the audioband into 8 Ohms, this collapses to a maximum of just 49W under dynamic conditions into momentary loads as low as 1 Ohm. So, however powerful the Nemesis might seem on paper, its handling of 'real-world' speakers is likely to be variable. Add to this a moderate 0.17 Ohm output impedance and a huge susceptibility to RFI and I'd not be surprised to hear the Nemesis sounding very different from system to system. *Plil* 





### Don't read the Gramophone - listen to it

# **PRO-JECT** 01753-889949

#### DISTRIBUTED BY HENLEY DESIGNS LIMITED



### It costs the same to get it right as it does to get it wrong.

At the Listening Rooms, we pride ourselves on matching your needs with exactly the right equipment, whatever your budget, and because we only stock the best, that's what you'll get.

What you'll also get is sound professional advice and a chance to relax and listen to some of the world's finest Hi-Fi equipment. 35 years combined experience.
Two Fully equipped listening rooms. Home installation service.
Multi-room design and installation.
2 years Parts and Labour guarantee. Home cinema surround-sound. Export and Credit facilities.



ACOUSTIC ENERGY • ARCAM • AUDIO RESEARCH • AUDIOLAB • AURA • BOSE • CELESTION • COPLAND • CYRUS • DENON • EPOS • HARMAN KARDON • JBL • KEF • KRELL • LINN • MARANTZ • MARTIN LOGAN • MERIDIAN •
MICHELL • MICROMEGA • MISSION • MONITOR AUDIO • NAKAMICHI • NEAT PETITE • PINK TRIANGLE • PIONEER • QUAD • REL • ROGERS • SME • SONUS FABER • STAX • SYSTEMDEK • TANNOY • THETA • WILSON AUDIO • YAMAHA •



161 Old Brompton Rd. London SW5 0LJ. Tel: 0171- 244 7750/59. Fax: 0171-370 0192. Monday - Saturday 10am - 6pm. Nearest Tube: South Kensington or Gloucester Road.

# Arcam Alpha 9

The Alpha 9 is the top integrated amplifier in the current Arcam line-up, and one of the more powerful models tested here, claiming 70 Watts per channel (eight Ohms) output from its VMOS output stage. This model was featured in issue 165 as part of a combination that also included the matching Alpha 9P power amp. Here it is used on its own, but readers should refer back to learn how the Alpha 9 may be upgraded via its rear-panel preamplifier output sockets.

This is an all-singing amplifier, offering separate record and listen source selectors, tone controls (with the obligatory 'direct' option), a headphone socket and connections for two pairs of independently switched speakers, though it is possible to use both pairs of outputs for bi-wiring with standard cables. There are also some more sophisticated options, including a preampout/power-amp-in circuit which can be used to patch in external processors (for home cinema applications, for example) at fixed level, or at a level dependent on the volume control. This circuit can be selected from the front panel. It is also possible to add in a phono circuit-board with independent MM and MC inputs, but this is an extra-cost option that was not supplied for this test.





With a system remote handset that operates the basic features of the amplifier.

The familiar styling of the current range is an organic development of older Arcam ranges, with smaller, less angular and more fluid lines, which will nevertheless blend in successfully with most third-party components. Control feel is good, and the layout, though rather busy, is professionally conceived and likeable in operation.

#### **Sound quality**

The panel test verdict was consistent with the previous occasion on which this amp was tested by the panel; indeed the panel test was done in the same way (see *HFC* April 1997) so this result is not unexpected. That said, the average score was a little better than last time around, though for obvious reasons scores cannot be directly transferred between sessions.

Although there were some critical remarks ("ordinary — flat — lifeless" wrote one, and another described the Walton as "not really dynamic enough" and "a bit grainy"), the general view was better represented by comments such as the following: "Ry Cooder at his best, (this amplifier is) transparent to all the nuances of tempo and detail". Or this, on the Walton: "good attack — very detailed, well

integrated top to bottom". Finally, on the Poulenc extract: "this piece has a sense of drama".

Hands-on listening told a similar story, with particular comments being made of a realistically percussive piano sound (using a Beethoven recording), though timing seemed slightly slack, and the music content occasionally appeared to modulate the output, a form of dynamic compression which was also identified by one of the panel members, and which can be resolved by biamping the Alpha 9 with an Alpha 9P power amp. Stereo depth sometimes seemed somewhat curtailed too, but detail was always strong, and tonal colours were vivid and colourful — a good result at the price.

#### Conclusion

A fine mid-market amplifier which is well equipped, powerful and which sounds colourful and detailed. Only a slight loss of discipline and some foreshortening of stereo depth count against this amp, but it's as well to remember the upgrading possibilities of the matching Alpha 9P power amp and the add-in phono input. Recommended. *AG* 

### THE LAB REPORT

Quite by chance, our last amplifier survey (issue 167) contained five of the sturdiest, most load-tolerant designs available. So much so, that the bargraphs failed to truly represent their prodigious outputs relative to the *average* amplifier. One of those amplifiers was the Alpha 7, little brother to the appropriately more poweful Alpha 9. Needless to say, Arcam's tried and tested MOSFET power amp endows this top end model with equally vast reserves of clean, dynamic power.

How much? 105W/193W/332W/467W into 8/4/2/1 Ohm loads respectively, which, when viewed against the Alchemist, Prime Design and Rose (all of which have a notionally similar 8 Ohm power rating) is now properly revealed by the 'Load Tolerance' bargraph. Speakers of any ilk hold no fear for the Alpha 9.

The fly in Arcam's ointment, however, concerns its poor control over HF distortion which limits the treble power delivery from 90W to 67W as THD cruises up from a low 0.0028 per cent midband to 0.14 per cent at 20kHz (a 50x increase). The 4.5k Ohm input load will also put the willies up many CD players, adding to 'roughness' through the treble. *PMi* 

# HOW IT COMPARES

2 SPEAKER LOAD TOLERANCE 85% **3** AUDIBLE DISTORTION -10% 4 NOISE 45% **5** SUSCEPTIBILITY TO RFI 80% 5 Worse Better 4 3 2 1 JULY/AUGUST 1997 71

# Quality Systems at



The Cyrus range provides the perfect blend of performance and style. Combine the new STRAIGHT LINE integrated amplifier, DAD3 CD Player and elegant 752F loudspeakers and experience an expressive interpretation of all music. Upgradability is a feature of the Cyrus range. With the addition of the XPA power amplifier bi-amplification of the loudspeakers will offer greater performance. <u>Option 4</u> of our 0% Finance terms allows you to own the STRAIGHT LINE, DAD3 and 752F's with 18 repayments of £74\* after a £330 deposit. (£1650 total)



There can be no higher accolade given to a product than for it to be considered the standard by which all others are judged. WHAT HI FI? have bestowed this honour on two fine British manufacturers.

The sumptuous STUDIO 20SE's combine with the 8000CDM, 8000DAC, 8000Q and 8000M's to form a 'Reference' system.

Use Option 5 to purchase the 8000CDM, 8000DAC, 8000Q, 8000M x 4 and the STUDIO 20SE's with 24 repayments of £297\* a month after a deposit of £1760. (£8800 total) When the award winning ALPHA 7 CD Player and ALPHA 8 integrated amplifier are used with the superb AE109 loudspeakers, they deliver a compelling musical presentation. The performance can be improved further by adding the ALPHA 8P power amplifier, as bi-amplification of these loudspeakers adds to the systems vibrancy and dynamics.

By using Option 2 of our 0% Finance terms you can own the ALPHA 7 CD, ALPHA 8 and AE109's with 9 monthly repayments of only £85\* after a deposit of £255. (£1020 total)



Advanced engineering and innovative design led to the highly acclaimed 8000S stereo amplifier. The same development has led to the 8000CD Player. When these remarkable products are matched with the AVON loudspeakers, they excel. All Audiolab products offer a step by step route to improvement. Simply, add the 8000P power amplifier and create greater musical involvement. Use <u>Option 5</u> to own the 8000CD, 8000S and AVON's with 24 monthly repayments of £80\* after a deposit of £480. (£2400 total)





0)

### TWO YEAR GUARANTEE

At Sevenoaks Hi Fi you will find a wide range of products which combine to offer systems of unbeatable value for money and quality from  $\pm 500$ . Every branch boasts dedicated demonstration rooms which enable you to audition these in comfort. Our friendly and experienced staff are happy to assist you through every step of your purchase to ensure total listening satisfaction.

Sevenoaks Hi Fi are one of the UK's largest independent dealers. As a member of BADA we provide a two year guarantee with the majority of products we sell.

### **0% FINANCE**

Spread the cost of buying these quality systems with our 0% finance terms. Up to 24 months interest free.

#### OPTION I

A minimum balance of £400 after a 10% deposit, followed by 6 equal monthly payments.

Example, Cost: £1000 Deposit: £100, followed by 6 equal Monthly Payments of: £150

OPTION 2

A minimum balance of £400 after a 25% deposit, followed by 9 equal monthly payments **OPTION 3** 

A minimum balance of £400 after a 50% deposit, followed by 12 equal monthly payments.

OPTION 4 A minimum balance of £1000 after a 20% deposit, followed by 18 equal monthly payments.

OPTION 5 A minimum balance of £2000 after a 20% deposit, followed by 24 equal monthly payments.

0% Finance not available on price match. Written details on request. 0% APR. Subject to status \* Examples shown to the nearest pound. Head Office: 109-11 3 London Rd, Sevenoaks, Kent.

#### WE LOOK FORWARD TO SEEING YOU AT ONE OF OUR 28 BRANCHES NATIONWIDE

SEVENOAKS 01732 459555 ABERDEEN 01224 587070 BARROW-IN-FURNESS 01229 838757 BEDFORD 01234 272779 BIRMINGHAM 0121 233 2977 BRIGHTON 01273 733338 BURY ST EDMUNDS 01284 753776 CARLISLE (NEW) 01228 590775 CHATHAM SEE MAIDSTONE CHELSEA 0171 352 9466 CHELTENHAM 01242 241171 CROYDON 0181 665 1203 ENFIELD 0181 342 1973 ESSEX 01376 501733

GUILDFORD 01483 536666 KINGSTON 0181 547 0717 LEEDS (SOON) 0113 245 2775 LEICESTER 0116 255 7518 MAIDSTONE 01622 686366 NORWICH 01603 767605 OXFORD 01865 241773

PETERBOROUGH (SOON) 01733 897697 READING 0118 959 7768 SHEFFIELD (SOON) 0114 255 5861 TUNBRIDGE WELLS 01892 531543 WATFORD 01923 213533 WOOLWICH 0181 855 8016 WORCESTER 01905 612929
## Prime Design A-100

rime Design is a new brand whose range includes the A-100 amplifier and some loudspeakers of similarly elaborate design due to be rolled out soon. Other products are scheduled to follow.

The A-100 specification is nothing if not ambitious. The eight Ohms power rating of 100 Watts per channel is said to double into four Ohms, on paper justifying the efforts spent on design of cost-critical components like the heatsinks and power supply. The latter, allegedly, is built around a massive 500VA transformer and  $80,000\mu$ F of reservoir capacity. The power amp is described as a symmetrical ultra-linear bipolar design, with a fully complementary output working in Class A up to 15 Watts, and Class B thereafter, but the amplifier runs too cool for this to be entirely credible. Electronic and fuse protection is provided.

The amplifier itself is generally well turned out, but the panel graphics are questionable, the mains on/off switch looks agricultural and the facia corners are too sharp. There is some untidiness internally which will be eliminated shortly according to the manufacturer, though the unit supplied for review is said to be from a full production run and is not a prototype. The rest of the metal-

	VERDICT
VA	UND ★★★☆☆ LUE ★★★☆☆
	Authoritative, stable and solid delivery, even at high
	volume levels; good overall build.
▼	Some rough edges, musically and physically; some loss of subtlety and stereo interest.
	Prime Design Ltd, Unit 2-6 170 Deans Lane, Edgware,
	Middlesex HA8 9NT
2	(0181) 906 0181

w ork is exemplary, and the same is true of the quite s u p erb lathe-turned controls, which

address both listen and record

selectors, and a volume control. The individual selectors facilitate off-tape monitoring, and the pre and power amps can be unhooked for upgrading purposes. A second preamp output is fitted. There is one line input, three tape circuits (which can double as line inputs) and a phono input with userspecifiable parameters (moving magnet in the test sample, by request) which is identified on the front panel as a second line input.

### **Sound quality**

The amplifier went silent part way through the tests, but by the time it was returned to base the fault had resolved itself. A second sample briefly failed to respond after some hours use, and then reset itself (it has not subsequently failed), and it seems probable that the protection circuitry may have been to blame in both instances. The mains transformer was also noisy mechanically.

Musically the amp was quite impressive, especially if you like your music bold and dynamic, but subtlety is not its forte. Our listening panel disagreed among themselves about its overall balance, though not about the nature of that balance. "Noticeably hard", wrote one of the Allison Krauss track. "There's a lot of energy in the 4–6kHz range, which is initially impressive, but is actually rather aggressive and biting. There appears to be some channel imbalance favouring the left". Others reacted with greater overall enthusiasm. "Nicely integrated presentation, but voice a little synthetic and quite hard on peaks", another said of the same

track; "open, clear presentation on instruments with good stereo imagery — also well controlled and natural" was a third. The Walton was described in these terms: "good dynamic control and speed — a convincing performance".

The A-100 ultimately lacks the fluidity and grace needed to make speakers like the Sonus Fabers sing, and its stereo performance was curiously under-developed, possibly indicating some mutual dependence between channels. But the amplifier is immediate and incisive, and presents music in an unusually vivid and dynamic way. The phono input was entirely consistent with the line stages — a measure of its transparency.

## Conclusion

This is a dynamic product. The A-100 has certain Naim-like qualities and there is no suggestion of tonal inadequacies. With a little further development it could easily be Recommendable. There is some suggestion that the amp is designed to be synergistic with Prime Design's own loudspeakers. *AG* 

## **THE LAB REPORT**

There is a lot of very heavyweight amplifier in the Prime Design A-100 engineering capable of delivering 110/183W into 8/4 Ohms respectively. However, distortion rises markedly with increasing frequency. So much so, that THD at 20kHz is typically between 0.6-0.8 per cent over 90-odd per cent of its dynamic range, the true 'clip' point being reached at 106W/8 Ohms (110W re. 1kHz).

The dynamic output into lower impedances also suffers, with a maximum current of just 9.2A limited both by inherently high THD (>1.5 per cent) and pre-emptive protection circuitry. The *nature* of Prime Design's distortion looks fairly contrived, however, with strong 2nd and 4th-order harmonics increasing tenfold from, typically, 0.07 per cent midband to around 0.7 per cent at very high treble frequencies. This encourages a 'colour' that's quite distinct from the odd-order character incurred by most solid-state amplifiers.

Noise is also higher than expected, with -56dBV worth of hum (1.54mV) and -68.2dB worth of A-wtd 'white noise' (re. 1W/8 0hms) putting the A-100 some 15-20dB behind the S/N ratio of other amplifiers in this survey. Hence the plummeting bargraph. *PMi* 



## ROKSAN Caspian at Musical Images



## CASPIAN AMPLIFIER

An attractive, stylish amp. Caspian is a big, warm-sounding amplifier with real-world ability to perform with tricky speakers.

## WHAT HI-FI MARCH 97

A £700 bargain. Mixes the best of solid state and valve worlds to produce a seductive sound

HI-FI WORLD JUNE 97

Immerse Yourself...

**ROKSAN** Caspian is now on permanent demonstration at Musical Images' Covent Garden and Beckenham branches. Relax and drift away with the finest audio at London's premier Audio Visual dealer.

## AMPLIFIER £700

## CD PLAYER £900

## COVENT GARDEN

18 Monmouth Street Covent Garden London WC2 9HB Tel: 0171 497 1346 Fax: 0171 497 9205

## BECKENHAM

126 High Street Beckenham Kent BR3 1EB Tel: 0181 663 3777 Fax: 0181 663 3555



Branches also at 173 Station Road, Edgware, Middlesex HA8 7JX Tel: 0181 952 5535 Fax: 0181 951 5864 and 45 High Street, Hounslow, Middlesex TW3 1RH Tel: 0181 569 5802 Fax: 0181 569 6353

## Rose Scion

t first sight, it looks as though we've broken with our self-imposed decision to stick to integrated amplifiers in this test, but the Scion is in effect an integrated amplifier that happens to come in two boxes. The two units are uniquely configured, each dedicated to the other and unavailable separately.

The two boxes are designated as a (mostly) passive input selector, through which all source components are routed; and an output amplifier, which is a power amplifier, but also includes the system volume control. The only active circuitry housed in the input selector is the MM/MC phono preamplifier, there to be shielded from magnetic fields associated with the power amp. Output is specified at 65 Watts per channel, though typical output in the UK (with a 240V input) is said to be around 80 Watts. Inputs: two tape, three line and the previously mentioned phono, a zero feedback circuit. No tone controls or other such impediments have been included.

Build quality is adequate but unexciting. The controls are ill-differentiated, poorly labelled, and feel horribly imprecise. I'm pretty sure I recognise some of the components from a popular parts catalogue, and the sharp-edged heatsinks must be handled with care. A surprisingly long power lead is



used between the two units. which are not marked as CE compliant, though the makers say that this has been addressed with subsequent production runs.



**Sound quality** 

Technically the Scion is all about allowing the low-level circuits to work without interference from the high-voltage power amp and supply circuits. The idea is to ensure good organisation of sound down to the lowest levels. By and large, these efforts have succeeded, but unevenly.

The Rose Scion was scored very consistently by all panellists, just above average. They were also in agreement about how it sounded. "Pleasant, if slightly romantic", and "copes agreeably" seemed to be popular sum-up lines, with most of the praise directed at the open midband.

The frequency extremes, however, attracted some criticism, the bass especially. "(It) tends to be a bit one-note, slow, and the bass is lethargic" was typical of the comments submitted, and the treble extreme was the subject of some criticism too: "leading edges are a bit rounded" (Ry Cooder), and "soft-centred" (Poulenc). My own listening pointed to some sibilance, mostly in female vocal tracks (Jennifer Warnes and others), but I was impressed with the lively, open-sounding phono input (tested in MM trim only).

On balance this is an agreeable amplifier, with an

emphasis on resolution and excellent "local" dynamics: the subtle and expressive shadings that allow instruments and musicianship to be painted realistically, even when they are half buried in a complex mix. Large scale dynamic ability, which defines the range between very low and very high volume levels, is less impressive, and the Scion does indeed have a rather lightweight feel. In no sense is this a muscle amp.

## Conclusion

This is not an easy amplifier to sum up. It has many fine qualities, some rough edges, and a physical presentation that appears to offer some advantages, but which looks a little primitive in execution. It's not cheap either, which makes it hard to excuse the shortcomings. Perhaps the Scion should best be regarded as work in progress. It's already a decent amplifier with some real potential that has not yet been fully realised AG

## THE LAB REPORT

Though Rose makes no bold claims for the Scion's power output, this amplifier is, as Alvin has suggested, nonetheless very shy of moderate-to-low impedance loudspeaker loads. VI-limiting seems to set in very early, with the result that its dynamic output actually falls from 90W to 75W to 41W to 23W (8, 4, 2, 1 Ohm respectively). Even under standard, continuous output conditions, the Scion's 76W/8 Ohm performance struggles to maintain 75W/4 Ohms where, arguably, something closer to 100-120W might be more typical of competing amplifiers.

This is highly relevant, because it suggests the Scion will only perform at its best with sensitive, easy-load loudspeakers unless, of course, you like the sound of an amplifier struggling! Ironically, and despite Rose's use of two 'isolated' boxes, the Scion also suffers an obvious 50Hz hum component (-62.8dBV), lying well above an otherwise unperturbed noise floor (S/N =83.7dB, 1W/8 Ohm).

On a more positive note, the 0.02 per cent midband distortion of the Scion may increase to 0.22 per cent at higher frequencies, but both the level and extended-order character of this distortion stays remarkably consistent with power output. As Alvin says, 'work in progress'. PMi

## **HOW IT COMPARES**

**1** DYNAMIC POWER OUTPUT -55% 2 SPEAKER LOAD TOLERANCE -75% **3** AUDIBLE DISTORTION 20% 4 NOISE 46% 5 SUSCEPTIBILITY TO RFI 75%

Better



The THE Beauty BEAST

Looks are deceiving. There's simply no mistaking the pure elegance on the outside, yet underneath all the beauty lies an absolutely brutal beast - a no cost compromise powerhouse ! Listen once and you'll never turn back. Please prepare yourself, as your views are about to be changed, once and for all.

Prime Design brings you the most seductively powerful sound. Hi-Fi, as you knew it will never be the same. The A-100 can be Configured for Pre-Amp, Power Amp, A/V & 2 Line Outputs. A-100 Integrated Amplifier



### Feature

- 100 WPC into 8 Ohms from 20-20,000 Hz
- 200 WPC into 4 Ohms from 20-20,000 Hz
- 0.005 % Distortion at 1Khz 500W High Current Power Supply
- Full 6 Way Input/ Output Selection
- Configurations for Pre-Amp, Power Amp, A\V, 2 Line Outputs
- Full Electrical & Electronic Protection
- Audiophile Grade Components, Gold Plated Isolation Feet
- Fully Symmetrical Design
- Optional Very High Quality Phono Stage Available £70

UDIEC WELCOME



nto 8 ohm



A-100 Internal View From Above - Designed for Overkill Absolutely no expense spared, see what we mean !

Warning - When using two P-150's in bridged mode please ensure

In order to accurately convey the music in a lucid flowing manner, the A-100 had to be designed with one goal in mind - that was to be the new benchmark at its price. It needed to deliver a lot of power with absolute control, without lagging, complimented by ultra low distortion. To start with, it employs a massive power supply with an enormous reserve. This allows the amplifier to deliver power with utter abandon, and a suitable heat sinking arrangement, facilitates increases in power with respect to difficult speaker loads. This is all well and good, but you need an excellent pre-amp in order to maximise overall performance. The A-100 utilises a specially designed Audiophile Pre-Amp, again with no expense spared. With the future in mind, you are able to use the amp in a number of ways, allowing you a logical upgrade path limited only by your imagination. The results are truly breathtaking and spectacular, Hi-Fi as you knew it has just changed dramatically. Audition the A-100 today and prepare yourself for the demo of a lifetime. . . . . . . . Then:'ll be no turning back !

If absolute overkill wasn't enough there's more .....

## P-150 Stereo Power Amplifier



The P-150 has been designed for the truly discerning audiophile. It has a 625 watt power supply (with even greater reserves than the A-100). Double the output devices, and a suitable heat sinking arrangement, allows a delivery of instantaneous power that will convince you forever. This gives rise to the next level of sonic improvement, which can be achieved by using the A-100 as a pre-amplifier (or any other very high quality pre-amp), and connecting the P-150 Stereo power amplifier. Your system will just sound better and better, as the equipment becomes transparent. Adding a second P-150 will allow Bi-amping your speakers, which will bring about a sonic presentation to be believed. Questions about control, accuracy and impact seem to vanish, as you are totally absorbed in a new found level of musical reality. For the ultimate audio experience on more elaborate systems, you can use the P-150 as a monoblock, and connect four/ six of them onto your speakers. There is simply no substitute for raw power, which when utilised correctly, will produce a sonic presentation distinguished by exceptional transparency and grace, along with extraordinary powerful deep bass and sparkling highs. Audition the P-150 today to change your views forever . . . E.&O.E.

Available from the following quality dealers now, or if you don't see a dealer in your area please call Prime Design for more details Bill Hutchinson Hi-Fi | Bill Hutchinson Hi-Fi | Bill Hutchinson Hi-Fi | Bill Hutchinson Hi-Fi Bill Hutchinson Hi-Fi **Basically Sound** The Card Company Cleartone Empire Empire Glasgow Edinburgh Newcastle Leeds Manchester Norwich, Norfolk London Bolton Birmingham Bradford Tel 0141 248 2857 Tel 0121 643 0972 Tel 01274 309 266 Tel 0131 220 0909 Tel 0191 230 3600 Tel 0113 242 7777 Tel 0161 832 1600 Tel 01508 570829 Tel 0181 906 2119 Tel 01204 531 423 Fmpire Frank Harvey The Hi-Fi Company The Hi-Fi Company Hi-Fi U.K. The Hi-Fi Rooms Infidelity leffries leffries leffries Coventry Edinburgh Eastbourne Portsmouth Leeds Peterborough Leamington Spa Manchester Surrey Brighton Tel 0800 454 980 Tel 01203 525 200 Tel 01733 341 755 Tel 01926 888 644 Tel 0131 667 2877 Tel 0161 832 0888 Tel 0181 943 3530 Tel 01273 609 431 Tel 01323 731 336 Tel 01705 663 604 Manders Music Matters Practical Hi-Fi Music Matters Music Matters Northwood Hi-Fi Paul Roberts Hi-Fi Paul Roberts Hi-Fi Practical Hi-Fi Practical Hi-Fi Grimsby Birmingham Solihull Stourbridge Northwood Taunton Weston Super Mare Manchester Preston Warrington Tel 01472 351 391 Tel 0121 429 2811 Tel 0121 742 0254 Tel 0138 444 184 Tel 01923 820 877 Tel 01823 270 000 Tel 01934 620 500 Tel 0161 839 8869 Tel 01772 883 958 Tel 01925 632 179 Practical Hi-Fi Practical Hi-Fi Practical Hi-Fi Practical Hi-Fi **Richards Audio Rogers Hi-Fi** The Sound Galler V'Audio Worthing Audio Sound Academy Guildford, Surrey Bloxwich, W/Mids High Wycombe Lancaster Bolton Carlisle Bedford Bristol Worthing Blackpool el 01253 300 599 Tel 01524 39657 Tel 01204 395 789 Tel 01228 44792 Tel 01234 365 165 Tel 01483 561 049 Tel 01922 493 499 Tel 01494 531 682 Tel 0117 968 6005 Tel 01903 212 133 PRIME DESIGN, PRIME^ PRIME^ Designed & Designed & UNITS 2/6, 170 DEANS LANE, EDGWARE, MIDDX, HA8 9NT. DESIGN DESIGN Manufactued by : Manufactued by :



TEL 0181 906 0181 FAX 0181 959 5008 

DRIME DESIGN IS AVAILABLE FROM ALL OUALITY HI-FLIDEALERS NOW

## **Copland** CSA8

ere is the entry-level amplifier from a manufacturer with a carefully cultivated image as an entry-level high-end brand. All the right elements are present: engineering standards, inside and out, are very conservative and of the highest quality, though the identically-

priced bright metal alternative is an altogether classier-looking product.

From the outside, the CSA8 could not be simpler. A central level control is flanked on one side by a source selector and on the other by an on/off switch. On the back there are three line inputs, though by user request this figure has been increased to five. Offtape monitoring is not allowed on this model. 4mm brass speaker binding post speaker terminals and an IEC mains socket complete the list. No feature of this product is there just for the ride. This is not simply Scandinavian cool; with every line and detail perfectly proportioned it is Scandinavian minimalism.

The design of the amplifier itself is based on the CSA14 hybrid valve/semiconductor design, except that the two valves in the input differential section of the voltage amplifier have been replaced by transis-





claims no loss of quality or power (60 Watts into eight Ohms) but it does accede to a different, more forwardsounding balance.

## **Sound quality**

There were few major complaints from the panel, but little real enthusiasm emanated from some panellists for this amplifier. One heard it as "lacking excitement" and "acceptable but boring (giving) a 'wrong end of a telescope' view", which could be a complaint of a lack of drama and passion.

This was not a unanimous view however. One listener held precisely the opposite view, specifically commenting on what he heard as "plenty of drama" in the Walton, and a "tactile, gritty and piquant" performance in the Ry Cooder. Another wrote of a "forward midrange, a reasonable soundstage and a fluid midrange", though he did suggest that the sound "wasn't entirely natural". This disagreement was reflected in the scoring, and as always in such situations, the average 58 per cent score fails to tell the whole story.

My own sympathies are with those who took a more positive view. My hands-on listening (the amplifier has been in almost daily use for some months) tells the story of a neutral, trans-

parent amplifier which rarely imposes its own character on the sound, for better or for worse. Those looking for a lead, an obviously characterful sound, will be disappointed.

This is not to say it is bland. Good female vocal recordings (eg Jennifer Warnes) sounded bright, open and clear, while classical piano was resonant and realistic. The bass is simply extended, tuneful and 'breathes' naturally, and the treble is full of life and vitality, rarely sounding under pressure. The CSA8 has the happy knack of sounding consistent as musical dynamics and volume levels change, though if pressed it could be described as slightly forward and glassy.

### Conclusion

This is an amplifier whose qualities tend to insinuate themselves through extended use. It is arguably a little too neutral and transparent to impress in the short-term. It is also the most expensive model in the group, but its excellent musical manners and superb build quality make Recommendation mandatory. *A* 

IULY/AUGUST 1997 77

## THE LAB REPORT

Though not quite on a par with Naim's amplifiers in this regard, the Copland CSA8 is unusually sensitive, requiring an input of just 10mV for 1W/8 Ohms where figures of 30-50mV are more common. The dynamic output of 91W/165W into 8/4 Ohms respectively, looks solid enough but then the amplifier begins to struggle, offering a reduced 153W/111W into 2/1 Ohms respectively. For a given voltage output, distortion is also around 26dB (20x) higher for momentary transients feeding 1 Ohm as opposed to an easier 8 Ohms. Without doubt, the CSA8 is not a frail amplifier (unlike the AMC, Rose or Alchemist) but I'd still recommend you steer clear of insensitive, 4 Ohm-rated loudspeakers.

Copland's attention to board layout has endowed the CSA8 with an excellent high-frequency channel separation (better than 66dB) while the high quality volume control holds true (within 2dB) over a full 80dB dynamic range. A figure of just 60dB is more common these days. The pattern of distortion, meanwhile, is not unlike the Rose Scion with some 0.02 per cent midband increasing to 0.18 per cent at higher frequencies, almost regardless of power output. So, distortion is consistent with Watts, if not Hertz. PMM



## **ON TEST: AMPLIFIERS (ABOVE £650)**

## JoLida 202

N o, I didn't know about JoLida either. It turns out that the company, based in Maryland USA, has been making valve-based studio and guitar equipment for some time, and has a background in manufacturing and sourcing components of various kinds, including transformers and vacuum tubes. Its move into valve amplification was more recent, and this offering has been pitched at the affordable end of the market. The 202 is the second model up in a five-strong range.

The JoLida 202 is a well-specified and compact integrated amplifier, with four line level inputs and a volume control. A tape loop is available as an optional extra, and so incidentally is a tube cage, which might be a good idea if the amp is within reach of children. There is no phono input: the maker recommends the distinctly non-valve-like Audio Alchemy step up.

Rated at 40 Watts per channel (but probably down to single figures at the frequency extremes), the amplifier is dominated by a massive power transformer and the two flanking output transformers, which feed the outside world through four Ohm and eight Ohm taps. Few corners appear to have been cut to achieve the low selling price, which seems to result from offshore component



## sourcing, though final assembly

and testing takes place in the

S.G. - JoLida

USA. In use the amp is simple to operate. The only routine maintenance is biasing of the 6CA7/EL34 output tubes, for which a simple DC millivoltmeter will be required, though this should only be needed after the unit has been transported or when the tubes are replaced (tube life is given at 3,000 hours). The importer is 'investigating' the possibility of including a suitable meter with each amp sold.

## **Sound quality**

It was intriguing to compare this amplifier to the only other valve model on test, the AMC3030a. The JoLida offered much silkier and more refined instrumental and vocal textures, and a still more dynamic musical envelope, a trick it managed to combine with a more natural, less forced quality when dealing with individual sounds. The whole effect was more coherent and natural, and this is an amplifier that most would recognise as being valve-like, though on the minus side the JoLida sometimes sounded a little bland, or at least understated.

The panel liked this amplifier, marking it above average, with little variation from listener to listener, and one did indeed describe it as "kinda tubey", commenting on its "big" sound, and its "somewhat diffuse, de-

focused" imaging. Following the Walton presentation, he wrote of a "good scale and tonality, but detail and substance could be greater", and that it was "one of the more endurable renditions, but not one of the most gripping". Other comments were broadly in the same direction. "Not especially detailed, but clean" said one, while another pointed to the bass which he felt "could have better control" and on its "clarity and smoothness", when dealing with the Allison Krauss and the Walton respectively.

0

Technically the JoLida is quite proficient, with a quick warm-up, well controlled background hiss (but of course no phono input) and no necessity for cooling fans with an amplifier that literally lets it all hang out.

### Conclusion

Here is a capable valve amplifier with classic valve-type virtues and few vices, either practical or sonic, though the level of detail is limited. Whether you like this kind of amplifier is a matter of taste: of its type and price, it's an undeniably strong contender. *AG* 



## THE LAB REPORT

Like our other valve candidate, the AMC 3030a, the JoLida suffers through transformer core saturation at LF, so its bass power output is limited to 9W (re. 2 per cent THD, 8 Ohms) even though some 40W is possible through the midband. JoLida quotes a maximum output of 60W though, even if it were possible, the levels of distortion at this output would probably render it unlistenable.

Otherwise, the patterns of distortion are unusual even for an 'Ultra Linear' EL34-pentode-based amplifier. THD increases at the frequency extremes but, even through the optimised midband, varies from 0.02 per cent up to 0.1W, to 0.4 per cent at 0.1-2W before peaking at 0.9 per cent between 4-5W and then falling back to 0.6 per cent before reaching the true 'clip' point at 40W.

Unlike our other tube amp, however, the JoLida has a response that's perfectly flat from 20Hz-20kHz and even extends beyond 100kHz (+0.2dB) where, in certain circumstances, it could get into all sorts of trouble (see *Oasis*, issue 167). Otherwise, the A-wtd S/N of 81.7dB (re. 1W/8 Ohms) is not bad for a tube amp, though the unweighted –58.9dBV hum contribution does take the wind out of its sails. *PMi* 

## **Musical Fidelity** A220

The A220 slots somewhere in the space between the A2 and the A1000, delivering a claimed 50 Watts into an eight Ohm load (though subjectively it seems more), or 100 Watts into four Ohms. The amp is described as Class A, and although it is probably more correctly described as an enriched Class

AB or some such euphemism, the A220 is certainly biased strongly towards Class A, and even with no signal applied the amplifier runs hot. Despite this, aural warm-up is quite rapid.

In design, the A220 represents continuity rather than revolution. The design is based around paralleled pairs of MOSFETs, a substantial power supply (the A220 was one of the heaviest amps on test, which is a fair reflection of the massive power supply) and very little else. There are no gimmicks here, and facilities are strictly minimalist, with a volume control, a source selector and a tape-monitor switch (for off-tape monitoring) under user control. A record deck equipped with a moving-magnet cartridge can be used, along with three line-level sources and two tape decks.

Build quality is one of the highlights of



RUSOLFACHT A20 CLASS ANTEGRATED AMPLIFIER SS A220 is this class A, design. You may or Class A, design. You may or

may not like the massive rounded controls, but there is no doubt about the visual unity or flair of the design, or the exemplary standard of fit and finish. There is minute attention to detail, such as in the complete elimination of fixing screws when viewed from normal angles, and the use of self-indicating LED markers in the rotary controls.

### **Sound quality**

Musical Fidelity amplifiers have a tradition for sounding warm and mellifluous, but this seems to have been reined back here. Comments from the panel pointed to a "dry quality to the plucked instruments" (Allison Krauss) and "verging on the bright" (same music, another listener). One thought the amplifier was a little uncomfortable to listen to, but the general view was summarised fairly by the following remark: "a big sound, very sweet and tuneful" (Poulenc) and "very easy to enjoy the music rather than pick holes in the sound". Another pointed to "very well defined" and "clear" voices in the Walton choral piece.

My own hands-on listening conclusions tended towards the more positive of these views, though experience with a range of speakers, including the remarkable Sonus Faber Concerto with its laser-like pre-

cision, has shown that the A220 tends to sound laid-back, though this is more likely to be related to a marginal loss of extreme treble than an excess of bass. In any case the amplifier performed consistently well from system to system, with a greater sense of solidity and physical presence than some of its rivals. The phono input was felt to err more on the side of warmth than the line stages, but again the amplifier injected a tremendous sense of clarity and transparency into proceedings, and the word 'compelling' made more than one appearance in the listening notes. The amplifier scored consistently highly from listener to listener.

## Conclusion

Strong recommendations in upmarket integrated amplifier territory have traditionally been rare, but this is an excellent product, with bags of civilised power and authority, and an almost clinical output on music that stops short of being excessively sharp or aggressive. Highly Recommended. *AG* 

## THE LAB REPORT

Now firmly settled into production, MF's hot, black and generally rather glossy A220 has witnessed a variety of running improvements. For example, over the last few months its S/N has edged up by 3dB to 90.7dB (re. 1W/8 Ohms) while its midband distortion is now better than 0.001 per cent at 1W. This is held to just 0.0016 per cent at 20kHz, though just when MF was challenging the linearity of Marantz's PM-66KI Sig, the A220's distortion suddenly jumps to 0.035 per cent at two-thirds power.

The fact that the A220 enjoys very low high-frequency distortion is linked to the idealised Class A biasing at low power. Flat-out, the A220 drifts into Class AB territory while delivering some 85/133W into 8/4 Ohms respectively. The low 0.022 Ohm output impedance and healthy, though not exceptional, 14.4A current delivery all contribute to the A220's good grip of a wide variety of loudspeakers. However, it's worth noting that while the A220 is marginally more capable than the Quad or Roksan in this group, cheaper models like the Marantz, the Arcam and NAD offer even greater power outputs. A very well balanced design nonetheless. *PMI* 



## **ON TEST: AMPLIFIERS (ABOVE £650)**

## **Quad** 77 Integrated

he Quad 77 integrated can be used freestanding with a limited range of inputs (two, plus tape, with off-tape monitor); or as part of the Quad 77 system, with a fully-integrated interactive remote control. In system form, any 77 source components (up to a theoretical maximum of 31) appear on the QuadLink system bus, which also carries power and control signals as well as balanced-mode audio, leaving the three hard-wired external inputs available for any additional non-77 series components. The review of the 77 pre/power amp in a previous issue (HFC April 1997) describes the remote console more fully, but the test amplifier was supplied without, and priced accordingly (below).

Technical highlights include multiple independent regulated power supplies, and an unusual 'highly optimised' class B output stage, which is claimed to yield less distortion than typical Class AB output stages, and to be capable of 84 Watts into eight Ohms (11 Amps peak with the usual stipulations), rising a little to 115 Watts/four Ohms. The digitally-controlled analogue volume control maintains an accurate channel balance at low volume levels, but the volume control steps are too coarse for my lik-





preamplifier output is provided, which is the key to future upgrading, using external power amps for bi- or multi-amp systems. Balance is adjustable: tone is not. Typically for a modern Quad amplifier, the 77 is well protected against short circuits and overheating. Packaging, however, is a mixed bag. The compact diecast casework is first class, but the front panel controls, display and backing plate are simply not in keeping with the product's quality pretensions.

### **Sound quality**

The Quad 77 scored well on test, a figure that was held back by a poor score from one listener who regarded the sound as "a little cold", though he went on to temper this by suggesting that "it could in fact be deadly accurate and the recording is at fault". The other panel members took a more sympathetic view. "The choral work comes across with authority and good definition" wrote one of the Walton, another commenting that the Quad "untangles the voices and makes for a more intelligible presentation". Ry Cooder was described as "purposeful and articulate" by one; another wrote of the Poulenc "lends piano a bit of authority" noting "a nice interplay" between the piano and clarinet. The Allison Krauss was described as "live, vibrant and energised, not exactly relaxed but not ingratiating either".

In many ways the Quad 77 integrated amplifier auditions very similarly to the Quad 77 pre and power amplifiers. The sound is characteristically bold, vivid and colourful, and almost as well suited to energetic rock music as to the more classical forms traditionally associated with the brand. The Quad 77 performed more consistently than many otherwise fine amplifiers at different volume levels; indeed unless the amp was driven hard into clip, there was no identifiable change in tonal or dynamic performance at any setting. At the same time there is a trace of coldness with this amplifier which can be identified in some combinations (the Sonus Faber notably), though some panellists (the author included) rather like the Quad's crisp, rather matter-of-fact style.

### Conclusion

The Quad 77 is powerful beyond its dimensions, and musically capable with it, sacrificing remarkably little to its sophisticated peripheral functionality (the system bus and related circuitry). The amp makes a bold and very clear musical statement, yet superimposes little electronic character of its own. Another good Quad — Recommended. *AG* 



## THE LAB REPORT

Quad's digital volume control operates in 1 and 2dB steps over the top 23dB of its range, increasing to 3, 4 and then 5dB steps before reaching –85dB (equal to 01 on Quad's 32-step front panel display) with a channel balance accuracy of 0.1dB! Volume position 00 takes the 7701 into mute (or –114dB re. full output, to be precise). Having overtaken the performance of conventional analogue controls, these digital attenuators have finally come of age.

The amplifier's 90.7dB S/N ratio (re. 1W/8 Ohm, A-wtd) is equally impressive and quite the best in this 14-way survey, though this does further expose an extreme sensitivity to RF interference. First detected with the 77 pre/power combination in issue 165, this is one foible Quad must address to enhance the compatibility of all its amplifiers.

Meanwhile, although the 7701 is a robust amplifier, nonetheless it gives of its best between 8 and 4 Ohm loads where the dynamic output increases from 125W to 211W. Below 4 Ohms, although this is very well controlled, there is some obvious VI-limiting taking place, reducing its headroom to 176W and 115W into 2 and 1 Ohm loads, respectively (contrast with Arcam Alpha 9, page 71). PMI

## **Roksan** Caspian

his is the first amp from Roksan since its absorption into the Verity empire, which embraces such famously powerful brands as Mission and Quad; so the Caspian is clearly important in more ways than one. Indeed Roksan has made its task even harder by pitching its new mainstream amp, which simply has to sell well, directly against the Quad 77 (which is built in the same factory) and the Cyrus III.

The Caspian amplifier is essentially a purist, straight-line design, using excellent materials, with an elegant and practical remote-control user interface. The simple, stylish handset (visually similar to one used by Mission) performs all functions, or you can use the rotary front-panel source selector, mode (power on/standby) switch and ALPS volume potentiometer. The grippy rotary control surfaces, and the carefully designed central function display, with colour coding of operating status, are a joy. The Caspian has a feeling of quality that is missing from most of the other amplifiers, with the obvious exception of the significantly more costly Copland.

The only surprise, given that Roksan is one of the few heavyweight names still associated with high-grade record playing hardware, is that the amp is only a line-level





can be redressed with the Artaxerxes 10 universal stepup/equaliser which will allow turntables to connect to any line input, though the starting price is £395.

### **Sound quality**

The amp scored impressively, despite being marked down by one of the panel on the grounds of sounding "smallish, with shrill voices as the level swells, and dynamically restricted" (Walton, with similar comments made about the other music extracts). This, however, was very much a minority view, the following being more typical: "natural with good plucked leading edges and nice vocal quality" (Allison Krauss); "very well defined spatially - it does all the things it is supposed to" (Walton again); and "the first instance of leading edges today, and without a forward balance to (falsely) enhance it" (Ry Cooder). These comments were submitted by three different listeners.

This amplifier was tested hands-on with a wide range of partnering equipment, and acquitted itself very well indeed. It offers the system-to-system consistency of an Audiolab, but with an audio character all its own, consisting of a slightly warm bass, a gentle, refined mid/top and very explicit and natural stereo imagery. The midrange has a special purity and invests complex recordings with a sense of separation and space that few other tested amplifiers could

hope to achieve. Picking examples from the test music seems pointless as the amp's qualities were almost always apparent, but if pushed, the Caspian could be described as an amplifier that doesn't make excuses for inadequate source material, but which goes more than half way to making the most of good recordings

## Conclusion

In its independent past, Roksan trod a slightly uneasy dividing line between excellence in fundamental concepts and in the materials employed, and slightly flaky execution. The change to Verity ownership has given this new design a thorough professionalism, though the new visuals, and to an extent the character of the sound, both emphasise continuity with yesteryear. The Caspian sounds like a more civilised and slightly relaxed version of previous designs.

At its best with like-priced ancillaries strong on control and resolving power, the Caspian amplifier is in danger of setting new standards at the sub-£700 price level, and clearly ranks as Best Buy material thanks to its combination of musical excellence and fine build quality. *AG* 

## THE LAB REPORT

Alvin has already alluded to the common heritage of this Roksan amplifier with the Mission SL and Quad 77 models featured elsewhere in this test. Sure enough, each is the result of efforts from distinct design teams and yet, when it comes to speaker protection (or is that 'over-protection'?), all three adopt a corporate approach that errs on the side of caution. For example, the stiffly regulated power supply maintains a + 2dB boost from 91W into 8 Ohms to 141W into 4 Ohms (though this necessarily squeezes the *dynamic* headroom to + 0.9dB or 111W) while similar gains into lower impedances are thwarted by a protected 13.1A limit (170W into 1 Ohm).

There's a slight -0.2dB/-0.5dB tailoring at the frequency extremes and, in this instance, a high +80mV DC offset that will undoubtedly bias the bass cones of some loudspeakers. Distortion is low at between 0.006-0.02 per cent across the audioband, though performance actually becomes more consistent as the power output increases, settling out at an even 0.007 per cent distortion. A fine result. Meanwhile, the S/N ratio is well-judged at 84dB, channel balance and separation are first-rate and the input loading a thoroughly friendly 32 kOhms. *PMi* 



## **ON TEST: LOUDSPEAKERS**

# Conclusions

his month's test sample included both genuinely distinguished performers, and those that are interesting for other reasons. Prime Design's offering represents a brave investment in the future of high fidelity. Its amp is a worthy and honourable first offering that will almost certainly be refined in the near future. Pioneer has introduced new component technology in its A-605R, while other more-than-capable newcomers hail from Cyrus, Musical Fidelity and others. There's a prize-winning racehorse of an amplifier from Marantz, and the first Roksan made in Verity Group captivity. And we haven't mentioned two valve-powered integrated models, NAD's bridgeable powerhouse, and the biampable model from Arcam.

Unusually, three models broke down on test — Pioneer, Prime Design and Marantz. AN Other amp failed so abysmally it was banished from the test group altogether. The Prime Design suffered a protection fault, it would seem: when returned to the company the amp was fully functional, but its replacement briefly suffered the same problem. This problem should be easily resolved in the fullness of time.

When this test was first commissioned it looked unlikely that the hotly-awaited

Marantz K I Sig would be available. At the last minute, however, a review sample became available, and we included it here even though it was too late for the 48-hour, pre-listening soak test to which every candidate is customarily subjected. That breaking-in period would have revealed a dry joint on the Marantz's main circuit board — an extraordinary fault I'm sure.

No report had been received on the faulty Pioneer at the time of writing.

All in all, then, a notable group of products, particularly for indicating that an increasing number of amps combine good looks with sound quality to die for. Bravo!

## **GROUP A (BELOW £470)**

AMC3030A	£399.95
Cyrus SL	£398.00
Marantz PM66-KI Signature	£399.90
NAD317	£469.95
Pioneer A-605R	£399.95

Below £470 our group was extremely diverse. The market has been waiting for the **Cyrus SL**, for example, since existing Cyrus amplifiers began to escalate in price. This unit marks a welcome return to simplicity for the brand. The **AMC CVT3030a**, by contrast, is truly ugly, but who's complaining when the subject is a valve output design costing just £400? It might seem a bit rough and ready, but it is the second generation of the design, fully debugged, and it didn't trip up on test — more than I can say of some solid-state models here.

Ostensibly the **Pioneer A-605R** is an oldfashioned throwback to the age of well-filled facias, but Pioneer has done a tasteful job of balancing features with form. A front-panel flap can be used to conceal the knobs and buttons. In sound quality it offers little to comment upon, but in technology it does, thanks to a new power HEX MOSFET semiconductor, and a rationalised circuit that has been erected around it. We'll wait for the Precision version to divine its true capabilities!

The Marantz PM-66 KI Signature is the hot-rod version of the PM-66SE tested in last month's issue. £100 transforms this amp into

a small fire-breathing monster. If the latter specialises in subtlety, the **NAD 317** deals in brutality — at least as far as power output is concerned. It appears to be a well-judged amp under its skin, and is almost as versatile as an egg. In its musical performance it's not one of the best latterday NADs, but it is capable of driving almost any loudspeakers, no matter how demanding a load they present.



## **GROUP B (£470-£650)**

Alchemist Nemesis	£650.00
Arcam Alpha 9	£499.90
Prime Design A-100	£650.00
Rose Scion	£615.00

Arcam has remained at the forefront of specialist amp manufacturers simply by sounding better. Its products look more fully equipped in

comparison with competitors that have donned purist audiophile clothing. Of course this success has been founded upon remembering that sound quality comes

## GROUP B (£1.551-£1.850)

Copland CSA8	£945.00
JoLida 202	£695.00
Musical Fidelity A220	£699.99
Quad 77 from	£699.95
Roksan Caspian	£695.00

This group proves how widely varying results can often occur when different companies try to achieve the same overall goal. All five candidates are purist, straight-line amplifiers, bereft of tone controls, multi-speaker switching or the like, and all are superbly packaged. The **JoLida 202** sticks out as a purist, relatively low-power valve amplifier, though it turns out not to sound first — having proved itself in conjunction with the 9P power amp (*HFC* 165), the **Alpha 9** now upholds its reputation as a solo product.

The **Alchemist Nemesis** looks like Darth Vader's hi-fi, but Alchemist's founders have their origins in serious hi-fi (Musical Fidelity, as it happens), and this unit actually sounds much



so valve-like as to rule itself out of the running. It is a distinguished new entrant, and in the overall scheme of tube amps, good value.

The **Copland CSA8** is Scandinavian cool personified, and it performs with the easygoing competence now associated with the marque. Copland's



less extravagant than it looks.

Two final products might be described as works in progress. The two-box **Rose Scion** integrated sounds a little weak dynamically, and its packaging seems rather wobbly, but it offers fine midband coherence and refinement.

There's nothing wobbly about the **Prime Design A-100**. In fact, its sometimes relentless musical style will only suit a certain kind of aficionado. However, even though it is a first outing for a new British company, we were impressed by overall standards of fit and finish.

than many companies' most expensive.

The **Quad 77** is based on the QuadLink 'system bus' concept, and works best with Quad peripherals, at least from a control and flexibility point of view. However this design concedes nothing musically, and indeed serves only to remind how much this once greyerthan-grey brand has been revitalised of late.

The other hot one in this group is the **Roksan Caspian**, which dispels any questions over Roksan's position within the Verity plc empire. This is a very accomplished amplifier indeed, which is sure to make the likes of Audiolab look to their laurels.

## **BEST BUYS**

nly two models were deemed sufficiently strong all-rounders to warrant full Best Buy status. The Marantz PM-66 K I Signature is an

extensively improved version of the PM-66SE, personally endorsed by fabled hi-fi designer Ken Ishiwata. Some of the improvements might look gimmicky, but the

design speaks for itself, and this refined, articulate design is a real scavenger of detail.

The **Roksan Caspian** sounds similar to the Marantz, but offers warmer, more solid bass and a more relaxed treble. It is also significantly



more powerful. This is a distinguished design of exemplary musicianship, which is also superbly built, and will no doubt be a yardstick at this price for years to come.



## RECOMMENDATIONS

Arcam Alpha 9

o achieve *Hi*-*Fi Choice* Recommendation is no mean feat, and in this test only five contenders (other than the two Best Buys) garnered a gong. Some might argue that worthy and/or promising machine has been passed over; however we have pondered long and har

over each candidate's merits and potential for providing long-term audiophile satisfaction. In ascending price order, we start with the **Cyrus SL** the Straight

start with the **Cyrus SL**, the Straight Line budget Cyrus with minimal but adequate features, drop-dead gorgeous looks and a sweet, crisply-defined sound. The **Arcam Alpha 9** also sounds excellent, but has the particular virtue of b e i n g readily improv-

able (it can be bi-amped to particularly good effect), and it can accept a phono input board. This is a great all-rounder which

at the same time has just enough knobs and buttons to Took

Cyrus SL

like a top-value package. Next we

have the **Quad 77**, integrated amplifier in a lineu p w h o s e members have a l r e a d y proved themselves the bestsounding Quads yet. The only potential drawback is the family dependency on a propri-



etarv 'data bus' system for sig-

nal interchange, meaning there's a limited number of phono-socket signal inputs. The full joy of using the Quad really comes from the superb interactive remote control con-

sole that is an optional extra.

Our penultimate recommendation is bestowed upon the **Musical Fidelity A220**. This is simply a great all-round amplifier, doing all things well rather than being exceptional in particular areas. It's an amplifier to live with.

Similar comments apply to the **Copland CSA8**, which is an ultra-simple and finelyhoned design whose high price tag is readily excusable when you see how painstakingly it has been bolted together.



BEST OF THE REST

here are some strong existing models in the price-band covered in this issue. The £400 harman/kardon HK1400 is one of the better models in a range that's improved lately, and the distinguished Pioneer A-300R Precision comes in at the same price. There are no less than two important models from Audiolab: the venerable 8000A at £550, and the excellent 8000S at £650. The Densen Beat B-100 is

a striking rock'n'roller at £600, and at £500 **Musical Fidelity's A2** slots in below the A200 in this test, with compatible virtues.

Finally there's the  $\pounds 575$  Naim Nait 3, which is idiosyncratic (and unmissable) as ever.

Quad 77





"I thought I had this buying hi-fi business sorted out. I bought all the hi-fi magazines and read them thoroughly, because I reckoned their experts knew exactly what they were talking about - at least a lot more than I did! It was reassuring to see the same product names cropping up regularly and I figured the writers' experience and guidance would steer me straight to the system of my dreams. The trouble is I've ended up more confused than when I started.



One reviewer said a product I fancied was absolutely brilliant but another said it was nothing special at all. How can that be? Surely one CD player is pretty much the same as another? And how can a loudspeaker that's one magazine's top recommendation not get so much as a mention in any of the others? I don't mind admitting it, I'm completely lost."

## Plan B — I'm going for a deal

"So, I've decided to adopt plan B. I'm sure there can't be any really dramatic differences between all this gear and it's all bound to work together properly, so I'm going to check the price lists and the adverts and shop around for the best deal. I know getting the right hi-fi is important — hey, I'm as mad about music as anyone — but if I can get close to the mark and save a few quid, I'm sure I'll end up with a good system and be happy. I know there are specialist shops out there that do demonstrations and reckon they've got all the solutions but, to be honest, I'm a bit scared of going to one. I'd really welcome some advice and guidance but I don't know all the technical jargon and I'd feel daft sitting there trying to "hear the differences" if I couldn't. Anyway, a friend told me that these shops only sell the really expensive gear and that they're not interested if you don't have loads of money to spend."

And so another hi-fi buyer starts his journey down the road to dissatisfaction, endless upgrades and a permanent overdraft. There is only one way to buy a hi-fi system that will prove satisfying, reliable and deliver true value for money, and that's through a specialist hi-fi dealer. Let's face it, you wouldn't think about buying a car if you couldn't take it for a test drive. You wouldn't buy a house solely on the strength of seeing the estate agent's details and a photograph. Even if you're spending far less, say buying a jacket or a pair of shoes, you want to try them on to make sure they fit you.

Buying a hi-fi system is no different. It doesn't matter what the specifications say or what the "experts" think: if it doesn't measure up to what you want from a system, then it's not the right choice. Knowing that you've bought a room full of five-star favourites or best-buys is no consolation when you can't bear to listen to them for more than five minutes. Even that ten per cent discount on the price won't make them sound any better.

## Buying or being sold to?

Mind you, most of us are easily suckered when it comes to buying hi-fi. Given the choice of venturing into the unknown territory of a specialist dealer's shop and exerting some influence over what we buy, or taking what looks like the easy route having adverts and magazine reviews push us along a path sweetened with discounts and special offers — we opt for the latter. We don't buy a system, we allow ourselves to be sold one. We side-line our own ideas about quality and personal satisfaction and buy someone else's opinion of what's good for us and good value for our money.

## **Take control!**

Now there's a group of long-established, independent specialist dealers who are totally committed to putting the customer back in the driving seat. They're encouraging the buyer to take control ... with a little help and guidance provided where required. They know how difficult it can be to establish the true quality and

## Ue Ask the UK's top twenty specialist hi-fi dealers.

worth of hi-fi and home cinema systems. They know that without experiencing the performance of the systems they offer, you can't possibly assess the value of them. That's why their idea of "selling" is to play the systems for you and allow you to be the judge.

Listening to your choice of music in a peaceful, well organised

demonstration room, you may be surprised and, almost certainly, relieved to discover how easy it is to hear the differences between components and between systems. With the dealer's help and advice you will be able to make a clear and informed decision about what to buy. It comes down to trusting your own judgement rather than the opinion of a reviewer you've never met ... and who won't refund your money if you're not satisfied or be at the end of a phone to sort out any problems you might encounter.

The story doesn't end there. These shops won't abandon you once you've put your hand into your pocket. They won't

leave you to set up the system you've selected as best you can. They'll install it in your home, make sure it sounds great, and make sure that you're entirely happy with the way it works.

## Why bother?

There is, of course, one question that hasn't been answered: why should you and these dealers go to all this trouble? Well, from your point of view maybe it's because a good deal is about a great deal more than just price. Unless you've got money to burn, you'll be living with your new system for years — years during which most of those five star products will probably stop shining quite so brightly. As far as

the dealers are concerned, maybe they believe that taking care of their customers properly is a nicer way of doing business than just handing over boxes.

Listed on the right of this page are the best hi-fi shops in the country. They all have lots of stars. You'll find them on the shop floor: they're the people waiting to guide customers towards hi-fi that will give them years of musical enjoyment and total satisfaction.

## **STAR QUALITIES**

value for money service facilities verdict

*	★	★	★	★
		*		$\star \star$
				×

## **TOP 20 SPECIALIST HI-FI DEALERS** IN THE UK

LONDON N1 Grahams Hi-Fi 190a New North Road 0171 226 5500

Oranges & Lemons

61/63 Webbs Road

0171 924 2040

SW11

Battersea

W4

MIDLANDS Banbury Overture 3 Church Lane 01295 272158

Birmingham Sound Academy 152a High Street

Martin-Kleiser Ltd 108 Chiswick High Road 0181 400 5555

SOUTH Ashford, Kent 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 0181 943 3530

Rayleigh, Essex 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

Bloxwich 01922 493499 Leicester Cymbiosis

(Formerly known as Listen Inn) 6 Hotel Street 0116 262 3754

Northampton Listen Inn 32 Gold Street 01604 37871

Shrewsbury Creative Audio 9 Dogpole 01743 241924

## NORTH

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 Edinburgh

**Russ Andrews Hi-Fi** 34 Northumberland Street 0131 557 1672

## Glasgow

Stereo Stereo 260 St. Vincent Street 0141 248 4079

BIRMINGHAM



rasers Alchemist, Alon, Arion, ATC, Audiomeca, AVI, VIDEC Cadence, Chord AMPS, Electrocompaniet, Harman FOR BETTER HI-FI IN THE THAMES VALLEY Kardon, Heybrook, Jamo, Lyra, Michell, Origin Live, **AUDIO & VIDEO SPECIALISTS** Ortofon, Pink Triangle, Pro-ject, Ruark, REL, Shearne Agents for: Audio, SME, Sonic Link, Stax, Sugden, S ふち TECHNICS, KENWOOD, ROTEL, NAKAMICHI, B&W. PIONEER \* DENON \* YAMAHA Vi Townsend, Triangle, Wadia + MORDAUNT SHORT, SONY, PANASONIC, MITSUBISHI, PHILIPS, AIWA, J.V.C., WHARFEDALE, INFINITY ONKYO \* NAD \* KEF \* MISSION FREE DELIVERY • DEM ROOMS AT\* VISA -----37 Stoke Road, Slough SL2 5AH (01753) 538287 QUAD ★ MUSICAL FIDELITY 252/254 High Street, Slough SL1 1BN (01753) 538288\* 117/119 Oxford Road, High Wycombe HP11 2DN (01494) 528605\* HOME CINEMA SPECIALIST ESSEX 9 Market Street, Aylesbury HP20 2PN (01296) 25119\* 11 West Street, Marlow, Bucks SL7 2LF (01628) 483555 Unit 35, Observatory Centre, High Street, 83 High Street, Maidenhead, Berks SL6 1JX (01628) 778611 Slough, Berkshire SL1 1LE 11 Princess Square, Bracknell, Berks RG12 1LS (01344) 869898 GRAYSTON sound&vision Tel: (01753) 531875 LINN OUAD MERIDIAN ARCAM B&W ROSTON CAMBRIDGESHIRE BIRMINGHAM HARMAN KARDON Comfortable demo rooms PHILIPS/MICHELL Free delivery/installation THORENS DENON Home trials CAMBRIDGE HI-FI ROTEL/MUSICAL FIDELITY Norman H. Field Hi-Fi Musical eveninas HARBETH KEE REFERENCE Excellent credit facilities Technics HI-F **Consultants for Home High Fidelity** PIONFER PRECISION available INFINITY ■ B & W ■ Thorens NAC 33 Sir Isaac's Walk. Colchester. Tel 01206 577682 ■ Denon ■ Tannov HOME CINEMA Castle Yamaha A Sound Dealer With Vision Dual Kenwood 1-3 Hawthorn Way, Cambridge Tel: 01223 367773 Fax: 01223 353741 Mordaunt-Short 9.30-5.30 Mon-Sat Technics Free Parking Chew & Osborne Two-vear guarantee University Audio Akai • Alphason • Arcam\* • B&W • Bang & Olufsen • Bose • Private Listening Rooms Celestion • Dual • Harman Kardon • Kenwood • Quad\* • Marantz • Mordaunt-Short • NAD • Nakamichi\* • Pioneer • Ruark • Sony • HURST STREET MAIN AGENTS FOR: A.T.C. • CYRUS • DENON • LINN MARANTZ • MERIDIAN • MISSION MONITOR/AUDIO • MYRYAD QUAD • YAMAHA **3 DEMO ROOMS** Wharfedale • Yamaha • **BIRMINGHAM B5 4BJ** \* Epping and Saffron Walden only Telephone: 0121-622 2323 148 HIGH STREET • EPPING • TEL: (01992) 574242 26 KING STREET • SAFFRON WALDEN • ESSEX • TEL: (01799) 523728 CHESHIRE TELEPHONE: 01223 354237 FACSIMILE: 01223 322079 GLASGOW SOUND Loud **CUMBRIA** <sup>®</sup>Clear ....Setting new standards -MUSIC Glasgow's newest \* Naim \* Systemdek YSON friendliest & best **RETAILERS OF FINE HI-FI** in Hi-Fi retailing! \* Marantz \* Epos Hi-fi Store. \* Exposure \* Royd 95 NANTWICH ROAD 520 St Vincent St If you want to see the best brands - want a CREWE, CHESHIRE CW2 6BA \* Alchemist \* Kef Finnieston, Glasgow great deal with the best service and demo \* Mordaunt Short 0141 221 0221 \* Denon included - pay us a visit. Interest free credit - installation & service facilities - three comfortable demo rooms TEL: 01270 214143 6 ABBEY STREET, CARLISLE (01228) 46756

assified



WEST MIDLANDS



## YORKSHIRE



Classified



Mail Order and Export Service								
AUDIO	DE	SIG	INS :	SPECIAL	OF	FEF	RS	
PRODUCT	STATUS	WAS	NOW	PRODUCT	STATUS	WAS	NOW	
ArcamBB500	new	749.90	499.90	Linn Majik Line	xd	650.00	499.00	
Audiolab CDM/DAC	xd	2299.80	1719.80	Linn Majik Phono	xd	800.00	599.00	
Audiolab 8000C	xd	549.90	459.90	Linn Kremlin	xd	2600.00	1799.00	
Aura VA80	xd/new	279.90	139.00	Linn Kairn	xd	1700.00	1360.00	
Aura VA100/II	xd	399.90	279.90	Linn Kaim				
Aura TU80		349.90	229,90		s/h	1700,00	1190.00	
Bose 901	s/h		299.00	Linn Keılidh Cherry	xd	850.00	649.00	
B&W 305	xd	349.00	296.00	Linn Mimik	s/h		399.00	
Cyrus III	xd	499.90	369.90	Naim 42.5/90	s/h		399.00	
Cyrus Disc/Dac	xd	1500.00	1225.00	Naim NAP135	хd	1655.00	1399.00	
Cyrus Disc/Dac	xd	1500.90	1325.00	Naim NA AV1	xd	1680.00	1386.00	
Harman AVP2		799.00	559.00	Naim SBL	xd	1830.00	1509.00	
Kef 100 Centre	xd/new	359.00	299,90	Quad ESL63	xd	3450.00	2760.00	
Kef Reference 1 Rosatta		1399.00	1199.00	Quad System Console Ne:		299.95	255.95	
Kef Reference 2 Black	xd	1599.00	1299.00					
Linn Arkiv	xd	1000.00	800.00	Quad 77 Amp Nextel	xd	699 95	599.95	
Linn Kłyde	xd	500.00	400.00	Rel Stentor (Oak)	xd	1695 00	1355.00	
Linn Lingo	xd xd	750.00 1500.00	600.00 1200.00	Sony MDP850	xd/new	749.90	499.90	
Linn Ekos Linn Klout	xd		1798.00	Thorens TD166UK	xd/new	399.99	339 00	
Linn Klout	xu s/h	2400.00		Yamaha DSPA590	new	349.90	299 90	
Linn Numerik	s/h	1500.00		Yamaha DSPE390	new	249.90	219.90	
Linn Keltik Yew	s/h	6000.00		Yamaha RVX590RDS		449.90	379.90	
Linn Keltik Walnut	s/h		4000.00	Yamaha KX580	new	249.90	219.00	
				- Various Sets Special		243 30	213.00	
				UDIOLAB, CASTI		ORD (	'O	
CYRUS, EPOS.	LINN.	MAR	NTZ, MI	ISSION, NAIM, QU	AD, R	EL, RO	TEL,	
				QUE, TARGET, Y				
26 High Str	eet, E	ast (	Grinste	ad,West Sus	sex, I	RH19	3AS	
1 5				-+ 0 20 E 0				

Open Mon-Sat 9.30-6.00. Tel: 01342 314569/328065

## EQUIPMENT SUPPORTS



Uprights can be damped for fine tuning. Individually spiked 8mm toughened glass shelves.

Lively, excellent clarity and separation . confidently recommended. Jimmy Hughes, Audiophile.

Yet to find anything close. Dominic Baker, HiFiWorld.

## arrow consultancy ltd

Unit 1 Priory Works, Priory Crescent, Southend-on-Sea, Essex SS2 6LD Tel 01702 611451 Fax 01702 469078

## sound by design

I really am not interested in making the one time sale. Rather, I want you as a longtime repeat Customer. Earning your confidence is the key to this philosophy, and that I do by offering an honest service tuned to your needs P.Savic

### SALE OF EX DEMO/REVIEW PRODUCTS RARE OPPORTUNITY TO OBTAIN

QUASAR turntable at very special prices!

	RRP	SALE
QUASAR Limited Edition	£1960	£1300
QUASAR LE/Chrome-Gold	£2383	£1700
SPECIAL !!! Even though our interd	connects start at	£30.00 the

SPECIAL !!! are true 'high-end', from sound quality to build quality to materials quality.

CUSTOM MADE - SBD INTERCONNECT AUDIO CABLE High definition, double shielded audio cable, made of oxygen free pure copper with 24k gold RCA plugs, 1m stereo pair.

£34.00...10-day money back guarantee PURESONIC INTERCONNECT AUDIO CABLE...rated 5 stars WHAT HI-FI PURE OFC conductors with teflon insulated 24k gold plugs,...1m stereo pair £30.00

### NEW FROM USA !!! PORON PADS - Anti vibration cushion pads.

The unique cell structure of PORON Cellular Urethanes offers an outstanding combination of properties including excellent compression set resistance and high energy absorption. - ideal support for turntables, pri/amps, cd players etc. £12.00 per set of 4 discs / Dia.50mm - Black...10-day money

back guarantee

### GREAT NEW ARRIVAL !!! TWO IN ONE-ENERGY ABSORPTION PLATFORM

Multi (sandwich type) laminated layer-dumped assembly dissipates mechanical vibrations and transfers mechanical energy from the equipment to the platform and then down through material of different mechanical impedance in which it is transformed as heat...£POA

Tel/Fax 0181 286 4343

## MAIL ORDER

HIGH INTEGRITY PRODUCTS LTD

Manufacturers of High Integrity Interconnect Cables  $\sim$   $\sim$  Make your system sound even better  $\sim$   $\sim$ 

Type K3.....OFC, shielded. 5.0mm dia, gold plated connector. Type K4.....OFC, Fully shielded. 8.0mm dia, hard gold plated connector Type K5..., Pure silver core, silver plated shield, hard gold plated high quality conr Prices from £39.99 to £116.99 per metre pair, fast delivery.

call us on 01799 542386 for more information

Send for full information pack. Prices include VAT. Please add £365 £10 carriage for UK per item and allow 28 days for delivery. 14 day money back

£265

£139

Stacker

H175

£130

Isolation

H700

H100

SPEAKERS



ass



## Shahinian DYNAVECTOR

JINAVECIUR

Well Tempered

Stockists and Information from:

Pear Audio Ltd. 7 Prospect Place, Alnmouth, Northumberland, NE66 2RL Telephone: 01665 830862 Fax: 01665 830051



# Reader classified

## **Advertise in Hi-Fi Choice for £5\***

 Acoustic Studio Monitor speakers Series 33i1. 125
 Watt, still in box. New £1,700, asking £1,000 ono. Bristol (0117) 942 6085.

• Active speakers, built-in subwoofers, 90 WPC, electronic filtering, 6 Mosfet amplifiers, acoustic plane equalisation, cabinets 20in high, 7in wide, new £500. (01727) 843509.

• Allison CD7 floorstanding speakers £150, Cambridge CD2 £60. Peter (01622) 685194.

 Audio Alchemy "DAC In The Box" including interconnect. Immaculate and boxed £95.
 Colchester (01206) 365015.
 Audio Alchemy DITB plus QED Digiflex £125. Yamaha CDX570 £65. Monster 400 interconnects £10. Burton (01283) 538591.
 Audiolab 8000 DAC (cost

new £900) excellent condition £450. (01925) 726343. • AVI S2000 MI integrated amplifier, 100WPC, 9 months old, as new £600. Perth (01738) 444719/895855.

Chario Academy I speakers.
 Solid walnut. 6 months old.
 Mint, boxed. £800. Target K
 Series spiked, filled stands
 £100. Sutton (0181) 642 6470.
 Cyrus 1 amplifier £100,
 Rotel tuner 850 AL £85, Neat
 Petite speakers, mint £275
 (£575) Meridian 207 CD and
 pre-amp £350, Harbeth HL6s,
 mint £475 (£875), NAD 302
 £85. London (0171) 837 888
 ext 2904.

 Grundig PA3-II lifestyle midi system. Unwanted gift. Sealed cartons. £600 (RRP £1,000)
 London (0171) 724 9945.
 Heybrook HBI, black ash finish, boxed, approx 6 yrs old, VGC. Includes Target stands.
 £120 ono. Warks (01203)
 343379.

• JBL black ash LX66 speakers. Size 170x38x35 c/w Target stands. £250ono. Beds (01582) 824487.

● JBL L20T Bookshelf monitors. Walnut finish. VGC (£420) £200. Rotel RA820BX2 amplifier £55. Rega RB250 £45. Audio Technica AT24 MC cartridge boxed as new £60. Goldring G1042 £50. Nagoka MP11o advertise on this page, write your advert in block capitals and send it to: *Hi-Fi Choice*, Reader Classifieds, 19 Bolsover St, London W1P 7HJ. Include a cheque for \$5\* made payable to Dennis Publishing Ltd. The advert will appear in one issue only and must be no more than 20 words (or five lines) long, including all spaces and your phone number. Reader Classifieds are for the use of private individuals only. All Reader Classified adverts will be printed on a firstcome, first-served basis, subject to available space, and Dennis 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 for Hi-Fi Choice subscribers, provided a subscriber number is enclosed.

Boron £20. Denon DL 103 £40. 7m pair MF Lifeline bi-wire cables £25. N Kent (01474) 704382. ● John Shearne Phase III

power amp £295. LFD LSI preamp £375 (not white). Both mint, boxed, with instructions. Essex (01255) 765115.

• KEF Coda 8 loudspeakers, boxed, mint, 11 months old £100. Rob, Coventry (01203) 681166.

• KEF Concerto speakers. A revered marque. 3 way including renowned B139 13in elliptical woofer. Teak with black grilles. Best offer secures. East Grinstead (01342) 301273 eyes KI Signature beater! Marantz CD63SE with Trichord Clock System 2 upgrade (with power supply). Significantly outperforms CD63SE KI Signature in every respect. 1 yr old, as new, boxed, remote, instructions. (£570 new) £350. Mark, Hants (01252) 875763. • Linn Kairn preamp, mint, boxed £800. Linn Keilidh sneakers black ash noly stand inc £400. Meridian

200/203 DAC7 £550. Denon DRS 810 £130. Jules, Swansea (01792) 280061.

 Linn Kan speakers, black ash, including dedicated Kan 2 stands. £140. N Lincs (01652) 636086.
 Linn LP12, black, Ekos,

Lingo, Arkiv, Cirkus and

Trampolin. Boxed, excellent

condition. Regularly serviced. £1,450. East Riding (01482) 865162.

• Lowther Acoustica pair, no reasonable offer refused. Surrey (01342) 832559. Marantz CD63 II £150, Rotel RA935 Bx amp £125. Both mint, boxed. (01782) 744875. Michell Argo HR. Superb sound, boxed, £695 ono. Moth phono preamp with 100VA power supply. Boxed £165 ono. Berks (0118) 954 7758. Micromega Duo CD2 Transport and DuoPro DAC. manuals, new £2,800. Will accept £990 (selling up) Beds (01582) 478992.

• Micromega Stage 4 CD player, 10 months old, immaculate condition £400. E Yorks (01757) 630573.

 Mission 752 Freedoms, boxed, brand new in mint condition. Primavera finish. £650 new, will accept £520. Wayne, Newcastle (0191) 242 1968. Naim CD2 £1,500 as new. Naim 72/180 £900. Castle Harlech speakers £600 as new. Mission 752 Freedom £400 as new. (01303) 240862. Naim NAC 92, 2 yrs old, immaculate £300. Naim NAC 72 pre, new style, 18 months old £400. Meridian 200 & 203 DAC 7, mint condition £580. Arcam Delta 80 tuner £130. Jules (01792) 280061. Naim NAP82 £1,495. NAP180 £750. HiCaps (x2)

£450 each. All boxed and as new. Wilts (01225) 812314. • Orelle DA188 DAC £250. Pandora's Box upgrade for DAC/Pre £90. Custom BNC to phono digital lead £60. (01823) 334275. • Brade Tablette 50 encoders

 ProAc Tablette 50 speakers (6 months old) as new (£599)
 £400. Re-advertised. Little used. Shropshire (01948)
 667521.

• Quad 306 amp, overhauled by Quad, booklet & boxed, excellent condition £165. Quad 44 Din modules £10 each. Quad 34 Disc modules £15 each, phonos. Sussex (01903) 247779.

• Quad electrostatic speakers (ESL 57) £250 the pair. Attractive matt black finish. Perfect working order. Serviced since new. Boxed, instructions. Cambs (01733) 341378.

 Rega Planar 3 £75. A&R A60 amp £75. Heybrook HB2 speakers £75. Philips CD160 £40. Akai HX3 cassette £25. Peter (01622) 685194.

 Rega XEL speakers, rosewood, as new. Offers. Leics (01509) 620814.

 Rotel RB970BX power amps, one pair, with Chord Co. Chrysalis interconnect. 5 months old. Cost £480, yours for only £300. Dartford (01322) 228997.

 Rotel RB980, 120WPC amp, RB956 3 x 90WPC amp, RSB 960 DPL processor, all mint, unmarked, boxed, 18 months old. £695. Kent (01959) 522441.

 Royd Abbots £300. REL Stadium £350 Sony 176s £100. Brand new. Buyer collects. Cambs (01353) 720583 after June 21st.

 Ruark Templar speakers, Mk1 (rosewood) ex condition, boxed £300. S Essex (01702) 556116.

 Sansui cassette deck £60.
 JVC tuner £50. Audioquest-Quartz £70. Chord Flatline 2
 1.5m £30. All mint. Silver cable speaker or interconnect £25 per m. (01952)
 201497/(0958) 523695.
 Sony NT mini digital tape recorder. perfect for musicians. Full kit including manual plus 20 cassettes. £275.
 Mick, Dublin (+353) (87) 230 5958

• Stax Electrostatic earspeakers & energiser SR3/SRD5 £50. Coventry (01203) 679165.

Sugden SDA-1 DAC.
Exquisite smooth yet detailed sound. Boxed as new with manual. £395 ovno. (0161) 2372015 office/(01254) 812881 home/(0966) 192949 mobile.
Technics Direct Drive turntable SL150 with SME 3009 arm and Shure V15 Type II cartridge. Offers.
Southampton (01703) 732997.
Technics SUA 9000 Mk II amp, boxed as new £300.
Marantz CD63 KI Sig, boxed, little use, £300. Brighton

(01273) 305176. • Yamaha NS1000M. Excellent condition. £400. ProAc R2.5, 1 week old, never opened, factory sealed boxes, guaranteed. £2,100. (01793) 542572.

### WANTED

 Audiolab amplifiers, 8000S integrated, plus 8000P or 2 np. 8000Ms. Gt Yarmouth (01493) 651287.

 Mana Soundstages and tables. Coventry (01203) 679165.

Pioneer A400 (01782)
 744875.

 ProAc Studio Tower loudspeakers. London (0171) 409 5789.

## Stop revising and listen to music - today.

## Students, wake up your neighbours and save some bread.

So you want to buy a new hi fi system, separates, mini or loudspeakers?

But you want to save piles of cash. Well at Students Direct, we'll save you at least 20% (yes really 20%) off typical High Street prices (often known as RRP or TGP).

Not only will you save plenty of dosh, but you'll have a good excuse to stop revising, (well you've got to show your mates your new toys, right?).

And, if you tell you're mates to buy from Students Direct, we'll hand over even more discount for you on your next purchase.

CD Players	from £49
Amplifiers	from £59
Speakers Pair	from £39
Cassette Decks	from £69
Tuners	from £59
Mini Systems	

Everything we sell is brand new, boxed and with full manufacturers warranty. (No seconds or graded stock here). We stock most of the top makes including the award winners.

We also have over 25 collection points across the UK (mail order available where necessary).

So phone our hotline and save big bucks now.



\*Typical High Street prices (often known as RRP or TGP).

Get sorted - Phone Today. Students Direct 0181 854 2996 quoting the make and model you want

# THE DIRECTORY

## **Our Three Step Guide to Buying Hi-Fi**

The legendary Hi-Fi Choice Directory is now simpler to use than ever before, but contains all the information you need to select and buy the perfect hi-fi system.

STEP Discover which products fall within your budget by using our Price Guide (starts on page 94). This listing is updated monthly and includes all hi-fi products currently available in the UK. It is organised by product type, then by price band, and is sorted alphabetically. Products whose names are printed in red are those that we have reviewed. Which leads us to ...

STEP Read about the hi-fi equipment that we have reviewed in the Directory (starts on page 106). Here you will learn which items have been singled out for our famous Best Buy and Recommended awards that denote 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 (starts on page 123) to book a demonstration of the products you are interested in.

## **Best Buys and Recommendations**

If you see a Best Buy (red) or Recommended (blue) flag at the beginning of an entry in our Directory of reviewed products, the item concerned is particularly deserving of your attention.

Red signifies the Best Buy swing-tag, which indicates products of the best quality and superb value for money in their price category. Blue Recommended products offer excellent quality and value, but not the same cost-effectiveness as a Best Buy. Please note that an expensive Recommended product will nearly always perform better than an inexpensive Best Buy.

## Using Best Buys and Recommendations to buy hi-fi.

Do not commit the cardinal sin of dashing into your local dealer, magazine in hand, demanding to purchase Best Buy CD player A,

Best Buy amplifier B and Best Buy speakers C. This is unlikely to result in your long-term satisfaction. Our belief at Hi-Fi Choice is that you must consider the hi-fi system as a complete entity, not as a collection of components. While a superb system might well contain Best Buy and Recommended components. one cannot lump together Best Buys and Recommendations



in the hope that they will automatically perform superbly. These ratings make a useful guideline for short-listing components worth trying, but only by hearing them for yourself can you draw meaningful conclusions about CHARLES what suits your taste. Furthermore, don't panic if the dealer offers you equipment that we have not tested. At the end of the day, what matters most is that your hi-fi system fits your tastes like a glove, and it is the dealer's challenge to ensure your satisfaction by any means - and components - necessary!

## **DIRECTORY INDEX**

ITEM	PAGE NUMBER
NEW PRODUCT PRICES	94
LIST OF REVIEWED PRODU	<b>CTS</b> 106
INTEGRATED AMPLIFIERS	106
PREAMPLIFIERS	107
POWER AMPLIFIERS	107
CABLES ANALOGUE INTERCONNE	CTS 108
DIGITAL INTERCONNECTS	<b>i</b> 109
LOUDSPEAKER CABLES	109
CARTRIDGES	110
CASSETTE DECKS	111
CD PLAYERS	112
CD TRANSPORTS	113
DACS	113
DIGITAL RECORDERS	114
HEADPHONES	114
HI-FI LOUDSPEAKERS	115
SUBWOOFERS	117
STANDS & SUPPORTS	118
TONEARMS	119
TUNERS	119
TURNTABLES	120
MANUFACTURER CONTACT	S 121
FACTSBACK SERVICE	120

Unit Decision         Unit Dec		1000	100	1000	0-1 1022					
Image: Addition         O         State         Addition           AMPL IFFERS Disgrated Amps         Some Addition         Some Addition         Some Addition         Some Addition           AMPL IFFERS Disgrated Amps         Some Addition         Some Addition <t< th=""><th></th><th></th><th></th><th></th><th>Onkyo A922 Orella SA-100</th><th>0</th><th>70W</th><th>400</th></t<>					Onkyo A922 Orella SA-100	0	70W	400		
Image: Solution of the second secon	/									
Image: Section of the sectio		1	No. Ch		Pioneer A-605					
Home Phase 25         O         Sime Phase 25         S		1	/				35W			
Amplifiers         Spanne 25 (marked Spanne)         Spanne 25 (marked	-//		-							
Ample Lipiters         Operation			_							
Alm PLLIFIERS         O         E.GW         Some TA-30001S         O         E.GW         Some TA-30001S         O         E.GW           ALM PLLIFIERS         C         Some TA-30001S         O         Some TA-3000S         O         Some TA-3000S         O         Some TA-3000S         O         Some TA-3000S         O         SomeTA-3000S         O         SomeTA-3	and the second se					-				
List         List <thlist< th="">         List         List         <thl< th=""><th></th><th></th><th></th><th></th><th></th><th>O</th><th></th><th>500</th></thl<></thlist<>						O		500		
AMPLIFIERS         Commits										
AMPLIFIERS         Source         Source <thsource< th=""> <thsource< th="">         Sourc</thsource<></thsource<>						-				
AMPLIFIC         Composition         Composition <thcomposition< th=""> <thcomposition< th=""> <t< th=""><th></th><th></th><th></th><th></th><th></th><th>1000</th><th></th><th></th></t<></thcomposition<></thcomposition<>						1000				
AMPLIFERS Integrated Amps         Common Second	A CARLEN AND A CARLEN									
Litegrated Amps           Lot STO           Store         Store <th colspan="2" st<="" th=""><th>AMPLIFIER</th><th>s</th><th></th><th></th><th></th><th>0</th><th></th><th>280</th></th>	<th>AMPLIFIER</th> <th>s</th> <th></th> <th></th> <th></th> <th>0</th> <th></th> <th>280</th>		AMPLIFIER	s				0		280
K E Y         Alchemis Lemissis         O         BW         ESS           C - number of line-level inputs. Table of 2200         Add Note Sing Line SE Add Note Sing Line	Integrated A	mps				and the second s		670		
b. 1-2         Judio Nets Kanji Line SL         Judio Nets Kanji Line SL<										
G number of line-level inputs.         Audigram MB22         General Source         General Source <thgeneral source<="" th="">         General Source</thgeneral>		i stire	1000	100-1		0				
Linto         Dong 10 al         O Days         June	<b>G</b> – number of line-leve	el in	puts.				40W			
Lift norminal Load of 8 Ohms.         CR Der Kalpso         6         15.00         959           Arex XA03         O 200         100         Creek S2058         O 500         500         500         400           Arex XA03         O 200         100         Creek S2058         O 500         50	'20W'- output power pe	r ch	annel							
Up to 5250         CR Dr. Chi25         C B         Dr. Chi25         Dr. Chi25 <thdr. chi25<="" th="">         Dr. Chi25         <thdr. <="" chi25<="" th=""><th>into nominal load of 8 C</th><th>Dhm</th><th><b>S.</b></th><th></th><th></th><th></th><th></th><th></th></thdr.></thdr.>	into nominal load of 8 C	Dhm	<b>S.</b>							
Aires Ak.003         Open (10)         Creek S2005 (C)         Open (5)         State (5)	Up to £250					_				
AMC 3025A.         O         SW         130         Creek \$250ER         O         SOW         650           Arcam Adda         Combridge AL         O         SSW         130         Dense Real = 1-00         O         SSW         650           Cambridge AL         MK HII         O         SSW         200         PRA Real issance int.         O         SSW         700           Cambridge AL         SSW         200         PRA Real issance int.         O         SSW         700           Cambridge AL         SSW         200         RAW K800         O         SSW         700           Dense PMA-100M         Common March 100         SSW         200         HIM Majk (Line)         O         SSW         600           Cambridge AL         SSW         200         March 1000         SSW         600         March 1000         SSW         600           CarkAtak         SSW         200         March 1200         March 1200         SSW         600           CarkAtak         SSW         200         March 1200         SSW         600         March 1200         SSW         600           CarkAtak         SSW         200         March 1200         March 1200			40W	140	Creek 5250SE	_		540		
Math         Standing         C <thc< th="">         C         <thc< th="">         C         C         <thc<< th=""><th></th><th>0</th><th>20W</th><th></th><th></th><th>_</th><th></th><th></th></thc<<></thc<></thc<>		0	20W			_				
Ircen         Idea         Combridge AL         Combridge AL <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
Cambridge AI         O         Sym         R0         Description         Sym         R0         Description         Sym         R0         Description         Sym         R0         Symmetrie         Sym         R0         Sym         Sym         R0         Sym         <										
Cambridge AL MK III         0         500         200         Fase Evolutione Performance 2.0         0         4000         500           Denser PMA-3635E         0         500         200         H/K M660         0         5500         7500           Denser PMA-3635E         0         5500         200         H/K M660         0         5500         7500           Denser PMA-100M         0         5500         200         LFD Integrated 0         0         5500         7500           Condemas DBA-101         0         5500         7500         Margum L200         0         5500         7500           Condemas DBA-101         0         5500         Margum L200         0         5500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500         7700         6500					Exposure XX Super	1.				
Searce FMA-36SE         O         Soft         200         FW KR600         O         Soft         700           Denner FMA-100H         G         Soft         200         H/M KR600         G         Soft         700           Coodmans Delta B01         G         Soft         700         H/M KR600         G         Soft         700           Coodmans Delta B01         G         Soft         700         H/M KR600         G         Soft         700           Mark KR52         G         Soft         700         H/M KR600         G         Soft         700	Cambridge A1 Mk III	0				0	40W	570		
Team PML - 259         O         450         220         LFD Integrated 0         O         Spin 553         Spin 553           Geodmans Deita 601         6         80%         264         Lim Misik (Lime)         0         30%         550           Grundig V11         0         50%         160         Magnum Liass A         0         80%         650           MX RN22         0         40%         220         Mission Cyrus III         0         50%         650           MX RN22         0         40%         220         Mission Cyrus III         0         50%         600           MAR AND         30%         200         Musicat Chelony A220         60%         757           Marantz PM-47         0         40%         200         Orelis SA-100         0         100%         650           Marantz PM-47         0         40%         200         Orelis SA-100         0         100%         650           Marantz PM-47         0         40%         200         Integrated         0         50%         650           Pioneer A-208         30%         200         Table Sattoronic Storn 1P         50%         50%         50%         50%         50%										
Denon PMA-100M         Genomas Delta 801				200		-				
Bootmans Date 801         Converting V11         Converting V11 <thconverting th="" v11<="">         Conve</thconverting>		1000	1000							
PAY MEDIO         Construction         Page municas A         Construction         Style		-	3011	140	Lynwood Opal			685		
First NES21         O         Adv         250         Mission Gyns Hill         O         Spin Edition           VC X-VABK         30W         200         Musice Tridelity A220         O         50W         700           Kanneod M2020SE         0         45W         200         Marant PM-37         O         50W         700           Marantz PM-37         O         46W         200         Prime Besiga A:100         O         100W         600         700           Marantz PM-37         O         40W         200         Rols and Siga A:100         O         100W         600         700         605         700         605         700         605         700         605         700         605         700         605         600         50W         600         50W         605         600         50W         600         50W <th></th> <th></th> <th>100 million 100 million 100</th> <th></th> <th></th> <th></th> <th></th> <th></th>			100 million 100							
JPC AX-H48K         307         200         Musical Fidelity A220         507         700           JPC AX-H58X         6         459         200         Marantz PM-47         6         459         200         Marantz PM-47         6         407         200         Marantz PM-47         6         407         200         Fain Haft 3         6         607         573           Marantz PM-47         6         407         200         Crails A: 100X         6         607         573           Marantz PM-47         6         407         200         Gast 71 Hargstad         6         507         608         507           MD 310         6         2507         200         Ross Scion         6         657         650         507										
UPC AL-REAR         O         Game 200         Maryadd Mi 120         O         S00         S30           Marantz PM-37         G         50%         200         Mark Mi 813         G         30%         579           Marantz PM-37         G         55%         200         Dreile SA-100X         G         75%         649           Marantz SR-47         G         40%         220         Prime Besign A-100         G         60%         579           NAD 310         G         Gam Caspian         G         65%         60%         549           Pinneer A-105         G         30%         130         Sharmer Phase 2         G         65%         549           Pinneer A-204R         GSW         130         Stammor St60         65%         549           Pinneer A-204R         GSW         130         Audin Note 10to Line PP         55%         549           Pinneer A-204R         GSW         130         Audin Note 10to Line PP         12W         550           Song TA-FE310         G45%         130         Audin Note 10to Line PP         12W         55%           Song TA-FE310         G45%         200         Fase Evoluzione Performance 1.1         G         100W		G				100 C				
Isenwood XA-30205E         Gov         Sov         200         Maint Rhift 3         Gov         375           Marantz PM-57         Gov         55W         200         Oralle SA-1000X         Gov         75W         648           Marantz PM-57         Gov         55W         200         Oralle SA-1000X         Gov         75W         649           Marantz PM-67         Gov         55W         200         Primes A-100         Gov         75W         649           NAD 312         Gov         30W         130         Shearne Phase 2         Gov         55W         65W         650         65W         65W         65W         649         65W		0		and the second sec						
Narantz PM-57         O         50%         200         Prine Bsign A-100         O         75%         640           Marantz SH-47         0         40%         200         Prine Design A-100         O         100         650         450		0								
Marantz PM #65E         6         50%         200         Prime Design A-100         0         100w         650           Marantz SR-47         0         40w         250         Rode T71 Integrated         0         80w         700         650           MD 312         0         25W         200         Rose Scion         0         65W         615           Pioneer A-105         30W         100         Stembort SF00         65W         569         569           Pioneer A-204R         35W         160         Stembort SF00         65W         569         569           Pioneer A-204R         60W         250         Talk Electronics Storm 1P         0         55W         700         95           Pioneer A-405R         60W         250         Talk Electronics Storm 2         0         55W         700         95         50W         700         93         94         550         94         95         55W         650         560         100W         899         50W         100W         899         12W         95         55W         800         100W         899         12W         95         12W         95         12W         95         95         12W <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>										
Marantz SR-47         O         A00         250         Guad 77 Integrated         O         850         700           MD 312         G         500         Roks a Caspian         O         700         695           Pioner A-105         G         300         130         Shearne Phase 2         O         500         695           Pioner A-106         G         300         220         Talk Electronics Storm JP         O         500         549           Pioner A-107         G         600         459         200         Talk Electronics Storm JP         O         500         549           Pioner A-108         G         600         450         300         220         Talk Electronics Storm JP         O         500         700         700           Sony TA-F210         G         450         1300         Audio Kote Oto Line PP         120         950         700         1000         895           Sony TA-F210         G         450         200         Credo IMP703         700         100         895           Sony TA-F210         G         550         200         Credo IMP703         700         100         895           Sony TA-F210         G         <		100 100	And the second sec							
NUD 310         O         ZOM         Roks in Caspian         O         ZOM         ROS in Caspian         O         Som in Caspian         Som in Caspian         O         Som in Caspian         O         Som in Caspian         O         Som in Caspian										
Pioneer A-105         G         John         130         Sharane Phase 2         G         John         649           Pioneer A-204R         G         John         130         Sharane Phase 2         G         John         649           Pioneer A-204R         G         John         200         Talk Electronics Storm 1P         G         500         649           Pioneer A-405R         G         600         229         TEAC A-870R         G         500         700           Potale RA5708X         G         600         220         TEAC A-870R         G         500         700         949           Sony TA-F210         G         450%         130         Autio Note Obc Linee PP         120         949         300         700         938           Sony TA-F246         G         000         200         Credo IMP703         700         938         700         700         930         700         930         700         938         700         700         930         700         930         700         700         700         700         700         700         700         700         700         700         700         700         700         700		0								
Pioneer A-204R         G         Stm         Tele         Stembort SF60         G         Stm         549           Pioneer A-300R         G         45W         200         Talk Electronics Storm 1P         G         50W         549           Pioneer A-300R         G         50W         250         Talk Electronics Storm 2         G         55W         550           Sherwood AU-7030R         G         55W         250         Alchemist Forseti Integrated         G         100W         949           Sony TA-F210E         G         45W         150         AVI S2000MI         G         100W         849           Sony TA-F210E         G         45W         150         AVI S2000MI         G         100W         849           Sony TA-F246E         G         45W         250         Credo IMP702         70W         938           Technics SU-400         G         55W         200         Fase Evoluzione Parformance 1.1         G         70W										
Pioneer A-405R         G         John         Park Electronics Storm 1P         G         Som         549           Pioneer A-405R         G         GW         220         Talk Electronics Storm 2         G         GSW         700           Rega Brio         GW         220         Talk Electronics Storm 2         G         GSW         700           Sherwood AX-7030R         GW         220         Achemist Forsich Integrated         G         100W         949           Sony TA-F21D         G         45W         130         Audio Note Oto Line PP         12W         950           Sony TA-F24E         Gopland CSAB         G         100W         949         70W         938           Sony TA-F24E         Gopland CSAB         Gopland CSAB         Gopland CSAB         G         945           Sony TA-F24E         GSW         200         Fcdo IMP703         70W         1000           TEAC A-R300         GSW         200         Fase Evoluzione Performance 1.1         G         70W         930           Technics SU-V500         GSW         200         Fase Evoluzione Performance 1.0         GSW         950         950           Alchemist Axiom         G         30W         200         Has						0				
Rega Brio         Som         229         TEAC A-BX7         Som         Som         700           Roter RA3708X         G         G/W         250         TEAC A-BX7         G         Som         700           Somy TA-FE310         G         45W         130         Audio Note Oto Line PP         12W         950           Somy TA-FE310         G         45W         130         Audio Note Oto Line PP         12W         950           Somy TA-FE310         G         45W         250         Credo IMP702         70W         938           Somy TA-FE310         G         45W         250         Credo IMP703         70W         100W         899           Somy TA-F44E         G         55W         250         Credo IMP703         70W         100W         899           Technics SU-4800         G         30W         200         Fase Evoluzione Performance 1.1         G         55W         950           Technics SU-4800         G         30W         200         Fase Evoluzione Performance 1.0         G         56W         950W         950           Technics SU-4800         G         30W         200         Fase Evoluzione Performance 1.0         G         56W         950W		000				0		549		
Batel RA9708X         Cov         250         EC701 to £1000         51000           Sherwood AL-7030R         95W         250         Alchemist Forseti Integrated Audio Note 00 Line PP         0         100W         949           Sony TA-FE10         0         45W         130         Audio Note 00 Line PP         12W         950           Sony TA-FE310         0         45W         200         Copland CSA8         9         100W         949           Sony TA-FE310         0         45W         200         Credo IMP702         70W         938           TEAC A-R300         0         45W         200         Credo IMP703         70W         900           Technics SU-4800 Mk3         6         60W         200         Fase Evoluzione Performance 1.1         0         70W         900           Technics SU-4920         0         70W         230         Golden Tube Audio SI-50         65W         95W         950           Technics SU-4920         0         70W         230         Golden Tube Audio SI-50         65W         95W         950           Technics SU-4920         0         85W         220         HX K K680         0         85W         950           Technics SU-4920		0				0				
Sherwood AX-7030R         Obv         250         Alchemist Forseti Integrated         O         100W         949           Sony TA-F210         0         45W         150         Audio Note 0to Line PP         12W         950           Sony TA-F210         0         45W         150         Audio Note 0to Line PP         12W         950           Sony TA-F24E         0         45W         250         Credo IMP702         70W         380           Sony TA-F24E         0         55W         250         Credo IMP703         70W         100W         899           Sony TA-F448E         0         55W         250         Electroompaniet CI-2         0         50W         990           Technics SU-V300         0         25W         170         Exposure XV Super         55W         990           Technics SU-V620         0         30W         200         Fase Evoluzione Performance 1.0         0         50W         790           Technics SU-V620         0         70W         230         Golden Tube Audio S1-50         6         55W         950           Technics SU-V620         6         60W         10         Linn Majik (Phono)         6         33W         800 <t< th=""><th>Rega Brio</th><th></th><th>30W</th><th></th><th>ILAU A-BX/K</th><th>0</th><th></th><th>700</th></t<>	Rega Brio		30W		ILAU A-BX/K	0		700		
Sony TA-FE210         G         45W         130         Audio Note Oto Line PP         12W         950           Sony TA-FE310         G         45W         150         AVI S2000Mi         G         10W         899           Sony TA-FE310         G         45W         200         Credo IMP702         70W         938           Sony TA-FE44E         G         55W         200         Credo IMP703         70W         1000           TEAC A-R300         G         45W         200         Credo IMP703         70W         1000           Technics SU-V300         G         30W         200         Fase Evolucione Performance 1.1         G         70W         70W         700           Technics SU-V500         G         30W         200         Fase Evolucione Performance 1.0         G         60W         790           Technics SU-V620         G         60W         170         LFD LE Integrated         G         60W         790           Technics SU-V620         G         30W         220         Linn Majik (Phono)         G         33W         800           Technics SU-V620         G         30W         289         Micromega Tempo 1         G         50W         75W <td< th=""><th></th><th>0</th><th></th><th></th><th></th><th>00</th><th>5UW</th><th></th></td<>		0				00	5UW			
Sony TA-1246E         G         4.37         1.30         Copland CSA8         G         1.00         945           Sony TA-1246E         G         55W         250         Credo IMP702         70W         938           TEAC A-R300         G         45W         200         Credo IMP703         70W         1000           TEAC A-R500         G         90W         250         Exposure XV Super         55W         800           Tachnics SU-4500         G         30W         200         Fase Evoluzione Performance 1.1         0         60W         70W         70D         70W	Rotel RA970BX		60W	250	£701 to £10		1.1.1			
Sony TA-F448E         O         55W         250         Credio IMP702         70W         938           TEAC A-R300         O         45W         200         Credio IMP703         70W         1000           TEAC A-R300         O         90W         250         170         Electrocompaniet ECI-2         O         55W         800           Technics SU-V600         O         90W         250         170         Fase Evoluzione Performance 1.1         O         70W         70W         790           Technics SU-V620         O         70W         230         Golden Tube Audio SI-50         O         50W         995           Tachnics SU-V620         O         70W         230         Golden Tube Audio SI-50         O         50W         995           Tachnics SU-V620         O         70W         230         Folden Tube Audio SI-50         O         50W         995           Tachnics SU-V620         O         70W         230         Folden Tube Audio SI-50         O         50W         950           Tachnics SU-V620         O         70W         330         200         Fase Evoluzione Performance 1.1         O         70W         70W         730           Tachanis Ax-492	Rotel RA970BX Sherwood AX-7030R	0	60W 95W	250 250	E701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP		100W	949 950		
TEAC A-R300         Go         JSW         LDO         Credo IMP703         TOW         1,000           TEAC A-R500         Go         90W         250         Electrocompaniet ECI-2         Go         50W         995           Technics SU-V300         Go         25W         170         Fase Evoluzione Performance 1.1         Go         60W         70W         790           Technics SU-V500         Go         30W         200         Fase Evoluzione Performance 1.0         Go         60W         790           Technics SU-V620         70W         230         Golden Tube Audio SI-50         Go         50W         995           Technics SU-V620         70W         230         Golden Tube Audio SI-50         Golden Tube Audio S	Rotel RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE310	6	60W 95W 45W 45W	250 250 130 150	£701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI	0 0	100W 12W	949 950 899		
TEAC A-R500         O         90W         250         Electrocompaniet ECI-2         O         50W         995           Technics SU-V300         O         25W         170         Exposure XV Super         55W         800           Technics SU-V500         O         30W         200         Fase Evoluzione Performance 1.1         O         60W         70W         790           Technics SU-V620         O         70W         230         Golden Tube Audio SI-50         G         50W         995           Technics SU-V620         O         60W         170         LFD D LE Integrated         G         60W         799           Teachnics SU-V620         S5W         220         H/K HK80         G         38W         800           Yamaha AX-82         G         50W         750         Micromega Tempo 1         G         50W         750           Alchemist Axiom         O         30W         289         Micromega Tempo 1         G         50W         750           Arcam Alpha 8         O         75W         500         Minstrei Ultra Linear         G         30W         760           Audiolanov Ato         O         35W         35W         493         Rega Elicit         <	Rotel RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE310 Sony TA-F246E	6) 6) 6) 6)	60W 95W 45W 45W 45W	250 250 130 150 200	£701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8	0 0	100W 12W 100W	949 950 899 945		
Technics SU-A600 Mk3         Color         Color         Fase Evoluzione Performance 1.1         O         70W         790           Technics SU-V500         O         30W         200         Fase Evoluzione Performance 1.0         O         60W         790           Technics SU-V500         O         70W         230         Golden Tube Audio SI-50         O         50W         995           Technics SU-V620         O         70W         230         Golden Tube Audio SI-50         O         50W         995           Yamaha AX-392         O         60W         170         LFD 0 LE Integrated         O         60W         799           Yamaha AX-492         O         85W         220         Linn Majik (Phono)         O         33W         800           Alchemist Axiom         O         30W         289         Micromega Tempo 1         O         50W         75W         950           Andictrano Atho         O         30W         30W         400         Mistret Uitra Linear         O         26W         90W         70W         730           Audiotano Atho         O         35W         350         Monrio MC-200S         O         60W         10W         80W         100U         10W	Rotel RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE310 Sony TA-F246E Sony TA-F448E	6 6 6 6	60W 95W 45W 45W 45W 55W	250 250 130 150 200 250	E701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702	0 0	100W 12W 100W 70W	949 950 899 945 938		
Technics SU-V500         Golden Tube Audio SI-50         Golden Tube Audio A	Rotal RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE310 Sony TA-FE310 Sony TA-FE346E Sony TA-FE346E TEAC A-R300 TEAC A-R500	6 6 6 6 6	60W 95W 45W 45W 40W 55W 40W	250 250 130 150 200 250 200	E701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2	0 0 0	100W 12W 100W 70W 70W 50W	949 950 899 945 938 1,000 995		
Technics SU-V620         O         O/W         Z00         Golden Tube Audio SI-50         O         S0/W         995           Technics SU-4700 Mk3         O         45W         250         H/K HK80         G         85W         1.000           Yamaha XX-492         O         60W         70W         230         Line Majik (Phono)         G         85W         200           Alchemist Axiom         O         30W         289         Micromega Tempo 1         O         50W         750           Alchemist Maxim         O         30W         289         Micromega Tempo 1         O         50W         750           Alchemist Maxim         O         30W         400         Minstrei Ultra Linear         O         26W         75W         950           Arcam Alpha 8         O         55W         75W         500         Main Natt 3 R         O         30W         400           Audiolab 8000A         O         55W         75W         500         Stemfoort SF100         100W         449           Audiolab 800A         O         35W         300         Field ALP Art 10         O         100W         449           Creek 4330         O         35W         35W	Rotal RA970BX           Sherwood AX-7030R           Sony TA-FE210           Sony TA-FE310           Sony TA-FE310           Sony TA-F246E           Sony TA-F246E           Sony TA-F448E           TEAC A-R300           TEAC A-R500           Technics SU-V300		60W 95W 45W 45W 45W 55W 45W 90W 25W	250 250 130 150 200 250 250 250 170	E701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super	6 6 6 0	100W 12W 100W 70W 50W 55W	949 950 899 945 938 1,000 995 800		
Technics SU-J700 Mk3         O         45%         250         K/K K680         G         85%         1.000           Yamaha XX-390         O         60%         170         LFD 0 LE Integrated         G         60%         799           Yamaha XX-432         O         85W         220         Linn Majik (Phono)         G         30W         800           Alchemist Axiom         O         30W         289         Micromega Tempo 1         G         50W         750           Alchemist Maxim         O         30W         400         Micromega Tempo 2         G         75W         950           Arcam Alpha 8         O         50W         75W         500         Mori Mc-200S         G         60W         80W         1,000           Audiolanov Alto         O         35W         300         Pioneer A-07         G         80W         1,000           Audiolano Alpha 9         O         75W         500         Shearne Phase 2 Reference         50W         730           Aurar VA-100 II         O         35W         279         TEAC Alpha 9         Autiona Signal Y Wo         G         100W         449           Creek 4330         O         35W         25W <t< th=""><th>Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E Sony TA-F448E TEAC A-R300 TEAC A-R300 TEAC A-R500 Technics SU-A900 Mk3</th><th></th><th>60W 95W 45W 45W 40W 55W 45W 90W 25W 60W</th><th>250 250 130 150 200 250 200 250 170 200</th><th>E-701 to E10 Alchemist Foto Line PP Avli S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1</th><th>6 6 6 0</th><th>100W 12W 100W 70W 70W 50W 55W 70W</th><th>949 950 899 945 938 1,000 995 800 790</th></t<>	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E Sony TA-F448E TEAC A-R300 TEAC A-R300 TEAC A-R500 Technics SU-A900 Mk3		60W 95W 45W 45W 40W 55W 45W 90W 25W 60W	250 250 130 150 200 250 200 250 170 200	E-701 to E10 Alchemist Foto Line PP Avli S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1	6 6 6 0	100W 12W 100W 70W 70W 50W 55W 70W	949 950 899 945 938 1,000 995 800 790		
Yamaha AX-492         O         Sky         220         Linn Majik (Phono)         G         33W         800           Alchemist Axiom         O         30W         289         Micromega Tempo 1         G         55W         750           Alchemist Maxim         O         30W         289         Micromega Tempo 2         G         55W         750           Alchemist Maxim         O         30W         400         Minstrei Ultra Linear         G         26W         900           Arcam Alpha 8         O         50W         350         300         800	Rotal RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE210 Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 FEAC A-R300 TEAC A-R300 TEAC A-R300 TEAC A-R300 Technics SU-4500 MK3 Technics SU-4500		60W 95W 45W 45W 45W 55W 45W 90W 25W 60W 30W	250 250 130 150 200 250 200 250 170 200 200	E701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI 52000MI Copland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0	6 6 6 0 0	100W 12W 100W 70W 70W 50W 55W 70W 60W	949 950 899 945 938 1,000 995 800 790 790		
£2251 to £500         Meridian 551         55W         795           Alchemist Axim         ©         30W         289         Micromega Tempo 1         ©         50W         750           Alchemist Maxim         ©         30W         400         Micromega Tempo 1         ©         50W         750           AMC CVT 3030A         ©         30W         400         Micromega Tempo 2         ©         75W         950           Arcam Alpha 8         ©         50W         500         Micromega Tempo 2         ©         60W         900           Arcam Alpha 8         ©         50W         500         Micromega Tempo 2         ©         60W         80W         900           Audiotanov Atto         ©         35W         500         Pioneer A-07         ©         80W         1,000           Audiotanov Atto         ©         35W         433         Rega Elicit         70W         730           Audiotab 8000A         ©         60W         500         Shearre Phase 2 Reference         50W         799         50W         790         Talk Electronics Storm 2 P         ©         65W         730           Creek 4330         O         35W         35W         35D <t< th=""><th>Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E Sony TA-FA48E TEAC A-R300 TEAC A-R300 TEAC A-R500 Technics SU-400 Mk3 Technics SU-4500 Technics SU-4500 Technics SU-4700 Mk3</th><th></th><th>60W 95W 45W 45W 45W 55W 45W 90W 25W 60W 30W 70W</th><th>250 250 130 150 200 250 250 170 200 200 230 230 250</th><th>ECTOL to ECTO Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 HXY KK680</th><th></th><th>100W 12W 100W 70W 50W 55W 70W 60W 50W 85W</th><th>949 950 899 945 938 1,000 995 800 790 790 995 1,000</th></t<>	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E Sony TA-FA48E TEAC A-R300 TEAC A-R300 TEAC A-R500 Technics SU-400 Mk3 Technics SU-4500 Technics SU-4500 Technics SU-4700 Mk3		60W 95W 45W 45W 45W 55W 45W 90W 25W 60W 30W 70W	250 250 130 150 200 250 250 170 200 200 230 230 250	ECTOL to ECTO Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 HXY KK680		100W 12W 100W 70W 50W 55W 70W 60W 50W 85W	949 950 899 945 938 1,000 995 800 790 790 995 1,000		
Alchemist Axiom         ©         30W         289         Micromega Tempo 1         ©         50W         750           Alchemist Maxim         ©         30W         319         Micromega Tempo 2         ©         75W         950           AMC CVT 3030A         ©         30W         400         Minstrel Ultra Linear         ©         26W         900           Arcam Alpha 8         ©         50W         350         Monrio MC-200S         ©         60W         80W         1.000           Audiogram MB1         ©         35W         300         Pioneer A-07         ©         80W         1.000           Audiotab 8000A         ©         56W         500         Shearne Phase 2 Reference         ©         50W         799           Aura VA-100 II         ©         70W         350         Stemioort SF100         ©         100W         449           Creek 4330         ©         35W         335         Thule IA100         100W         100W         449           Creek 5250         ©         50W         450         Art Audio Integra         30W         1,499           V/K KK640         ©         50W         450         Art Audio Integra         30W         1,499 </th <th>Rotal RA970BX Sherwood AX-7030R Sony TA-F2210 Sony TA-F2310 Sony TA-F246E Sony TA-F246E TEAC A-R300 TEAC A-R300 TEAC A-R300 Technics SU-4800 Mk3 Technics SU-4800 Mk3 Technics SU-4800 Technics SU-4800 Technics SU-4800 Technics SU-4800 Mk3 Yamaha AX-380</th> <th></th> <th>60W 95W 45W 45W 45W 55W 45W 90W 25W 60W 30W 70W 45W 60W</th> <th>250 250 130 150 200 250 250 170 200 200 230 230 250 170</th> <th>C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated</th> <th>666</th> <th>100W 12W 100W 70W 50W 55W 70W 60W 50W 85W 60W</th> <th>949 950 899 945 938 1,000 995 800 790 790 995 1,000 799</th>	Rotal RA970BX Sherwood AX-7030R Sony TA-F2210 Sony TA-F2310 Sony TA-F246E Sony TA-F246E TEAC A-R300 TEAC A-R300 TEAC A-R300 Technics SU-4800 Mk3 Technics SU-4800 Mk3 Technics SU-4800 Technics SU-4800 Technics SU-4800 Technics SU-4800 Mk3 Yamaha AX-380		60W 95W 45W 45W 45W 55W 45W 90W 25W 60W 30W 70W 45W 60W	250 250 130 150 200 250 250 170 200 200 230 230 250 170	C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated	666	100W 12W 100W 70W 50W 55W 70W 60W 50W 85W 60W	949 950 899 945 938 1,000 995 800 790 790 995 1,000 799		
Alchemist Maxim         G         30W         319         Micromega Tempo 2         G         75W         950           AMC CVT 3030A         G         30W         400         Minstrel Ultra Linear         G         25W         900           Arcam Alpha 8         G         50W         350         Monrio Mc-200S         G         60W         80W           Arcam Alpha 8         G         57W         500         Naim Nait 3 R         G         30W         760           Audiotab 8000A         G         55W         300         Pioneer A-07         G         80W         1000           Audiotab 8000A         G         56W         930         Stemare Phase 2 Reference         G         50W         799           Aura X+100 II         G         70W         350         Stemfoort S100         100W         400           Creek 4330         G         35W         335         Thule IA100         G         100W         949           Creek 4330         G         35W         335         Thule IA100         G         12W         95D           E1601         ft Audio Sequel         S0W         450         Art Audio Integra         30W         1,499           <	Rotal RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE310 Sony TA-FE310 Sony TA-F246E Sony TA-F246E TEAC A-R300 TEAC A-R500 TeChnics SU-4300 Technics SU-4500 Technics Technics		60W 95W 45W 45W 45W 55W 45W 90W 25W 60W 30W 70W 45W 60W	250 250 130 150 200 250 250 170 200 200 230 230 250 170	E701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI 52000MI Copland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono)	666	100W 12W 100W 70W 50W 55W 70W 60W 50W 85W 60W 33W	949 950 899 945 938 1,000 995 800 790 790 995 1,000 799 800		
Arcam Alpha 8         60         50W         350         Monrio MC-200S         60         60W         895           Arcam Alpha 8         60         75W         500         Main Nait 3 R         60         30W         760           Audiotram MB1         60         35W         300         Pioneer A-07         60         80W         1,000           Audiotram MB1         60         35W         430         Rega Elicit         70W         730           Audiotab 8000A         60W         500         Shearne Phase 2 Reference         65         50W         799           Aura VA-100 II         60W         500         Shearne Phase 2 Reference         65         70W         730           Creek 4330         0         35W         433         Thule IA100         100W         449           Creek 4330         0         35W         350         Monrio MC-200S         50W         100W         499           EMF Audio Sequel         0         50W         450         Art Audio Integra         30W         1,499           V/K HK640         0         50W         450         Art Audio Integra         30W         1,499           V/K AVBK         9         350 <t< th=""><th>Rotal RA970BX           Sherwood AX-7030R           Sony TA-FE210           Sony TA-FE210           Sony TA-FE480           Sony TA-FA48E           TEAC A-R500           Technics SU-4800           Technics SU-4800           Technics SU-4500           Technics SU-4500           Technics SU-4500           Technics SU-4500           Technics SU-4500           Technics SU-4700           Yamaha AX-390           Yamaha AX-432           £251 to £500</th><th></th><th>60W 95W 45W 45W 45W 90W 25W 60W 30W 70W 45W 60W 85W</th><th>250 250 130 150 200 250 250 170 200 230 230 250 170 220</th><th>C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP702 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 HXK IKG80 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1</th><th>6 6 0 0 0 0 6 6 6</th><th>100W 12W 100W 70W 50W 55W 70W 60W 50W 85W 60W 33W 55W</th><th>949 950 899 945 938 1,000 995 800 790 790 995 1,000 799 <b>800</b> 799 800 795</th></t<>	Rotal RA970BX           Sherwood AX-7030R           Sony TA-FE210           Sony TA-FE210           Sony TA-FE480           Sony TA-FA48E           TEAC A-R500           Technics SU-4800           Technics SU-4800           Technics SU-4500           Technics SU-4500           Technics SU-4500           Technics SU-4500           Technics SU-4500           Technics SU-4700           Yamaha AX-390           Yamaha AX-432           £251 to £500		60W 95W 45W 45W 45W 90W 25W 60W 30W 70W 45W 60W 85W	250 250 130 150 200 250 250 170 200 230 230 250 170 220	C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP702 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 HXK IKG80 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1	6 6 0 0 0 0 6 6 6	100W 12W 100W 70W 50W 55W 70W 60W 50W 85W 60W 33W 55W	949 950 899 945 938 1,000 995 800 790 790 995 1,000 799 <b>800</b> 799 800 795		
Arcam Applia 9         O         Disc         Naim Nait 3 R         G         300         720           Audiolanov Atto         O         550         Naim Nait 3 R         G         300         720           Audiolanov Atto         O         550         Naim Nait 3 R         G         300         720           Audiotab 8000A         O         550         700         730         Audiotab 8000A         6000         500         Shearne Phase 2 Reference         G         500         790           Aura VA-100 II         O         700         350         Stemfoort St100         I000         440         1000         600         1000         440           Creek 4330         O         35W         335         Thule IA100         G         1000         440         1000         949         1000         949         1000         949         1000         949         1000         949         1000         949         1000         949         1000         949         1000         949         1000         949         1000         949         1000         949         1000         949         1000         950         250         1009         300         1,499         400	Rotal RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE210 Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 TEAC A-R300 TEAC A-R300 TEAC A-R300 Technics SU-4300 Technics SU-4300 Technics SU-4500 Technics SU-4500 Technics SU-4500 Technics SU-4500 Technics SU-4500 Technics SU-4500 Yamaha AX-390 Yamaha AX-390 Yamaha AX-390 Yamaha AX-390 Yamaha AX-390 Yamaha AX-390		60W 95W 45W 45W 55W 45W 90W 25W 60W 25W 60W 70W 45W 60W 85W	250 250 130 150 200 250 250 170 200 200 200 230 250 170 220 289 319	E701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI 52000MI Copland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 1	660000000000000000000000000000000000000	100W 12W 100W 70W 50W 55W 70W 60W 55W 50W 85W 55W 55W 75W	949 950 899 945 938 1,000 995 800 790 790 995 1,000 799 800 799 800 795 750 950		
Audioinnov Atio         G         JSW         JSO         Pioneer A-07         G         800         1,000           Audioinnov Atio         G         JSW         433         Rega Elicit         70W         730           Audioinnov Atio         G         JSW         433         Rega Elicit         70W         730           Audioinab 8000A         G         Sow         500         Shearne Phasa 2 Reference         G         50W         790           Aurar VA-100 II         G         70W         730         Stemfoort SF100         100W         449           Creek 4330         G         35W         279         TEAC AP-X10         G         100W         400           Creek 4330         G         35W         335         Thule Ia100         100W         100W         400           Creek 4330         G         50W         450         Unison Simply Two         G         12W         955           Denon PMA-725R         G         97W         350         AudioInnov Classic 25         25W         1,999           VC AX-V8BX         G         70W         350         AudioInnov S500         25W         1,999           Marenvood KA-7090R         65W         8	Rotal RA970BX           Sherwood AX-7030R           Sony TA-FE310           Sony TA-FE310           Sony TA-FE481           Sony TA-FE48E           Sony TA-FA48E           TEAC A-R300           Technics SU-4300           Technics SU-4300           Technics SU-4500           Technics SU-500           Alchemist Axiom           Alchemist Maxim           AMC CVT 3030A		60W 95W 45W 45W 45W 45W 90W 25W 80W 30W 70W 45W 60W 85W 30W 30W	250 250 130 150 200 250 170 200 230 230 250 170 220 250 170 220 250 170 220	ECTOL to ECTO Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear	6 6 0 0 0 0 0 0 0 0 0 0 0 0 0	100W 12W 100W 70W 50W 55W 70W 60W 55W 60W 85W 60W 33W 55W 55W 75W 26W	949 950 899 945 938 1,000 995 800 790 995 1,000 790 995 1,000 799 800 795 750 950 900		
Audiogram MB1         G         35W         493         Rega Elicit         70W         730           Audiolab 8000A         G         60W         500         Shearne Phase 2 Reference         G         50W         799           Audiolab 8000A         G         60W         500         Shearne Phase 2 Reference         G         50W         799           Aura VA-100 II         G         70W         350         Stemfoort SF100         100W         409           Creek 4330         G         35W         279         TEAC AP-X10         G         100W         400         100W         400         100W         400         100W         400         100W         400	Rotal RA970BX           Sherwood AX-7030R           Sony TA-F210           Sony TA-F210           Sony TA-F246E           Sony TA-F246E           Sony TA-F48E           TEAC A-R300           Technics SU-4300 Mk3           Technics SU-4500 Mk3           Technics SU-4500 Mk3           Technics SU-4500 Mk3           Technics SU-4500 Mk3           Yamaha AX-390           Yamaha AX-390           K2251 to £500           Alchemist Maxim           AMC CVT 3030A           Arcam Alpha 8		60W 95W 45W 45W 45W 45W 25W 25W 25W 30W 30W 30W 30W 30W 30W 30W 30W	250 250 130 150 200 250 170 200 200 230 230 250 170 220 230 250 170 220 230 250 170 220 230 250 170 230 250 230 250 230 250 250 250 250 250 250 250 250 250 25	C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 HXY IK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100W 12W 100W 70W 50W 55W 70W 60W 55W 60W 50W 85W 60W 33W 55W 50W 75W 26W 60W	949 950 899 945 938 1,000 995 800 790 995 1,000 799 <b>800</b> 799 <b>800</b> 795 950 950 950 950		
Aura VA-100 II         O         70W         350         Stemfoort SF100         100W         849           CR Dev CR324         O         100W         499         Talk Electronics Storm 2 P         O         65W         730           Creek 4330         O         35W         279         Talk Electronics Storm 2 P         O         65W         730           Creek 4330         O         35W         279         Talk Electronics Storm 2 P         O         65W         730           Creek 4330         O         35W         335         Talk Electronics Storm 2 P         O         100W         499           Creek 4330         O         35W         335         Talk Electronics Storm 2 P         O         100W         499           Creek 4330         O         50W         450         Talk Electronics Storm 2 P         O         10W         499           Creek 430         O         50W         450         AudioInnov Classic 25         25W         1.099           Mark 640         55W         400         AudioInnov S500         25W         1.200         1.200           Kenwood KA-5050R         95W         350         Audio Note Soro Line SE         12W         1.200	Rotal RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE210 Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 TeAC A-R500 TeAC A-R500 TeChnics SU-A800 Technics SU-A800 Technics SU-A800 Technics SU-A800 MK3 Yamaha AX-492 E251 to 250 Alchemist Axiom Alchemist Maxim AMC CVT 3030A Aream Alpha 8 Aream Alpha 8		60W 95W 45W 45W 45W 90W 25W 60W 25W 60W 30W 70W 45W 60W 85W	250 250 130 150 200 250 170 200 200 230 250 170 220 250 170 220 289 319 400 350 500	C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI 52000MI Copland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 1 Mic		100W 12W 100W 70W 50W 55W 70W 60W 55W 85W 60W 55W 55W 55W 75SW 250W 75W 250W 75W 260W 80W	949 950 899 945 938 1,000 995 800 790 995 1,000 799 800 799 800 795 750 950 950 950 950		
CR Dev CR24         O         100W         499         Talk Electronics Storm 2 P         65W         730           Creek 4330         0         35W         279         TEAC AB-X10         6         100W         409           Creek 4330R         0         35W         279         TEAC AB-X10         6         100W         400           Creek 4330R         0         35W         355         TEAC AB-X10         6         100W         409           Creek 4330R         0         35W         35S         Talk Electronics Storm 2 P         6         65W         730           Creek 4330R         0         35W         35S         Talk Electronics Storm 2 P         6         100W         499           Denon PMA-725R         9         35W         355         Audio Sauel         5         100P         100W         499           K/K HK640         55W         400         AudioInnov Classic 25         25W         1,099           NC AX-V8BK         6         70W         350         Audio Note Oto Phono SE         20W         1,200           Kenwood KA-5050R         95W         350         Audio Note Oto Phono SE         12W         12W         1,200           Magnum IA	Rotal RA970BX Sherwood AX-7030R Sony TA-F210 Sony TA-F210 Sony TA-F246E Sony TA-F246E TEAC A-R300 TEAC A-R300 TEACA-R500 Technics SU-4300 Michael SU-4300 Technics SU-4300 Technics SU-4300 Technics SU-4700 Technics SU-4700 Mk3 Yamaha AX-492 E251 to E50 Alchemist Axiom Alchemist Axiom Alchemist Maxim Alchemist Maxim Alchemist Maxim Arcam Alpha 9 Audiolanov Alto Audiogram MB1		60W 95W 45W 45W 55W 45W 90W 25W 60W 25W 30W 70W 45W 60W 85W 30W 30W 30W 30W	250 250 130 250 250 250 250 250 250 200 250 200 230 230 230 230 230 230 230 250 170 200 230 250 319 400 350 300 493	C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI 52000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/X HK800 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit		100W 12W 100W 70W 50W 55W 70W 60W 55W 50W 55W 55W 55W 55W 55W 55W 55W 5	949 950 8899 945 938 1,000 790 790 790 790 790 790 790 799 800 799 800 799 800 799 800 799 800 799 800 799 800 799 750 950 950 950 950 950 950 750 950 750 750 950 750 750 750 750 750 750 750 750 750 7		
Creek 4330         O         Jöhn         279         TEAC AB-X10         G         Jöhn	Rotal RA970BX Sherwood AX-7030R Sony TA-F2210 Sony TA-F2310 Sony TA-F246E Sony TA-F246E TEAC A-R300 TEAC A-R300 Technics SU-4800 Mk3 Technics SU-4800 Mk3 Technics SU-4800 Technics SU-4800 Technics SU-4800 Technics SU-4800 Technics SU-4800 Technics SU-4800 Alchemist Axiom Alchemist Maxim AMC CVT 3030A Arcam Alpha 8 Arcam Alpha 8 Arcam Alpha 8 Audiolanov Alto Audiolat 8000A		60W 95W 45W 45W 45W 55W 45W 90W 25W 60W 85W 30W 70W 85W 30W 85W 30W 85W 30W 85W 85W 85W	250 250 130 200 250 200 250 200 200 200 200 200 20	C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI 52000MI Copland CSA8 Credo IMP703 Electrocompaniet CCI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference		100W 12W 100W 70W 55W 70W 55W 60W 85W 60W 85W 60W 55W 55W 55W 75W 26W 60W 26W 80W 70W 50W	949 950 899 945 938 1,000 790 995 800 790 790 790 790 790 790 800 795 750 950 950 900 895 760 730 730 730		
Creek 4330R         O         35W         335         Thule IA100         100W         949           Creek 5250         50W         450         Huison Simply Two         O         12W         995           EMF Audio Sequel         50W         450         Art Audio Integra         30W         1,499           V/K AK640         55W         400         AudioInnov S500         25W         1,099           V/K AK640         55W         400         AudioInnov S500         25W         1,099           V/K AK640         55W         400         AudioInnov S500         25W         1,199           Xenwood KA-5050R         95W         350         Audio Note Soro Line PP         20W         1,200           Kenwood KA-7090R         66W         265         Audio Note Soro Line SE         12W         1,500           Magnum IA120         60W         265         Buyston B-60R         75W         1,249         1,899           Monrio Asty         0         30W         320         Bryston B-60R         75W         1,249           Musical Fidelity E101         70W         500         Copland CSA14         670W         1,299           Musical Fidelity E101         75W         500 <t< th=""><th>Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 TEAC A-R300 Technics SU-4300 Technics SU-4300 Subsect Subsect Subsect</th><th></th><th>60W 95W 45W 45W 45W 55W 45W 90W 25W 45W 90W 25W 70W 70W 30W 70W 30W 50W 50W 75W 35W 35W 70W</th><th>250 250 130 200 250 250 250 250 250 250 250 250 230 250 230 250 230 250 230 250 230 250 230 250 250 250 250 250 250 250 250 250 25</th><th>E-701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrol Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100</th><th></th><th>100W 12W 100W 70W 70W 70W 55W 55W 70W 60W 55W 55W 55W 55W 55W 80W 75W 80W 70W 50W</th><th>949 950 889 945 938 1,000 995 800 790 995 1,000 995 750 950 950 950 950 950 950 755 750 950 950 950 950 730 739 8895</th></t<>	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 TEAC A-R300 Technics SU-4300 Technics SU-4300 Subsect Subsect		60W 95W 45W 45W 45W 55W 45W 90W 25W 45W 90W 25W 70W 70W 30W 70W 30W 50W 50W 75W 35W 35W 70W	250 250 130 200 250 250 250 250 250 250 250 250 230 250 230 250 230 250 230 250 230 250 230 250 250 250 250 250 250 250 250 250 25	E-701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrol Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100		100W 12W 100W 70W 70W 70W 55W 55W 70W 60W 55W 55W 55W 55W 55W 80W 75W 80W 70W 50W	949 950 889 945 938 1,000 995 800 790 995 1,000 995 750 950 950 950 950 950 950 755 750 950 950 950 950 730 739 8895		
Denon PMA-725R         O         97W         350         £1001 to £2000           EMF Audio Sequel         O         50W         450         Art Audio Integra         30W         1,499           K/K HK640         O         55W         400         AudioInov Classic 25         25W         1,099           X/K HK640         O         55W         400         AudioInov Classic 25         25W         1,099           Xenwood KA-5050R         O         95W         350         Audio Note Soro Line PP         20W         1,200           Kenwood KA-5050R         O         85W         400         Audio Note Oto Line SE         O         12W         1,200           Kenwood KA-5050R         O         95W         350         Audio Note Oto Phono SE         O         12W         1,200           Magnum IA120         O         60W         255         Audio Note Oto Phono SE         O         12W         1,200           Magnum IA170         O         90W         330         Audio Note Oto Phono SE         O         12W         1,200           Magnum IA170         O         90W         330         Copland CSA14         G         75W         1,049           Musical Fidelity E10         O <th>Rotal RA970BX Sherwood AX-7030R Sony TA-F210 Sony TA-F210 Sony TA-F246E Sony TA-F448E TEAC A-R300 TEAC A-R300 TEAC A-R300 Technics SU-4300 Michael SU-A300 Technics SU-4500 Technics SU-4500 Technics SU-4700 Mk3 Yamaha AX-492 E251 to £50 Alchemist Axiom Alchemist Axiom Alchemist Maxim Alchemist Maxim Al</th> <th></th> <th>60W 95W 45W 45W 45W 55W 55W 60W 85W 60W 85W 60W 85W 30W 30W 30W 30W 30W 30W 30W 30W 30W 30</th> <th>250 250 130 200 250 250 250 250 250 250 250 250 25</th> <th>C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio S1-50 HXK HK60 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100 Talk Electronics Storm 2 P TEAC AB-X10</th> <th></th> <th>100W 12W 100W 70W 55W 55W 50W 50W 85W 50W 75W 26W 75W 26W 75W 26W 75W 26W 75W 26W 70W 50W 70W 50W</th> <th>949 950 899 945 938 1,000 995 800 790 790 790 790 790 790 790 795 750 800 795 750 950 900 895 760 730 730 730 730</th>	Rotal RA970BX Sherwood AX-7030R Sony TA-F210 Sony TA-F210 Sony TA-F246E Sony TA-F448E TEAC A-R300 TEAC A-R300 TEAC A-R300 Technics SU-4300 Michael SU-A300 Technics SU-4500 Technics SU-4500 Technics SU-4700 Mk3 Yamaha AX-492 E251 to £50 Alchemist Axiom Alchemist Axiom Alchemist Maxim Alchemist Maxim Al		60W 95W 45W 45W 45W 55W 55W 60W 85W 60W 85W 60W 85W 30W 30W 30W 30W 30W 30W 30W 30W 30W 30	250 250 130 200 250 250 250 250 250 250 250 250 25	C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio S1-50 HXK HK60 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100 Talk Electronics Storm 2 P TEAC AB-X10		100W 12W 100W 70W 55W 55W 50W 50W 85W 50W 75W 26W 75W 26W 75W 26W 75W 26W 75W 26W 70W 50W 70W 50W	949 950 899 945 938 1,000 995 800 790 790 790 790 790 790 790 795 750 800 795 750 950 900 895 760 730 730 730 730		
EMF Audio Sequel         Sow         450         Art Audio Integra         30W         1,499           N/K KK640         55W         400         AudioInnor Classic 25         25W         1,099           VC AX-V8BK         57W         350         Audio Note Soro Line PP         20W         1,200           Kenwood KA-5050R         55W         350         Audio Note Soro Line PP         20W         1,200           Kenwood KA-7090R         60W         265         Audio Note Soro Line SE         0         12W         1,200           Magnum IA120         60W         265         Audio Note Soro Line SE         0         12W         1,500           Magnum IA120         60W         265         Audio Note Soro Line SE         0         12W         1,509           Monrio Asty         60W         265         Audio Note Soro Line SE         0         75W         1,249           Musical Fidelity E101         60W         30W         320         Bryston B-60R         75W         1,249           Musical Fidelity E101         70W         500         Copland CSA14         6         70W         1,999           Musical Fidelity E101         70W         500         Copland CSA14         6         25W <td< th=""><th>Rotal RA9708X Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 TEAC A-R300 Technics SU-4300 Technics AX-492 S251 to 250 Alchemist Maxim AMC CY1 3030A Arcam Alpha 8 Arcam Alpha 9 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Creek 4330 Creek 4330</th><th></th><th>60W 95W 45W 45W 45W 55W 60W 25W 60W 25W 60W 25W 60W 85W 30W 30W 30W 30W 30W 30W 30W 30W 30W 30</th><th>250 250 130 150 200 250 250 200 250 200 250 200 230 250 170 220 250 319 400 350 300 350 350 350</th><th>E-701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nati 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemioot SF100 Talk Electronics Storm 2 P TEAC AB-X10 Mule Malou</th><th></th><th>100W 12W 100W 70W 70W 50W 55W 70W 60W 55W 55W 55W 55W 55W 55W 60W 85W 80W 75W 26W 80W 70W 50W 100W</th><th>949 950 899 945 938 1,000 995 800 790 995 1,000 799 950 950 950 950 950 950 950 950 950 750 950 950 750 950 900 750 750 900 895 750 900 895 750 750 900 895 800 799 800 799 800 799 800 799 800 799 800 799 800 799 800 790 790 790 790 790 790 790 790 790 7</th></td<>	Rotal RA9708X Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 TEAC A-R300 Technics SU-4300 Technics AX-492 S251 to 250 Alchemist Maxim AMC CY1 3030A Arcam Alpha 8 Arcam Alpha 9 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Creek 4330 Creek 4330		60W 95W 45W 45W 45W 55W 60W 25W 60W 25W 60W 25W 60W 85W 30W 30W 30W 30W 30W 30W 30W 30W 30W 30	250 250 130 150 200 250 250 200 250 200 250 200 230 250 170 220 250 319 400 350 300 350 350 350	E-701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nati 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemioot SF100 Talk Electronics Storm 2 P TEAC AB-X10 Mule Malou		100W 12W 100W 70W 70W 50W 55W 70W 60W 55W 55W 55W 55W 55W 55W 60W 85W 80W 75W 26W 80W 70W 50W 100W	949 950 899 945 938 1,000 995 800 790 995 1,000 799 950 950 950 950 950 950 950 950 950 750 950 950 750 950 900 750 750 900 895 750 900 895 750 750 900 895 800 799 800 799 800 799 800 799 800 799 800 799 800 799 800 790 790 790 790 790 790 790 790 790 7		
H/K HK640         O         55W         400         AudioInnov Classic 25         25W         1,099           JVC AX-V8BK         O         70W         350         AudioInnov S500         25W         1,199           Kanwood KA-5050R         O         95W         350         Audio Note Soro Line PP         20W         1,200           Kanwood KA-7090R         O         85W         400         Audio Note Soro Line SE         2         12W         1,200           Magnum IA120         O         60W         25S         Audio Note Oto Phono SE         0         12W         1,500           Magnum IA170         O         90W         330         Audio Note Soro Line SE         12W         1,600           Magnum IA170         O         90W         330         Audio Note Soro Line SE         12W         1,700           Monric Asty         O         40W         495         Bryston B-60         75W         1,090           Musical Fidelity E101         O         70W         500         Copland CSA14         G         70W         1,999           Musical Fidelity E101         O         70W         500         Copland CTA401         G         25W         1,699           NAD 314	Rotal RA970BX           Sherwood AX-7030R           Sony TA-FE210           Sony TA-FE210           Sony TA-FE210           Sony TA-FE210           Sony TA-FE310           Tech and the supervision of the		60W 95W 45W 45W 45W 90W 25W 80W 25W 25W 25W 25W 25W 80W 70W 45W 80W 80W 85W 30W 30W 30W 30W 30W 35W 85W 100W 35S	250 250 130 150 200 250 170 200 230 250 230 230 250 230 230 250 319 400 350 300 493 350 350 499 279	C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI 52000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/X HK600 LFD 0 LE Integrated Linn Majik (Phono) Meridan 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100 Talk Electronics Storm 2 P TEAC AB-X10 Tubu EA100 Unison Simply Two		100W 12W 100W 70W 70W 50W 55W 70W 60W 55W 55W 55W 55W 55W 55W 60W 85W 80W 75W 26W 80W 70W 50W 100W	949 950 899 945 938 1,000 995 800 790 995 1,000 799 950 950 950 950 950 950 950 950 950 750 950 950 750 950 900 750 750 900 895 750 900 895 750 750 900 895 800 799 800 799 800 799 800 799 800 799 800 799 800 799 800 790 790 790 790 790 790 790 790 790 7		
IVC AX-V8BK         ©         70W         350         AudioInnov S500         25W         1,199           Kenwood KA-5050R         ©         95W         350         Audio Note Soro Line PP         20W         1,200           Kenwood KA-5050R         ©         95W         350         Audio Note Oto Ine PP         20W         1,200           Magnum IA120         ©         66W         265         Audio Note Oto Phono SE         ©         12W         1,200           Megnum IA170         ©         90W         330         Audio Note Soro Line SE         I2W         1,699           Monrio Asty         ©         40W         495         Bryston B-60         ©         75W         1,090           Moth 30 Integrated         ©         30W         320         Bryston B-60R         ©         75W         1,999           Musical Fidelity E10         ©         40W         300         Copland CSA14         ©         70W         1,199           Musical Fidelity E10         ©         70W         500         Copland CSA28         ©         1,299           Musical Fidelity A2         ©         25W         500         Copland CT401         ©         25W         1,989           NAD 31	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E Sony TA-F448E TEAC A-R300 Technics SU-4800 Technics SU-4800 Alchemist Axiom Alchemist Maxim AMC CYT 3030A Arcam Alpha 8 Arcam Alpha 9 Audiolanov Alto Audiogram MB1 Audiolas 8000A Aura WA-100 II CR Dev CR324 Creek 4330 Creek 4330 Creek 5250 Demon PMA-725R EMF Audio Sequel		60W 95W 45W 45W 45W 90W 55W 90W 25W 90W 25W 90W 25W 60W 85W 30W 30W 30W 30W 30W 30W 85W 25W 900 50W 75W 30W 30W 30W 30W 30W 55W 85W 85W 85W 85W 85W 85W 85W 85W 85	250 250 130 150 200 250 200 200 200 200 200 200 200 2	ECOL to ECO Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrol Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100 Talk Electronics Storm 2 P TEAC AB-X10 Thule IA100 Luison Simply Two ELOO1 to E202		100W 12W 100W 70W 55W 70W 55W 70W 55W 70W 85W 50W 75W 85W 75W 80W 75W 80W 70W 50W 100W 100W	949 950 899 945 938 1,000 995 1,000 790 790 790 790 800 790 800 799 800 795 750 950 950 950 950 950 950 950 950 950 9		
Marcine Start         Start         Start         Start         Audio Note Oto Line SE         Izw	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 TEAC A-R300 TEAC A-R300 TEAC A-R300 Technics SU-400 Mk3 Technics SU-400 Mk3 Technics SU-4700 Mk3 Yamaha AX-390 Yamaha AX-390 Yamaha AX-492 E251 to E50 Alchemist Axiom Alchemist Axion Alchemist Axion Alchemist Axion Alchemist Axion Alchemist Axion Creater Alpha S Audiolance Alto Audiogram MB1 Audiolas 8000A Aura WA-100 II CR Dev CR324 Creak 4330 Creak 5250 Denon PMA-725R EMF Audio Sequel HXK HK640		60W 95W 45W 45W 45W 45W 90W 25W 60W 25W 60W 85W 30W 30W 30W 30W 30W 30W 30W 30W 35W 35W 35W 35W 35W 50W	250 250 250 200 250 200 250 200 200 200	CO1 to C10  Alchemist Forseti Integrated Audio Note Oto Line PP AVI 52000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/X HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridan 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfort SF100 Talk Electronics Storm 2 P TEAC AB-X10 Thule IA100 Unison Simply Two Eloo1 to E20 Art Audio Integra		100W 12W 100W 70W 50W 55W 50W 50W 50W 50W 50W 55W 50W 50	949 950 899 945 938 1,000 995 1,000 790 790 790 790 790 790 790 790 790		
Magnum IA120         Go GoW         255         Audio Note Oto Phono SE         Izw         1,500           Magnum IA170         90W         330         Audio Note Soro Line SE         Izw         1,699           Monrio Asty         40W         495         Bryston B-60         75W         1,090           Moth 30 Integrated         30W         320         Bryston B-60R         75W         1,799           Musical Fidelity E10         40W         300         Copland CSA14         70W         1,199           Musical Fidelity A2         25W         500         Copland CTA401         52W         1,699           NAD 317         6         80W         470         CR Dev Remus V3         6         35W         1,899           Onix 0A32LE         40W         480         Credo LIM 702         1,191         1,249           Onix 0A32L0         6         60W         480         Credo LIM 702         1,249	Rotel RA970BX           Sherwood AX-7030R           Sony TA-F210           Sony TA-F210           Sony TA-F210           Sony TA-F246E           Sony TA-F248E           TEAC A-R300           Technics SU-4000 Mk3           Technics SU-4000 Mk3           Technics SU-4000 Mk3           Technics SU-4000 Mk3           Yamaha AX-390           Yamaha AX-390           Yamaha AX-390           Yamaha AX-390           Yamaha AX-390           Yamaha AX-432           Yamaha X-432           Yamaha X-430           Yarean Al		60W 95W 45W 45W 45W 90W 55W 90W 25W 90W 25W 90W 25W 60W 85W 30W 30W 30W 30W 30W 30W 30W 30W 30W 30	250 250 130 150 200 250 200 200 200 200 200 200 200 2	C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 HXY IK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100 Talk Electronics Storm 2 P TEAC AB-X10 Thule IA100 Unison Simply Two E1001 to E220 Art Audio Integra Audiolnnov Classic 25 Audiolnnov S000		100W 12W 12W 100W 70W 55W 55W 70W 60W 85W 85W 75W 26W 80W 75W 26W 75W 26W 80W 80W 80W 80W 80W 100W 100W 100W 12W	949 950 8950 8950 938 1,000 995 800 790 995 750 950 1,000 799 950 950 900 8895 760 900 895 760 900 895 760 900 895 730 730 799 849 995 849 949 1,000		
Magnum IA170         O         90W         330         Audio Note Soro Line SE         18W         1,699           Monrio Asty         O         90W         330         Audio Note Soro Line SE         18W         1,699           Monrio Asty         O         40W         495         Bryston B-60         G         75W         1,090           Moth 30 Integrated         O         30W         320         Bryston B-60R         G         75W         1,249           Musical Fidelity E10         G         40W         300         Copland CSA14         G         70W         1,199           Musical Fidelity E101         G         70W         500         Copland CSA28         G         1,239           Musical Fidelity A2         O         25W         500         Copland CTA401         G         25W         1,699           NAD 314         G         35W         260         CR Dev Remulus V3         G         60W         1,889           Onix 0A32LE         G         40W         470         Credo LIM 702         1,249           Onix0A31         G         60W         480         Credo LIM 703         1,249           Onix0A32LE         G         40W         260	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 Technics SU-4300 Technics AX-492 S251 to 250 Alchemist Axiom Alchemist Maxim AMC CVT 3030A Arcam Alpha 9 Audiolanov Alto Audiolgram MB1 Audiolgram MB1 Audiolgram MB1 Audiolgram MB1 Audiolgram MB1 Audiolgram MB1 Audiolgram MB1 CR Dev CR324 Creek 4330 Creek 430 Creek 430 Cree		60W 95W 45W 45W 45W 90W 25W 65W 30W 25W 60W 85W 30W 30W 30W 30W 30W 30W 30W 30W 30W 30	250 250 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	E701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemioori SF100 Talk Electronics Storm 2 P TEAC AB-X10 Muson Simply Two E1001 to E202 Art Audio Integra Audiolnov Classic 25 Audiolonkov S500 Audio Kos Soro Line PP		100W 12W 12W 100W 70W 50W 55W 50W 60W 60W 60W 55W 75W 26W 75W 26W 75W 26W 70W 50W 70W 50W 100W 100W 100W 12W 12W	949 950 899 945 938 938 800 790 790 790 790 790 790 790 790 790 7		
Moth 30 Integrated         O         30W         320         Bryston B-60R         Ø         75W         1,249           Husical Fidelity E10         Ø         40W         300         Copland CSA14         Ø         70W         1,199           Musical Fidelity E101         Ø         70W         500         Copland CSA28         Ø         1,299           Musical Fidelity A2         Ø         25W         500         Copland CTA401         Ø         25W         1,699           NAD 314         Ø         35W         260         CR Dev Romulus V3         Ø         35W         1,989           NAD 317         Ø         80W         470         Cr Dev Romulus V3         Ø         60W         1,989           Onix 0A32LE         Ø         40W         479         Credo LIM 703         1,249           Onix0A31         Ø         60W         40W         260         CAR 334         Ø         40W         1,999	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 TEAC A-R300 TEAC A-R300 TEAC A-R300 Technics SU-400 Mk3 Technics SU-400 Mk3 Technics SU-400 Mk3 Yamaha AX-390 Yamaha AX-390 Yamaha AX-492 E251 to E50 Alchemist Aixim Alchemist Maxim Alchemist Maxim Alchemist Maxim Alchemist Maxim Alchemist Maxim Audiogram MB1 Audiogram MB1 Creek 4330 Creek 4330 Creek 4330 Creek 5250 Denon PMA-725R EMF Audio Sequel H/K HK640 JVC AX-VBBK		60W 95W 45W 45W 45W 40W 55W 90W 25W 30W 25W 30W 60W 85W 30W 60W 85W 30W 50W 50W 50W 50W 50W 50W 50W 50W 50W 5	250 250 250 200 250 200 250 200 200 200	CO1 to C10     Alchemist Forseti Integrated     Audio Note Oto Line PP     AVI S2000MI     Copland CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.1     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     HX/ KK600     LFD 0 LE Integrated     Linn Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-200S     Naim Nait 3 R     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemfoort SF100     Talk Electronics Storm 2 P     TEAC AB-X10     Thule IA100     Luison Simply Teo     E1001 to E226     Art Audio Integra     AudioIntegra     AudioIntegra SE     Audio Note Sto Line SE     Audio Note Oto Phono SE		100W 12W 12W 100W 70W 55W 50W 60W 55W 60W 33W 85W 55W 55W 75W 26W 80W 30W 80W 50W 100W 100W 100W 12W 25W 25W 25W 25W 25W 25W 25W 25W	949 950 899 945 938 1,000 995 800 790 790 790 790 795 750 955 750 955 750 955 750 955 750 955 750 955 750 955 750 955 1,000 895 760 995 1,000 949 949 949 849 949 1,000 949 945 1,000 849 945 1,000 849 1,000 849 1,000 849 1,000 849 1,000 845 1,0000		
Musical Fidelity E10         Image: Compared CSA14	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 Technics SU-4300 Technics SU-4300 Technics SU-4300 Technics SU-4300 Technics SU-4300 Technics SU-4300 Technics SU-4300 Technics SU-4300 Technics SU-4300 Technics AX-492 E251 to E50 Alchemist Axiom Alchemist Axiom Acram Alpha 8 Arcam Alpha 9 Audiolanov Alto Audiolanov Alto Audiolanov Alto Audiolanov Alto Audiolanov Alto Creek 4330 Creek 4330 Creek 4330 Creek 4330 Creek 4330 Creek 4330 Creek 4330 Creek 4300 Formon PMA-725R EMF Audio Sequel HXK HK640 IVC AX-V8BK Kenwood KA-5050R Kenwood KA-5050R		60W 95W 45W 45W 45W 90W 25W 90W 25W 90W 25W 80W 30W 30W 30W 30W 30W 30W 30W 30W 30W 3	250 250 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	COL to E10     Alchemist Forseti Integrated     Audio Note Oto Line PP     AVI S2000MI     Copland CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     H/K HK680     LFD 0 LE Integrated     Linn Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-200S     Naim Nait 3     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemfoort SF100     Talk Electronics Storm 2 P     TEAC AB-X10     Thule IA100     Unison Simply Two     E1001 to E202     ArdioIntegra     AudioIntegra     AudioIntegra     AudioIntegra     AudioIntegra     AudioIntegra     Audio Note Orto Line SE     Audio Note Orto Phono SE     Audio Note Orto Phono SE     Audio Note Orto Ine SE		100W 12W 100W 70W 70W 70W 70W 70W 70W 70W 70W 70W	949 950 899 945 938 938 800 790 790 790 790 790 790 790 790 790 7		
Musical Fidelity E101         ©         70W         500         Copland CSA28         ©         1,299           Musical Fidelity A2         ©         25W         500         Copland CTA401         ©         25W         1,699           NAD 314         ©         35W         260         CR Der Remulus V3         ©         60W         1,989           NAD 317         ©         80W         470         CR Der Remulus V3         ©         60W         1,989           Onix 0A32LE         ©         40W         479         Credo LIM 702         1,191           Onix 0A31         ©         60W         480         Credo LIM 703         1,249           Onkyo A9210         ©         40W         260         EAR 834         ©         40W         1999	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 TEAC A-R300 TEAC A-R300 TEAC A-R500 Technics SU-400 Mk3 Technics SU-400 Mk3 Technics SU-400 Mk3 Yamaha AX-390 Yamaha AX-390 Yamaha AX-492 E251 to E50 Technist Maxim Alchemist Maxim Alchemist Maxim Alchemist Maxim Alchemist Maxim Alchemist Maxim Audiogram MB1 Audiogram MB1 Audiogram MB1 Audiogram MB1 Audiogram MB1 Audiogram MB1 Audiogram MB1 Audiogram MB1 Audiogram MB1 Audiogram MB1 Creek 4330 Creek 4330 Creek 4330 Creek 5250 Denon PMA-725R EMF Audio Sequel H/K HK640 JVC AX-V8BK Kemwood KA-5050R Kemwood KA-5050R		60W 95W 45W 45W 45W 40W 55W 90W 25W 30W 25W 30W 60W 85W 30W 60W 85W 30W 50W 55W 50W 55W 70W 90W 55W 70W 90W 90W 85W	250 250 250 200 250 200 250 200 200 200	COL to E10     Alchemist Forseti Integrated     Audio Note Oto Line PP     AVI S2000MI     Copland CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     H/X HK680     LFD 0 LE Integrated     Linn Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-200S     Naim Nait 3 R     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemfoort 5100     Talk Electronics Storm 2 P     TEAC AB-X10     Tube Integrate     Audio Note Soro Line SE     Audio Note Soro Line SE     Audio Note Soro Line SE     Bryston B-60		100W 12W 100W 70W 70W 70W 70W 55W 55W 50W 60W 60W 60W 55W 50W 50W 50W 75W 60W 80W 75W 26W 20W 100W 100W 100W 100W 100W 100W 100W	949 950 899 945 938 1,000 995 1,000 790 790 790 790 790 790 790 790 790		
Musical Fidelity A2         ©         25W         500         Copland CTA401         ©         25W         1.699           NAD 314         ©         35W         260         CR Dev Remulus V3         ©         35W         1.989           NAD 317         ©         80W         470         CR Dev Remus V3         ©         60W         1.989           Onix 0A32LE         ©         40W         479         Credo LIM 702         1.191           Onix 0A3210         ©         40W         260         EAR 334         ©         40W         1.999	Rotel RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE210 Sony TA-FE210 Sony TA-FE48E TEAC A-R300 TEAC A-R300 Technics SU-4300 Mk3 Technics SU-4300 Mk3 Technics SU-4700 Mk3 Yamaha AX-492 <b>E251 to E50</b> Alchemist Axiom Alchemist Axiom Alchemist Maxim Alchemist Maxim Alc		60W 95W 45W 45W 45W 90W 25W 90W 25W 90W 25W 60W 830W 60W 830W 60W 830W 60W 830W 50W 75W 335W 35W 35W 50W 97W 95W 95W 60W 95W 835W 90W 95W 835W 800 835W 800 835W 800 835W 800 835W 800 835W 800 835W 800 835W 835W 835W 835W 835W 835W 835W 835W	250 250 250 200 200 200 200 200 200 200	CO1 to C10     Alchemist Forseti Integrated     Audio Note Ofo Line PP     AVI S2000MI     Copland CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.1     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     HX/ KK800     LFD 0 LE Integrated     Lian Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-200S     Naim Nait 3 R     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemfoort SF100     Talk Electronics Storm 2 P     TEAC AB-X10     Thule IA100     Union Simply Two     Cardio Integra     AudioIntegra     BPSton B-60     Bryston B-60R		100W 12W 100W 70W 70W 70W 70W 55W 55W 60W 60W 60W 50W 60W 50W 50W 50W 50W 50W 75W 60W 80W 50W 60W 80W 80W 80W 80W 80W 80W 80W 80W 80W 8	949 950 899 945 938 1,000 995 1,000 799 800 799 955 1,000 799 955 750 895 750 895 750 895 750 895 750 895 750 895 750 895 750 895 750 895 750 895 1,000 895 750 800 799 799 800 799 790 799 790 795 1,000 800 799 790 795 1,000 800 799 790 795 750 795 750 795 750 795 750 800 799 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 795 750 790 795 750 790 795 750 790 795 750 790 795 750 790 795 750 790 795 750 790 790 790 795 790 795 750 790 790 790 790 795 750 790 790 790 790 795 700 795 700 795 700 795 700 795 700 795 700 795 700 795 700 795 700 795 700 700 795 700 700 795 700 700 700 700 700 700 700 700 700 70		
NAD 314         Image: System Stress Str	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 Technics SU-4300 Technics AX-492 S2251 to 2250 Alchemist Axiom Alchemist Maxim AMC CY1 3030A Arcam Alpha 8 Arcam Alpha 9 Audiolanov Alto Audiolgram MB1 Audiolgram MB1 Audiola 8000A Arraw Alpha 9 Audiolanov Alto Creek 4330 Creek 4300 I Creek 4300 Creek		60W 95W 45W 45W 40W 55W 90W 25W 90W 25W 80W 30W 25W 80W 80W 30W 30W 30W 30W 30W 30W 30W 30W 30W 3	250 250 250 200 250 200 250 200 250 200 250 200 250 200 20	COL to ECO     Alchemist Forseti Integrated     Audio Note Oto Line PP     AVI S2000MI     Copland CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     H/K HK680     LFD 0 LE Integrated     Linn Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 1     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-200S     Naim Nait 3 R     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemfoort SF100     Talk Electronics Storm 2 P     TEAC AB-X10     Unison Simply Tro     Le1001 to E220     Art Audio Integra     Audio Note Oto Line SE     Bryston B-60     Bryston B-60     Bryston B-60R     Copland CSA28		100W 12W 100W 70W 70W 70W 70W 55W 55W 60W 60W 60W 50W 60W 50W 50W 50W 50W 50W 75W 60W 80W 50W 60W 80W 80W 80W 80W 80W 80W 80W 80W 80W 8	949 945 950 889 945 938 938 800 790 790 790 790 790 790 790 790 790 7		
Onix OA32LE         O         40w         479         Credo LIM 702         1,191           Onix OA31         Image: Credo Lim 703         1,249         1,249         1,249         1,249           Onkyo A9210         Image: Credo Lim 703         1,249         1,249         1,249         1,249	Rotel RA970BX Sherwood AX-7030R Sony TA-FE210 Sony TA-FE210 Sony TA-FE210 Sony TA-FE48E TEAC A-RS00 Technics SU-4300 Technics SU-4300 Technics SU-4300 Technics SU-4700 Mk3 Technics SU-4700 Mk3 Yamaha AX-492 <b>E251 to E50</b> Alchemist Axiom Alchemist Axiom Alchemist Maxim Alchemist Maxim A		60W 95W 45W 45W 45W 40W 55W 90W 25W 30W 25W 30W 60W 85W 30W 60W 85W 30W 50W 50W 50W 55W 50W 55W 70W 97W 85W 85W 800 85W 800 800 85W 800 800 800 800 800 800 800 800 800 80	250 250 250 200 200 200 200 200 200 200	CO1 to C10     Alchemist Forseti Integrated     Audio Note Ofo Line PP     AVI S2000MI     Copland CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     HX/ KK800     LFD 0 LE Integrated     Lian Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-200S     Naim Nait 3 R     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemfoort SF100     Talk Electronics Storm 2 P     TEAC AB-X10     Thulo Integra     Audio Integra		100W 12W 100W 50W 55W 50W 50W 60W 60W 60W 50W 50W 50W 50W 50W 50W 50W 50W 50W 60W 30W 50W 50W 60W 30W 25W 20W 100W 100W 100W 100W 100W 25W 25W 25W 25W 25W 25W 25W 25W 25W 25	949 9450 899 9455 899 938 1,000 995 1,000 799 800 799 800 799 955 1,000 895 750 895 750 895 750 895 750 895 750 895 750 895 750 895 750 895 1,000 895 750 895 1,000 895 750 895 1,000 895 750 800 799 849 730 730 799 849 730 730 730 799 849 730 730 795 1,000 849 745 755 755 755 755 755 755 755 755 755		
Onix 0A31         Observation         Gow         480         Credo LIM 703         1,249           Onkyo A9210         O         40W         260         EAR 834         O         40W         1,999	Rotal RA9708X Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E Sony TA-F448E TEAC A-R300 Technics SU-4300 Technics AX-492 S2251 to £250 Alchemist Axiom Alchemist Axiom Alchemist Maxim AMC CVT 3030A Arcam Alpha 8 Arcam Alpha 9 Audiolanov Alto Audiolgram MB1 Audiolara MB1 Audiolara MB1 Audiolara Alto II CR Dev CR324 Creek 4330 Creek 4300 I CR Dev CR324 Served KA-5050 Kenwood KA-5050R Kenwood KA-50		60W 95W 45W 45W 45W 45W 55W 90W 25W 80W 30W 25W 80W 85W 30W 30W 30W 30W 30W 30W 30W 30W 30W 30	250 250 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 25	COL to CIO     Alchemist Forseti Integrated     Audio Note Oto Line PP     AVI S2000MI     Copiand CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     H/K HK680     LFD 0 LE Integrated     Linn Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-200S     Naim Nati 3     R     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemiont SF100     Talk Electronics Storm 2 P     TEAC AB-X10     Thule IA100     Unison Simply Two     EloOt to ESE     Audio Integra     AudioIntegra     AudioIntegra     AudioInte Sto Line SE     Audio Note Storo Line SE     Audio Note Storo Line SE     Audio Note Storo Line SE     Bryston B-60     Bryston B-60     Bryston B-60R     Copland CSA28     Copland CSA24     Copland CSA28     Copland CSA28     Copland CSA24     Copland CSA28     Copland CSA24     Coplan		100W 12W 100W 70W 70W 70W 70W 70W 70W 70W 70W 70W	949 950 889 945 938 938 800 790 790 790 790 790 790 790 790 790 7		
Onkyo A9210	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E Sony TA-FA48E TEAC A-R300 TEAC A-R300 Technics SU-4300 Technics SU-4500 Technics SU-4500 Technics SU-4500 Technics SU-4700 Mk3 Yamaha AX-390 Yamaha AX-390 Yamaha AX-492 S2251 to S250 Alchemist Maxim Alchemist Maxim		60W 95W 45W 45W 45W 40W 90W 25W 30W 25W 30W 30W 60W 85W 30W 60W 85W 30W 50W 50W 50W 50W 55W 70W 97W 100W 33SW 50W 55W 70W 97W 85W 80W	250 250 250 200 250 200 250 200 200 200	COL to COL     Alchemist Forseti Integrated     Audio Note Oto Line PP     AVI S2000MI     Copland CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     H/X HK680     LFD 0 LE Integrated     Linn Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-200S     Naim Nait 3 R     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemfoort SF100     Talk Electronics Storm 2 P     TEAC AB-X10     Tube VITO     Tube VITO     Tube VITO     Tube Soro Line SE     Audio Note Soro Line SE     Bryston B-60     Bryston B-60     Bryston B-60     Romemus V3     CR Der Remus V3		100W 12W 100W 70W 70W 70W 70W 70W 70W 70W 70W 70W	949 950 899 945 899 938 1,000 995 1,000 790 790 790 790 790 800 799 950 950 950 950 950 950 950 950 950 9		
UNKYO A521 0 50W 350 Graat venticinque G 1,995	Rotal RA9708X Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E Sony TA-F448E TEAC A-R300 Technics SU-4300 Technics AX-492 S2251 to £250 Alchemist Axiom Alchemist Axiom Alchemist Maxim AMC CVT 3030A Arcam Alpha 8 Arcam Alpha 9 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Audiolanov Alto Audiolgram MB1 Creek 4330 Creek		60W 95W 45W 45W 45W 45W 90W 25W 90W 25W 60W 830W 60W 83W 60W 83W 60W 83W 60W 83W 70W 60W 83W 70W 70W 35W 35W 85W 60W 95W 60W 95W 85W 60W 95SW 70W 95SW 70W 85SW 70W 70W 70W 75SW 70W 75SW 70W 75SW 70W 75SW 75SW 75SW 75SW 75SW 75SW 75SW 75S	250 250 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 25	COL to CIO     Alchemist Forseti Integrated     Audio Note Oto Line PP     AVI S2000MI     Copiand CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     H/K HK680     LFD OLE Integrated     Linn Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-200S     Naim Nati R     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemtoort SF100     Talk Electronics Storm 2 P     TEAC AB-X10     Thule IA100     Union Stopy Two     E0001 to ESE     Audio Integra     AudioIntegra     Audio Integra     Audio Note Soro Line SE     Bryston B-60     Bryston B-60     Bryston B-60     Bryston B-60     Bryston B-60     Represent SV3     Credo LIM 703		100W 12W 100W 70W 70W 70W 55W 70W 55W 55W 55W 55W 50W 85W 50W 85W 50W 85W 70W 70W 70W 70W 100W 10W 100W 100W 100	949 950 899 945 938 938 900 995 1,000 790 790 790 790 790 790 790 790 790		
	Rotal RA970BX Sherwood AX-7030R Sony TA-FE310 Sony TA-FE310 Sony TA-FE310 Sony TA-FE48E TEAC A-R300 TEAC A-R300 TEAC A-R500 Technics SU-400 Mk3 Technics SU-400 Mk3 Technics SU-400 Mk3 Yamaha AX-390 Yamaha AX-390 Yamaha AX-492 <b>S251 to S50</b> Alchemist Axiom Alchemist Axiom Alchemist Maxim AMC CYT 3030A Aream Alpha 9 Audiolanov Alto Audiogram MB1 Audiolab 8000A Aura WA-100 II CR Dev CR324 Creek 4330 Creek 5250 Denon PMA-725R EMF Audio Sequel H/K HK640 J/C AX-V88K Kenwood KA-5050R Kenwood KA-5050R		60W 95W 45W 45W 45W 40W 90W 25W 30W 25W 30W 60W 85W 30W 60W 85W 30W 60W 85W 30W 50W 50W 50W 55W 50W 55W 70W 97W 85W 80W 40W 40W 40W 40W	250 250 250 200 250 200 250 200 250 200 20	CO14 to C10     Alchemist Forseti Integrated     Audio Note Oto Line PP     AVI 52000MI     Copland CSA8     Credo IMP702     Credo IMP703     Electrocompaniet ECI-2     Exposure XV Super     Fase Evoluzione Performance 1.0     Golden Tube Audio SI-50     H/K HK680     LFD 0 LE Integrated     Linn Majik (Phono)     Meridian 551     Micromega Tempo 1     Micromega Tempo 1     Micromega Tempo 2     Minstrel Ultra Linear     Monrio MC-2005     Naim Nait 3 R     Pioneer A-07     Rega Elicit     Shearne Phase 2 Reference     Stemfoort SF100     Talk Electronics Storm 2 P     TEAC AB-A10     Unison Simply Two     Ladio Integra     Audio Integra     Audio Note Oto Line SE     Bryston B-60     Bryston B-60     Bryston B-60R     Copland CSA4     Cop		100W 12W 100W 70W 70W 70W 55W 70W 55W 55W 55W 55W 50W 85W 50W 85W 50W 85W 70W 70W 70W 70W 100W 10W 100W 100W 100	949 950 899 945 899 938 1,000 995 1,000 790 790 790 790 800 799 800 799 950 950 950 950 950 950 950 950 950 9		



For more information or stockist, 22 (0181) 947 5	your 047	r neare	est	<u>audio re</u>	24R
or e-mail 73064.1710@c	ompu	iserve	.com	HIGH DEF	INIT
D Integrated 1	Θ	65W	1.099	LFD Mistral Linestage	Θ
rantz PM-16	G	90W		LFD LSO Linestage	G
racus Intrare	õ	60W	1,095	Lumley PP70	U
nstrel Partridge	ø	26W	1,499	Lumley PP1	
nrio MC-205	Ø		1,545	Magnum MP120	O
isical Fidelity A1000	Θ	50W	1,500	Magnum MP660	G
gers E-20a	0	17W		Magnum MP330	G
gers E-40a	0		1,900	Michell Iso	
nic Frontiers Anthem Integrated	Θ	25W		Moth 30 Passive	0
ison Simply Four P	0	24W		Moth 30 RIAA Moth 30 Active	
nison Simply Four T Dodside ISA230 Line	0		1,595	Musical Fidelity E20	0
odside ISA230 Disc	0	30W	1,099	Musical Fidelity F2	0
Over £200		30W	1,245	NAD 114	6
yton Opera	0	50W	2,595	NAD 116	G
dio Note Meishu Line		9W	2,750	Naim Prefix	
dio Research CA50	0	511	3,990	Naim NAC92	Ø
y CAD-300SEI		11W	3,495	Rega EOS	
R 859	0	13W	2,499	Roksan Artaxerxes 10	
ctrocompaniet ECI-1	0		2,195	Rose RV-23	0
mma Rhythm	Ø	18W	2,499	Rotel RC970BX MkII	Θ
is DA30		30W	3,490	Talk Electronics Hurricane 1	0
is DA60	0		5,750	Technics SU-C1000	G
II KAV300i racus Onesta	Ø	150W	2,550	Trilogy 905	
neer A-09	0		2,595	Trilogy 904 Trilogy 900	-
ne Tech Unisis Sig. Int.	0	45W 30W	2,300	Unison Simply Phono	ø
e Tech Synergy PPS	0		6,900	£501 to £	2000
son Performance One	0	25W	4,500	Advton Chorus	
		2.511	1,000	Alchemist Kraken Pre	0
			100	Alchemist Forseti Pre	G
-	Ś			Art Audio Headline Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Art Audio Conductor Art Audio Conductor Export Audio Note M1 Line	0
-	Í	1		Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Art Audio Conductor Export Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Note D1scovery	
-	Í	1		Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Art Audio Conductor Export Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 RIAA Audio Note M2RIAA	0
-ÌC	Í	1-1-		Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio Conductor Art Audio Conductor Export Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Note Discovery Audio Note M2RIAA Audio Research LS7	0
	Í			Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Art Audio Conductor Export Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Research LS7 Audio Research LS3	0
PREAME	ý	1-		Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note Discovery Audio Note Discovery Audio Research LS3 Audio Research LS3 Audio Restarch S3	000000000000000000000000000000000000000
PREAMPS		Ē		Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Rosearch LS7 Audio Research LS3 Audio Rynthesis Pro Passion Audio Synthesis Pro Sasion	000000000000000000000000000000000000000
EY	191	Ē		Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note Discovery Audio Note Discovery Audio Research LS3 Audio Research LS3 Audio Restarch S3	000000000000000000000000000000000000000
EY — (etc) number of lin	e-lev			Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Art Audio Conductor Art Audio Conductor At Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Synthesis Pro Passion Audio Synthesis Passion Audio Synthesis Passion 6	000000000000000000000000000000000000000
EY — (etc) number of lin	e-lev			Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note Discovery Audio Note M2RIAA Audio Research LS3 Audio Research LS3 Audio Synthesis Passion Audio Synthesis Passion 6 Audio Synthesis Passion 8	000000000000000000000000000000000000000
EY – (etc) number of lin h – phono input fitte	ie-lev d as	stand		Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS7 Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 8 Audio Synthesis Passion 8 Audio Synthesis Passion 88 Audio Synthesis Passion 8M	000000000000000000000000000000000000000
EY - (etc) number of lin h - phono input fitte nay be an option on so	ie-lev d as	stand		Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 8 Audio Synthesis Passion 8 Audiolab 8000C	000000000000000000000000000000000000000
EY ) – (etc) number of lin Ph – phono input fitte nay be an option on so odels).	d as	stand		Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio Conductor Export Audio Note Miline Audio Research LS3 Audio Research LS3 Audio Synthesis Pro Passion Audio Synthesis Passion 85 Audio Synthesis Passion 85 Audio Synthesis Passion 88 Audiolab 8000C Audiolab 8000C Audiolab 8000C Audiolab 8000C Audiolab 8000C	000000000000000000000000000000000000000
CEY - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to £500	d as	stand other	ard	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note Discovery Audio Note Discovery Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8S Audio Synthesis Passion 8M Audiaba 8000C Audiolab 8000Q Aura CA-200 Aura CA-200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CEY - (etc) number of lin Ph - phono input fitte nay be an option on so iodels). Up to £500 C CVT 1030A	d as	stand	ard 400	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2RIAA Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8 Audio Synthesis Passion 8 Audiolab 8000C Audiolab 8000C Audiolab 8000Q Aura CA-200 AVI S200MP Beam-Echo SP-21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CEY - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to \$500 CYT 1030A Audio Minuet	d as	stand other Ph	ard 400 499	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Export Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8S Audio Synthesis Passion 8M Audiolab 8000C Audiolab 8000C Audiolab 8000Q Aura CA-200 AVI S2000MP Beam-Echo SP-21 Bryston .4	
CEY - (etc) number of lin Ph - phono input fitte nay be an option on so todels). Up to £500 CYT 1030A Andio Minuet lio Alchemy Vac-in-the-box	d as	stand other	<b>400</b> 499 250	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note Discovery Audio Note M2RIAA Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8M Audio Synthesis Passion 8M Audiolab 8000C Audiolab	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EY - (etc) number of lin h - phono input fitte nay be an option on so odels). Up to ESOC CVT 1030A tudio Minuet io Alchemy Yac-in-the-box iolnnov P1	d as ome o 6	stand other Ph	400 499 250 369	Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8 Audio 8000PPA Audio 8 Beam-Echo SP-21 Bryston 4 Bryston 8P1 Bryston 8P5	
EY - (etc) number of lin h - phono input fitte nay be an option on so odels). Up to \$500 CCYT 1030A Audio Minuet io Alchemy Vac-in-the-box iolnov P1 Joinnov L1	d as	stand other Ph	ard 400 499 250 369 369	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8S Audio Synthesis Passion 8M Audiolab 8000PA Audiolab 8000PA Audiolab 8000Q Aura CA-200 AVI S2000MP Beam-Echo SP-21 Bryston BP1 Bryston BP1 Bryston BP4	
CEY - (etc) number of lin Ph - phono input fitte may be an option on so todels). Up to £500 CCYT 1030A Audio Minuet lio Alchemy Yac-in-the-box liolnov P1 liolnov L1 lio Note The M	d as ome o 6	stand other Ph Ph Ph	400 499 250 369 369 350	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Art Audio Note M1 Line Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note Discovery Audio Research LS3 Audio Synthesis Passion S3 Audio Synthesis Passion 8M Audio Synthesis Passion 8M Audioa Synthesis Passion 8M Audioab 8000C Audiolab 800C Au	
CPY - (etc) number of lin Ph - phono input fitte nay be an option on so odels). Up to £500 CYT 1030A Audio Minuet io Alchemy Vac-in-the-box iolnnov P1 iolnnov L1 io Note The M m-Echo PP-21	d as ome o 6	stand other Ph Ph Ph Ph	400 499 250 369 369 350 499	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8S Audio Synthesis Passion 8M Audiolab 8000PA Audiolab 8000PA Audiolab 8000Q Aura CA-200 AVI S2000MP Beam-Echo SP-21 Bryston BP1 Bryston BP1 Bryston BP4	
CEY - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to £500 C CVT 1030A Audio Minuet dio Alchemy Vac-in-the-box diolonov P1 diolnov P1 diolnov P1 diolnov P2 Dev Themis	e-lev d as ome o 6	stand other Ph Ph Ph	400 499 250 369 369 350	Art Audio VPL Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Art Audio Conductor Export Art Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Synthesis Passion F Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8 Audio 8000PPA Audio 8 Beam-Echo SP-21 Bryston 8 Bryston 8 P1 Bryston 8 P20 Bryston 9 P20 Bryston 9 P20	
CEY - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to £500 C CVT 1030A Audio Minuet lio Alchemy Vac-in-the-box liolanov Pl liolanov Pl liolanov Pl lionote The M am-Echo PP-21 Dev Themis de (P43	e-lev d as ome o 6 0 0	stand other Ph Ph Ph Ph	400 499 250 369 369 350 499 349	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export 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 Research LS3 Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8S Audio Synthesis Passion 8S Audio Synthesis Passion 8M Audiolab 8000C Audiolab 8000PA Audiolab 8000PA Audiolab 8000Q Aura CA-200 AVI S200MP Beam-Echo SP-21 Bryston BP1 Bryston BP5 Bryston BP4 Bryston BP45 Bryston BP45 Bryston 4B-ST PR0	
CEY D - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to £500 C CYT 1030A Audio Minuet Jio Alchemy Yac-in-the-box diolnov P1 JioInov L1 JioInov L1 JioInov L1 JioInov L1 JioInov P21 Dev Themis Jek P43 dek P52	e-lev d as ome o 6	stand other Ph Ph Ph Ph	400 499 250 369 369 350 499 349 399	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 RIAA Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Note M2 RIAA Audio Research LS3 Audio Synthesis Por Passion Audio Synthesis Passion 6 Audio Synthesis Passion 6 Audio Synthesis Passion 8S Audio Synthesis Passion 8S Audio Synthesis Passion 8M Audiolab 8000C Audiolab 8000C Beam-Echo SP-21 Bryston BP1 Bryston BP1 Bryston BP5 Bryston BP4 Bryston BP20 Bryston BP-25 Bryston 48-ST PR0 Cary SLP-74 Cary PH-301 Chord CPA 1800	
CEY D - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to £500 CVT 1030A Audio Minuet dio Atchemy Vac-in-the-box diolonov P1 diolonov	e-lev d as ome o 6 0 0	stand other Ph Ph Ph Ph	ard 400 499 250 369 369 350 499 349 399 499.	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Art Audio Note M1 Line Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2RIAA Audio Research LS3 Audio Synthesis Passion S3 Audio Synthesis Passion 6 Audio Synthesis Passion 8M AudioLab 8000C AudioLab 8000	
CEY D - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to £500 C CY 1030A Audio Minuet dio Alchemy Vac-in-the-box diolnov P1 diolnov C1 diolnov	e-lew d as ome of 6 0 0	stand other Ph Ph Ph Ph	400 499 250 369 350 499 349 399 499 499 450 495 349	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Art Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Synthesis Passion For Audio Synthesis Passion For Audio Synthesis Passion 6 Audio Synthesis Passion 8 Audio Synthesis Passion 8 Badiotab 8000C Aura CA-200 Avra CA-200 Avra CA-200 Bryston BP1 Bryston BP1 Bryston BP1 Bryston BP3 Bryston BP4 Bryston BP20 Bryston 9 Cary SLP-74 Cary PH-301 Chord CPA 1800 Chord CPA 1800	
CEY D - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to £500 CVT 1030A Audio Minuet lio Anchemy Vac-in-the-box lioinnov P1 lioinnov P1 lioinnov P1 lioinnov P1 lioinnov P1 box The M ham-Echo PP-21 Dev Themis ek P43 ek P52 mson CS610C ADSP200S 8 834P 8 834P	e-lew d as ome of 6 0 0	stand other Ph Ph Ph Ph Ph	And 400 499 250 369 369 350 499 349 349 399 495 495 349 495	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 8 Audio Synthesis Passion 8 Audiolab 8000C Audiolab 8000C Audiolab 8000PPA Audiolab 8000PPA Beam-Echo SP-21 Bryston BP1 Bryston BP5 Bryston BP20 Bryston BP25 Bryston 4B-ST PR0 Cary SLP-74 Cary PH-301 Chord CPA 4000 phono Concordant Exquisite	
CEY - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to £500 C CVT 1030A Audio Minuet dio Alchemy Yac-in-the-box diolnov P1 Minoto P1 Minoto P1 Minoto P1-21 Dev Themis wek P43 wek P43 wek P52 mson CSG10C A DSP200S R 834P R 834L ctrocompaniet ECP-1	e-lev d as ome ( ) () () () () () () () () () () () ()	stand other Ph Ph Ph Ph Ph	<b>400</b> 499 250 369 350 499 349 349 349 499 450 <b>495</b>	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2RIAA Audio Research LS3 Audio Synthesis Passion S3 Audio Synthesis Passion 6 Audio Synthesis Passion 8M AudioLab SouOC AudioLab 8000C AudioLab 8000C Card SL-74 Cary CH-74 Cary CH-74 Cary CH-74 Corrad-LP-740 Chord CPA 1800 Chord CPA 1800 Chord CPA 1800 Corrad-Lohnson PV-10A	
CEY - (etc) number of lin Ph - phono input fitte may be an option on so nodels). Up to £500 CVT 1030A Audio Minuet dio Alchemy Vac-in-the-box dio Alchemy Vac-in-	e-lev d as ome ( ) () () () () () () () () () () () ()	stand other Ph Ph Ph Ph Ph	And 400 499 250 369 369 350 499 349 349 399 495 495 349 495	Art Audio VPL Art Audio Conductor Phono Art Audio Conductor Phono Art Audio VP1 Art Audio Conductor Export Audio Note M1 Line Audio Note M1 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 Line Audio Note M2 RIAA Audio Research LS3 Audio Research LS3 Audio Synthesis Passion 6 Audio Synthesis Passion 8 Audio Synthesis Passion 8 Audiolab 8000C Audiolab 8000C Audiolab 8000PPA Audiolab 8000PPA Beam-Echo SP-21 Bryston BP1 Bryston BP5 Bryston BP20 Bryston BP25 Bryston 4B-ST PR0 Cary SLP-74 Cary PH-301 Chord CPA 4000 phono Concordant Exquisite	

Lumley PP132Magnum MP120GMagnum MP600GMagnum MP330GMichell Iso420Moth 30 RIAAPhMoth 30 RIAAPhMoth 30 ActiveGMusical Fidelity F2GPhPhMusical Fidelity F2GPhPhMusical Fidelity F2GPhPhMusical Fidelity F2GPhPhRege E0SPhRoksan Attaxerxes 10PhRoksan Attaxerxes 10PhRote RV-23GRotal RC9708X MkHGTrilogy 905Trilogy 905Trilogy 900GPh99Alchemist Kraken PreGAlchemist Kraken PreGAldio Chorus700Art Audio Conductor Phono750Art Audio Conductor Phono750Art Audio Conductor Phono750Audio Note M1 Line500Audio Note M1 Line500Audio Note M1 Line500Audio Note M1 Line500Audio Synthesis PassionGAudio Synthesis PassionGBasm-Echo SP-21GPh <t< th=""><th>HIGH DEFIN</th><th>I I T</th><th>101</th><th>N<sup>a</sup></th></t<>	HIGH DEFIN	I I T	101	N <sup>a</sup>
LFD LSD LinestageIm	LFD Mistral Linestage	6	100	44
Lumley PP132Magnum MP120GMagnum MP600GMagnum MP330GMichell Iso420Moth 30 RIAAPhMoth 30 RIAAPhMoth 30 ActiveGMusical Fidelity E20GMusical Fidelity E20GNabilatPhMusical Fidelity E20GNabilatPhMusical Fidelity E20GNabilatPhRese RCSPhRage E0SPhRots RV-23GRots RV-23GRots RV-23GRots RV-23GRots RV-23GRots RV-23GRots RV-23GRots RV-23GRots RV-23GRotal RCS/08X MkHGTrilogy 900GRotal RCS/08X MkHGRak Lectronics Hurricane 1GRotal RCS/08X MkHGRotal RCS/08X MkHG<				499
Magnum MP120(a)(a)(a)Magnum MP660(b)(c)(c)Magnum MP500(c)(c)(c)Michall Iso(c)(c)(c)Moth 30 Passive(c)(c)(c)Moth 30 Passive(c)(c)(c)Moth 30 Passive(c)(c)(c)Moth 30 Passive(c)(c)(c)Moth 30 Passive(c)(c)(c)Moth 30 Passive(c)(c)(c)Musical Fidelity E20(c)(c)(c)Nabi 114(c)(c)(c)Musical Fidelity F2(c)(c)(c)NAD 114(c)(c)(c)Rose RV-23(c)(c)(c)Rose RV-23(c)(c)(c) <tr< td=""><td>Lumley PP70</td><td></td><td>100</td><td>32</td></tr<>	Lumley PP70		100	32
Magnum MP560OS00Magnum MP330OS00Michell Iso422Moth 30 PassiveO14Moth 30 RIAPh244Moth 30 RIAPh244Musical Fidelity E20OPhMusical Fidelity F2OPhNAD 116OPhRace RC23OPhRoksan Artaxerxes 10PhRote RC2708X MkliORote RC2708X MkliORote RC2708X MkliORoten RC2708X MkliORother RC2708X MkliORother RC2708X MkliORoten RC2708X MkliO			236.	and one
Magnum MP330ØS0Michell Iso420Micht 30 PassiveOMoth 30 RIAAPhMoth 30 ActiveOMusical Fidelity E20ØMusical Fidelity F2ØNab 116ØMusical Fidelity F2ØNab 116ØRega E0SPhRaga E0SPhRots RV-23ØRots RV-24PhRots RV-25ØRots RV-25ØRots RV-25ØRots RV-25ØRots RV-26ØRots RV-27ØRots RV-28ØRots RV-29ØRots RV-29ØRots RV-29ØRots RV-29ØRots RV-29ØRots RV-29ØRots RV-29ØRots RV-29Rots RV-29 <td></td> <td></td> <td></td> <td></td>				
Michell Iso42Moth 30 Passive614Moth 30 Passive914Moth 30 Passive934Musical Fidelity E206PhNabal Ifidelity E206PhNabal Ifidelity F26PhNAD 1146PhRege E0S947Resa Artaxerses 109PhRote RC9708X Mkli617Talk Electronics Hurricane 1950Trilogy 9057773Trilogy 9049PhAt Audio Conductor Proto74Art Audio Conductor Export9Audio Note M1 Line50Audio Note M1 Line9Audio Note M1 Line9Audio Note M1 Line9Audio Note M2 Line9Audio Synthesis Passion6Audio Synthesis Passion6Audio Synthesis Passion6Audio Synthesis Passion9Audio Synthesis Passion9Bryston BP19 <td></td> <td></td> <td></td> <td></td>				
Noth 30 Passive       0       14         Moth 30 RIAA       Ph       24         Moth 30 RIA       Ph       24         Moth 30 Active       0       34         Musical Fidelity E20       0       Ph       39         Musical Fidelity F2       6       Ph       50         Nan Tacartartartartartartartartartartartartarta		G		
Moth 30 RIAAPh24Moth 30 Active034Musical Fidelity E200PhMusical Fidelity F29PhNAD 1160PhNAD 1160PhRes RV-230PhRots RV-230PhRots RV-230PhRots RV-230PhRots RV-230PhRots RV-230PhRots RV-230PhRots RV-230PhRots RV-230PhRots RV-230PhRota RV-230PhRots RV-230PhRota RV-230PhRota RV-230PhRota RV-230PhRota RV-230PhRota RV-230PhRota RV-230PhRota RV-230PhRota RV-230PhMoth SO DE SCOND0PhRota RV-230PhRota RV-230PhRota RV-230PhRota RV-230PhRota RV-230PhRota RV-240PhRota RV-2501.992Alchanist Kraken Pre0Alchanist Kraken Pre0Rota RV RIAAPhAudio Note M1 RIAAPhAudio Rote M2 Line992Audio Synthesis Passion S0Audio Synthesis Passion S0 <t< td=""><td></td><td>0</td><td>100</td><td>2050</td></t<>		0	100	2050
Noth 30 Active934Musical Fidelity E200Ph39Musical Fidelity F26Ph39NAD 1140Ph27NAD 1166Ph43Naim Prefix3543Naim NAC326PhResz EOSPh39Rosa RV-239PhRosa Artazerzes 10PhRosa Artaserzes 10PhAdyton Chorus1,993Alchemist Kraken Pre9Art Audio Conductor Ponto75Art Audio Conductor Ponto75Art Audio Conductor Ponto75Art Audio Conductor Port2,000Audio Note MI Line509Audio Note MI Line999Audio Note MI Line999Audio Note MI Line999Audio Synthesis Passion 69Audio Synthesis Passion 89Audio Synthesis Passion 859Audio Synthesis Passion 859Audio Synth			Ph	
Musical Fidelity F2       ©       Ph       50         NAD 116       ©       Ph       27         Naim AD21       ©       Ph       27         Naim AC32       ©       Ph       39         Roksan Artaxerxes 10       Ph       45         Roksan Artaxes 10       Ph       45         Rokon Chorus       LSO1 to £2000       Ph       49         Adito Chorus       LSO1 to £2000       Ph       40         Art Audio Conductor Export       Quito Art Audio Conductor Export       Quito Art Audio Conductor Export </td <td>Moth 30 Active</td> <td>0</td> <td></td> <td>349</td>	Moth 30 Active	0		349
NAD 114       O       Ph       27         NAD 116       O       Ph       430         NAIm Prefix       355       355         Naim MAC92       O       Ph       393         Rega EOS       Ph       394         Rossa Artazerzes 10       Ph       397         Rossa Artazerzes 10       Ph       398         Rossa Artazerzes 10       Ph       436         Rotel RC67/05X Mkli       G       177         Tak Electronics Hurricane 1       O       500         Trilogy 905       Trilogy 904       Ph       373         Trilogy 904       Ph       500         Adyton Chorus       LSO1 to £20000       Ph       499         Alchemist Kraken Pre       O       511         Alchemist Kraken Pre       O       511         Alchemist Kraken Pre       O       511         Art Audio Conductor Phono       750       741         Art Audio Conductor Phono       750       2.000         Art Audio Conductor Port       2.000       999         Audio Note M1 Line       2.000       999         Audio Note M2 Line       999       990         Audio Note M2 Line       999<			1000	
NAD 116       O       Ph       43         Naim NA022       O       47         Rega EOS       Ph       39         Roksan Artaxerxes 10       Ph       30         Roksan Mataxerxes 10       Ph       30         Addyton Chorus       Alcentit Kraken Pre       91         Alchandi Kataken Pre       91       109         Art Audio Conductor Export       2000       700         Art Audio C				
Naim Prefix35.Naim AC92G471Rega E0SPh393Rots RV-23GPhRotel RCS708X MkllGPhTalk Electronics Hurricane 1G500Technics SU-C1000GPhTrilogy 905F377Trilogy 904Ph393Kots RX S708X MkllGPhTrilogy 904Ph377Trilogy 904Ph377Trilogy 904Ph377Trilogy 905GPhAlchemist Kraken PreG513Alchemist Kraken PreG514Alchemist Kraken PreG514Alchemist Kraken PreG515Art Audio Conductor Phono750Art Audio Conductor Export2,000Audio Note M1 Line550Audio Note M2 Line2,000Audio Note M2 Line999Audio Note M2 Line999Audio Synthesis Pro PassionGAudio Synthesis Passion SGAudio Synthesis Passion S1,997Audio Synthesis Passion SGAudio Synthesis Passion SGAudio Synthesis Passion S984Audio Synthesis Passion S980Audio Synthesis Passion S984Audio Synthesis Passion S984Bryston BP1OBryston BP2PhBryston BP3PhBryston BP4SBryston BP4PhCany CP-30PhChord CPA 4000 phono				
Naim NAC92(a)(b)(c)Rege EOSPh390Rostan Artaxerses 10Ph390Rostan Artaxerses 10Ph490Rostan Artaxerses 10Ph490Rostan Artaxerses 10Ph490Rostan Artaxerses 10Ph490Rostan Artaxerses 10Ph490Trilogy 905Ph490Trilogy 904Ph490Trilogy 904Ph490Adyton ChorusCSO1 to £2000PhAlchemist Kraken PrePh501Alchemist Kraken PrePh910Art Audio Conductor Prono750Art Audio Conductor Prono750Art Audio Conductor Prono750Art Audio Conductor Prono990Audio Note MI Line500Audio Note MI Line500Audio Note MI Line500Audio Synthesis PassionPhAudio Synthesis PassionPhAudio Synthesis PassionPhAudio Synthesis PassionPhAudio Synthesis PassionPhAudio Synthesis Passion900Audio Synthesis Passion900Au		U	FN	
Roksan Artaxerxes 10     Ph     39       Rose RV-23     Ph     45       Rose RV-23     Ph     45       Rose RV-23     Ph     45       Rotel RC3708X MkII     Ph     500       Talk Electronics Hurricane 1     O     500       Talk Electronics SU-C1000     Ph     393       Trilogy 905     Ph     397       Trilogy 904     Ph     397       Trilogy 904     Ph     397       Trilogy 904     Ph     397       Adyton Chorus     L501 to £2000     Alchemist Kraken Pre     O       Alchemist Kraken Pre     O     911       Art Audio Conductor Phono     700     704       Art Audio Conductor Phono     700     704       Art Audio Conductor Export     2,000     915       Audio Note MI Line     550     550       Audio Note MZ Line     999     999       Audio Note MZIAA     Ph     1,997       Audio Note MZIAA     Ph     999       Audio Synthesis Passion S     0     1,292       Audio Synthesis Passion S     0	Naim NAC92	Ø		100 C
Rose RV-23SPh45Rote RC3708X MkIIG17Talk Electronics Hurricane 1O500Trilogy 905Trilogy 905PhTrilogy 904Ph373Trilogy 904Ph374Trilogy 904Ph905Adyton ChorusESO1 to £2000PhAlchemist Kraken PreS199Alchemist Kraken PreS199Alchemist Kraken PreO91Art Audio Conductor Phono750Art Audio Conductor Phono750Art Audio Conductor Export2,000Audio Note M1 Line550Audio Note M1 Line550Audio Note M2 Line999Audio Note M2 Line999Audio Note M2 Line999Audio Synthesis PassionGAudio Synthesis PassionGBryston BP1OBryston BP3Ph	Rega EOS		Ph	398
Rotel RCS708X MkliG17.Talk Electronics Hurricane 1O500Trilogy 905Fh350Trilogy 904Ph373Trilogy 903OPh439Unison Simply PhonoPh500 <b>L2C01 to E2COOL2C00L2C00</b> Alchemist Kraken PreO910Alchemist Forseti PreO910Art Audio Conductor Phono750Art Audio Conductor Phono750Art Audio Conductor Phono750Art Audio Conductor Phono750Art Audio Conductor Phono750Audio Note MI Line550Audio Note MI Zine999Audio Note MI Zine999Audio Note MI Zine999Audio Synthesis PassionOAudio Synthesis Passion S1,295Audio Synthesis Passion S1,299Audio Synthesis Passion S1,295Audio Synthesis Passion S1,295Audio Synthesis Passion S1,295Cary	Roksan Artaxerxes 10			and the second
Talk Electronics Hurricane 1       O       Sou         Technics SU-C1000       O       Ph       350         Trilogy 905       377       377         Trilogy 904       Ph       490         Unison Simply Phono       Ph       500         ESO1 to E2000       Adyton Chorus       1.999         Alchemist Kraken Pre       O       911         Art Audio Headline       O       700         Art Audio Conductor Phono       700         Art Audio Conductor Phono       700         Art Audio Conductor Export       2,000         Audio Note MI Line       550         Audio Note MI Line       550         Audio Note MI Line       550         Audio Note MZ Line       999         Audio Note MZ Line       999         Audio Note MZ Line       997         Audio Note MZ Line       998         Audio Synthesis Passion ©       695         Audio Synthesis Passion ©       998         Audio Synthesis Passion S       1.997         Audio Synthesis Passion S       1.997         Audio Synthesis Passion S       1.998         Audio Synthesis Passion S       1.998         Audio Synthesis Passion S       1.997 </td <td></td> <td></td> <td>Ph</td> <td></td>			Ph	
Technics SU-C1000       G       Ph       356         Trilogy 905       371       371         Trilogy 904       Ph       377         Trilogy 900       O       Ph       439         Mayon Simply Phono       ESO1 to £2000       Ph       500         Adyton Chorus       1,993       Alchemist Kraken Pre       6       511         Alchemist Kraken Pre       G       911       700         Art Audio Conductor Phono       700       741       741         Art Audio Conductor Phono       700       741       741         Art Audio Conductor Export       2,000       993       Audio Note M1 Line       550         Audio Note M1 Line       550       993       993       993       993         Audio Note M2 Line       993       993       993       993       994       993         Audio Note M2 Line       993       993       993       993       993       993       993         Audio Note M2 Line       994       993       993       993       993       993       993       993       993       993       993       993       993       993       993       994       993       994       993 <td></td> <td></td> <td></td> <td></td>				
Trilogy 905       374         Trilogy 904       Ph         Trilogy 900       Ph         Whison Simply Phono       Ph         Libro Status       1,996         Adyton Chorus       1,996         Adyton Chorus       1,996         Achemist Kraken Pre       915         Art Audio Conductor Phono       740         Art Audio Conductor Phono       741         Art Audio Conductor Phono       750         Art Audio Conductor Conductor Conductor Conductor Art Audio Conductor Conductor Audio Note M1 Line       952         Audio Note M1 Line       950         Audio Note M2 Line       999         Audio Synthesis Passion Conductor Sport       999         Audio Synthesis Passion Ston Conductor Sport       999         Audio Synthesis Passion Ston Conductor Sport       990         Audio Synthesis Passion Ston Conductor Sport       9			Dh	
Trilogy 900     Image: Simply Phone     Image: Phone     Phone     990       Lebend: Excellence     Escellence     1,993       Adyton Chorus     1,993     1,993       Alchemist Kraken Pre     Image: Simply Phone     913       Alchemist Kraken Pre     Image: Simply Phone     913       Art Audio Headline     Image: Simply Phone     913       Art Audio Conductor Phone     700     741       Art Audio Conductor Phone     750     741       Art Audio Conductor Phone     Image: Simply Phone     750       Art Audio Conductor Phone     Image: Simply Phone     750       Art Audio Conductor Export     2,000     999       Audio Note M1 Line     550     2,000       Audio Note M2 Line     999     993       Audio Note M2 Line     999     993       Audio Synthesis Passion Image: Simply	Trilogy 905			
Unison Simply Phono     Ph     500       Lichemist Kraken Pre     501     500       Alchemist Kraken Pre     501     501       Alchemist Forseti Pre     915     915       Art Audio Conductor Phono     760       Art Audio Conductor Phono     750       Art Audio Conductor Phono     750       Art Audio Conductor Caport     0       Audio Note M1 Line     550       Audio Note M1 Line     995       Audio Note M2 Line     995       Audio Note M2 Line     995       Audio Note M2 Line     996       Audio Note M2 Line     997       Audio Note M2 Line     998       Audio Note M2 Line     998       Audio Synthesis Passion     6       Audio Synthesis Passion     998       Audio Synthesis Passion     998       Audio Synthesis Passion & 1.997     1.997       Audio Synthesis Passion & 1.998     1.997       Audio Synthesis Passion & 1.997     1.997       Audio Synthesis Passion & 1.995     1.997       Audio Synthesis Passion & 1.995     1.997       Audio Synthesis Passion B & 1.695     946	Trilogy 904		Ph	375
ESO1 to E2000         Adyton Chorus       1,995         Adyton Chorus       1,995         Alchemist Kraken Pre       919         Alchemist Kraken Pre       919         Art Audio Headline       0         Art Audio Conductor Phono       740         Art Audio Conductor Phono       750         Art Audio Conductor Export       2,000         Audio Note MI Line       555         Audio Note MI RIAA       Ph         Audio Note M2 Line       995         Audio Note M2 RIAA       Ph         Audio Synthesis Passion       6         Audio Synthesis Passion       6         Audio Synthesis Passion &       1,955         Audio Synthesis Passion &       1,997	Trilogy 900	0		499
Adyton Chorus     1,993       Alchemist Kraken Pre     6     5113       Alchemist Kraken Pre     6     5113       Alchemist Kraken Pre     6     911       Art Audio Headline     0     700       Art Audio Conductor Phono     750     741       Art Audio Conductor Export     2,000     2,000       Audio Note M1 Line     550     2,000       Audio Note M2 Line     993     993       Audio Note M2 Line     993     993       Audio Note M2 Line     993     993       Audio Synthesis Passion     6     699       Audio Synthesis Passion     6     699       Audio Synthesis Passion     6     699       Audio Synthesis Passion 8S     0     1,932       Audio Synthesis Passion 8S     0     1,935 <t< td=""><td>Unison Simply Phono</td><td></td><td>Ph</td><td>500</td></t<>	Unison Simply Phono		Ph	500
Alchemist Kraken Pre       Image: Strate Strat		00		1 995
Alchemist Forseti Pre     Ø     919       Art Audio Headline     Ø     700       Art Audio Headline     Ø     700       Art Audio Conductor Phono     750       Art Audio Conductor Phono     750       Art Audio Conductor Export     2,000       Audio Note MI Line     556       Audio Note MI RIAA     Ph     556       Audio Note MI RIAA     Ph     592       Audio Note MI RIAA     Ph     593       Audio Note MI RIAA     Ph     1,955       Audio Note MI RIAA     Ph     1,993       Audio Note MI RIAA     Ph     1,993       Audio Note MI RIAA     Ph     1,993       Audio Nesearch LS7     Ø     1,997       Audio Synthesis Passion     Ø     699       Audio Synthesis Passion S     O     1,295       Audio Synthesis Passion S     O     1,997       Audio Synthesis Passion S     O     1,996		6		100000
Art Audio VPL     741       Art Audio VPL     741       Art Audio Conductor Phono     750       Art Audio Conductor Export     953       Art Audio Conductor Export     0       Audio Note MI Line     556       Audio Note MI RIAA     Ph       Audio Synthesis Passion     59       Audio Synthesis Passion 6     1,997       Audio Synthesis Passion 8     0       Audiola 8000PA     Ph       Audiolab 8000PA     Ph       Audiolab 8000PA     9       Audiolab 8000PA     9       Syston BP1     0       Bryston BP3     9       Bryston BP4     9       Spryston BP20     9       Bryston BP20     9 <t< td=""><td>Alchemist Forseti Pre</td><td></td><td></td><td></td></t<>	Alchemist Forseti Pre			
Art Audio Conductor Phono       750         Art Audio Conductor Export       952         Art Audio Conductor Export       2,000         Audio Note MI Line       555         Audio Note MI RIAA       Ph         Audio Note Discovery       999         Audio Synthesis Passion ©       699         Audio Synthesis Passion ©       699         Audio Synthesis Passion S       0         Audio Synthesis Passion 8M       0         Bryston 8P1       0         Bry	Art Audio Headline	0		
Art Audio VP1     953       Art Audio Conductor     Eport       Art Audio Conductor Export     0       Audio Note M1 Line     550       Audio Note M1 RIAA     Ph       Audio Note M2 Line     993       Audio Research LS3     0       Audio Synthesis Passion     0       Audio Synthesis Passion     0       Audio Synthesis Passion     0       Audio Synthesis Passion     0       Audio Synthesis Passion 85     0       Audio Synthesis Passion 87     0       Audio Synthesis Passion 88     0       Bryston 895     Ph       Bryston 895     Ph       Syston 892     958				
Art Audio Conductor Export       0       1,250         Art Audio Conductor Export       0       1,250         Audio Note MI Line       555         Audio Note MI RIAA       Ph       550         Audio Note MZ Line       999         Audio Note MZRIAA       Ph         Audio Synthesis Pro Passion       0         Audio Synthesis Passion 6       0         Audio Synthesis Passion 8S       0         Audio Synthesis Passion 8S       0         Audio Synthesis Passion 8S       0         Audio BoooPA       Ph         Audiolab 8000PA       Ph         Audiolab 8000PA       Ph         Audiolab 8000PA       9         Audiolab 8000PA       9         Audiolab 8000PA       9         Bryston BP1       0       Ph         Bryston BP20       958         Bryston BP20       958         Bryston BP20       958         Bryston BP20       959         Bryston BP20 <td></td> <td></td> <td>80.</td> <td></td>			80.	
Art Audio Conductor Export     2,000       Audio Note MI Line     550       Audio Note MI RIAA     Ph     550       Audio Note MI RIAA     Ph     590       Audio Note MZ Line     993       Audio Note MZ Line     993       Audio Note MZ Line     993       Audio Note MZ RIAA     Ph     1,050       Audio Research LS7     ©     1,750       Audio Synthesis Pro Passion     ©     595       Audio Synthesis Passion &     ©     1,997       Audio Synthesis Passion BPA     ©     1,990       Syston BP1     ©     Ph       Bryston BP2     ©     1,495		•		
Audio Note M1 RIAA     Ph     550       Audio Note M2 Line     999       Audio Note M2 Line     999       Audio Note M2 Line     999       Audio Note M2RIAA     Ph     1,099       Audio Research LS3     ©     1,750       Audio Synthesis Pro Passion     ©     699       Audio Synthesis Passion S     ©     1,997       Audio Synthesis Passion S     ©     1,997       Audio Synthesis Passion S     ©     1,997       Audio Synthesis Passion SS     ©     1,997       Audiola B000PA     Ph     900       Audiolab 8000PA     ©     Ph       Supston BP4     ©     Ph       Bryston BP5     Ph     757       Bryston BP4     © <td< td=""><td>Art Audio Conductor Export</td><td>U</td><td></td><td></td></td<>	Art Audio Conductor Export	U		
Audio Note M2 Line       993         Audio Note Discovery       993         Audio Synthesis Passion       6         Audio Synthesis Passion ©       693         Audio Synthesis Passion &       6         Audio Synthesis Passion &       1,993         Audio Synthesis Passion &       6         Audio Synthesis Passion &       1,993         Audio Synthesis Passion &       9         Audio Synthesis Passion &       1,993         Audio Synthesis Passion &       9         Audio Synthesis Passion &       9         Audio Synthesis Passion &       9         Audio Synthesis Passion B7       9         Bryston B91       0       9         Bryston B92       9       9         Bryston B7.25	Audio Note M1 Line			550
Audio Note Discovery     999       Audio Note M2RIAA     Ph       Audio Research LS3     91,755       Audio Synthesis Pro Passion     0       Audio Synthesis Passion 85     0       Audiolab 8000Q     0       Audiolab 8000Q     0       Audiolab 8000Q     0       Aura CA-200     Ph       Aura CA-200     Ph       Avara CA-200     Ph       Avara CA-200     Ph       Bryston BP1     0       Bryston BP3     Ph       Bryston BP4     80       Bryston BP4     900       Cary PH-301     Ph       Chord CPA 4000 phono     1,730       Chord CPA 4000 phono     Ph       Conrad-Johnson FF-1     Ph			Ph	
Audio Note M2RIAA     Ph     1,099       Audio Research LS3     G     1,750       Audio Synthesis Pro Passion     G     997       Audio Synthesis Passion S     G     1,997       Audio Synthesis Passion SS     G     1,997       Audiolab 8000PA     Ph     900       Stratt SP-21     Ph     910       Bryston BP1     O     Ph       Bryston BP20     Ph     958 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
Audio Research LS7       ©       1,750         Audio Research LS3       ©       1,997         Audio Synthesis Prassion       ©       999         Audio Synthesis Passion       ©       999         Audio Synthesis Passion 8       ©       1,997         Audio Synthesis Passion 8S       ©       1,997         Audio Synthesis Passion 8S       ©       1,997         Audio Synthesis Passion 8S       ©       1,992         Audio Synthesis Passion 8S       ©       1,992         Audio Synthesis Passion 8M       ©       1,992         Audio Synthesis Passion 8M       ©       1,992         Audio Synthesis Passion 8M       ©       1,992         Audiolab 80000C       ©       Ph       550         Audiolab 8000PA       Ph       900       449         Audiolab 8000PA       ©       Ph       700         Aura CA-200       Ø       Ph       700       849         Beam-Echo SP-21       Ø       Ph       700         Bryston BP1       Ø       Ph       750         Bryston BP2       Ph       751       1,495         Cary PH-301       Ph       1,595         Chord CPA 1800       <	· · · · · · · · · · · · · · · · · · ·		-	
Audio Research LS3     Image: Second Se		6	Pn	
Audio Synthesis Passion     6       Audio Synthesis Passion 6     1,195       Audio Synthesis Passion 8S     0       Audio Synthesis Passion 8S     0       Audio Synthesis Passion 8S     0       Audio Synthesis Passion 8M     0       Audiolab 80000C     0       Audiolab 80000PA     Ph       Byston 50     0       Bryston 8P1     0       Bryston 8P1     0       Bryston 8P2     958       Bryston 8P2     958       Bryston 8P2     1,495       Cary PH-301     Ph       Chord CPA 4000 phono     Ph       Conrad-Johnson FF-1     0       Conrad-Johnson FF-1     0       Conrad-Johnson FF-2     0       Ph     1,990	Audio Research LS3			
Audio Synthesis Passion 6     0     1,193       Audio Synthesis Passion 8S     0     1,293       Audio Synthesis Passion 8M     0     1,693       Audiolab 8000PA     0     Ph       Audiolab 8000PA     0     1,100       Aura CA-200     0     1,100       Aura CA-200     0     1,100       Aura CA-200     0     840       Beam-Echo SP-21     0     Ph       Bryston BP1     0     Ph       Bryston BP5     Ph     7,57       Bryston BP4     0     802       Bryston BP4     0     1,495       Cary CP-301     1,495     1,495       Chord CPA 1800     0     1,790       Concordant Exclusite     1,950       Conrad-Johnson FF-1     Ph       Conrad-Johnson FF-2     0       Ph     1,990	Audio Synthesis Pro Passion	0		
Audio Synthesis Passion 8S     0     1,293       Audio Synthesis Passion 8M     6     1,693       Audio Synthesis Passion 8M     6     1,693       Audio Asynthesis Passion 8M     6     Ph       Audio Asynthesis Passion 8M     6     844       Bryston BP1     0     Ph     757       Bryston BP1     0     Ph     757       Bryston BP2     988     988     802       Bryston BP20     988     988     988       Cary SLP-74     6     1,495       Cary SLP-74     7     1,495       Chord CPA 1800     6     1,730       Chord CPA 1800     6     1,730       Chord CPA 1800     7     950       Conrad-Johnson FF-1     970       Conrad-Johnson FF-2     6       Ph     1,990				
Audio Synthesis Passion 8M         9         1,695           Audiolab 8000C         6         Ph         550           Audiolab 8000C         6         Ph         550           Audiolab 8000C         6         Ph         900           Audiolab 8000Q         6         1,100           Audiolab 8000Q         6         1,100           Audiolab 8000Q         6         844           Muls 2000MP         6         844           Barston A         6         546           Bryston BP1         0         Ph         673           Bryston BP2         958         Ph         757           Bryston BP20         958         958         958           Bryston BP20         958         1,495         1,495           Cary SLP-74         6         1,495         1,495           Chord CPA 1800         6         1,730         1,730           Chord CPA 1800         7,300         91,1,950         950           Co				
Audiolab 8000C         Image: Constraint of the sector				
Audiolab 8000PPA         Ph         900           Audiolab 8000Q         Image: Construct of the second seco			Dh	
Audiolab 80000         Image: Constraint of the sector		-		
AVI S2000MP       Image: Constraint of the sector of the sec	Audiolab 8000Q	0		1,100
Beam-Echo SP-21         O         Ph         1,116           Bryston A         O         Ph         546           Bryston BP1         O         Ph         673           Bryston BP5         Ph         757         872           Bryston BP4         O         958         872           Bryston BP20         958         958         958           Bryston BP-25         1,122         958         1,495           Cary SLP-74         O         1,495         1,495           Chord CPA 1800         O         1,730         Ph         1,595           Chord CPA 4000 phono         Ocnordant Explicitie         1,950         900         900           Conrad-Johnson EF-1         O         Ph         1,950         Ph         1,950           Conrad-Johnson FF-2         O         Ph         1,990         Ph         1,990	Aura CA-200		Ph	
Bryston .4         Ø         546           Bryston BP1         Ø         Ph         633           Bryston BP5         Ph         753           Bryston BP4         Ø         802           Bryston BP20         958         958           Bryston BP20         958         958           Bryston BP20         958         958           Bryston BP20         958         958           Cary SUP-74         Ø         1.495           Cary SUP-74         Ø         1.495           Cary CPH-301         Ph         1.595           Chord CPA 4000 phono         Ph         1.790           Concordant Exclusite         1.950           Conrad-Johnson FF-1         Ph         1.990           Conrad-Johnson FF-1         Ph         1.990           Conrad-Johnson FF-2         Ø         Ph         1.990				
Bryston BP1 O Ph 673 Bryston BP5 Ph 757 Bryston BP4 Ø 802 Bryston BP4 Ø 1495 Cary SLP-74 Ø 1.495 Cary PH-301 Ph 1.595 Chord CPA 1800 Ø 1.730 Chord CPA 1800 Ø 1.730 Chord CPA 1800 Ø 1.730 Chord CPA 1900 Ph 1.990 Conrad-Johnson FF-1 Ø Ph 1.990 Conrad-Johnson FF-2 Ø Ph 1.990			Ph	
Bryston BP5         Ph         757           Bryston BP4         (9)         802           Bryston BP20         988         988           Bryston BP20         988         982           Bryston BP20         988         988           Bryston BP-25         1,129         985           Cary SLP-74         (9)         1,495           Cary PH-301         Ph         1,595           Chord CPA 1800         (9)         1,730           Concordant Exhilerant         900         900           Conrad-Johnson FF-1         (9)         1,950           Conrad-Johnson FF-2         (9)         Ph         1,990			Ph	
Bryston BP20         958           Bryston BP-25         1,129           Bryston BP-25         1,295           Bryston 4B-ST PRO         1,495           Cary SLP-74         ©         1,495           Cary PH-301         Ph         1,595           Chord CPA 4000 phono         Ph         1,730           Concordant Exhilerant         900         000           Conrad-Johnson FF-1         Ph         1,950           Conrad-Johnson FF-1         Ph         1,990           Conrad-Johnson FF-2         ©         Ph         1,990	Bryston BP5			
Bryston BP-25         1,129           Bryston 48-ST PRO         1,495           Cary SLP-74         ©           Chord CPA 1800         ©           Chord CPA 4000 phono         Ph           Concordant Exhilerant         900           Conrad-Johnson PF-10A         ©           Conrad-Johnson FF-1         Ph           Ph         1,990           Conrad-Johnson FF-2         ©           Ph         1,990	Bryston BP4	0		
Bryston 4B-ST PRO         1,495           Cary SLP-74         ©         Ph         1,595           Chord CPA 1800         ©         1,730         900           Concordant Exclusite         1,950         900         900           Conrad-Johnson FF-1         ©         Ph         1,990           Conrad-Johnson FF-2         ©         Ph         1,990				
Cary SLP-74         Image: Cary SL				
Cary PH-301 Ph 1,595 Chord CPA 1800 Ph 1,730 Chord CPA 4000 phono Ph 1,730 Concordant Exhilerant 900 Concordant Exhilerant 1,950 Conrad-Johnson FF-1 Ph 1,990 Conrad-Johnson FF-2 Ph 1,990				
Chord CPA 1800 0 1,730 Chord CPA 4000 phono Concordant Exhilerant 900 Concordant Exhilerant 1,950 Conrad-Johnson EF-1 Ph 1,990 Conrad-Johnson FF-2 0 Ph 1,990	Cary PH-301	0	Ph	
Concordant Exhilerant 900 Concordant Exquisite 1,950 Conrad-Johnson FF-1 Ph 1,990 Conrad-Johnson FF-2 Ph 1,990	Chord CPA 1800	0		1,730
Concordant Exquisite         1,950           Conrad-Johnson PV-10A         Image: Conrad-Johnson EF-1         Image: Conrad-Johnson PF-2           Conrad-Johnson PF-2         Image: Conrad-Johnson PF-2         Image: Conrad-Johnson PF-2	Chord CPA 4000 phono		Ph	
Conrad-Johnson PY-10A Conrad-Johnson EF-1 Conrad-Johnson PF-2				
Conrad-Johnson EF-1 Ph 1,990 Conrad-Johnson PF-2 O Ph 1,990		-	-	
Conrad-Johnson PF-2		Ð		
	Conrad-Johnson PF-2	0		
	Copland CSA303			

opland CTA301 Mkll R Dev Carmenta	0	Ph	1,399 659	Tube Tech Seer Line Tube Tech Mac	ø	DI	935 1.150	LFD Mistral Power LFD PAO Powerstage	60W	449 499	Musical Fidelity FX2 NAD 218THX	100W	<mark>800</mark> 850
R Dev Argento	6	Ph		Tube Tech Prophet	0	Ph	1,150 1,970	Magnum MF120	50W 85W	499	NAD 208THX NAD 208THX	200W 250W	850
redo CMP004			1,246	Unison Mystery One	õ		1,750	Marantz MA-500	125W	250	Naim NAP140	45W	750
redo CMP005 awn Audio Prelude +50	100		1,876 951	Unison Phono One Wilson Benesch Stage One		Ph		Moth 30 Series Power Moth 30 Mono/40	30W	249 469	Naim NAP180 Naim NAP135	60W	1,060
ensen DM-20	0	185	1.200	Woodside SC27 Line	0	Ph	995 949	Musical Fidelity E30	40W 100W	500	Naim NAP250	75W 70W	1,655
NM 3 Start			950	Woodside SC26 Line			1,557	Myryad MA 120	60W	450	Onix OA601	70W	699
NM 3A Start PA Enlightenment pre			1,500	XTC PRE-1	G		1,250	NAD 912	30W	200	Onix OA801	190W	849
PA DSP500S			695 2,000	Yamaha CX-2 Over £20	6	Ph	650	NAD 214 NAD 216THX	80 W 125W	370 470	Onix 0A701 Papworth TVA50	80W 50W	899 1.425
navector L200	Ø		1,195	Adyton Temper			2,495	Naim NAP90/3	30W	450	Prime Design P-150	150W	650
navector P100		Ph		Adyton Modus	G		2,695	Rotel RB970BX MkII	60W	225	Quad 77 Power	85W	600
ynavector L100 armax Earmax Pre	0		1,995 1,895	Alchemist The Alchemist pre ATC SCA2			4,995 2,499	Rotel RB980BX Talk Electronics Tornado 1	120W	450	Quad 707	140W	800
CA Vista S	6		760	Audio Note M3Line			2,455	Technics SE-A1000	70W	450 400	Rega EXS Rega Exon	70W 125W	598 1,196
CA Vista HD			880	Audio Research LS15	ø		3,399	£501 to £2		400	Roksan ROK-S1.5	70W	1,495
CA Prisma			880	Audio Research LS22	Ø		4,391	Alchemist Kraken pwr	55W	529	Rose RP-190 (Dual Mode)	75W	550
ectrocompaniet EC-4.5 ectrocompaniet EC-4R	0		1,200	Audio Research LS5 MkIII Audio Research REF 1	0	£.	6,435 9,900	Alchemist Forseti Pwr AMC CVT 2100A	150W	1,309 600	Rotel RB990BX Shearne Phase 3	200W	625 619
posure XIX	0		800	Boulder L3AE	0	Ph		Art Audio Quintet	80W 15W	1.393	Shearne Phase 3 Reference	50W 50W	729
posure XVII	Ø	Ph	850	Boulder L5AE	õ		3,400	Art Audio Quintet SE MB	-W	1,500	Shearne Phase 5 Mono	100W	1,500
se Evoluzione Controlsource 2.0	0	Ph		Boulder L5M	0		3,800	Art Audio Concerto	50W	1,669	Sonic Frontiers Anthem Amp 1	40W	1,195
se Evoluzione Controlsource 1.0 Iden Tube Audio SEP-1	0		1,395 890	Cary SLP-94L Chord CPA 2200	0		2,095	AudioInnov Series 800 AudioInnov First Audio	25W 7.5W	999 1,749	Sonographe SA250 Sonographe SA400	125W	995 1,395
aaf WFB Two	ø	Ph	1,195	Chord CPA 2800	0	Ph	3,090	AudioInnov Series 1000	7.5W	1,799	Sumo Ulysses III	220W 60W	629
aaf WFB One	ø	Ph	1,895	Chord CPA 3200	G		3,352	Audio Note The P	40W	550	Sumo Polaris III	120W	950
nley HMC200			750	Chord CPA 4000	G		6,025	Audio Note P0	9W	599	Sumo Model Five	60W	1,975
ybrook Signature II dis DPL2	ø		1,600	Conrad-Johnson PF-R Conrad-Johnson PV-12A	0	-	2,490 2,590	Audio Note P1 Audio Note P1SE	12W	750 999	Sumo Andromeda III Talk Electronics Tornado 2	240W	1,975
D MC1 Phonostage	9	Ph	949	Conrad-Johnson Premier 15	Ø	Ph Ph		Audio Note P2	12W 20W	1,000	Talk Electronics Tornado 2	65W 100W	600 750
D LS1 Linestage	ø		999	Conrad-Johnson Premier 14	ø		3,995	Audio Note P2SE	18W	1,499	Talk Electronics Tornado 4	110W	1,100
D MC2 Phonostage		Ph		CAT SL1 Sig	Ø	Ph	6,500	Audio Note Conqueror	8W	1,599	Technics SE-A2000	100W	1,100
D LS2 Linestage D LSB Linestage	0		1,599	CR Dev Kastor Credo LPR 001	G		2,995 2,815	Audio Synthesis Desire Audiolab 8000P	1000	1,695 750	Thorens TTA-2000 Thule PA200	30W	599 1,798
nn Wakonda	0		750	DNM 3B Twin E			3,050	Audiolab 8000P	100W 125W	750 800	Trilogy 948	200W 50W	1,798
in Kairn	ø		1,400	DNM 3B Primus E			3,630	Aura PA-100	125W	700	Tube Tech Unisis Sig. Pwr	30W	1,900
mley PS1			795	DNM 3B Six E			4,780	Aura PA-200	110W	1,200	Woodside SA240	40W	1,199
mley WAP1.5 mley LV1.5			895 895	EAR 802MC EAR G88	0	Ph	<b>2,599</b> 9,999	Aura PA-200 C AVI S2000MM	15011	1,250 1,249	Woodside MA100 Woodside STA50	100W	1,733 1,880
mley LV1			1,000	Gamma Era Phono	Ø		2,499	Bryston 2B-LP	150W 75W	639	XTC POW-1	50W 200W	2,000
mley WAP1			1,150	Gamma Era Ref	ø		2,499	Bryston 3B-ST PRO	150W	987	Yamaha MX-2	150W	750
mley PV1.5	Θ		1,500	Graaf GM13.5B	O		3,950	Bryston THX3B	150W	1,074	Over £20	1007000 C	
mley PV1 Irantz AC-500		Ph	1,700 700	Jadis DP60L Jadis DPL	0		2,800 3,190	Bryston 3B-ST Bryston 7B-ST PRO	150W 500W	1,159 1,545	Adyton Cordis 1.6 Alchemist The Alchemist pwr	120W	3,495 3,995
rantz EC-500	0	Fn	900	Jadis DPMC	6	Ph	3,190	Bryston THX7B	500W	1,605	Alchemist The Alchemist mono	220W 55W	8,995
rantz SC-23	õ		1,000	Jadis JPL	ø		4,720	Bryston 4B-ST	300W	1,756	Art Audio Tempo	30W	2,499
tisse Atom	O		1,000	Jadis JPP200			4,998	Bryston 7B-ST	500W	1,815	Art Audio Quintet SE	-W	2,500
racus Ingredi Iridian 501	0	-	925 695	Jadis JP30MC Jadis JPS2	0	Ph	5,978	Bryston THX4B Cary SLA-70 II	300W	1,858 1,495	Art Audio Maestro ATC SPA2-150	100W	3,524
ridian 562	•	Ph	765	Krell KRC3	0		7,900 3,250	Chord SPM 400	30W 100W	1,495	AudioInnov Ser 1000SE	200W 50W	2,500 2,499
ridian 562V			<b>9</b> 95	Krell KRC-HR	ø		6,949	Chord SPM 600	130W	1,720	AudioInnov Second Audio	15W	3,299
ridian 502	0		1,295	LFD Disc Preamp		Ph	4,499	Conrad-Johnson MF-2100	100W	1,690	Audio Note P3	9W	2,150
chell Argo chell Iso HR	6		730 895	Lumley M100			2,250	Conrad-Johnson MV-55	50W	1,995 1,750	Audio Note Quest Audio Note Yubi	9W	2,750
chell Argo HR			1,339	Lumley LS2 Lumley PS2			3,250 3,550	Copland CTA501 CR Dev Amphion	30W 12W	1,949	Audio Note Conquest	18W 18W	3,850 4,450
chi RHC-10			795	Lumley M140			4,250	Credo PMP 804	12.0	1,876	Audio Note Tomei	30W	8,500
chi RHQ-10		Ph	1,150	Lumley ST150			4,350	Creek A52SE	80W	599	Audio Research D130	130W	2,299
chi RHA-10 cromega Tempo P	-		1,150 1,250	Marantz Model 7	G	Ph	3,500 2,950	Crimson CS630C	90W	800 890	Audio Research VT60 Audio Research D300	60W	2,395
nrio ADN	0	Ph	625	Mark Levinson 25S Mark Levinson 38	ø	Ph	3,995	Dawn Audio CMD 2 by 200 Densen DM-30	200W	1,200	Audio Research U300 Audio Research VT100	300W	4,678 4,995
nrio PLUR1-L	Ø		960	Matisse Fantasy	Ø		2,500	DNM PA1	45W	1,750	Audio Research D400 Mkll	400W	6.850
se Model 3	0		1,990	Matisse Reference	ø	Ph	3,500	DPA Enlightenment pwr	4011	995	Audio Research VT130 SE	130W	8,500
sical Fidelity F25 D 118	Θ		1,500	Meracus Pretare	0	Ph	2,195	Earmax Earmax Power	25W	1,895	Beam-Echo DL7-35	30W	3,525
m NAC92R	0		1,000	Naim NAC82 Naim NAC52	0		2,160 3,350	ECA Lectern S ECA Lectern HD	50W	880 1,480	Boulder 102AE Boulder 500AE	100W	2,800 5,000
m NAC72	Ø		725	Roksan ROK-L1.5	0		2,250	Electrocompaniet AW60FTT	50W 60W	1,480	Bryston THX8B	150W 150W	2,030
m NAC102	Θ		1,050	Sonic Frontiers Line 2	Θ		2,995	Exposure XVIII Super	70W	850	Cary CAD-300SE	12W	3,795
K OA36L K OA36	0	Ph	999	Tesserac TAP-A	0		5,300	Fase Evoluzione Powersource 2.0	65W	860	Cary CAD-805	50W	8,495
x 0A36 ad 77 Pre	0 ()	Ph	1,100 850	Trilogy 918 Woodside SC26 Line & Phono	6	Ph	2,775 2,233	Fase Evoluzione Powersource 1.0 Golden Tube Audio SE-40	100W 40W	1,670 1,000	Chord SPM 800 Chord SPM 1000B	160W	2,265 2,785
a Hal	6	Ph	998		0		1200	Golden Tube Audio SE-300B Mkll	40W 8W	1,000	Chord SPM 1200C	200W	3,840
san ROK-L2.5	Ø		1,250					Golden Tube Audio SE-100	100W	1,995	Chord SPM 1600	200W	4,700
e RV-23S Arte Phase 6 Pre	0	Ph	525		1	1111		Jadis DA5	40W	1,997	Chord SPM 1800		4,700
arne Phase 6 Pre arne Phase 1 Pre Ref	0		899 1,399		1			Lexicon 212 LFD PA1 Powerstage	120W	1,850 999	Chord SPM 3000B Conrad-Johnson MF-2200	280W	7,960 2,290
ic Frontiers SFP-1	9	Ph	1,095		1	1		LFD PA2 Powerstage	60W 75W	1,599	Conrad-Johnson MF-2200	200W 250W	2,290
ic Frontiers SFP-1 Sig		Ph	1,495		11	_		LFD PA2M Powerstage	90W	1,999	Conrad-Johnson Premier 11A	70W	3,500
c Frontiers Anthem Pre 1	0		1,495					Linn LK100	50W	650	Conrad-Johnson Premier 12	140W	6,900
ic Frontiers Line 1 ographe SC26	0		1,995 995	-		-		Linn LK240 Linn AV5105	120W 100W	750 1,200	Copland CTA505 CR Dev Artemis	67W	2,099 4,995
o Athena II Line	6		<b>767</b>				Sec.	Lumley ST40	100W 40W	1,200	Credo LPO 804	35W	4,995
o Athena IIB/II LS			987					Lumley ST70	70W	1,950	Credo PMP 155		2,676
o Athena III	0		987		1			Lynwood Ruby	120W	985	Credo LPO 455		4,975
o Artemis uP Electronics Hurricane 1P	0	Ph	1,595 550				12.2	Magnum MF330 Magnum MF660	150W	685 825	Credo LPO 155 DNM PA2BE	00111	6,983 4,250
Electronics Hurricane 2L	6		650	A BARRET STATE				Magnum A500SE	125W 200W	1,485	DNM PA2BS	90W 90W	4,250
Electronics Hurricane 2P	0	Ph	730	POWER AM	PS			Magnum A50SE	200W	1,595	DNM PA2BS-1	90W	5,650
Electronics Hurricane 3	0		900	KEY				Marantz MA-23	50W	1,800	DPA DAP500S		3,000
Electronics Hurricane 3P nics SU-C2000		Ph Ph	1,000 700	'20W' - output power p	er ch	anne		Meracus Ciere Meridian 555	60W	1,095 750	Dynavector HX75 Dynavector HX1.2	75W	2,195
erac TAADA	0		1,500	into nominal load of 8				Meridian 557	60W 200W	1,400	EAR 861	130W 32W	3,995 3,299
erac TALA	0		1,500	Up to £500				Michell Alecto Stereo	200W	1,150	EAR 509 Mk II	32W 100W	3,299
erac TAHA	Ø		1,800	AMC CVT 2030A	30W		400	Michell Alecto Mono	100W	1,989	EAR 519	100W	4,699
rens TTP-2000F e PR200	0	Ph	699 699	Arcam Alpha 8P	50W		250	Michi RHB-05	100W	1,100	EAR 549	200W	6,499
gy 901	0		699 750	Arcam Alpha 9P	70W		400	Michi RHB-10 Micromega Amp	200W 100W	2,000 1,250	Electrocompaniet AW100DMB Electrocompaniet AW250DMB	100W	2,095 3,995
gy 906		Ph	995	Arcam Delta 290P Creek A43	75W 50W		400 399	Monrio Cento	100W 135W	1,250	Electrocompaniet AW180MB	250W 180W	3,995
gy 902	0	1	1,595	Creek A52	50W 70W		499	Monrio HP1	135W	1,995	Exposure IV	80W	2,199
Retro Nucleus Phono	0		1,000	Crimson CS620C	40W		450	Moth 60 Stereo	60W	599 870	Exposure XVI	125W	4,000
Nucleus Phono Nucleus	Ø		2,000	Denon PMA-250SE	30W		160	Moth 30 Mono/100 Muse Model 100	100W	879 1,490	Gamma Rhythm Ref Gamma Aeon	35W	3,999 4,999
	9	4	,	Earmax Earmax Headphone	0.1W		375		100W	1,430	wanning Avvil	20W	4,333

-

350

400 700

2,600 380

90W 100W 120W 200W

	And and a second se
Gamma Space Ref	18W
Graaf 5050	50W
Graaf GM100	100W
Graaf GM200	200W
Jadis DA8	80W
Jadis DA7	100W
Jadis JA30	30W
Jadis JA300B	10W
Jadis JA80	60W
Krell KAV500/2	100W
Krell FPB200	200W
Krell FPB300	300W
Lexicon 225	250W
Lexicon 501	500W
Linn Klout	80W
Lumley M120	120W
Magnum A200SE	275W
Marantz Model 8	35W
Marantz Model 9	70W
Mark Levinson 331	100W
Mark Levinson 332	200W
Mark Levinson 333	300W
Matisse Ref Monoblocks	180W
Meracus Tentare	75W
Meracus Cantare	-W
Muse Model 160 Ser. II	160W
Muse Model 150	125W
Muse Model 175 Ser. II	175W
Muse Model 300 Ser. II	300W
Musical Fidelity F16	200W
Musical Fidelity F18	220W
Papworth M100	100W
Papworth M200	200W
Roksan ROK-M1.5 Shearne Phase 1 Pwr Ref	160W
Sonic Frontiers Power 1	100W
	55W
Sonic Frontiers Power 2	110W
Sonic Frontiers Power 3	220W
Sumo Model Ten/M	240W
Sunfire Sunfire	300W
Tesserac TAMP-60	60W
Trilogy 958	100W
Tube Tech Genesis Sig.	100W
Unison Smart 845	24W
	4



TEAC AV-H500 Yamaha DSP-A492 Yamaha DSP-A592 Yamaha DSP-A970 Yamaha DSP-A1092 Yamaha DSP-A990 Yamaha DSP-A990 Yamaha DSP-A3090	65 70 60 10 60 80	DW 5W DW DW OW DW DW	380 250 330 799 850 900 1,100 1,500	Onkyo TJ Onkyo TJ Onkyo TJ Onkyo TJ Onkyo TJ Onkyo TJ Onkyo TJ Onkyo TJ Onkyo TJ Philips F
				Philips F Pioneer Sansui R Sherwoo Sony STI TEAC AG Technics Technics Technics Yamaha Yamaha
SURROUND SOUND I KEY G - number of inputs. AC-3 - includes AC-3 compatibility with Dol home cinema format.	3 de	coding	for	
AMC Pro7	0		200	
Arcam Xeta 2 Audio Research SDPI	0		650 3,293	
H/K Citation 7.0 Lexicon DC-1 Pro-Logic	0		3,500 2,000	
Lexicon DC-1 THX			3,000	
Lexicon DC-1 AC-3 Marantz AV-1030		AC-3	4,000 330	A
Marantz AV-1040	0		400	<b>KE</b>
Marantz DP-870 Meridian 565 AC-3	0	AC-3 AC-3	600 2,700	0 -
NAD 117			470	Pric
Naim AV1 Onkyo SR 211PRO	0		1,680 340	for
Onkyo ED 901	õ	AC-3	700	
Parasound 1000 Pioneer SP-D07	0	AC-3	995 800	Art Yam
Sanyo HT D47			200	Audio No Audio No
Sony SDP E300 Sony SDP-EP9ES	0	AC-3	230 600	Audio No
Technics SH-AV500	0		280	Audio No Audio No
Yamaha DSP-E492 Yamaha DSP-E580	0		250 450	Audioqu
Yamaha DSP-E1000	0		700	Audioqu Audioqu
				Audioque
,111		. w		Audioque
	1	1		Audioque Audioque
~//		1-		Audioque
		_		Cable Ta Cable Ta
				Cable Ta
	/	1	Sec.	Cable Ta Cable Ta
	1			Cable Ta
		Call March		Cable Ta Cable Ta
				Cambrid
SURROUND SOUND	RE	CEIVE	RS	Cambrid Cambrid
KEY		-	and a lot	Cambrid
'20W' - output power			h	ChordCo ChordCo
channel into nominal l	Uali	0180	mms.	ChordCo
Denon AVR-600RD	50	W	300	ChordCo ChordCo
Denon AVR-900 Goodmans Delta 801		W	350	Cardas A
Goodmans Delta 801 Grundig R14DPL		W W	200 280	Cardas A Cardas A
Grundig R1000DPL	40	W	400	Cardas A
H/K AVR10 H/K AVR25		OW GW	300 600	Cardas A Cardas A
H/K AVR70	75	5W	1,000	DNM TC
H/K AVR80 JVC RX320VBK		5W DW	1,500 250	DPA Slin
JVC RX-416VBK		w w	270	DPA Whi DPA Blai

270 350

280 330

380

1,300 300

700 1,300

50W 60W 40W 70W 100W 110W

50W 80W

110W

Marantz SR-770 Marantz SR-96

250

Sony TA-VE700 Sony TA VE 800G Sony TA VA 8ES

Sunfire Cinema Grand TEAC AV-H500

7,999

2,150 4,490

8 000 3,333

5.290

9,000

9.912 3,485

6,490 9,500

2,500

5 000

2,400

3,200 2.995

3,500 4.000 4,495

6.495 8,495 8,000 2.245 8,995

2,290 2,690

3,490 3,990 2,500 4 000 2,645 3,825 2,250 2,199 2,495 4,995 9,995 4.200 2,500 7,350 3.395 4,700 3,250

NAD 713 NAD 917 NAD 716 Onkyo TXSV 434 Onkyo TXSV 424 Onkyo TXSV 525R Onkyo TXSV 535R Onkyo TXSV 535R Onkyo TXSV 535R Onkyo TXSV 828 Onkyo TXSV 828 Onkyo TXSV 919THX Onkyo TXSV 919THX Onkyo TXSV 939THX Philips FR731 Philips FR731 Philips FR751 Pioneer VSX-405RDS Pioneer VSX-405RDS Pioneer VSX-505RDS Sansui RZ-5110AV Sherwood RV-4050R	60W 80W 55W 60W 80W 80W 80W 80W 100W 100W 100W 100W 1		400 550 600 400 600 800 1,300 1,300 2,000 3,000 250 300 250 300 140
Sony STRD E405 TEAC AG-V6200 Technics SA-EX300 Technics SA-EX500 Technics SA-EX500 Technics SA-EX500 Yamaha RX-V392RDS Yamaha RX-V592RDS	50W 90W 40W 60W 60W 120W 50W 70W		280 400 250 350 450 1,000 250 400
CABLES ANALOGUE INTERC	1.1	IECT	s
<ul> <li> <ul> <li>stranded construct</li> <li>solid-core construct</li> </ul> </li> <li>Prices for interconnect</li> </ul>	ction.		
for a one-metre termin			
for a one-metre termin Art Yam Church 5000	ated		515.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-S	ated		
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-S Audio Note AN-Y Audio Note AN-Y	ated Ø Ø Ø Ø		515.00 18.00 35.00 99.00 179.00 450.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-V Audio Note AN-V Audio Note AN-Vx Audio Note AN-Vx Audio Quest Jade Audioquest Jarquoise 2			515.00 18.00 35.00 99.00 179.00 450.00 30.00 40.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-V Audio Note AN-V Audio Note AN-V Audio Note AN-V Audioquest Jade Audioquest Turquoise 2 Audioquest Ruby 2			515.00 18.00 35.00 99.00 179.00 450.00 30.00 40.00 60.00 80.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-C Audio Note AN-Y Audio Note AN-Y Audioquest Jade Audioquest Turquoise 2 Audioquest Turquoise 2 Audioquest Turquoise 2 Audioquest Opa1			515.00 18.00 35.00 99.00 179.00 450.00 30.00 40.00 60.00 80.00 120.00 189.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-V Audio Note AN-V Audio Note AN-V Audio Note AN-V Audioquest Jade Audioquest Turquoise 2 Audioquest Ruby 2 Audioquest Ruby 2 Audioquest Quartz Audioquest Quartz Audioquest Emerald Audioquest Lapis			515.00 18.00 35.00 99.00 179.00 450.00 30.00 40.00 60.00 80.00 120.00 189.00 249.00 399.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-V Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Ruby 2 Audioquest Popal Audioquest Dala Audioquest Dala Audioquest Damond Cable Talk Improved 2/CD			515.00 18.00 35.00 99.00 179.00 450.00 30.00 40.00 60.00 80.00 120.00 189.00 249.00 399.00 549.00 26.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-S Audio Note AN-V Audio Note AN-V Audio Note AN-V Audioquest Jade Audioquest Iaque Audioquest Ruby 2 Audioquest Ruby 2 Audioquest Quartz Audioquest Quartz Audioquest Dal Audioquest Emerald Audioquest Diamond Cable Talk Improved 2/CD Cable Talk Improved 2/T			515.00 18.00 35.00 99.00 179.00 450.00 30.00 40.00 60.00 80.00 120.00 189.00 249.00 399.00 549.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-C Audio Note AN-V Audio Note AN-V Audio Note AN-V Audioquest Jade Audioquest Jade Audioquest Ruby 2 Audioquest Ruby 2 Audioquest Ruby 2 Audioquest Charald Audioquest Emerald Audioquest Emerald Audioquest Emerald Audioquest Emerald Audioquest Emerald Audioquest Emerald Audioquest Emerald Audioquest Diamond Cable Talk Advanced 2			515.00 18.00 35.00 99.00 179.00 450.00 30.00 60.00 80.00 120.00 189.00 249.00 399.00 549.00 26.00 35.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-C Audio Note AN-V Audio Note AN-V Audio Note AN-V Audio Note AN-V Audioquest Jade Audioquest Jace Audioquest Ruby 2 Audioquest Ruby 2 Audioquest Opal Audioquest Emerald Audioquest Diamond Cable Talk Improved 2/CD Cable Talk Studio 2 Cable Talk Professional 2			515.00 18.00 35.00 99.00 179.00 450.00 60.00 80.00 120.00 189.00 249.00 249.00 249.00 2549.00 26.00 350.00 50.00 85.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-V Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audioquest Topaz 2 Audioquest Topaz 2 Cable Talk Improved 2/CD Cable Talk Reference 2 Cable Talk Reference 2 Cable Talk Signature Gold Cambridge Artantic	a tet © © © © © © © © © © © © © © © © © © ©		515.00 18.00 99.00 450.00 30.00 40.00 40.00 40.00 120.00 120.00 120.00 120.00 120.00 50.00 50.00 65.00 130.00 130.00 189.00 130.00 189.00 130.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-C Audio Note AN-V Audio Note AN-V Audio Note AN-V Audioquest Jade Audioquest Jade Audioquest Ruby 2 Audioquest Ruby 2 Audioquest Quartz Audioquest Quartz Audioquest Diamond Cable Talk Improved 2/CD Cable Talk Improved 2/CD Cable Talk Advanced 2 Cable Talk Improved 2/CD Cable Talk Reforence 2 Cable Talk Reforence 2 Cable Talk Reforence 2 Cable Talk Reforence 2 Cable Talk Rignature Gold Cambridge Atlantic Cambridge Atlantic Cambridge Studio Reference	a ted		515.00 18.00 35.00 99.00 179.00 450.00 60.00 80.00 122.00 122.00 122.00 122.00 122.00 26.00 35.00 5.49.00 35.00 5.60 130.00 130.00 10.00 10.00 40.00 40.00 40.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-S Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audioquest Topaz 2 Audioquest Topaz 2 Cable Talk Improved 2/CD Cable Talk Reference 2 Cable Talk Studio Reference 2 Cable Talk Studio Reference 2 Cable Talk Studio Reference 2 ChordCo Chrysalis ChordCo Cobra	a ted		$\begin{array}{c} 515.00\\ 18.00\\ 99.00\\ 99.00\\ 99.00\\ 30.00\\ 30.00\\ 80.00\\ 120.00\\ 80.00\\ 249.00\\ 39.00\\ 249.00\\ 35.00\\ 549.00\\ 35.00\\ 35.00\\ 35.00\\ 35.00\\ 35.00\\ 35.00\\ 35.00\\ 35.00\\ 35.00\\ 30.00\\ 30.00\\ 30.00\\ 40.00\\ 49.00\\ \end{array}$
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-V Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audioquest Topaz 2 Audioquest Topaz 2 Cable Talk Autored 2 Cable Talk Improved 2/CD Cable Talk Artored 2 Cable Talk Artored 2 Cable Talk Artored 2 Cable Talk Reference 2 Cable Talk Broadcast 2 Cable Talk Reference 2 Cable Talk Reference 2 Cable Talk Reference Cambridge Attantic Cambridge Studio Reference ChordCo Chysalis ChordCo Cobra	a ted © © © © © © © © © © © © © © © © © © ©	pair	515.00 18.00 99.00 179.00 30.00 40.00 80.00 80.00 249.00 249.00 249.00 249.00 2549.00 2549.00 2549.00 65.00 65.00 180.00 130.00 130.00 65.00 20.00 65.00 6
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-C Audio Note AN-V Audio Note AN-V Audio Note AN-V Audio Note AN-V Audio Note AN-V Audioquest Jade Audioquest Jurquoise 2 Audioquest Ruby 2 Audioquest Opal Audioquest Opal Audioquest Emerald Audioquest Emerald Cable Talk Maroved 2/CD Cable Talk Maroved 2/CD Cable Talk Studio 2 Cable Talk Reference 2 Cable Talk Reference 2 Cable Talk Reference 2 Cable Talk Signature Gold Cambridge Pacific Cambridge Pacific Cambridge Studio Reference ChordCo Cobra ChordCo Cobra	a ted		515.00 18.00 35.00 99.00 179.00 40.00 60.00 189.00 120.00 399.00 399.00 399.00 399.00 3549.00 3549.00 3549.00 3549.00 3549.00 355.00 130.00 85.00 130.00 10.00 20.00 40.
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-S Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audio Quest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Daard Audioquest Daard Audioquest Daard Audioquest Daard Audioquest Daard Audioquest Emerald Audioquest Emerald Audioquest Daimond Cable Talk Improved 2/CD Cable Talk Improved 2/CD Cable Talk Improved 2/CD Cable Talk Studio 2 Cable Talk Reference 2 Cable Talk Studio 2 Cable Talk Studio 2 Cable Talk Signature Gold Cambridge Arctic Cambridge Arctic Cambridge Chrysalis ChordCo Chrysalis ChordCo Chameleon ChordCo Chameleon ChordCo Chameleon ChordCo Chameleon ChordCo Chameleon ChordCo Chameleon ChordCo Stien	a ted	pair	515.00 18.00 35.00 99.00 179.00 30.00 80.00 120.00 80.00 249.00 39.00 249.00 39.00 540.00 540.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-V Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audioquest Topaz 2 Audioquest Topaz 2 Cable Talk Autored 2 Cable Talk Improved 2/CD Cable Talk Autored 2 Cable Talk Artored 2 Cable Talk Artored 2 Cable Talk Reference 2 Cable Talk Broadcast 2 Cable Talk Broadcast 2 Cable Talk Reference 2 Cable Talk Reference 2 Cable Talk Signature Gold Cambridge Attantic Cambridge Attantic Cambridge Studio Reference ChordCo Cobra ChordCo Cobra ChordCo Cobra ChordCo Solid Cardas Audio Guadink-Five Cardas Audio Guadink-Five Cardas Audio Guadink-Five Cardas Audio Guadink-Five Cardas Audio Haxink Kolden-3 C		pair	515.00 18.00 35.00 99.00 179.00 30.00 40.00 80.00 80.00 249.00 249.00 249.00 249.00 25.49.00 25.49.00 65.00 65.00 65.00 180.00 20.00 65.00 180.00 20.00 65.00 180.00 20.00 5
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-S Audio Note AN-S Audio Note AN-Y Audio Note AN-Y Audio Quest Jade Audioquest Irquoise 2 Audioquest Ruby 2 Audioquest Qual Audioquest Qual Audioquest Diamond Cable Talk Improved 2/CD Cable Talk Advanced 2 Cable Talk Advanced 2 Cable Talk Advanced 2/CD Cable Talk Advanced 2/CD Cable Talk Reference 2/C Cable Talk Reference 2/Cable Talk Reference 2 Cable Talk Reference 2 Cable Talk Reference 2 Cable Talk Reference Cambridge Pacific Cambridge Pacific Cardas Audio 300B-Microtwin Cardas Audio 300B-Microtwin Cardas Audio Golden Cross Cardas Audio Golden Cross DNM TCC75	Ated           000000000000000000000000000000000000	pair	515.00 18.00 35.00 99.00 179.00 30.00 8450.00 120.00 8450.00 120.00 85.00 120.00 549.00 399.00 399.00 549.00 35.00 85.00 85.00 130.00 20.00 30.00 40.00 30.00 40.00 30.00 40.00 50
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-S Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Dala Audioquest Dala Audioquest Dala Audioquest Damond Cable Talk Improved 2/CD Cable Talk Improved 2/CD Cable Talk Improved 2/CD Cable Talk Improved 2/CD Cable Talk Studio 2 Cable Talk Reference 2 Cable Talk Reforence 2 Cable Talk Reference 2 Cable Talk Studio 2 Cable Talk Signature Gold Cambridge Arctic Cambridge Arctic Cambridge Chrysalis ChordCo Chrysalis ChordCo Chysalis ChordCo Chapseleon ChordCo Chameleon ChordCo Chameleon ChordCo Chameleon ChordCo Solid Cardas Audio Cardas Cross Cardas Audio Cardas Cross Cardas Audio Golden Cross DNM TCC75 DPA Slink DPA White Slink	Ated           000000000000000000000000000000000000	pair	515.00 18.00 35.00 99.00 179.00 30.00 80.00 120.00 80.00 249.00 39.00 249.00 39.00 549.00 549.00 549.00 549.00 549.00 549.00 549.00 549.00 549.00 549.00 550.00 56.00 50.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-A Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audio Quest Iarquoise 2 Audioquest Iarquoise 2 Audioquest Iarquoise 2 Audioquest Iarquoise 2 Audioquest Iarguoise 2 Audioquest Diamond Cable Talk Improved 2/CD Cable Talk Arguored 2 Cable Talk Arguored 2/CD Cable Talk Arguored 2/CD Cable Talk Reference 2 Cable Talk Reference 2 Cable Talk Broadcast 2 Cable Talk Broadcast 2 Cable Talk Reference 2 Cable Talk Signature Gold Cambridge Attantic Cambridge Attantic Cambridge Studio Reference ChordCo Chrysalis ChordCo Coirea ChordCo Coirea ChordCo Coirea Cardas Audio Quadlink-Five Cardas Audio Golden-Five C Cardas Audio Hexlink-Five C Cardas Audio Hexlink Golden-5 C Cardas Audio Hexlink Golden-5 C Cardas Audio Hexlink Golden-5 C Cardas Audio Hexlink Golden Cross DNM TCC75 DPA Slink DPA Black Slink Expressive Tech IC-1		pair	515.00 18.00 19.00 179.00 30.00 40.00 80.00 120.00 80.00 249.00 249.00 249.00 249.00 249.00 2549.00 2549.00 2549.00 65.00 65.00 65.00 65.00 65.00 65.00 65.00 65.00 65.00 65.00 65.00 65.00 130.00 65.00 65.00 65.00 65.00 130.00 20.00 30.00 20.00 30.00 20.00 30.00 20.00 20.00 30.00 20.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-C Audio Note AN-S Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audio Note AN-Y Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Topaz 2 Audioquest Diamond Cable Talk Improved 2/CD Cable Talk Advanced 2 Cable Talk Improved 2/CD Cable Talk Advanced 2 Cable Talk Reference 2 ChordCo Chrysalis ChordCo Cobra ChordCo Siren ChordCo Cobra ChordCo Solid Cardas Audio 300B-Microtwin Cardas Audio 300B-Microtwin Cardas Audio Garda Cross Cardas Audio Hexlink-Five C Cardas Audio Hexlink-Five C Cardas Audio Hexlink Golden-5 C Cardas Audio Hexlink Golden-5 C Cardas Audio Golden Cross DNM TCC75 DPA Slink DPA White Slink DPA White Slink	Ated           000000000000000000000000000000000000	<ul> <li>Pair.</li> </ul>	515.00 18.00 35.00 99.00 179.00 30.00 85.00 120.00 85.00 120.00 399.00 120.00 399.00 549.00 35.00 35.00 35.00 85.00 130.00 20.00 30.00 30.00 40.00 30.00 30.00 30.00 40.00 30.00
for a one-metre termin Art Yam Church 5000 Audio Note AN-A Audio Note AN-A Audio Note AN-S Audio Note AN-Y Audio Quest Topaz 2 Audio Quest Topaz 2 Cable Talk Improved 2/CD Cable Talk Improved 2/CD Cable Talk Improved 2/CD Cable Talk Roterio 2 Cable Talk Reference 2 Cable Talk Studio 2 Cable Talk Studio 2 Cable Talk Studio Cambridge Arctic Cambridge Arctic Cambridge Arctic Cambridge Arctic Cardas Audio 300B-Microtwin Cardas Audio 300B-Microtwin Cardas Audio Gada Cross Cardas Audio Hexlink-Five C Cardas Audio Hexlink-Five C Cardas Audio Hexlink-Five C Cardas Audio Hexlink-Five C Cardas Audio Golden Cross DNM TCC75 DPA Slink DPA Black Slink Expressive Tech IC-1 Egmma Wow Balance Geertz Interconnect		pair	515.00 18.00 35.00 99.00 179.00 30.00 30.00 80.00 120.00 80.00 249.00 39.00 249.00 39.00 50.00 50.00 50.00 50.00 50.00 65.00 30.00 40.00 30.00 40.00 53.00 99.00 115.00 53.00 99.00 115.00 53.00 70

,	Henley HSP200	٢		95.00
)	Heybrook Inter/BS Blue STRK Ixos 104	0	۲	49.95 20.00
)	ixos 103	٢		45.00
)	lxos 102 lxos 101	0		60.00 100.00
)	Ixos 100.X03 Kimber PBJ	0		150.00 68.00
	Kimber KC1	٢		96.00
)	Kimber Silver Streak Kimber KCAG	0		180.00 390.00
)	Kimber KCTG	٢		720.00
)	Kronos Konnekt 3 Kronos Konnekt 2	٢	۲	49.00 99.00
)	Kronos Konnekt 1 LAT International IC-50	0		199.00 37.00
)	LAT International IC-80	٢		60.00
)	LAT International IC-100-D LAT International IC-200 Mk II	٢	۲	89.00 151.00
)	Moth Leyline Black Moth Leyline Grey	0		100.00 200.00
)	Nordost Magic	٢		30.00
)	Nordost Black Knight Nordost Blue Angel	0		<b>55.00</b> 90.00
)	Nordost Blue Heaven Nordost Red Dawn			135.00 260.00
)	Ortofon 7N interconnect	0		250.00
	QED P2 Gold QED Incon P2 Screened	0		20.00 23.00
	QED Incon P1 Screened	٢		26.00
5	Roksan ROK-Intercon Siltech MC2-12	0		75.00 308.00
	Siltech MC4-24S Siltech FTM-3S	0		400.00 730.00
	Silver Sounds SS2	٢		99.00
	Silver Sounds SS1 SME S2LB-4	0		199.00 44.00
	SME S3LB-4 SME 4900A	0		50.00 73.00
	SME 5900A	٢		98.00
	Sonic Link Bonus Sonic Link Silver pink	©		15.00 35.00
	Sonic Link Black Sonic Link White	() ()		<b>49.00</b> 65.00
	Sonic Link Brown		۲	70.00
	Sonic Link Violet Sonic Link Blue Nickel	٢	۲	85.00 140.00
	Sonic Link Vermillion Sonic Link Red earth		•	195.00 300.00
	Sonic Link Black earth Sonic Link Blue earth		۲	450.00
	Transparent Cable Musichord Int	٢	۲	695.00 48.00
)	Transparent Cable The Link Transparent Cable Music Link	() ()		92.00 119.00
)	Trichord Pulsewire 75 Vampire Wire CC		۲	169.00 24.00
)	Vampire Wire CCC/II	0		58.00
)	Vampire Wire SC/II Vampire Wire SC/IV	0		98.00 144.00
)	Vampire Wire Al/2 Vampire Wire SL	0		259.00 412.00
)	XLO Type 150 XLO Type 0.1	٢		50.00
)	XEO IYPE 0.1		•	180.00
)				
)			1.00	A 1993 A 1975
)				-
,				-
)				
)				
) ) )				
) ) ) )				
) ) ) ) )				Π
) ) ) ) )			CTS	
) ) ) ) ) ) )	KEY			
) ) ) ) ) ) ) ) )	<b>KEY</b> Prices for interconnects	s are	San,	
) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	KEY	s are	San,	
) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	KEY Prices for interconnects for a one-metre termina Art Yam Church 5000	s are ated p	San,	275.00
) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	KEY Prices for interconnects for a one-metre termine Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Digital/video 2	s are ated p	San,	30.00 60.00
	KEY Prices for interconnects for a one-metre termina Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Digital/video 2 Audioquest Digital PRO	s are ated p ©	San,	30.00
	KEY Prices for interconnects for a one-metre termina Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Digital/video 2 Audioquest Digital/PRO Audioquest Digital PRO Audioquest Optilink Pro	s are ated p © ©	San,	30.00 60.00 90.00 <b>100.00</b> 149.00
	KEY Prices for interconnects for a one-metre termine Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Digital/video 2 Audioquest Digital PRO Audioquest Digital PRO Audioquest Optilink Z Cable Talk Digital 2	s are ated p © © ©	San,	30.00 60.00 90.00 100.00 149.00 179.00 75.00
	KEY Prices for interconnects for a one-metre termina Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Digital/video 2 Audioquest Digital/video 2 Audioquest Digital/PRO Audioquest Digital PRO Audioquest Optilink Pro Audioquest Optilink Pro Audioquest Optilink Z Cable Talk Digital 2 Cardas Audio Lightning Chard& Codae	s are ated p © ©	San,	30.00 60.00 90.00 100.00 149.00 179.00
	KEY Prices for interconnects for a one-metre termina Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Digital/video 2 Audioquest Digital/Video 2 Audioquest Digital PRO Audioquest Optilink X Audioquest Optilink Z Cable Talk Digital 2 Cardas Audio Lightning ChordCo Codac ChordCo Prodac	s are ated p © © © ©	San,	30.00 60.00 90.00 100.00 149.00 179.00 75.00 190.00 33.00 50.00
	KEY Prices for interconnects for a one-metre termina Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Digital/video 2 Audioquest Digital/video 2 Audioquest Digital/video 2 Audioquest Digital/RO Audioquest Optilink X Cable Talk Digital 2 Cardas Audio Lightning ChordCo Codac ChordCo Crodac DPA Opti-link DPA Digi-link	s are ated p © © ©	San,	30.00 60.00 90.00 149.00 179.00 75.00 190.00 33.00 50.00 20.00 28.00
	KEY Prices for interconnects for a one-metre termina Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Digital/video 2 Audioquest Digital/video 2 Audioquest Digital PRO Audioquest Optilink X Cable Tak Digital 2 Cardas Audio Lightning ChordCo Prodac DPA Opti-link	s are ated p © © ©	San,	30.00 60.00 90.00 149.00 179.00 75.00 190.00 33.00 50.00 20.00
	KEY Prices for interconnects for a one-metre termina Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Digital/video 2 Audioquest Digital PRO Audioquest Digital PRO Audioquest Optilink X Cable Taik Digital 2 Cardas Audio Lightning ChordCo Codac ChordCo Prodac DPA Digi-link Joss J05	s are ated p © © ©	San,	30.00 60.00 90.00 149.00 179.00 75.00 190.00 33.00 50.00 20.00 28.00 25.00

75W

Sansui AV-7100

٢

٢

٢

00

....

RIDGES agnet type.

> MM

MM MM MM MM MM MM MM MM MM MM

MM

мм 

MM MM MM

N

Kimber Illuminati DX-50	٢		350.00	Naim NACA 5	
Kimber Illuminati Orchid LAT International DI-20-D	٢	C	750.00 79.00	Nordost Octava Nordost 4-Flat	
Moth Leyline Datalink Nordost Moonglo	0		140.00 145.00	Ortofon SPK100 Ortofon SPK200	
Nordost Moonglo-XLR	G		145.00	Ortofon SPK300	
QED Digiflex QED Optiflex	0		20.00 25.00	Puresonic 7845 Puresonic 7891	
Roksan ROK-Intercon	٢		45.00	QED Qudos Micro	
Siltech HF-6 Sonic Link Blue/black	¢		145.00	QED Qudos Bi-Wire QED Profile 8	
Sonic Link Green Sonic Link Green Earth			60.00	QED Profile 4x4	
Transparent Cable PDL	0	•	150.00 199.00	QED Profile Silver 12 Rega REGA	
Trichord Pulsewire 75D Trichord Pulsewire 110D		•		Roksan ROK-Speaker Siltech LS2-45	
Vampire Wire DI/1			A CONSIST	Siltech FT-12 Mkl	
				Siltech LS4-120 Silver Sounds 12 Gauge	
	100			Silver Sounds 10 Gauge	
	-			Silver Sounds 8 Gauge Sonic Link AST50	
				Sonic Link AST75 Sonic Link AST200x2	
	-	_		Sonic Link S300	
FAIR	$\ll$			Sonic Link S300x2 Sonic Link S900	
EVID/	2	-		Sonic Link S600x2	
		-	1500	Sonic Link RE3.1 Sonic Link RE3.4	
EAN				ChordCo Myth	
				ChordCo Legend Transparent Cable Musichord Spkr	
SPEAKER CA	BLES			Transparent Cable The Wave	B
KEY Price ner mone metre	untor		tod	Transparent Cable Music Wave Spi Vampire Wire SC-384	ď
Price per mono metre	unter	unite	ntea.	Vampire Wire SC-554 Vampire Wire ST-1	6
Art Yam Church M2000	٢		470.00	Vampire Wire SC-1108	
Art Yam Church 5000 Audio Note AN-D	٢		795.00	Vampire Wire ST-II Vampire Wire ST-III	
ludio Note AN-B	٢	•	4.50	XLO Pro 625	
udio Note AN-L udio Note AN-SP	0		29.50 150.00	XLO Pro 600	
udio Note AN-SPx	٢		450.00		
udioquest Type 2 udioquest F-16	0		3.50 3.60		
udioquest Type 6	٢		7.50		
udioquest Indigo 2 udioquest Crystal			12.00 18.00		
udioquest Forest udioquest Argent	٢		65.00 95.00	· · · ·	
udioquest Clear 3	0		150.00		
andridge LC7409 andridge LC4110	() ()		4.00 28.00		
andridge LC3410	0		40.00		
andridge LC3210 andridge LC3219	0		75.00 75.00	and a state of the second	
andridge LC3220	٢		90.00	CARTRIDG	=S
landridge LC3310 landridge LC3240			95.00 125.00		
able Talk Flat One able Talk Theatre 2	٢		2.00 2.00	MM - moving-magne MC - moving-coil typ	
able Talk Talk 3.1				Up to £10	
able Talk Overture 2.1 able Talk Talk 3.1 Biwire			2.25		
	٢		4.00		
able Talk Talk 4.1	© ©		4.00 5.00 5.00	Audio Note 101 Audio Technica AT-91	NN
able Talk Talk 4.1 able Talk Concert 2.1	•		4.00 5.00 5.00 7.00	Audio Technica AT-91 Audio Technica AT-95E	N
able Talk Talk 4.1 able Talk Concert 2.1 able Talk Talk 4.1 Biwire able Talk Concert 2.1 Biwire			4.00 5.00 5.00 7.00 9.00 14.00	Audio Technica AT-91	N
able Talk Talk 4.1 Sable Talk Concert 2.1 Sable Talk Talk 4.1 Biwire Sable Talk Concert 2.1 Biwire Sardas Audio 300B-Microtwin SC			4.00 5.00 <b>5.00</b> 7.00 9.00 14.00 35.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL110	N
able Talk Talk 4.1 able Talk Concert 2.1 able Talk Cancert 2.1 Biwire able Talk Concert 2.1 Biwire ardas Audio 300B-Microtwin SC ardas Audio Quadlink-Five SC ardas Audio Cross SC			4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL110 Denon DL160 Denon DL103	N
table Talk Talk 4.1 Table Talk Concert 2.1 Talk Cancert 2.1 Biole Talk Kalk 4.1 Biwire Table Talk Concert 2.1 Biwire Tardas Audio Guadlink-Five SC Tardas Audio Cross SC Tardas Audio Hexlink-Five SC			4.00 5.00 <b>5.00</b> 7.00 9.00 14.00 35.00 59.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL110 Denon DL103 Goldring Elan	
able Talk Talk 4.1 able Talk Concert 2.1 able Talk IAk 1.1 Biwire able Talk IAk 1.1 Biwire ardas Audio 3008-Microtwin SC ardas Audio Cross SC ardas Audio Hexlink-Five SC ardas Audio Hexlink Golden 5 SC ardas Audio Bolden Cross SC			4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Denon DL160 Denon DL103 Goldring Elan Goldring Elan Goldring 1006	
able Talk Talk 4.1 able Talk Concert 2.1 able Talk ATalk 4.1 Biwire ardas Audio 2008-Microtwin SC ardas Audio Quadlink-Five SC ardas Audio Hexlink-Five SC ardas Audio Hexlink-Five SC ardas Audio Hexlink Golden5 SC ardas Audio Golden Cross SC MM LSC350 PA Black Sixteen		•	4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00 6.95 100.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL110 Denon DL100 Denon DL103 Goldring Elan Goldring Lioktra Goldring 1006 Goldring 1012GX	
able Talk Talk 4.1 able Talk Concert 2.1 able Talk Talk Concert 2.1 Bible Talk Talk Concert 2.1 Biwire ardas Audio 3008-Microtwin SC ardas Audio Cross SC ardas Audio Hoxlink Foile SC ardas Audio Hoxlink Golden 5 SC ardas Audio Hoxlink Golden 5 SC MM LSC350 PA Black Sixteen ectrocompaniet EC-K2		•	4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00 6.95 100.00 30.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Denon DL160 Denon DL160 Goldring Elektra Goldring 1006 Goldring 1006 Goldring 102GX Goldring 1022GX Grado 2TE+1	
able Talk Talk 4.1 able Talk Concert 2.1 able Talk Concert 2.1 able Talk Concert 2.1 Biwire ardas Audio Guadlink-Five SC ardas Audio Cross SC ardas Audio Hexlink Golden5 SC ardas Audio Golden Cross SC whi LSC350 PA Black Sixteen lectrocompaniet EC-K2 ale X1189 ab X1515		•	4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 109.00 175.00 239.00 6.95 100.00 30.00 1.00 2.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL100 Denon DL100 Goldring Elan Goldring Elan Goldring 1006 Goldring 1026X Goldring 1026X	
able Talk Talk 4.1 able Talk Concert 2.1 able Talk IAk 1.1 Biwire able Talk IAk 1.1 Biwire ardas Audio 3008-Microtwin SC ardas Audio Quadink-Five SC ardas Audio Hexlink-Five SC ardas Audio Hexlink Golden 5 SC ardas Audio Golden Cross SC MM LSC350 PA Black Sixteen Betrocompaniet EC-K2 aie XL189 aie XL151-2		•	4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00 6.95 100.00 30.00 1.00 2.00 2.50	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Denon DL160 Denon DL160 Goldring Elektra Goldring 1006 Goldring 102GX Goldring 102GX Goldring 102GX Grado ZE+1 Grado ZE+1 Grado ZE+1 Grado Prestige Black	
able Talk Talk 4.1 able Talk Concert 2.1 able Talk Concert 2.1 Biwire andas Audio 3008-Microtwin SC ardas Audio Guadlink-Five SC ardas Audio Hexlink Colden5 SC ardas Audio Hexlink Colden5 SC ardas Audio Golden Cross SC NM LSC330 PA Black Sixteen lectrocompaniet EC-K2 ale XL185 ale XL155 ale XL160-2 amma Wonder Line oertz M1		•	4.00 5.00 7.00 9.00 14.00 35.00 59.00 109.00 175.00 239.00 109.00 109.00 109.00 100.00 2.50 60.00 10.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL100 Denon DL103 Goldring Elektra Goldring ID066 Goldring 1012GX Goldring 1022GX Grado ZTE+1 Grado ZTE+1 Grado Z3E+1	
able Talk Talk 4.1 able Talk Concert 2.1 able Talk 14.1 Biwire able Talk 14.1 Biwire ardas Audio 3008-Microtwin SC ardas Audio Quadink-Five SC ardas Audio Hexlink-Five SC ardas Audio Hexlink Golden5 SC ardas Audio Golden Cross SC NML SC350 PA Black Sixteen lectrocompaniet EC-K2 ale XL189 ale XL185 ale XL1815 ale X			4.00 5.00 7.00 9.00 14.00 35.00 99.00 109.00 175.00 239.00 6.95 100.00 30.00 2.50 60.00 10.00 2.50	Audio Technica AT-91 Audio Technica AT-91 Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Denon DL160 Denon DL160 Denon DL160 Goldring Elektra Goldring 1006 Goldring 102GX Goldring 102GX Goldring 102GX Goldring 102GX Grado ZE+1 Grado ZE+1 Grado ZE+1 Grado Prestige Black Grado Prestige Blue Grado Prestige Blue Grado Prestige Blue	
able Talk Talk 4.1 table Talk Concert 2.1 table Talk Concert 2.1 table Talk Concert 2.1 table Talk Concert 2.1 table Talk Concert 2.1 tardas Audio Guadlink-Five SC tardas Audio Hexlink Colden5 SC tardas Audio Hexlink Colden5 SC tardas Audio Golden Cross SC NM LSC350 PRA Black Sixteen lectrocompaniet EC-K2 tale X1.15 tale X1.15 tale X1.15 tale X1.16-2 amma Wonder Line certz M1 certz M2 T Audio Speaker so 607			4.00 5.00 7.00 9.00 14.00 35.00 99.00 109.00 175.00 239.00 6.95 100.00 1.00 2.00 2.50 60.00 10.00 2.00 2.00	Audio Technica AT-91 Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL100 Denon DL103 Goldring Elektra Goldring 1006 Goldring 1006 Goldring 102GX Goldring 102CX Grado ZTE +1 Grado ZTE +1 Grado ZTE +1 Grado ZTE +1 Grado ZTE +1 Grado Prestige Black Grado Prestige Blue Grado ZTI + Grado Prestige Red Wham Tracer i	
adde fain fain 3.1 binne adde fain fain 3.1 binne Sable Taik Concert 2.1 Sable Taik Concert 2.1 Sable Taik Concert 2.1 Sable Taik Concert 2.1 Sardas Audio Consect Sardas Audio Madink-Five SC Sardas Audio Hexlink Colden 5 Sardas Audio Hexlink Colden 5 Sardas Audio Golden Cross SC NML SC350 IPA Black Sixteen Ilectrocompaniet EC-K2 Sale XL156 Sale XL15			4.00 5.00 7.00 9.00 14.00 59.00 109.00 109.00 239.00 6.95 100.00 2.00 2.50 60.00 10.00 2.50 60.00 20.00	Audio Technica AT-91 Audio Technica AT-91 Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Denon DL160 Denon DL160 Denon DL160 Goldring Elektra Goldring 1006 Goldring 102GX Goldring 102GX Grado 2TE+1 Grado 2CE+1 Grado 2CE+1 Grado 2TE+1 Grado Prestige Black Grado Prestige Black Grado Prestige Blue Grado Prestige Blue	222222222222222222222222222222222222222
able Talk Talk 4.1 Table Talk Concert 2.1 Sable Talk Concert 2.1 Sable Talk Concert 2.1 Biwire Sable Talk Concert 2.1 Biwire Sardas Audio Guadlink-Five SC Tardas Audio Hexlink Coldent SC Tardas Audio Hexlink Coldent SC MM LSC350 PRA Black Sixteen lectrocompaniet EC-K2 ale X1155 Talex X155 Talex X155 T			4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00 6.95 100.00 30.00 2.00 2.00 50.00 50.00 3.000 8.00	Audio Technica AT-91 Audio Technica AT-91 Audio Technica AT-110E Benz-Micro MC20EII Denon DL110 Denon DL103 Goldring Elektra Goldring 1006 Goldring 102GX Goldring 102GX Goldring 102GX Goldring 102CX Goldring 100C Goldring 100C Goldring 102CX Goldring 102CX Gold	222222222222222222222222222222222222222
able Talk Talk 4.1 Jable Talk Concert 2.1 Jable Talk 14.1 Biwire Jable Talk 14.1 Biwire Jable Talk 14.1 Biwire Jable Talk Audio 3008-Microtwin SC Jardas Audio Quadink-Five SC Jardas Audio Cross SC Jardas Audio Golden Cross SC Jardas Audio Golden Cross SC MMI LSC350 MMI LSC350 MMI LSC350 JMM LSC350 JMM Black Sixteen Jectrocompaniet EC-K2 Jalex 11.18 Jalex 11.15 Jalex 11.15 J			4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 239.00 239.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	Audio Technica AT-91 Audio Technica AT-91 Audio Technica AT-10E Benz-Micro MC20EII Denon DL100 Denon DL160 Denon DL160 Denon DL160 Goldring Elektra Goldring 1006 Goldring 102GX Grado 2TE+1 Grado 2CE+1 Grado 2CE+1 Grado ZEE+1 Grado Prestige Black Grado Prestige	222222222222222222222222222222222222222
able Talk Talk 4.1 Table Talk Concert 2.1 Table Talk Concert 2.1 Sable Talk Concert 2.1 Biwire Cardas Audio 3008-Microtwin SC Cardas Audio Mexlink-Five SC Tardas Audio Cross SC Tardas Audio Hexlink Colden5 SC Tardas Audio Bolden Cross SC MM LSC350 MM LS	\$		4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00 6.95 100.00 30.00 2.00 2.00 2.00 50.00 50.00 50.00 50.00 50.00 50.00 10.00 8.00 12.00 8.00 12.00 8.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL110 Denon DL103 Goldring Elektra Goldring 1006 Goldring 102GX Goldring 102GX Goldring 102GX Goldring 102CGX Goldring 102CGX Goldr	222 22222222222222222222222222222222222
able Talk Talk 4.1 Table Talk Concert 2.1 Table Talk A.1 Biwire Table Talk A.1 Biwire table Talk A.1 Biwire table Talk A.1 Biwire tardas Audio Quadlink-Five SC tardas Audio Cross SC tardas Audio Hexlink-Five SC tardas Audio Hexlink-Five SC tardas Audio Golden Cross SC HM LSC350 HPA Black Sixteen lectrocompaniet EC-K2 tale XL185 tale XL155 tale XL15	00000000000000000000000000000000000000		4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 239.00 239.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Goldring Elan Goldring Elan Goldring 1006 Goldring 1006 Goldring 102CX Goldring 102CX Goldring 102CX Grado ZEE+1 Grado ZEE+1 Grado ZEE+1 Grado Prestige Black Grado Trestige Black Grado Prestige Black Ortofon VMS2 Ortofon 0M 5E Ortofon 0M DJ	222 22222222222222222222222222222222222
able Talk Talk 4.1 Table Talk Concert 2.1 Table Talk Concert 2.1 Sable Talk Concert 2.1 Biwire Cardas Audio 3008-Microtwin SC Cardas Audio Cross SC Tardas Audio Cross SC Tardas Audio Hexlink-Five SC Tardas Audio Bolden Cross SC HM LSC350 PR Black Sixteen lectrocompaniet EC-K2 Tale XL189 Tale	\$		4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00 6.95 100.00 30.00 2.00 2.00 2.00 50.00 50.00 50.00 50.00 50.00 50.00 10.00 2.00 2.00 3.00 8.00 12.00 19.68 8.00 12.00 21.00	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Denon DL130 Goldring Elentra Goldring Ibektra Goldring 1006 Goldring 102GX Goldring 102GX Goldring 102CGX Goldring 100 Goldring 100 Go	222 22222222222222222222222222222222222
able Talk Talk 4.1 Table Talk Concert 2.1 Table Talk Concert 2.1 Jable Talk A.1 Biwire Cable Talk A.1 Biwire Cable Talk Concert 2.1 Biwire Cardas Audio Quadlink-Five SC Cardas Audio Cross SC Tardas Audio Hexlink-Five SC Cardas Audio Hexlink-Five SC Cardas Audio Golden Cross SC JPA Black Sixteen Jectrocompaniet EC-K2 Jale XL105 Jale XL105			4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00 6.95 100.00 30.00 2.00 2.00 2.00 2.00 2.00 2.0	Audio Technica AT-91 Audio Technica AT-91 Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Goldring Elan Goldring Elan Goldring 1006 Goldring 1026X Goldring 1026X Goldring 10226X Grado 2TE+1 Grado ZEE+1 Grado ZEE+1 Grado ZEE+1 Grado Prestige Black Grado TF+1 Grado Prestige Black Grado Prestige Blac Grado Drestige Red Wham Tracer I Ortofon OM SE Ortofon OM DJ Ortofon SD Ortofon OM DJ Ortofon OM DJ Ortofon OM DJ Ortofon OM DJ	222 22222222222222222222222222222222222
able Talk Talk 4.1 Table Talk Concert 2.1 Table Talk A.1 Biwire Table Talk A.1 Biwire Table Talk A.1 Biwire Table Talk A.1 Biwire Tardas Audio Duadink-Five SC Tardas Audio Unadink-Five SC Tardas Audio Hexlink Folden SC Tardas Audio Golden Cross SC MMI LSC350 MMI LSC350 MMI LSC350 MMI LSC350 MMI LSC350 TALB Table X.1180 Table X.1180	\$		4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00 6.95 100.00 30.00 2.00 2.00 2.00 2.00 2.00 2.0	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Denon DL130 Goldring Elen Goldring 1006 Goldring 1006 Goldring 1006 Goldring 1002GX Goldring 102GX Goldring 1022GX Goldring 1022GX Goldring 1022GX Goldring 1022GX Goldring 1022GX Goldring 1022GX Grado ZET+1 Grado 23E+1 Grado Prestige Black Grado Prestige Black Grado Prestige Black Grado Prestige Red Wham Tracer I Ortofon 0M 5E Ortofon 0M 5E Ortofon 0M 10 Ortofon 510 Ortofon 0M 00 Ortofon 0M 00 Ortofon 0M 20 Ortofon 0M 20 Ortofon 0M 30 Ortofon 0M 30 Ortofon 0M 30 Ortofon 0M 30 Ortofon 0M 10 Ortofon MS	
able Talk Talk 4.1 Table Talk Concert 2.1 Table Talk	\$		4.00 5.00 7.00 9.00 14.00 35.00 59.00 99.00 109.00 175.00 239.00 6.95 100.00 30.00 2.00 2.00 2.00 2.00 2.00 2.0	Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Benz-Micro MC20EII Denon DL130 Goldring Elan Goldring Elan Goldring 1006 Goldring 1006 Goldring 102GX Goldring 102GX Grado ZTE+1 Grado ZEE+1 Grado ZEE+1 Grado ZEE+1 Grado Prestige Black Grado TE+1 Grado Prestige Black Grado Testige Black Grado Prestige Blac Grado Drestige Blac Grado Drestige Blac Grado Drestige Blac Grado Drestige Blac Grado Drestige Blac Ortofon OM 52 Ortofon OM 10 Ortofon S10 Ortofon OM 20 Ortofon GM 20 Ortofon GM 20 Ortofon OM 30 Ortofon OM 30 Ortofon OM 30 Ortofon OM 30	33 333322222222222222222222222222222222

	-		No. of Concession, Name
	5.50	Pickering V15-DJ	мм
	2.95	Pickering TL-E	MM
	10.00	Pickering TL-2E	MM
•	3.00	Pickering XV15-625E	MM
	5.00	Pickering XV15-150-DJ	MM
	8.00	Pickering TL-2-S	MM
	2.00	Pickering XV15-757S	MM
	3.00	Pickering XV15-625DJ	MM
	1.25	Pickering XV15-1800S	MM
	4.50	Pickering TL3S	MM
	6.50	Pickering XEV-3001E	MM
	9.00	Pickering XLZ-3500	MM
	15.00	Pickering TL-4-S	MM
	2.00	Rega Bias	MM
	6.00	Rega RB78	MM
	109.00	Rega Super Bias	MM
	240.00	Rega Elys	MM
	549.00	Shure SC35C	MM
	15.00	Shure ME95ED	MM
	35.00	Shure M70BX	MM
	75.00	Stanton 500AL II	MM
	1.95	Stanton 500EL Stanton 680AL/X	MM
	3.00	Stanton 680EL/X	MM
	10.00		MM
	18.00 35.00	Sumiko Oyster Sumiko Black Pearl	MM
	50.00	Sumiko Pearl	MM
	70.00	Sumiko Blue Point	MIM
	90.00	Over £	100
	330.00	Audio Note 102	MM
	5.95	Audio Note Soara	
-	15.00	Audio Note IO1V	
	11.00	Audio Note 102V	
	23.00	Audio Note IOLtd	
	25.00	Audio Technica AT-OC9	MM
	11.00	Audio Technica ART-1	
	15.00	Benz-Micro The Glider	
•	30.00	Benz-Micro M090	
	30.00	Benz-Micro L040	
•	48.00	Benz-Micro H200	100
۲	73.00	Benz-Micro Reference	
	4.00	Benz-Micro Reference Ruby	
	16.60	Benz-Micro Ruby Open Air	
		Clearaudio Aurum-Alpha	MM
	2-2.2	Clearaudio Aurum-Beta Clearaudio Aurum-Beta/S	MM
•		Clearaudio Gamma-S	MM
•		Clearaudio Signature	
		Clearaudio Accurate	
•	Carlos and	Clearaudio Insider	
•		Denon DL304	
	025	Dynavector 50X	
		Dynavector 10X	
•		Dynavector 23RS	
	1	Dynavector 17D2	
	100	Dynavector XX-1L	
		Dynavector XX-1	
	1	Dynavector Te-Kaitora	Sec. 1
-	1	Goldring Eroica LX	
i.	5.200	Goldring Eroica	
		Goldring 1042	MM
		Goldring Elite Goldring Excel VX	
		Grado Prestige Silver	
		Grado Prestige Gold	MM
	00	Grado Signature Junior	MM
	99 13	Grado Signature 8MZ	MM
	13	Grado Signature MCZ	MM
	24	Grado Signature TLZ	MM
-	-	Grado Signature XTZ	MM
	70	Koetsu Red T	
AC	90	Koetsu Red K Sig	
ic	100	Koetsu Urushi	
-	19	Koetsu Signature	
	29	Koetsu Gold PR	
	59	Linn K9	MM
		Linn Klyde	
	79		Sec. Sec.
	<b>9</b> 9	Linn Arkiv	
	99 27	Linn Arkiv London Decca Maroon	MM
	99 27 37	Linn Arkiv London Decca Maroon London Decca Gold	MM
	99 27 37 48	Linn Arkiv London Decca Maroon London Decca Gold London Decca Maroon Dp	MM
	99 27 37 48 49	Linn Arkiv London Decca Maroon London Decca Gold London Decca Maroon Dp London Decca Gold Dp	MM MM MM
	99 27 37 48 49 59	Linn Arkiv London Decca Maroon London Decca Gold London Decca Maroon Dp	MM MM MM
	99 27 37 48 49 59 69	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold	
	99 27 37 48 49 59 69 83	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Lydian	MM MM MM
	99 27 37 48 49 59 69 83 99	Linn Arkiv London Decca Maroon London Decca Gold London Decca Maroon Dp London Decca Sold Dp London Decca S Gold Dp London Decca S Lold Dp London Decca Jubilee	
-	99 27 37 48 49 59 69 83	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra tydian Lyra Clavis Da Capo N'ham Tracer II	MM MM MM MM
	99 27 37 48 49 59 69 83 99 98	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Lydian Lyra Clavis Da Capo N'ham Tracer II N'ham Tracer III	MM MM MM MM
	99 27 37 48 49 59 69 83 99 98 14	Linn Arkiv London, Decca Maroon London Decca Gold London Decca Gold Op London Decca S Gold Op London Decca Jubilee Lyra Lizvis Da Capo N'ham Tracer II N'ham Tracer III N'ham Tracer IV	MM MM MM MM MM
	99 27 37 48 49 59 69 83 99 98 14 20	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Clavis Da Capo N'ham Tracer II N'ham Tracer III N'ham Tracer IV Ortefon MC3 Turbo	MM MM MM MM MM MM
	99 27 37 48 49 59 69 83 99 98 14 20 30	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Lydian Lyra Clavis Da Capo N'ham Tracer II N'ham Tracer III N'ham Tracer III N'ham Tracer III N'ham Tracer III Octofon MC3 Turbo Octofon MC15 Super II	MM MM MM MM MM MM
	99 27 37 48 49 59 69 83 99 98 14 20 30 38	Linn Arkiv London, Decca Maroon London Decca Gold London Decca Gold Op London Decca S Gold Lyra Łydian Lyra Clavis Da Capo N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer IV Ortofon MC3 Surbo Ortofon MC15 Super II Ortofon S40	MM MM MM MM MM MM
	99 27 37 48 49 59 69 83 99 98 14 20 30 38 50 <b>65</b> 70	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Clavis Da Capo N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer IV Ortofon MC3 Super II Ortofon MC3 Super II Ortofon MC25E	MM MM MM MM MM MM
IC	99 27 37 48 49 59 69 83 99 98 14 20 30 38 50 65 70 70	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Lydian Lyra Clavis Da Capo Wham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II Ortofon MC3 Surbo Ortofon MC15 Super II Ortofon MC25E Ortofon MC25EL	MM MM MM MM MM MM MM
IC	99 27 37 48 49 59 69 83 99 98 14 20 30 38 50 <b>65</b> 70 70 80	Linn Arkiv London, Decca Maroon London Decca Gold London Decca Gold Op London Decca S Gold M'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II Ortofon MC3 Super II Ortofon MC3 Super II Ortofon MC25E Ortofon MC25FL Ortofon MC25FL	MM MM MM MM MM MM
IC	99 27 37 48 49 59 69 83 99 98 14 20 30 38 50 <b>65</b> 70 70 80 90	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Lavis Da Capo N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II Ortofon MC3 Super II Ortofon MC3 Super II Ortofon MC25E Ortofon MC25E Ortofon MC10 Supreme Ortofon SPU mono	MM MM MM MM MM MM MM
	99 27 37 48 49 59 69 83 99 83 98 14 20 30 38 50 <b>65</b> 70 70 70 80 90 100	Linn Arkiv London, Decca Maroon London Decca Gold London Decca Gold Op London Decca S Gold M'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II Ortofon MC3 Super II Ortofon MC3 Super II Ortofon MC25E Ortofon MC25FL Ortofon MC25FL	MM MM MM MM MM MM
	99 27 37 48 49 59 69 83 99 98 14 20 30 38 50 <b>65</b> 70 70 80 90 100 100	Linn Arkiv London Decca Marcon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Clavis Da Capo Wham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II N'ham Tracer II Ortofon MC15 Super II Ortofon MC15 Super II Ortofon MC25E Ortofon MC25FL Ortofon MC10 Supreme Ortofon SPU mono Ortofon MC20 Supreme	MM MM MM MM MM MM
IC	99 27 37 48 49 59 69 83 99 98 14 20 30 38 50 <b>65</b> 70 70 80 90 100 20	Linn Arkiv London Decca Marcon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Clavis Da Capo N'ham Tracer II N'ham Tracer II N'ham Tracer III N'ham Tracer III N'ham Tracer III N'ham Tracer III N'ham Tracer III Ortofon MC15 Super II Ortofon MC15 Super II Ortofon MC25FL Ortofon MC25FL Ortofon MC20 Supreme Ortofon SPU Classic Ortofon MC20 Supreme Ortofon SUC Supreme Ortofon SUC Supreme	MM MM MM MM MM MM
IC	99 27 37 48 49 59 69 83 99 98 14 20 30 38 50 <b>65</b> 70 70 80 90 100 100	Linn Arkiv London Decca Maroon London Decca Gold London Decca Gold Dp London Decca Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca S Gold Dp London Decca Jubilee Lyra Lavis Da Capo N'ham Tracer II N'ham Tracer II Ortofon MC3 Supreme Ortofon MC25E Ortofon MC25FL Ortofon MC25FL Ortofon MC20 Supreme Ortofon SPU Classic Ortofon SPU Classic	MM MM MM MM MM MM

				and the second se	
M		28 35	Ortofon MC3000 II Ortofon MC5000		MC 1,100 MC 1,500
M		45	Ortofon MC7500		MC 1,500 MC 2,000
M		50	Pickering TL-3003	MM	145
M		50 55	Pickering XLZ-4500 Pickering TL-4004	MM	
M		60	Pickering XSV-5000U	MM	
М		60	Pickering XLZ-7500	MM	200
M		70 80	Pickering TLZ-7500-S Reson Mica	MM	
M		95	Reson Aciore	MM	150 MC 199
M		100	Reson Reca		MC 225
M		100 39	Reson Etile Reson Lexe		MC 299
м		39	Roksan Corus Black	MM	
M		59	Roksan Shiraz		MC 970
M		85 29	Stanton 890AL/X Sumiko BPS	мм	118 MC 250
N		38	Transfiguration Spirit		MC 1,000
		38 34	Transfiguration Temper Van Den Hul MM-1		MC 1,950 250
N		37	Van Den Hul MM-2	MM	
M		56 70	Van Den Hul DDT-II		MC 699
N		30	Van Den Hul MC-10 Van Den Hul MC-One		MC 799 MC 999
N		50	Van Den Hul MC-ONE Super		MC 1,150
N		70 100	Van Den Hul MC-Two Van Den Hul The Frog		MC 1,349 MC 1,700
d	мс	100	Van Den Hul Grasshopper IIISLA		MC 1,700 MC 2,200
N		139	Van Den Hul Grasshopper IIIGLN		MC 2,999
	MC		Van Den Hul Grasshopper IIIGLA Van Den Hul Grasshopper IIICMN		MC 2,999 MC 3,000
	MC	1,695	Van Den Hul Grasshopper IIICHN		MC 3,400
	MC		Van Den Hul Grasshopper IVGLA Wilson Benesch Matrix		MC 3,450
"	мс	245 944	Wilson Benesch Hybrid		MC 786 MC 1,068
	MC	650	Wilson Benesch Carbon		MC 1,586
	MC		Wilson Benesch Analog		MC 1,850
	MC				
8	MC				
1	MC				
N		135		-	100
		195 265			
	мс		C ]		
1	MC				
1	MC				
- 85					
	MC	5,500 200			
	MC MC MC	5,500 200 159			
	MC	5,500 200 159 189			
	MC MC MC MC MC	5,500 200 159 189 375 450	CASSETTE DI	ECKS	
	MC MC MC MC MC	5,500 200 159 189 375	KEY		
	MC MC MC MC MC MC MC	5,500 200 159 189 375 450 998 998 1,698	KEY → - Autoreverse – r	10 nee	
	MC MC MC MC MC MC MC MC	5,500 200 159 189 375 450 998 998 1,698 110	KEY — Autoreverse — r remove and turn round	io nee the ta	ape.
	MC MC MC MC MC MC MC	5,500 200 159 189 375 450 998 998 1,698	KEY → - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se	io nee the ta	ape.
		5,500 200 159 189 375 450 998 998 1,698 110 110 120 220	KEY — Autoreverse — r remove and turn round	io nee the ta	ape.
	MC MC MC MC MC MC MC MC	5,500 200 159 189 375 450 998 998 1,698 110 110 120	KEY → - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20	io nee the ta	ape.
		5,500 200 159 189 375 450 998 998 1,698 110 110 120 220 495 119 149	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450	io nee the ta	npe. record 120
		5,500 200 159 189 375 450 998 998 1,698 110 110 120 220 495 119	KEY → - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20	io nee the ta	ape. record
		5,500 200 159 189 998 998 1,698 110 110 120 220 495 119 149 150 250 375	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to 620 Aiwa AD-F450 Aiwa AD-K727 Denon DRM-550 Denon DRM-580	io nee the ta	120 170 160 200
		5,500 200 159 189 375 450 998 998 1,698 110 110 120 220 495 119 149 150 250 375 650	KEY → - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450 Aiwa AD-F450 Aiwa AD-WX127 Denon DRW-580 Denon DRW-580	io nee the ta	120 170 160 200 200
	MC MC MC MC MC MC MC MC MC	5,500 200 159 189 375 450 998 998 1,698 110 110 120 220 495 119 149 150 250 375 650 975 1,550	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450 Aiwa AD-F450 Aiwa AD-K50 Denon DRW-580 Denon DRW-580 Denon DR%-640 Goodmans Delta 801 Grundig CCF3	io nee the ta	120 170 160 200 130 200
	MCC MCC MCC MCC MCC MCC MCC MCC MCC MCC	5,500 200 159 189 375 450 998 1,698 110 110 220 495 119 149 150 250 375 650 575 1,550 1,998	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20 Aiwa AD-F450 Aiwa AD-WX727 Denon DRM-580 Denon DRM-580 Denon DRS-640 Godmans Delta 801 Grundig CF3 JVC TD-W2188K	io nee the ta	120 170 160 200 200 130 200 170
	MC MC MC MC MC MC MC MC MC	5,500 200 159 375 450 998 1,698 110 120 220 495 119 149 150 250 375 1,550 1,988 455 2,297 3,218	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450 Aiwa AD-F450 Aiwa AD-K50 Denon DRW-580 Denon DRW-580 Denon DR%-640 Goodmans Delta 801 Grundig CCF3	io nee the ta	120 170 160 200 130 200
	MCC MCC MCC MCC MCC MCC MCC MCC MCC MCC	5,500 2000 1599 189 375 450 998 998 998 998 998 998 998 998 110 120 220 375 450 375 450 375 5650 1,550 1,550 1,550 1,550	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20 Aiwa AD-F450 Aiwa AD-WX/27 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRS-640 Godmans Delta 801 Grundig CCF3 JVC TD-X372BK JVC TD-X372BK JVC TD-X318BK	io nee the ta	120 170 160 200 200 130 200 170 170 170 200 200
	MCC MCC MCC MCC MCC MCC MCC MCC MCC MCC	5,500 200 159 375 450 998 1,698 110 120 220 495 119 149 150 250 375 1,550 1,988 455 2,297 3,218	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450 Aiwa AD-F450 Aiwa AD-K727 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Jung CF3 JVC TD-W2188K JVC TD-W2188K	io nee the ta	120 120 170 160 200 130 200 130 200 170 170 200
		5,500 200 159 189 375 450 998 998 998 998 998 998 998 998 998 99	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20 Aiwa AD-K50 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 JVC TD-X372BK JVC TD-X372BK JVC TD-X372BK JVC TD-X372BK JVC TD-X372BK JVC TD-X372BK Senwood KX-W4080 Kenwood KX-W4680	io nee the ta	120 170 160 200 200 200 130 200 170 170 170 200 200 160 160 200
	MCC MCC MCC MCC MCC MCC MCC MCC MCC MCC	5,500 200 159 189 375 450 998 998 998 998 1,698 110 120 220 375 150 150 250 375 1,550 1,958 495 1,550 2,297 3,218 5,498 5,228 2,297 3,218 5,498 5,498 5,498 2,500	KEY 	io nee the ta	120           170           160           200           130           200           130           200           160           200           160           200           160           200           160           200           160           160           160           200           200
	MCC MCC MCC MCC MCC MCC MCC MCC MCC MCC	5,500 200 159 189 375 489 998 998 998 998 998 1,698 110 110 120 220 495 119 149 150 250 250 1,550 1,550 1,550 1,550 1,550 1,559 2,227 8,375 5,488 2,227 8,375 5,598 2,227 8,375 5,598 1,699 8,998 8,998 1,699 8,998 9,988 9,998 9,988 9,979 9,779 9,77	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to E20 Aiwa AD-K727 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 JVC TD-W218BK JVC TD-W218BK JVC TD-W318BK Kenwood KX-94080 Kenwood KX-94080 Kenwood KX-96080 Kenwood KX-50805 Marantz SD-535	io nee the ta	120 170 160 200 200 200 130 200 170 170 170 200 200 160 160 200
	MCC MCC MCC MCC MCC MCC MCC MCC MCC MCC	5,500 200 159 189 375 450 998 998 998 998 998 998 998 998 998 99	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450 Aiwa AD-F450 Aiwa AD-WX127 Denon DRW-580 Denon DRW-580 Denon DRW-580 Goodmans Delta 801 Grundig CCF3 JVC TD-X3728K JVC TD-X3728K JVC TD-X3188K Kenwood KX-9080 Kenwood K	io nee the ta	120           170           160           200           130           200           130           200           100           200           100           200           100           200           100           200           200           200           200           200           200           200           200           200           200           200
	MCC MCC MCC MCC MCC MCC MCC MCC MCC MCC	5,500 200 159 189 375 489 998 998 998 998 998 1,698 110 110 120 220 495 119 149 150 250 250 1,550 1,550 1,550 1,550 1,550 1,559 2,227 8,375 5,488 2,227 8,375 5,598 2,227 8,375 5,598 1,699 8,998 8,998 1,699 8,998 9,988 9,998 9,988 9,979 9,779 9,77	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to E20 Aiwa AD-K727 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 JVC TD-W218BK JVC TD-W218BK JVC TD-W318BK Kenwood KX-94080 Kenwood KX-94080 Kenwood KX-96080 Kenwood KX-50805 Marantz SD-535	io nee the ta	120 170 160 200 200 200 130 200 170 170 200 200 200 160 200 200 200 200 200
		5,500 200 159 189 375 450 998 998 998 998 998 998 998 998 998 99	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20 Aiwa AD-F450 Aiwa AD-WX727 Denon DRM-550 Denon DRM-550 Denon DRM-580 Denon DRM-580 Denon DRS-640 Godmans Delta 801 Grundig CF3 JVC TD-W3188K Kenwood KX-40800 Kenwood KX-4	io nee the ta	120           170           160           200           130           200           130           200           100           200           100           200           100           200           100           200           100           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           150           160           180
		5,500 200 159 189 375 489 998 998 998 998 998 1,698 110 110 120 220 495 119 149 150 250 975 1,550 1,998 2,297 1,550 1,000 259 339 339 347 9	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20 Aiwa AD-450 Aiwa AD-450 Aiwa AD-450 Denon DRM-580 Denon DRM-580 Denon DRS-640 Goodmans Delta 801 Grundig CCF3 JVC TD-W218BK JVC TD-W218BK JVC TD-W318BK Kenwood KX-44080 Kenwood KX-44080 Kenwood KX-50805 Marantz SD-53 Marantz SD-53 Marantz SD-53 Pioneer CT-S250 Pioneer CT-S250 Pioneer CT-S250 Pioneer CT-S250	io nee the ta	I20           120           170           160           200           130           200           130           200           160           200           160           200           160           200           200           160           200           160
		5,500 200 159 189 375 450 998 998 998 998 998 998 998 998 1,698 110 110 110 120 495 1,698 120 495 1,550 1,550 1,550 1,550 1,550 1,998 2,297 3,218 5,5488 2,297 3,215 5,5488 2,297 3,215 5,5488 2,297 3,215 3,299 3,310 3,299 3,310 3,499 3,310 3,499 3,409 3,400 3	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20 Aiwa AD-F450 Aiwa AD-WX727 Denon DRM-580 Denon DRM-580 Marantz SD-53 Onkyo K 185 Pioneer CT-S250 Pioneer CT-S250 Pioneer CT-S450S Sony TC-WE005	io nee the ta	120           170           160           200           130           200           130           200           100           200           100           200           100           200           100           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           150
		5,500 200 159 189 375 450 998 998 1,698 1,698 110 120 220 455 450 110 120 220 455 455 1,550 1,988 2,297 3,218 5,498 2,297 3,218 5,498 2,297 3,218 5,498 2,297 3,379 3,299 3,399 3,299 3,309 4,000 2,299 3,309 3,200 2,299 3,309 3,200 2,299 3,309 3,200 2,299 3,309 3,200 2,299 3,309 3,200 2,299 3,309 3,200 2,299 3,309 3,400 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,299 3,200 2,299 3,299 3,299 3,200 2,299 3,299 3,200 2,299 3,200 2,299 3,299 3,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 2,299 3,299 3,200 2,299 3,200 2,299 3,200 2,299 3,200 3,20	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450 Aiwa AD-F450 Aiwa AD-K727 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Goddmans Delta 801 Grundig CCF3 JVC TD-W2188K JVC TD-W2188K JVC TD-W3188K Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-5080S Marantz SD-535 Onkyo K 185 Pioneer CT-W205R Pioneer CT-W205R Pioneer CT-W305R Pioneer CT-W305R Pioneer CT-S450S Sony TC-KE400S	io nee the ta	120           170           160           200           130           200           130           200           100           200           100           200           160           200           160           160           160           160           160           160           160           160           160           160           160           160           150           150           150           150           150
		5,500 200 159 189 375 450 998 998 998 998 998 998 998 998 1,698 110 110 110 120 495 1,698 120 495 1,550 1,550 1,550 1,550 1,550 1,998 2,297 3,218 5,5488 2,297 3,215 5,5488 2,297 3,215 5,5488 2,297 3,215 3,299 3,310 3,299 3,310 3,499 3,310 3,499 3,409 3,400 3	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20 Aiwa AD-F450 Aiwa AD-WX727 Denon DRM-580 Denon DRM-580 Marantz SD-55 Onkyo K 185 Pioneer CT-S250 Pioneer CT-S250 Pioneer CT-S450S Sony TC-KE200 Sony TC-KE200 Sony TC-KE200 Sony TC-KE205 Sony TC-KE205	io nee the ta	120           170           160           200           130           200           130           200           100           200           100           200           100           200           100           200           150
		5,500 200 159 189 375 450 998 998 1,698 110 120 220 455 450 110 120 220 455 455 1,550 1,550 1,988 2,297 3,218 5,488 2,297 3,218 5,488 2,297 3,218 5,488 2,297 3,399 3,399 3,399 6,49 9,999 9,905 2,299 3,307 3,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,000	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450 Aiwa AD-F450 Aiwa AD-K727 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Goddmans Delta 801 Grundig CCF3 JVC TD-W2188K JVC TD-W2188K JVC TD-W3188K Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-5080S Marantz SD-535 Onkyo K 185 Pioneer CT-W205R Pioneer CT-W205R Pioneer CT-W305R Pioneer CT-W305R Pioneer CT-W305R Pioneer CT-S50 Sony TC-KE400S Sony TC-KE400S Sony TC-KE400S Sony TC-WE405 Sony TC-WE405	io nee the ta	120           170           160           200           130           200           100           200           200           100           100           100           100           100           100           200           150           160           120           120           180           180           100           100
		5,500 200 159 189 375 450 998 998 998 998 998 998 998 998 998 99	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £20 Aiwa AD-F450 Aiwa AD-WX727 Denon DRM-580 Denon DRM-580 Marantz SD-55 Onkyo K 185 Pioneer CT-S250 Pioneer CT-S250 Pioneer CT-S450S Sony TC-KE200 Sony TC-KE200 Sony TC-KE200 Sony TC-KE205 Sony TC-KE205	io nee the ta	120           170           160           200           130           200           130           200           100           200           100           200           100           200           100           200           150           180           100
		5,500 200 159 189 375 450 998 998 1,698 110 120 220 455 10 220 455 10 220 455 10 220 455 10 220 149 149 150 250 2,297 3,218 5,498 2,297 3,218 5,498 2,297 3,218 5,498 2,297 3,218 5,498 2,297 3,299 3,399 3,299 3,399 4,400 2,299 3,399 3,299 3,399 3,299 3,399 4,000 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,399 3,200 2,299 3,299 3,299 3,200 2,299 3,299 3,299 3,200 2,299 3,299 3,200 2,299 3,299 3,200 2,299 3,299 3,200 2,299 3,299 3,299 3,200 2,299 3,200 3,	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450 Aiwa AD-F450 Aiwa AD-K727 Denon DRW-580 Denon DRW-580 Sourd CF3 JVC TD-W3188K Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4050 Sony TC-W205R Pioneer CT-W205R Pioneer CT-W205R Pioneer CT-W305R Pioneer CT-W305R Pioneer CT-S50 Pioneer CT-S50 Sony TC-KE400 Sony TC-KE400 Sony TC-WE405 Sony TC-KE400 Sony TC-WE405 Sony TC	io nee the ta	120           170           160           200           130           200           100           200           100           200           100           200           100           200           200           200           200           200           200           200           200           200           200           200           200           150           160           180           180           100           100           100           100           100
		5,500 200 159 189 375 489 998 998 998 998 1,698 110 120 220 495 110 120 220 495 119 149 150 250 375 5,498 2,297 3,75 5,498 1,550 1,998 2,297 3,399 3,399 4,79 995 3,10 1,020 2,50 3,00 1,00 1,00 1,00 2,50 3,00 1,00 1,00 1,00 2,50 3,00 1,00 1,00 2,50 3,00 1,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,00 2,50 3,50 3,50 3,50 3,50 3,50 3,50 3,50 3	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to E20 Aiwa AD-F450 Aiwa AD-WX727 Denon DRM-550 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 JVC TD-W2188K JVC TD-W2188K JVC TD-W2188K JVC TD-W2188K JVC TD-W2188K JVC TD-W2188K JVC TD-W2188K JVC TD-W3188K Kenwood KX-9800 Kenwood KX-9800 Kenwood KX-50805 Marantz SD-53 Marantz SD-53 Marantz SD-53 Marantz SD-53 Marantz SD-53 Marantz SD-53 Marantz SD-53 Sony TC-K200 Sony TC-K200 Sony TC-K200 Sony TC-W205R Pioneer CT-S250 Pioneer CT-S450S Sony TC-K200 Sony TC-K200 Sony TC-W205R Pioneer CT-S450S Sony TC-K200 Sony TC-K200 Sony TC-K200 Sony TC-W205R Pioneer CT-S450S Sony TC-K200 Sony TC-K200 Sony TC-W205R Pioneer CT-S450S Sony TC-K200 Sony TC-W205R Pioneer CT-S450S Sony TC-K200 Sony TC-K2	io nee the ta	I20           120           170           160           200           130           200           130           200           170           170           170           170           170           200           200           200           200           200           200           200           200           200           200           200           200           150           160           180           100           100           170           180           200           200           200           200           150           160           180           100           170           180           200           200           200
		5,500 200 159 189 375 450 998 998 1,698 1,698 110 120 220 455 450 1,500 1,988 2,207 3,218 5,498 2,297 3,218 5,498 2,297 3,218 5,498 2,297 3,218 5,498 2,297 3,399 3,399 6,49 9,999 9,649 9,999 9,905 1,000 2,200 2	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to £200 Aiwa AD-F450 Aiwa AD-K727 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Denon DRW-580 Source CF3 JVC TD-W2188K JVC TD-W2188K JVC TD-W2188K JVC TD-W3188K Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Kenwood KX-4080 Sony TC-W205R Pioneer CT-W205R Pioneer CT-W205R Pioneer CT-W205R Pioneer CT-W205R Pioneer CT-W205R Pioneer CT-W205R Pioneer CT-S50 Sony TC-KE400 Sony TC-KE400 Sony TC-WE405 Sony TC-WE405 Sony TC-KE400 Sony TC-WE405 Sony	io nee the ta	120           170           160           200           130           200           100           200           100           200           100           200           100           200           200           200           200           200           200           200           200           200           200           200           200           150           160           180           180           100           100           100           100           100
		5,500 200 159 189 375 450 998 998 998 1,698 110 120 220 495 119 149 150 250 250 375 5,50 1,998 2,297 1,550 1,998 2,297 339 379 995 330 250 339 379 995 330 410 130 130 130 130 130 130 130 130 130 1	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to 6.200 Aiwa AD-K450 Aiwa AD-K727 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 JVC TD-W2188K JVC TD-W2188K JVC TD-W2188K JVC TD-W3188K Kenwood KC-W4080 Kenwood KC-W4080 Kenwood KC-W4080 Kenwood KC-W4080 Kenwood KC-9800 Kenwood KC-9800 Feace K-610 TEAC K-560 TEAC K-1500 Technics RS-TR373 Technics RS-TR374 Technics RS-TR374	io nee the ta	I20           120           170           160           200           130           200           170           170           170           200           200           170           170           200           200           200           200           200           200           200           200           200           200           200           200           200           150           180           100           100           100           100           100           100           100           100           100           150           180           180           180           180           100           100           100           100           100           100           100           100
		5,500 200 159 189 375 450 998 450 998 450 998 100 220 450 220 450 220 450 220 110 110 220 455 550 1,550 1,550 1,550 1,550 1,550 1,550 2,297 3,218 5,488 5,488 5,488 5,488 5,488 1,098 1,550 1,000 2,297 3,399 3,499 3,499 3,499 3,499 3,499 3,499 3,499 3,499 3,400 4,500 3,218 3,218 3,218 3,218 3,218 3,499 3,399 4,490 3,999 3,400 4,000 2,500 3,100 1,000 2,500 3,100	Image: State of the state	10 needs 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	120           170           160           200           130           200           130           200           120           170           200           120           160           160           160           160           160           160           160           160           150           160           180           180           100
		5,500 200 159 189 375 450 998 998 998 998 998 998 998 998 1,698 450 1,000 250 250 1,998 2,297 3,218 4,550 1,550 1,550 1,550 1,550 1,550 1,550 2,297 3,218 5,548 1,550 2,297 3,218 5,548 1,550 2,599 3,300 4,499 3,300 3,50 3,500 4,499 3,500 3,500 3,500 4,499 3,500 3,500 3,500 4,499 3,500 3,5	KEY - Autoreverse - r remove and turn round 3-H - 3 heads, i.e. se and replay heads. Up to 6.200 Aiwa AD-K450 Aiwa AD-K727 Denon DRM-580 Denon DRM-580 Denon DRM-580 Denon DRM-580 JVC TD-W2188K JVC TD-W2188K JVC TD-W2188K JVC TD-W3188K Kenwood KC-W4080 Kenwood KC-W4080 Kenwood KC-W4080 Kenwood KC-W4080 Kenwood KC-9800 Kenwood KC-9800 Feace K-610 TEAC K-560 TEAC K-1500 Technics RS-TR373 Technics RS-TR374 Technics RS-TR374	10 need 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I20           120           170           160           200           130           200           170           170           170           200           200           170           170           200           200           200           200           200           200           200           200           200           200           200           200           200           150           180           100           100           100           100           100           100           100           100           100           150           180           180           180           180           100           100           100           100           100           100           100           100

HI-FI CHOICE

H

 Aiwa
Dend
Deno
Deno
H/K1
H/K 1
H/K 1 JVC 1
JVC 1
JVC 1
Kenv
NAD
NAD NAD
NAD
Onky
Onky Onky Onky
Onky
Onky Pion
Pion
Pion
Pion
Pion
Sony
Sony
Sony
Sony TEAC
TEAC
TEAC
TEAC
TEAC TEAC
Tech
Tech
Tech
Tech
Yama
Yama
Yama

Aiwa AD-S950		3-н	300	AMC CD9
Denon DRM-650S Denon DRM-740		2.4	230 270	AMC CD8 AMC CD6
Denon DRS-810		3-H 3-H	310	AMC CDM7
H/K TD420 H/K TD450			250 350	Cambridge CD4
JVC TD-V562BK		3-H 3-H	220	Cambridge CD-4SE Cambridge CD6
JVC TD-W718BK JVC TD-V662BK		3-н	250 270	Denon DCD-625 Denon DCD-715
Kenwood KX-7060S		3-H	330	Denon DCD-825
NAD 613 NAD 614			230 270	Eclipse CD30 Eclipse CD50
NAD 616	-		300	Eclipse CD101
Onkyo TA 6210 Onkyo TARW 211	-		230 270	Grundig CDII H/K HD710
Onkyo TARW 311 Onkyo TA 6310			320 330	JVC XL-V120BK JVC XL-V184BK
Onkyo KR 609			350	JVC XL-V284BK
Onkyo KW 606 Onkyo TARW 411	=		370 370	JVC XL-F116BK JVC XL-F216BK
Onkyo K 611		3-H	460	JVC XL-V574BK
Pioneer CT-S550S Pioneer CT-W803RS		3-H	250 300	Kenwood DP-3080 Kenwood DP-M557
Pioneer CT-S830S		3-H	500	Kenwood DP-5060 Marantz CD-46
Pioneer CT-95 Sony TC-KE500S		3-H 3-H	1,000 230	Marantz CD-46
Sony TC-WE805S Sony TC-KE600S		3-н	250 300	Marantz CC-47 NAD 510
Sony TC-KA6ES		3-H	550	NAD 512
TEAC W-850R TEAC V-1030	-	3-н	250 250	Philips CD711 Philips CD721
TEAC W-6000R	+		450	Philips CD751 Philips CDC751
TEAC V-6030S TEAC V-8030S		3-H 3-H	550 650	Pioneer PD-104
Technics RS-TR474 Technics RS-AZ6	+	3-н	220 230	Pioneer PD-204 Pioneer PD-M603
Technics RS-TR575	-	3-11	280	Pioneer PD-S505
Technics RS-AZ7 Yamaha KX-580SE		3-H	300 250	Pioneer PD-F605 Pioneer PD-F25
Yamaha KX-W592 Yamaha KX-690			280	Rotel RCD-930AX Sony CDP-M205
Tamana NA-030		3-H	400	Sony CDP-XE210
		-		Sony CDP-M305 Sony CDP-XE310
				comp con macero
				Sony CDP-CE105
				Sony CDP-CE315
				Sony CDP-CE315 Sony CDP-XE510 Sony CDP-C325M
				Sony CDP-CE315 Sony CDP-XE510
				Sony CDP-CE315 Sony CDP-XE510 Sony CDP-C325M TEAC CD-P1800 TEAC CD-P3450SE TEAC PD-H500
				Sony CDP-CE315 Sony CDP-XE510 Sony CDP-C325M TEAC CD-P1800 TEAC CD-P3450SE TEAC PD-H500 TEAC PD-H500 TEAC PD-D2200 Technics SL-PG38
				Sony CDP-CE315 Sony CDP-XE510 Sony CDP-C325M TEAC CD-P1800 TEAC CD-P34500E TEAC PD-H500 TEAC PD-D2200 Technics SL-PG38I Technics SL-PG48I
				Sony CDP-CE315 Sony CDP-XE510 Sony CDP-XE510 TEAC CD-P1800 TEAC CD-P345052 TEAC PD-H500 TEAC PD-D2200 Technics SL-PG38 Technics SL-PG58 Technics SL-PG68
				Sony CDP-CE315 Sony CDP-XE510 Sony CDP-XE510 TEAC CD-P1800 TEAC CD-P3450SE TEAC PD-H500 TEAC PD-H500 TEAC PD-D2200 Technics SL-PG38I Technics SL-PG38I Technics SL-PG58I
CD PLAYER KEY	RS			Sony CDP-CE315 Sony CDP-XE510 Sony CDP-XE510 TEAC CD-P1800 TEAC CD-P345052 TEAC PD-H500 TEAC PD-D2200 Technics SL-PG38 Technics SL-PG38 Technics SL-PG48 Technics SL-PG58 Technics SL-P577 Technics SL-P577
CD PLAYER KBY D- multiplayer, car	RS 1 be le	Daded		Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE325M TEAC CD-P34505E TEAC PD-H500 TEAC PD-D2200 Technics SL-PG88 Technics SL-PG88 Technics SL-PG58 Technics SL-PG58 Technics SL-P567/ Technics SL-P567/ Technics SL-P567/ Yamaha CDC-565
CD PLAYER KEY D - multiplayer, car with more than one dis	RS n be losc.			Sony CDP-CE315 Sony CDP-XE510 Sony CDP-XE510 TEAC CD-P1800 TEAC CD-P345052 TEAC PD-H500 TEAC PD-D2200 Technics SL-PG38 Technics SL-PG48 Technics SL-PG48 Technics SL-PG58 Technics SL-P577 Technics SL-P577 Yamaha CDX-390 Yamaha CDX-490
CD PLAYER KBY The multiplayer, car with more than one dis [D10 – electrical (coaxia)	RS n be losc.			Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE325M TEAC CD-P34505E TEAC PD-H500 TEAC PD-D2200 Technics SL-PG88 Technics SL-PG88 Technics SL-PG58 Technics SL-PG58 Technics SL-P567/ Technics SL-P567/ Technics SL-P567/ Yamaha CDC-565
CD PLAYER KEY The multiplayer, car with more than one dis 1010 - electrical (coaxia output.	RS 1 be losc. 1) digi	ital		Sony CDP-CE315 Sony CDP-CE315 Sony CDP-XE510 TEAC CD-P1800 TEAC CD-P48005 TEAC PD-945052 TEAC PD-02200 Technics SL-PG38 Technics SL-PG58 Technics SL-PG58 Technics SL-PG587 Technics SL-PS577 Technics SL-PS577 Yamaha CDC-365
CD PLAYER KBY The multiplayer, car with more than one dis [D10 – electrical (coaxia)	RS n be lo sc. 1) digi	ital		Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE325M TEAC CD-P34505E TEAC PD-H500 TEAC CD-P34505E TEAC PD-H500 TEAC PD-D2200 Technics SL-PG38 Technics SL-PG38 Technics SL-PG58 Technics SL-PG58 Technics SL-PG58 Technics SL-PG58 Technics SL-PG58 Technics SL-PG59 Technics SL-PG79 Yamaha CDC-565 Yamaha CDC-565 Yamaha CDC-569 Yamaha CDC-569 Yamaha CDC-590
CD PLAYER CD PLAYER CD PLAYER CD PLAYER CD PLAYER Many multiplayer, car with more than one dis OII0 - electrical (coaxia output. Many players also in optical (Toslink) outp Up to £25	RS 1 be lo sc. 1) digi	ital		Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE325M TEAC CD-P1800 TEAC CD-P34505E TEAC PD-B200 Technics SL-PG38 Technics SL-PG38 Technics SL-PG48 Technics SL-PG58 Technics SL-P587/ Yamaha CDC-565 Yamaha CDC-565 Yamaha CDC-565 Yamaha CDC-565 Yamaha CDC-565
CD PLAYER KEY The multiplayer, car with more than one dis Dilo - electrical (coaxia output. Many players also in optical (Toslink) outp	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE325M TEAC CD-P34505E TEAC CD-04500 TEAC CD-04500 TEAC PD-04500 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-P577 Yamaha CDC-565 Yamaha CDC-565 Yamaha CDC-559 Yamaha CDC-559 Yamaha CDC-590 Yamaha CDC-590 Yamaha CDC-590 Aiwa DX-C100M Arcam Alpha 7 Audio Alchemy ACI
CD PLAYE CD PLAYE KEY The multiplayer, car with more than one dis Dilo – electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-ZE510 TEAC CD-P1800 TEAC CD-P345052 TEAC CD-P345052 TEAC PD-D2200 Technics SL-PG38 Technics SL-PG38 Technics SL-PG48 Technics SL-PG48 Technics SL-PG58 Technics SL-P577 Technics SL-P577 Yamaha CDX-390 Yamaha CDX-390 Yamaha CDX-490 Yamaha
CD PLAYE CD PLA	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE325M TEAC CD-P1800 TEAC CD-P34509E TEAC PD-D4500 TEAC PD-D2200 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-P570 Technics SL-P570 Tech
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE315 TEAC CD-P45000 TEAC CD-P45000 TEAC PD-D2200 Technics SL-PG38 Technics SL-PG48 Technics SL-PG48 Technics SL-PG48 Technics SL-PG48 Technics SL-PG56 Technics SL-P57/1 Technics SL-P57/1 T
CD PLAYE CD PLA	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE315 TEAC CD-C2325M TEAC CD-C2325M TEAC CD-C345005E TEAC PD-D4500 TEAC PD-D4500 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-P577 Technics SL-P577 Technics SL-P5787 Technics SL-P5887 Technics SL-P5887 Technic
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-XE510 Sony CDP-XE510 TEAC CD-P34505E TEAC PD-4500 TEAC CD-934505E TEAC PD-4500 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG89 Technics SL-PG99 Technics SL-PG99 Technic
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE325M TEAC CD-C325M TEAC CD-C325M TEAC CD-C325M TEAC CD-04500 TEAC PD-D2200 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-P507 Technics SL-P507 Technics SL-P507 Technics SL-P507 Technics SL-P507 Yamaha CDC-655 Yamaha CDC-655 Yamaha CDC-655 Yamaha CDC-605 Tachics AL-807 Aiwa DX-C100M Arcam Alpha 7 Audio Alchemy ACI Audioinnov Alto Denon DCD-1015 Grundig CDC14 H/K HD730 H/K FL8300 JVC XL-26748K Kenwood DP-7090 Marantz CD-635E Marantz CD-635E
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-ZE510 TEAC CD-P34505E TEAC CD-P34505E TEAC PD-B500 TEAC PD-D2200 Technics SL-PG48 Technics SL-PG48 Technics SL-PG48 Technics SL-PG58 Technics SL-PG58 Technics SL-P577 Technics SL-P577 Technics SL-P577 Technics SL-P577 Technics SL-P577 Technics SL-P578 Technics SL-P588 Technics SL-P588 Tech
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE325M TEAC CD-C325M TEAC CD-C325M TEAC CD-C325M TEAC CD-04500 TEAC PD-D2200 Technics SL-PG48 Technics SL-PG48 Technics SL-PG48 Technics SL-PG48 Technics SL-PG48 Technics SL-PG48 Technics SL-PG48 Technics SL-P57/ Technics SL-P57/ Technics SL-P57/ Yamaha CDC-655 Yamaha CDX-490 Yamaha CDX-590 Yamaha CDX-590 Aiwa DX-C100M Arcam Alpha 7 Audio Alchemy ACI Arcam Alpha 7 Audio Alchemy ACI Arcam Alpha 7 Audio Alchemy ACI Benon DCD-1015 Grundig CDC14 H/K HD730 H/K FL8300 JVC XL-26748K Kenwood DP-7090 Marantz CD-633E Marantz CD-631E Marantz CD-631E
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE15 Sony CDP-CE15 Sony CDP-ZE510 Sony CDP-ZE510 TEAC CD-P34505E TEAC CD-P4800 TEAC CD-P4800 TEAC CD-D4500 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG87 Technics SL-PG87 Technics SL-PG87 Yamaha CDC-655 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-000 Arcam Alpha 7 Audio Alchemy ACI Obenon DCD-1015 Grundig CDC14 H/K HD730 JVC XL-Z6748K Kenwood DP-7080 Marantz CD-63SE Marantz CD-63SE
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-ZE510 TEAC CD-C325M TEAC CD-C325M TEAC CD-F1800 TEAC CD-H800 TEAC PD-04500 Technics SL-PG88 Technics Technics Te
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-XE510 Sony CDP-XE510 TEAC CD-P34505E TEAC PD-H500 TEAC CD-P4500 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG39 Yamaha CDC-565 Yamaha CDC-655 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-000 Denon DCM-260 Denon DCM-260 DENO
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-ZE510 TEAC CD-C325M TEAC CD-C325M TEAC CD-C325M TEAC CD-D4800 TEAC CD-D4800 TEAC PD-D2200 Technics SL-PG48 Technics SL-PG48 Technics SL-PG48 Technics SL-PG58 Technics SL-PG58 Technics SL-PG58 Technics SL-P577 Technics SL-P577 Technics SL-P577 Technics SL-P577 Technics SL-P578 Technics SL-P588 Technics SL-P
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-ZE510 TEAC CD-734505E TEAC CD-74500 TEAC CD-74500 TEAC CD-74500 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG39 Technics SL-PG39 Technics SL-PG39 Technics SL-PG30 Technics SL-PG30 Techn
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE315 TEAC CD-C2325M TEAC CD-C2325M TEAC CD-C2325M TEAC CD-C34505E TEAC PD-D4500 TEAC PD-D5200 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-P567 Technics SL-P577 Technics SL-P577 Technics SL-P5787 Technics SL-
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-ZE510 TEAC CD-734505E TEAC CD-74500 TEAC CD-74500 TEAC CD-74500 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG39 Yamaha CDC-565 Yamaha CDC-655 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-650 Yamaha CDC-650 Denon DCD-1015 Grundig CDC14 H/K HD730 Denon DCM-260 Denon DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-260 DCM-26
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE315 TEAC CD-C2325M TEAC CD-C2325M TEAC CD-C2325M TEAC CD-C34505E TEAC PD-D4500 TEAC PD-D500 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-P577 Technics SL-P577 Technics SL-P577 Technics SL-P577 Yamaha CDC-565 Yamaha CDC-665 Yamaha CDC-665 Yamaha CDC-695 Yamaha CDC-695 Grundig CDC14 H/K H0730 H/K FL8300 JYC XL-2674BK Kenwood DP-7090 Marantz CD-63SE Marantz CD-719 Marantz CD-63SE Marantz CD-719 Marantz CD-63SE Marantz CD-719 Marantz CD-63SE Marantz CD-719 Marantz CD-719 Marantz CD-719 Marantz CD-719 Marantz CD-719 Marantz CD-719 Marantz CD-719 Marantz CD-719 Marantz CD-719 Marantz CD-63SE Marantz CD-719 Marantz CD
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-ZE510 TEAC CD-734505E TEAC CD-74500 TEAC CD-74500 TEAC CD-74500 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG38 Technics SL-PG39 Yamaha CDC-355 Yamaha CDC-355 Yamaha CDC-355 Yamaha CDC-350 Yamaha CDC-350 Yamaha CDC-350 Yamaha CDC-350 Yamaha CDC-350 Yamaha CDC-350 Yamaha CDC-350 Yamaha CDC-350 Yamaha CDC-350 Yamaha CDC-351 Kit Kenwood DP-7030 Marantz CD-631Kit Micromega Minium Musical Fidelity EU Mas S13 NAD 515 NAD 514 NAD 517 Onkyo CX 7210 Onkyo CM 716 Pioneer PD-7805 Pioneer PD-7805 Pioneer PD-7805
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-CE315 TEAC CD-C2325M TEAC CD-C2325M TEAC CD-C2325M TEAC CD-D4500 TEAC PD-D4500 TEAC PD-D4500 Technics SL-PG88 Technics SL-PG88 Technics SL-PG88 Technics SL-P577 Technics SL-P577 Technics SL-P577 Technics SL-P577 Technics SL-P5787 Technics SL-P
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-ZE510 TEAC CD-C325M TEAC CD-C325M TEAC CD-C325M TEAC CD-C325M TEAC PD-D4500 TEAC PD-D4500 Technics SL-PG88 Technics SL-P
CD PLAYER KEY The multiplayer, can with more than one dis 1010 - electrical (coaxia output. Many players also in optical (Toslink) output Up to £255 Aiwa XC-300 Attacama SE24: a pillar of the hi-fi furmiture	RS 1 be lo sc. 1) digi	ital	150	Sony CDP-CE315 Sony CDP-CE315 Sony CDP-ZE510 TEAC CD-734505E TEAC CD-74800 TEAC CD-74800 TEAC CD-74800 TEAC CD-74800 Technics SL-PG88 Technics Technics T

		TTIL
		10 10 10
		10
4SE		1010 1010
		10
5 5 5		
5		
		10
		10
	≣	
	■	1010
)80 5570	<u> </u>	
060	=>	
		10
	≡•	1010
		10 10 10
		Шıй
		TTA
	=>	10
4		
4 03	=>	
05		10
D5 5		
AX		
5 0		
5 0		
)5	=>	
15 0	=>	
5M	=>	
)	1	
DSE		The
		1010
)	⇒	Ши
380A 5480A		Ши
3380A 5480A 5580A		Ши
3380A 3480A 5580A 0687 0887	là l	
3380A 3480A 5580A 0687 0887 5670A	₽	10
5380A 5480A 5580A 5687 5887 5670A 5670A 5770A 90	₽	
3380A 5480A 5580A 9687 9887 5670A 5770A 90 655	₽	10
3380A 5480A 5580A 5580A 5687 5887 5870A 5770A 90 55 55 50	<b>n</b> n	©10 ₩10
3380A 5480A 5580A 0687 0887 5670A 5770A 50 65 50 65 50 00	ââ <sup>s</sup> ââ	10
3380A 5480A 5580A 6687 75887 5670A 5770A 90 65 55 90	ââ <sup>s</sup> ââ	1010 1010
3380A 5580A 5580A 5580A 5687 770A 5770A 55 90 55 90 55 90 55 90 55	ââ <sup>s</sup> ââ	©10 ₩10
3380A 5560A 5560A 5667 7370A 300 55 55 30 <b>£251 to £</b> 4	ââ <sup>s</sup> ââ	010 010 010
3380A 5460A 5580A 1687 1697 169	ââ <sup>s</sup> ââ	©10 ©10 ©10
3380A 4460A 5580A 1687 18887 5670A 80 55 50 55 50 55 50 55 50 55 50 55 50 62 55 10 55 50 60 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 50	ââ û â â â 500	010 010 010
3380A 5460A 5580A 1687 1697 169	ââ û â â â 500	©10 ©10 ©10 ©10 ©10 ©10
3380A 4460A 5580A 1687 18887 5670A 80 55 50 55 50 55 50 55 50 55 50 55 50 62 55 10 55 50 60 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 00 55 50 50	ââ û â â â 500	(D)10 (D)10 (D)10 (D)10 (D)10 (D)10 (D)10 (D)10 (D)10 (D)10 (D)10 (D)10 (D)10 (D)10
3380A 4460A 5580A 1687 18887 5670A 80 55 50 55 50 55 50 55 50 55 50 60 55 50 60 55 50 60 55 50 60 55 50 60 55 50 60 55 60 60 55 60 60 70 80 80 80 80 80 80 80 80 80 80 80 80 80	10 mm	(D10 (D10) (
3380A 3460A 5580A 1687 16700 1670 1670 1670 16700 1670 1670 1670 1670 1	10 mm	
3380A 5460A 5580A 1687 1687 1687 1687 1687 1687 1687 1687 169	10 mm	
3380A 3460A 5560A 1687 1687 1687 1687 1687 1687 1687 1670A 30 55 30 55 30 55 30 55 30 55 30 55 30 55 30 55 30 55 30 55 55 30 55 55 30 55 55 30 55 55 30 55 55 55 55 55 55 55 55 55 5	10 mm	
3380A 5460A 5580A 1687 1687 1687 1687 1687 1687 1687 1687 1687 169	10 mm	
3380A 3460A 5580A 1687 1687 16887 1670A 1770A 300 55 300 <b>52251 to S:</b> 4 ACD II 5 5 990 155 15 15 15 15 15 15 15 15 1		1010 1010 1010 1010 1010 1010 1010 101
3380A 5460A 5580A 1687 1687 1687 1687 1687 1687 1687 1687 1687 169	10 mm	
3380A 5460A 5580A 1687 1687 1687 1687 1687 1687 1687 1687 1687 169		
3380A 5460A 5580A 1687 1687 1687 1687 1687 1687 1687 1687 1687 169		
3380A 3460A 5500A 1687 1687 1687 1687 1687 1687 1687 1687 1687 1687 169		
3380A 3460A 5560A 1687 1687 1687 1687 1687 1687 1687 1687 1670A 1697 1670A 1697 1670A 1687 1697		
3380A 3460A 5500A 1687 1687 1687 1687 1687 1687 1687 1687 1687 1687 169		
3380A 3460A 5580A 1687 1690 169		
3380A 3460A 550A 1687 1697 1697 16700 1670 1670 1670 1670 1670 1670 1670 1670 1670 167		
3380A 5460A 5580A 1687 1887 1690 169		
3380A 3460A 3460A 3687 1687 1687 1687 1687 1687 1687 1687 1687 1687 1687 1687 1690 1655 1690 155 1690 155 1690 155 1690 155 1690 155 1690 155 1690 155 1690 155 1690 155 1690 155 1690 155 1690 155 1690 155 1690 1690 155 1690 1690 155 1690 1690 155 1690 1690 155 1690 1690 155 1690 1690 155 1690 1		
3380A 3380A 3460A 5580A 1687 1887 1687 1687 1687 1687 1687 1687 1697 1690 155 100 155 100 155 100 155 100 155 100 155 100 155 100 155 100 155 100 155 100 155 100 155 100 155 100 155 100 100		

120 150	Sony CDP-CX200 Sony CDP-X3000ES	≡>	10	380 500	Audiom Audiom
250	TEAC CD-5		-	350	Audiom
250 150	Yamaha CDX-890 £501 to £10	000	1010	350	Cambri Conrad
200	Alchemist Nexus	100	10	579	DPA En
250	Arcam Alpha 8		10	520	Jadis J
200	Audiolab 8000CD		10	1,000	Jadis J
235 240	Creek CD42 Denon DCD-3000		10 10 10	599 1,000	Jadis JI Krell Kl
50	DPA Renaissance int CD		1010	950	Linn Ka
60	Fase Evoluzione Laserdrive 1.0		10	995	Mark L
80 170	Heybrook Signature II Linn Mimik			989 875	Mark L Meracu
200	Marantz CD-17		1010	800	Meridia
110	Micromega Stage 4		1010	600	Microm
120	Micromega Stage 5		1010	750	Micron
140 180	Micromega Stage 6		10	950 598	Monrio Muse N
200	Mission dAD3 Monrio Privilege		10 10 10	995	Orelle
250	Myryad MC100		10	700	Orelle
170	Naim CD3		-	1,000	Pink Tr
250 250	Orelle CD100eA Orelle CD-100eSA		10 10 10	649 999	PS Aud PS Aud
150	Pink Triangle Numeral		1010	999	Resolut
230	Quad 77 Bus			700	Roksan
250	Quad 77 Mains			900	Sonic F
200 250	Roksan Caspian TEAC VRDS-7		10 10	895 599	TEAC V TEAC P
120	TEAC VRDS-9		<b>10</b> 10	700	Theta C
130	TEAC VRDS-10SE		1010	850	Theta D
150	Technics SL-P2000		1010	1,000	Thoren
180 130	Thule CD100 Trichord Genesis		1010	849 549	Trichor
150	Trichord Digital Jukebox 25	=	1010 1010	549 599	Wadia Wadia :
200	Trichord Digital Jukebox 50	=	1010	649	
200	Trichord Digital J'box 100	=>	1010	699	
230 230	Trichord Revelation Over £100	0	1010	799	
180	Alchemist Forseti		1010	1,950	
110	Audio Alchemy ACD Pro		1010	1,395	
120 130	Audio Research CD1			3,290	
130	Audio Research CD1 Audio Research CD2		10	<b>3,290</b> <b>4,100</b>	
150	Audiomeca Talisman			2,150	
180	Audiomeca Talisman SE			2,300	
180	Cary CD-300			2,250	2.37
200	Copland CD277 Copland CDA288			1,800	
200	Krell KPS30i			2,199 5,490	
240	Krell KPS-20i		10	9,990	
250	Marantz CD-17KI		1010	1,300	DIO
120	Marantz CD-23 Mark Levinson 39			4,000	DIG
160	Mark Levinson 39 Meracus Tanto			5,995 1,395	AMC CI
160	Meracus Imago Player			4,495	AMC DA
180	Meridian 506			1,100	AMC CI
200 250	Meridian 508 Meridian 800		10 10	1,685 4,995	Arcam Arcam
130	Micromega Solo			2,750	Audio A
170	Musical Fidelity FCD			1,500	Audio A
170	Naim CD2			2,000	Audio A
220	Naim CDS Orelle CD100eV		ET.I.e.o	3,940	Audio M Audio M
230	Pink Triangle Litaural			1,149 2,099	Audio M
500	Resolution CD50			2,995	Audio F
320	Roksan Attessa-DP3P		10	1,495	Audio F
490 399	Sonic Frontiers SFCD-1 TEAC VRDS-25			3,495	Audio F Audio F
400	XTC CDP-1			1,300 1,250	Audio S
300					Audiola
350					Audion
300 300					Audiom Boulde
300				-	Cambri
300			:		Chord
400			:		Conrad
270 350					Conrad Denon
350					DPA Lit
500			>		DPA Re
400	HA.	-	-		DPA En
<b>300</b> 500					DPA PE DPA PE
290			1		Jadis J
350	00 50 400				Jadis J
370	CD TRANSPO	RIS			LFD DA
100	KEY	-			LFD DA
400 260	1010 — electrical (coaxia	ıl) di	gital		Mark L
400 260 290	output.				Mark L
260 290 380		clud	e an		Mark L
260 290 380 400	Many players also in				Meraci
260 290 380 400 450	Many players also in optical (Toslink) outp	ut.			Maraci
260 290 380 400		out.			Sector Color
260 290 380 400 450 300 330 400		out.	10	800	Meridi Micron
260 290 380 400 450 300 330 400 400	optical (Toslink) outp Arcam Delta 250 Audio Alchemy DDS III	out.	1010	700	Meraci Meridia Micron Micron
260 290 380 400 450 300 330 400 400 460	optical (Toslink) outp Arcam Delta 250 Audio Alchemy DDS III Audio Alchemy DDS Pro	out.	10 10 10	700 1,550	Meridia Micron Micron Monrio
260 290 380 400 450 300 330 400 400	optical (Toslink) outp Arcam Delta 250 Audio Alchemy DDS III Audio Alchemy DDS Pro Audio Research CDTI	out.	10 10 10 10	700 1,550 3,290	Meridia Micron Micron
260 290 380 400 450 300 330 400 400 460 300	optical (Toslink) outp Arcam Delta 250 Audio Alchemy DDS III Audio Alchemy DDS Pro	out.	10 10 10	700 1,550	Meridia Micron Micron Monrio Muse M

udiomeca Damnation SE	<b>D</b> 1	0 1,100
udiomeca Kreatura SE	101	
udiomeca Mephisto ambridge Discmagic One	101 101	
Conrad-Johnson DR-1	<b>D</b> 1	0 1,795
PPA Enlightenment Drv adis JD3	101 101	
adis JD2	1	0 4,990
adis JDI Grell KPS-20t	01 01	0 12,500 0 8,490
linn Karik	101	
lark Levinson 37 lark Levinson 31.5	101 101	
Aeracus Imago	101	
Aeridian 500	01	
Aicromega Drive 3 Aicromega Data	101 101	1
Ionrio Bitmatch Iuse Model 5	101	
Irelle CD100eTl	101 101	
Freile CD100eT2 Pink Triangle Cardinal II	1	and the second s
<sup>PS</sup> Audio Lambda TR	101 101	and the second se
PS Audio Lambda AT&T Resolution T30	[[]]1	0 2,778 0 6,500
Roksan Attessa-DP3	101	0 1,295
Conic Frontiers SFT-1 TEAC VRDS-T1		0 2,295 0 550
EAC P-30	101 101	0 2,500
<mark>(heta Digital Data Basic II</mark> heta Digital Data III NTSC/PAL		
horens TCD-2000	101 101	
richord Digital Turntable	101	<b>a</b> 699
Vadia 8 Vadia 20	101 101	<b>3,195</b> <b>4,370</b>
Carlos and and and		
IIIOOIO	0101	3
1100110	010 1111 1001	
	OIO IIIII IOOI ERTERS (	DACs)
DIG-ANALOGUE CONV	OIO IIIII IOOI ERTERS (	DACs) 100
DIG-ANALOGUE CONV	OOIO IIIII IOOI ERTERS (	100 130
DIG-ANALOGUE CONV INC CDM7DAC INC CDM7DAC INC CDM7VAC INC CASS INC COM7VAC	OOIO IIIII IOOI ERTERS (	100 130 200 480
DIG-ANALOGUE CONV INC CDM7DAC INC DACM7VAC Incam Black Box 50 Incam Black Box 50	OIO IIIII IOOI	100 130 200 480 750
DIG-ANALOGUE CONV INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7VAC Ircam Black Box 50 Ircam Black Box 50 Ircam Black Box 50 Ircam Black Box 50 Ircam Black Box 50	OIO IIIII IOOI	100 130 200 480 750 150 596
DIG-ANALOGUE CONV MC CDM7DAC MC CDC3 MC CDM7VAC Ivcam Black Box 50 Ivcam Black Box 50 Ivc	OOIO IIIII IOOI	100 130 200 480 750 150 596 699
DIGPANALOGUE CONV INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7VAC Ircam Black Box 50 Ircam Black Box 50 Irca	OQIO IIIII IOOI	100 130 200 480 750 150 596 699 675 1,099
DIG-ANALOGUE CONV MC CDM7DAC MC CDA7DAC MC CDA7DAC MC CDA7VAC Vircam Black Box 50 Vircam Black Box 50 Virc	OOIO IIIII IOOI	100 130 200 480 750 150 596 699 675
DIGPANALOGUE CONV INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC Incam Black Box 50 Ircam Black Box 50 Irca	OOIO IIIII IOOI	100 130 200 480 750 150 596 699 675 1,099 1,750 2,148 2,335
DIG-ANALOGUE CONV MC CDM7DAC MC DAC8 MC CDM7DAC MC CDA7VAC Virtam Black Box 50 Virtam	OQIO IIIII IOOI	100 130 200 480 750 150 596 699 675 1,099 1,750 2,148
DIGPANALOGUE CONV INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC Incam Black Box 50 Ircam Black	OQIO IIIII IOOI	100 130 200 480 750 150 596 699 1,750 2,148 2,355 4,195 4,555 2,195
DIG-ANALOGUE CONV MC CDM7DAC MC DAC8 MC CDM7DAC MC CDAC9 MC CDM7VAC Vicram Black Box 50 Vicram Black Box 5	OQIO IIIII IOOI	100 130 200 480 750 150 596 699 675 1,099 1,750 2,148 2,335 4,195 4,555
DIGPANALOGUE CONV INC CDM7DAC INC CDM7DAC	OQIO IIIII IOOI	100 130 200 480 750 150 699 675 1,099 675 1,750 2,148 2,335 4,195 4,555 2,195 900 799 1,850
DIG-ANALOGUE CONV MC CDM7DAC INC DAC3 MC CDM7DAC INC DAC3 MC CDM7VAC Incram Black Box 50 Incram Black Box	OQIO IIIII IOOI	100 130 200 480 750 596 675 1.099 675 1.750 2.148 2.335 4.195 2.148 2.555 2.195 2.195 900 799 1.850 25,000 150
DIGPANALOGUE CONV INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC Incam Black Box 50 Ircam Black Box 50	OOIO	100 130 200 480 750 596 699 675 1,099 1,750 2,148 2,335 4,195 2,148 2,195 900 799 1,850 25,000 25,000 3,850
DIG-ANALOGUE CONV DIG-ANALOGUE CONV MC CDM7DAC MC DACB MC CDM7VAC Vircam Black Box 50 Vircam Black Box 50 V	OOIO	100 130 200 480 750 596 999 675 1,099 1,750 2,148 2,335 4,195 2,195 2,195 2,195 2,195 2,555 2,195 2,555 2,195 2,555 2,195 2,555 2,195 3,850 1,195 3,850 1,990
DIGPANALOGUE CONV INC CDM7DAC MC DAC8 MC DAC8 MC CDM7DAC MC CDM7DAC Incom Black Box 50 Ircam Ircam Black Box 50 Ircam Ircam	OQIO	100 130 200 480 750 596 675 1,099 1,750 2,148 2,335 4,195 4,555 2,195 900 799 1,850 25,000 1,50 25,000 1,50
DIG-ANALOGUE CONV MC CDM7DAC MC DACB MC CDM7DAC MC CDA7DAC MC CDA7DAC MC CDA7VAC Vircam Black Box 50 Vircam Black Box 50 Virca	OQIO IIIII IOOI	100 130 200 480 750 596 999 675 1,099 1,750 2,148 2,335 4,195 2,148 2,335 4,195 2,195 2,195 2,555 2,195 2,555 2,195 3,850 1,50 3,850 1,990 1,50 3,000 5,70
DIGEANALOGUE CONV INC CDM7DAC MC DAC8 MC DAC8 MC DAC8 MC CDM7DAC Incom Black Box 50 Ircam Johnson DAC1 Ircam Black Box 50 Ircam Johnson D/A-3 Ircam Johnson J/A-3 Ircam Johnson J/A-3 Ir	OOIO	100 130 200 480 750 596 675 1,099 1,750 2,148 2,335 4,195 2,148 2,335 2,148 2,148 2,555 2,195 900 1,850 25,000 150 3,850 1,195 1,990 1,500 3,850 1,995 1,990 1,900 2,500
DICE CONTRAC INC	OOIO IIIII IOOI	100 130 200 480 750 596 999 675 1,099 1,750 2,148 2,335 4,195 2,148 2,335 4,555 2,195 2,555 2,195 2,555 2,195 1,555 2,555 2,555 3,850 1,990 1,50 300 570 8,255 3,6250
DIGPANALOGUE CONV INC CDM7DAC MC DACB MC CDM7DAC MC CDM7DAC MC CDM7DAC MC CDM7DAC Instructure MC CDM7DAC MC CDM7DAC	OOIO IIIII IOOI	100 130 200 480 750 596 699 675 1,099 1,750 2,148 2,335 4,195 2,148 2,135 4,195 2,195 900 25,000 1,850 25,000 1,950 3,850 1,195 3,000 5,750 3,000 2,00
DIG-ANALOGUE CONV MC CDM7DAC MC DACB MC DACB MC CDM7VAC Incram Black Box 50 Incram 50	OOIO IIIII IOOI	100 130 200 480 750 596 699 675 1,099 1,750 2,148 2,335 4,195 2,148 2,335 4,555 2,195 2,555 2,195 1,555 2,195 1,555 2,555 2,195 1,550 2,500 2,129 2,129 8,068 2,500 2,129 8,068
DIG-ANIALOGUE CONV MC CDM7DAC MC DAC8 MC DAC8 MC CDM7DAC MC CDM7DA	OOIO IIIII IOOI	100 130 200 480 750 699 675 1,099 1,750 2,148 2,335 4,195 2,148 2,148 2,335 4,195 2,195 900 25,000 1,555 3,850 1,195 3,850 1,950 3,000 2,500
DICE ANALOGUE CONV MC CDMTDAC INC CDMTDAC INC CDMTDAC INC CDMTDAC INC COMTVAC Incam Black Box 50 Incam Black	OOIO IIIII IOOI	100 130 200 480 750 596 999 675 1,099 1,750 2,148 2,335 4,195 2,148 2,335 4,195 2,195 2,195 2,195 1,555 2,195 1,555 2,195 3,850 1,990 1,500 3,095
DIG-ANIALOGUE CONV MC CDM7DAC MC DACB MC DACB MC DACB MC COM7DAC Instructure MC COM7DAC MC CDM7DAC MC COM7DAC MC COM7DAC	OOIO IIIII IOOI	100 130 200 480 750 699 675 1,099 1,750 2,148 2,335 4,195 2,148 2,335 4,195 2,148 2,148 2,148 2,148 2,148 2,148 2,148 2,148 2,148 2,148 2,148 2,148 2,100 3,850 2,500 3,650 6,250 3,650 6,250 3,650 6,250 2,229 8,068 1,500 3,900 5,0000 5,0000 5,0000 5,00000000
DICEDANALOGUE CONV MC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7VAC Incam Black Box 50 Incam Bla	OOIO IIIII IOOI	100 130 200 480 750 596 675 1,099 1,750 2,148 2,335 4,195 2,148 2,335 4,195 2,195 2,195 2,195 3,655 2,195 3,655 2,195 3,655 2,190 1,500 3,995 7,995 1,295
DIG-ANIALOGUE CONV MC CDM7DAC MC DAC8 MC DAC8 MC CDM7DAC MC DAC8 MC CDM7DAC Instructure MC CDM7DAC MC CDM7DAC MC CDM7DAC MC CDM7DAC MC CDM7DAC MC CDM7DAC MC DAC9 MC CDM7DAC MC DAC9 MC DAC9 M	OOIO IIIII IOOI	100 130 200 480 750 699 697 1,099 1,750 2,148 2,335 4,195 2,148 2,335 4,195 2,195 900 799 1,850 25,000 1,505 3,850 1,955 3,850 6,250 2,108 3,000 5,250 2,109 3,000 5,250 2,500 1,500 3,905 1,5950 2,495 2,495 3,650 2,595 3,650 2,595 3,650 2,595 3,650 2,590 2,595 3,650 2,595 3,650 2,595 3,650 2,595 3,650 2,595 3,650 2,590 2,595 3,650 2,595 3,595
DICEDANIALOGUE CONV MC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7DAC INC CDM7VAC Incam Black Box 500 udio Alchemy DAC Man udio Alchemy DDE 1.2 udio Research DAC3 udio Research DAC3 Research DAC3	OOIO IIIII IOOI	100 130 200 480 750 596 675 1,099 1,750 2,148 2,335 4,195 2,148 2,335 4,195 2,195 2,195 150 3,850 1,990 150 3,850 1,990 150 3,000 4,255 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 2,129 1,950 1,950 1,950 2,129 1,950 1,950 1,950 1,950 2,129 1,950 1,950 1,950 2,129 1,950
DIGPANIALOGUE CONV MC CDM7DAC MC DAC8 MC DAC8 MC DAC8 MC CDM7DAC Imam Black Box 50 Ircam Johnson D/A-3 John Color 20 Ircam Black Box 50 Ircam Johnson D/A-3 John Color 25 Irca Johnson Johnson J/A-3 John Color 25 Irca Johnson John	OOIO IIIII IOOI	100 130 200 480 750 699 675 1.099 1.750 2.148 2.335 4.195 2.148 2.335 4.195 2.148 2.335 2.195 900 799 1.850 25,000 1.50 3.850 1.195 3.850 1.950 3.050 6.250 8.068 1.950 3.000 1.500 3.995 1.5950 1.295 2.495 1.995 1.5950 1.295 2.495 1.095 7.500 2.000 3.850
DIGEANALOGUE CONV INC CDM7DAC INC CDM7DAC	OQIO IIIII IOOI ERTERS (	100 130 200 480 750 596 675 1,099 1,750 2,148 2,335 4,195 2,148 2,335 4,195 2,195 900 1,550 2,129 1,850 25,000 1,500 3,850 1,990 1,500 3,850 2,129 8,068 3,000 4,250 2,129 8,068 1,990 1,500 3,000 1,500 2,129 8,068 1,995 1,995 1,295 2,495 1,295 2,495 1,295 2,405 2,105 3,000 2,105 2,105 3,000 2,105 2,105 3,000 2,105 2,105 2,105 3,000 2,105 2,005 2,0
DIGPANIALOGUE CONV MC CDM7DAC MC DACB MC DACB MC DACB MC CDM7DAC MC DACB MC CDM7DAC MC DACB MC CDM7DAC MC CDM7DAC MC CDM7DAC MC DACB MC DACB M	OOIO IIIII IOOI	100 130 200 480 750 596 675 1.099 675 1.099 675 2.148 2.335 4.195 2.148 2.335 2.195 900 799 1.850 2.5000 1.50 3.850 1.195 3.850 1.990 1.50 3.850 1.50 3.850 1.50 3.850 2.129 8.068 1.950 2.129 8.068 1.950 1.500 3.995 7.995 1.5950 1.295 2.495 1.095 7.500 2.000 8.75 2.190 3.30
DIGEANALOGUE CONV INC CDM7DAC INC CDM7DAC	OQIO IIIII IOOI	100 130 200 480 750 596 675 1,099 1,750 2,148 2,335 4,195 2,195 2,195 799 1,850 25,000 150 3,850 1,950 150 3,850 1,990 150 3,000 4,255 2,129 8,068 1,950 2,129 8,068 1,950 2,129 8,068 1,950 1,555 2,129 8,068 1,950 1,555 2,129 8,068 1,950 2,129 8,068 1,955 2,129 8,068 1,955 2,129 8,068 1,955 2,129 8,068 1,955 2,129 8,068 1,955 2,129 8,068 1,955 2,129 8,068 1,955 2,129 8,068 1,955 2,129 8,068 1,955 2,129 1,955 2,129 8,068 1,955 2,129 8,000 1,550 2,129 8,050 8,050 2,129 8,050 2,295 8,050 2,295 8,050 2,295 8,050 2,295 8,050 2,295 8,050 2,295 8,050 2,295 8,050 2,295 8,050 2,295 2,295 2,295 2,200 2,295 2,200 2,2



Maxell HP-1000 Maxell HP-2000

D D

xell HP-3000	D		30	Sony MDR-CD1700
neer SE-A40 neer SE-A20V	D		20 23	Stax SR-0001 Stax SR-Lambda Nova C
neer SE-M250	D		25	Stax Lambda Nova Basic
neer SE-M350 Inheiser HD56	D		30 18	Stax SR-Lambda Nova S Stax Omega
nheiser HD435 Vegas	D	-	30	Stax SR-Omega Ref
inheiser HD435 Manhattan Inheiser HD60TV	D D	40	30 40	Technics RP-HT400 Technics RP-HT600
y MDR-W20G	D		18	Technics RP-HT700
IY MDR-E837 IY MDR-009TV	D	40	18 20	Vivanco IR5700 Vivanco IR5000
IY MDR-A34L	D	-	20	Vivanco SR850
IY MDR-E848 IY MDR-CD170	D	40 101	20 20	Vivanco SR650 Vivanco SR750
y MDR-ED238	D	-	25	Vivanco IR6000
IV MDR-P1TV IV MDR-CD270	D		25 30	Vivanco SR909 Vivanco IR6500
WDR-E868	D	-	35	Vivanco SR10001FL
y MDR-IF120 y MDR-CD370	D		35 40	Vivanco IR7100 Vivanco IR7600
hnics RP-HT280	D		30	Vivanco SR200IFL
hnics RP-HT300 anco SR250	D		40 19	
anco SR150	D		20 25	
anco SR200 anco SR300	D		25 30	
Over £41 ; K301	2002020-0-0-0	40	80	
K222IR	D		100	
i K401 i K501	D	40	120 150	
K333IR	D		150	
i K444IR i K290S	D		180 250	
K1000	D	-	700	
io Technica ATH910PRO er DT311	D		90 57	A State of the Sta
er DT411	D		69	
er DT331 er DT431	D	** **	82 98	EQUIPMENT SU
er IRH890	D	-	117	SPEAKER ST
er DT511 er DT531	D	*	117 135	Arcici Q-1 Arcici Q-2
er DT770 Pro	D	-10	152	Atacama BD21
er DT100 er DT801	D	40	152 172	Atacama BD17 Atacama BD25
er DT990 Pro	D	-	187	Atacama SE16
er DT811 er IRS890	D	40	200 222	Atacama SE12 Atacama SX500
er DT901	D	-	222	Atacama F2
er D <b>T911</b> on AH-D210	D	<b>₩</b>	235 45	Atacama F1 Atacama SX600
on AH-D350	D		65	Atacama SL200 Atacama SE24
on AH-D550 on AH-D650	D		80 95	Atacama SE20
on AH-D750 on AH-D950	D D		130 150	Atacama SX700 Atacama SL300
do SR40	D	-	45	Atacama TP600
do SR80 do SR225	D D	40 40	100 200	Atacama TP500 Atacama SE615
din Float Model 1	D	-	79	Atacama SE515
din Float Model 2 din Float ELS	D E	4 <u>0</u>	99 399	Atacama SE415 Atacama SL400
HA-D727	D		43	Atacama SE1000S
HA-D910 HA-D1000	D		65 250	Chord CEL 01 Credo STD 001
HA-F25	D		699	Deadrock 903
wood KH-5000 side Ergo Model 1	D		70 120	Deadrock 902 Deadrock 901
tide Ergo Model 2 Theiser HD445	D	*	140 45	Harbeth HL-Stands Heybrook Stand-HY
nheiser HD455	D D	-	55	Heybrook Stand-SX
nheiser HD465 nheiser IS360/UK	D D	**	65 70	Heybrook Stand -S6 Heybrook Stand-S4
nheiser HD475	D	40	80	JPW HS1
nheiser HD25 SP nheiser HD535	D		90 105	JPW HS2 Kudos Audio Arrow
nheiser IS450	D		120	Kudos Audio S-50
nheiser HD545 Ref nheiser HD25011	D D	*	125 150	Kudos Audio S-100 Pioneer CP-7
theiser HD565 Ovat'n	D		150	Pioneer CP-8 QLN Signature
nheiser HD265 Linear nheiser HD25-13	D D		150 160	QLN Signature
nheiser HD25 nheiser HDC 451-1	D		160 166	Revolver RS1 Royd Royd
heiser HD 580 P'cision	D D	40	200	SD Acoustics SD Alexander
nheiser HD600 nheiser IS850	DDD	40	250 859	Silverado Silverado 1 Stand Sonus Faber Ironwood
theiser HE60/HEV70	E	-	998	Sonus Faber Stonewood
heiser Orpheus MDR-IF50K	E D	**	9,652 50	Sound Org Z037 Sound Org Z027
MDR-IF120K	D		50	Sound Org Z026
MDR-CD470 MDR-E888	D D		50 55	Sound Org Z128 Soundstyle X6118
MDR-CD570	D	1	70	Soundstyle X6124
MDR-IF320RK-MK2 MDR-CD770	D D		80 100	Soundstyle X020 Stands Unique Speaker support
MDR-NC5	D	40	100	Stands Unique Tuned Steel
MDR-D77 MDR-NC20	D D		130 150	Stands Unique Tuned Carbon Fibre UKD-Opera S2
MDR-NC10	D	40	150	UKD-Opera S1

280

450

1,695

1,700

E E

E

E D D

D D D D D D D

MD

Sharp MD-R1E

Equipment Supports Audiophile Base 01	79	Townshend S/Sink Stand 2SH     1,199     Jamo Cornet 35     P     Image: Cornet 35     Image:	
Audiophile S4T120	280	Wilson Benesch Triptych 990 Jamo D-115 😐 🖸 120 Boston CR7 🖳 🖸 19	99
Audiophile Furniture Base	480	Jamo 28 😐 🖸 125 Boston Runabout II 😐 🖸 2	
Audiophile S4T120P	560	JBL TLX111     P     I20     Celestion 15i     P     I12       JPW Mini Monitor     P     I20     60     Cerwin-Vega CT-165     I20     2	
Deadrock 701 Deadrock 802	60 90	JPW Gold Monitor <u>=</u> 0 80 Denos SC-1313 <u>=</u> 0 1	
Deadrock 703	130		10
Deadrock 704	190	JPW ML210 9 0 80 Gale 4i 🚽 🖸 1-	
Deadrock 705	230	JPW ML310 90 Gale 3s 9 0 1	
DNM DOMOWS	125		10
DNM DOMOPS	125	JPW IW61         →         ⊡         100         GLL Arena SW         ₽         ⊡         11           JPW IW81         →         ⊡         130         GLL Imagio IC100         ₽         ⊡         1	
Fi-Rax R4 Impulse Iso-plate	399 190		
JPW MS2	45	JVC SX-SC1VBK 😐 🖸 60 Heybrook Prima 😐 🖸 1	39
JPW MS3	55		99
JPW MS1	80		50
JPW 3 Tier JPW 5 Tier	80 100	JVC SP-X550BK <u>+</u> O 130 Infinity Reference 1i <u>P</u> O 1 MEF Coda 7 <u>P</u> O 129 Infinity Reference 11i <u>P</u> O 2	
Kudos Audio Corinthian	600	Mission 731i 🛛 130 Interaudio XL2000 🖳 🖸 14	10
Linn K3000	85		
Mana Sound Frame	125		00 10
Mana Mini Table Mana Power supply table	150 150		10
Mana Reference flat top	150	requiring no separate stand. Polk AB410 g o 100 Jamo 560 🚽 o 1	50
Mana Sound Shelf	175	🖁 – stand mount; smaller models Realistic Minimus 26 😐 🖸 56 Jamo 660 🛨 🖸 14	
Mana Sound Base	175	Realistic Minimus Pro-77 🖳 🖸 100 Jamo Studio 180 🛨 🖸 1	30 30
Mana Sound Stage Mana Sound Table	200 235		00
Mana Sound Table Mana Ref Shelf	325	on the wall or mounted in-wall.	
Mana Reference Table	350	Sony SS-86E 🖳 🖸 100 Jamo Cornet 65 🚽 🖸 2	00
Mana 2 Tier Amp stand	375	C - box type, including infinite baffle, Somy SS-126E g 0 130 JBL TUX121 g 0 1	
Mana 3 Tier Amp Stand Mana 4 Tier Amp Stand	450 500	ronox una tranomisoron mile types.	70 00
Mana 5 Tier Amp Stand	500 600	Lu - norn type; mostly large and very Tangent Monitor 7 9 0 100 KEF Coda 8 9 0 1	B9
Mana 6 Tier Amp Stand	700	Efficient.         TDL Nucleus 1         P         G         60         KEF Q15         P         D         1	99
Optimum G2	55	D - panel type, including electrostatic TOL NFM 1 P D 120 KEF Model 60S P D 1 TEAC LS-X8 Mk II R D 80 Kenwood LS-200G R D 2	
Optimum G2P Optimum G4P	85	and planar magnetic funer	00
Optimum OPT 3406	130 149		10
Optimum G5P	150		50
Optimum OPT 4906	199	Allison Mini References <u>P</u> 120 Wharfedale Valdus 100 <u>P</u> 80 Mordaunt-Short VS-300 <u>P</u> 2	00
Optimum OPT 6606	199	Bose XL1000         g         130         Wharfedale Diamond 7.1         g         D         100         Mordaunt-Short MS20i         g         D         2           Celestion 12i         g         119         Wharfedale Diamond 6R         g         D         110         Pioneer CS-5030         g         D         1	00 70
Optimum OPT 10206 Optimum AV 300	299 299		30
Optimum OPT 340	299	Gale Mini Monitors 🗉 🖸 70 Wharfedale Modus Micro 😐 🖸 110 Polk RT3 💻 🖸 2	00
Optimum OPT 490	349	Genexica GX300 g 01 K 02 K 131 to £200 Polk A6510 g 02 2	
Optimum OPT 440 Optimum OPT 700	349 399	Geneoxa GX330         P         B0         Acoustic Energy AE100         P         C         200         QLN Projekt A3         P         C         1           GLL Arena HF         P         O         99         Allison Model 4A         P         O         170         QLN Projekt A4         P         O         170	
Optimum OPT 660	399		00
Optimum OPT 1020	449	Interaudio XL1000 😐 🖸 100 B&W CWM5 🚽 🖸 170 Rega Kyte 👱 🖸 1	98
Optimum OPT 1190	499	Jamo Studio-80 <u>P</u> 0 70 88W DM601 <u>P</u> 0 199 Revolver Colt <u>P</u> 0 1	
QLN A3 QLN Modulus	125 125		9 99
QLN A4	165	Jamo SAT-90 $\rightarrow$ 0 90 Bose XL2000 9 200 Revolver Purdey Mikil 9 0 1 Jamo Cornet 25 9 0 100 Boston CR6 9 0 149 Richard Allen Minette 3 1 0 1	
QLN A5	205	Jamo Studio-110 😐 🖸 100 Boston 325 🛨 🖸 149 Richard Allen Dim'n 5/1 Compact 👱 🖸 1	79
QLN A6	245	Jamo D-110         g         100         Boston Micro 80 Sat         g         I69         Richard Allen RA6         g         I           Jamo SAT-170         p         10         Boston Runabout         g         I69         Richard Allen RA6         g         0         1	99 19
Quadraspire Q4 mini shelf Quadraspire Q4 shelf	60 60	Jamo SAT-170 P . 110 Boston Runabout P 169 Rogers LS1 P 1	19
Quadraspire Cabinet shelf	80		
Quadraspire AV shelf	120		
Quadraspire Q4 mini table Quadraspire Q4 table	200 200		
Quadraspire AV table	300		
Quadraspire Cabinet	400		
Sound Org Z022	65		
Sound Org Z021 Sound Org Z030	78 100		
Sound Org 2000	120		
Sound Org Z038	135		
Sound Org Z560	160		
Sound Org Z530 Soundstyle X300	170 180		
Soundstyle X300	210		
Soundstyle X053	210		
Soundstyle X050	210		
Soundstyle X6300 Soundstyle X100	215 220		
Soundstyle X100 Soundstyle X058	220		
Soundstyle X310	250		
Soundstyle X120	250		
Soundstyle X105 Soundstyle X6053	250 255		
Soundstyle X6000	255		
Soundstyle X6310	275		
Soundstyle X6058	290		
Soundstyle X6105			
	300 239		
Stands Unique Sound Support Stands Unique Midi Tower	239 249		
Stands Ünique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact	239 249 299		
Stands Ünique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact Stends Unique 10mm Sound Support	239 249 299 299		
Stands Unique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact	239 249 299	You must listen toMission's 731i.	
Stands Ünique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact Stends Unique 10mm Sound Support Stands Unique High AV Stands Unique Witimate Tower Stands Unique RMS Reference	239 249 299 299 349 649 799		
Stands Ünique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact Stands Unique 10mm Sound Support Stands Unique High AV Stands Unique High AV Stands Unique RMS Reference Stands Unique RMS Reference System Tripod Z053	239 249 299 349 649 799 135	You must listen toMission's 731i.	
Stands Ünique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact Stands Unique 10mm Sound Support Stands Unique High AV Stands Unique Ultimate Tower Stands Unique RMS Reference System Tripod 2053 System Tripod 2050	239 249 299 349 649 799 135 135	You must listen toMission's 731i. "A combatant truly worthy of the	
Stands Ünique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact Stands Unique 10mm Sound Support Stands Unique High AV Stands Unique High AV Stands Unique RMS Reference Stands Unique RMS Reference System Tripod Z053	239 249 299 349 649 799 135	You must listen toMission's 731i.	
Stands Ünique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact Stands Unique 10mm Sound Support Stands Unique High AV Stands Unique Ultimate Tower Stands Unique RMS Reference System Tripod ZO50 System Tripod ZO50 System Tripod ZO58 Target 85 Townshend Seismic Sink 1CD	239 249 299 349 649 799 135 135 155 175 99	You must listen toMission's 731i. "A combatant truly worthy of the	
Stands Ünique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact Stands Unique 10mm Sound Support Stands Unique High AV Stands Unique RMS Reference System Tripod 2053 System Tripod 2050 System Tripod 2058 Target 85 Townshend Seismic Sink 1.20 Townshend Seismic Sink 1.30	239 249 299 349 649 799 135 135 135 155 155 175 99 399	You must listen toMission's 731i. "A combatant truly worthy of the budget speaker challenge". Alan Sircom, Hi-Fi Choice, July/August 1996. Call (01480 451777) for more	
Stands Ünique Sound Support Stands Unique Midi Tower Stands Unique 10mm Compact Stands Unique 10mm Sound Support Stands Unique High AV Stands Unique Ultimate Tower Stands Unique RMS Reference System Tripod ZO50 System Tripod ZO50 System Tripod ZO58 Target 85 Townshend Seismic Sink 1CD	239 249 299 349 649 799 135 135 155 175 99	You must listen toMission's 731i. "A combatant truly worthy of the budget speaker challenge". Alan Sircom, Hi-Fi Choice, July/August 1996.	

Royd The Herald Sequence 200 Solid Monitor Sony SS-176E	the the second s	0000	198 199 200 200	Visonik SUB5 Wharfedale MFM1 Wharfedale Modus Music Six Wharfedale Valdus 500		0	250 280	Rogers dB101: the s thinks it's a McLare			at		1		
Tangent Monitor 9 Tangent Monitor 11 Tannoy Mercury M2	₽ ₽	•	150 180 140	Yamaha NS10M ZYP A1T ZYP A2S		0	300 219 275					A			
Tannoy Profile 631 Tannoy Profile 631SE	8 8	•	149 169	E301 to		٥									
Tannoy Profile Plus 632 TDL RTL 1	8	0	199 200	Acoustic Energy AE109 Allison Model 2A	*	٥	420						6		
Technics SB-CS95 Technics SB-M20	8		150 200	AudioInnov Alto B&O Beovox CX50	9 9	•	325			1	10073	N	Boses		
Visonik 6003 Visonik 5001	8		143 170	B&O Beovox CX100 B&O Beovox RL6000	8		425 470						C	1	
Wharfedale Diamond 7.2 Wharfedale Modus Mini	E	0	140 140	B&W CWM8i B&W DM305	±	•	350 350		Shee		1				
Wharfedale Valdus 300 Wharfedale Modus Music Two	8		150 170	B&W DS6 B&W CDM2	B		400 400				-				
Wharfedale Modus Music Four Wharfedale Valdus 400	E ±		200 200	B&W DM603 B&W Signature 7	Ŧ		500 500						11	/	
Wharfedale Diamond 7.3 ZYP A1	8		200 200 199	Bandor Pictures Blue Room Mini Pod	÷	٥	352 400								
£201 to £3	and the second sec	U		Bose 301 VM	R	0	380	and the second s					*3		
Audio Gem Opal B&W CWM6i	₽ <b>→</b>	0	230 280	Bose 305 Bose A'mass AM3 II	8	0	<b>430</b> 500	it.			1	1	- 30		
BAW DM602 Bose XL3000	8 8	•	300 230	Bose 401 Boston Micro 90 Sat	<b>±</b> ₽	•	500 369	and the second s		í.	100				
Bose 151 Environmental Bose 161 Freestyle	R	0	270 275	Boston Micro 80 Sys Boston VR20	주 주		369 380				1	Cooce (			
Bose 201 Ser III Bose XL4000	8	0	290 295	Castle Tay Castle Eden	8	0	329 449				1	anna airte			
Boston 361 Boston CR8	÷	0	219 239	Celestion 25i Celestion 30i	т Т	0	399 449	Phone and a second s	-	90		Carlot Co.	-	-	
Boston 381 Boston CR9	*	0	259 279	Celestion 35i Cerwin-Vega VS-10	번 전 도		499 350	Prof Monitor Co TB1S Prof Monitor Co TB1SM	8 8	0	366 403	Dali 109 Dawn Audio Chorus FS	번	0	800 698
Boston Voyager Castle Isis	8		279 299 229	Clements 300si Dali 1048	8	٥	395 370	Prof Monitor Co TB1 Prof Monitor Co TB1M		0	<b>410</b> 447	Def Tech BP6B Epos ES14	Ŧ	0	750 675
Celestion 23i	R	٥	299	Dali Royal	취 파	0	500	Prof Monitor Co XB1 QLN Projekt B4	8		499 320	Faraday FS10 GLL Imagio IC130	¥I Ť		795 530
Cerwin-Vega VS-8 Cerwin-Vega CT-330	₽ ₽	0	250 300	Dawn Audio Chorus BS Def Tech Celsius	2 2	0	482 395	QLN Projekt B3ii QLN Projekt C3	E		329 330	Harbeth BBC LS3/5A Harbeth HL-P3ES			699 799
Dali 102B Dali 150	8 8	0	260 300	Epos ES12 Faraday SG	묘	0	<b>499</b> 345	QLN Projekt B MULTI	E		330	Heybrook Quartet	2		575
Faraday FS1 Gale 5B	₹ ∎	0	245 220	Faraday Siren GLL Imagio IC120	e t	•	445 420	QLN Projekt D3 QLN Projekt C3i	8 8	0	360 370	Infinity SM155 Jamo BX-200A	주 주	0	550 550
GLL I agio IC110 Heybrook HB1	± ₽		300 269	Grundig BX3 Mk II Heybrook Heylios	±		350 339	QLN Qubic 222 QLN Projekt C3ii	<b>≢</b> ₽	0	<b>400</b> 400	Jamo Classic 10 Jamo 507A	주 주	0	700 800
Infinity SM85 Jamo 68	8		250 230	Heybrook Trio Heybrook Heylo	E ±	0	373 389	QLN Projekt B5 QLN Projekt C3iii	8		400 400	JBL LX7 JBL TLX181	₹ ₹		550 600
Jamo A Jamo Deco Art	-		270 300	Heybrook Heystak Infinity SM105	±		<b>499</b> 350	QLN Projekt D3i QLN Projekt C4	8		440 440	JBL L20 JBL PS12	<b>₽</b>		700 750
Jamo D265 Jamo Classic 4	Ħ	0	300 300	Infinity SM115 Infinity SM125	Ŧ	0	400 500	QLN Projekt C3iv QLN Projekt D3ij	8	0	440 470	Jordan Watts JH200 Jordan Watts JH400	8	0	510 565
Jamo 307A JBL LX2	8	o	300	Jamo Cornet 75 Jamo 407A	취 좌	0	330	QLN Projekt D4 QLN Projekt CMULTI	8		480 500	JPW Ruby 3 KEF LS3/5a	± E		800 649
JBL TLX151	8	0	250 300	Jamo 98	₹I B	0	350 360	Rega ELA Revolver The 260	±	0	498 350	KEF RDM Two KEF Q65	8	o	699 799
JPW ML710 JPW ML810	주 주	0	230 260	Jamo Classic 6 Jamo BX-100A	₹ ₹	0	360 370	<b>Richard Allen Dimension Five 3</b>	¥ ¥		349	Keswick Volante	¥ ¥	0	629
JPW ML910 JVC SX-SW10	∎ ¥I		300 300	Jamo D365 Jamo Cornet 95	和 和		400 400	Richard Allen Dimension Five 4 Rogers db101	E F		429 399	Linn Tukan Passive Linn Keilidh Passive	₽ ★	•	550 750
KEF Coda 9 KEF Model 70S	<b>±</b> ₽		299 299	Jamo Graphic Jamo Classic 8	₽ <b>±</b>		400 430	Rogers LS55 Rogers Studio 3	±	•	429 499	Lumley LM6 Lumley Promenade SP4	주 주	0	650 650
Kenwood LS-300G Keswick Aria II	8		300 299	Jamo BX-150A Jamo Atmosphere	¥ ¥		460 480	Royd The Squire Royd Doublet	¥ ₹		350 450	Manticore Minaret Meridian A500	₽ ₽	0	580 750
Lumley Pro enade SP1 M-A Monitor 1	8		299 250	Jamo 128 Jamo 477A	¥		500 500	Ruark Icon SD Acoustics SD3R	8	0	359 449	M&K S-85 Mission 752f	₽ ★	•	700 578
M-A Monitor 2 Mordaunt-Short MS30j	8		300 275	Jamo Silhouette JBL LX6	취 취		500 350	Sequence 400 Solid Verticale	<u>≠</u> ₽		329 400	Mission 735i Mission 753f	₹ ₹		650 798
Mordaunt-Short MS10i Classic Mordaunt-Short MS25i	Ŧ		280 300	JBL TLX161 JBL PS8	8		400 500	Spendor 2020 Tannoy Profile Plus 635	E ±		399 449	M-A Studio 2SE M-A 700 PMC	8 8		600 600
Mus Tec Kestrel SE NAD 802	±	0	299 280	JBL TLX171 Jordan Watts JHFLG	Ŧ	٥	500 380	TOLRTL 3 Technics SB-M300	± E	•	400 350	M-A 702PMC M-A 703PMC	±	0	700 800
Pioneer CS-7030 Pioneer CS-9030	₹ T	0 0	230 230 280	JPW ML1090 JPW Ruby 1	뵈		400	Technics SB-M500 Totem Mite	± E	0	450 495	Mordaunt-Short MS50i Naim INTRO	취	0	550 660
Pioneer S-LC1 Polk AB505	E	0 0	300 220	JPW SS553 JPW Ruby 2	뷮		400 500 500	Triangle Titus TZe UKD-Opera Opera Duetto		0	379 395	Neat Mystique Neat Petite II	₹ T		575 745
Polk M3 II Polk RT5	B		220	KEF Q35	₽ ₽	0	349	Visonik TB1S Wharfedale MFM3	1 1		366 350	Origin Live Resolution Origin Live Victory	Ŧ		732 750
Polk RT7	8	0	250 300	KEF Q55 KEF RDM ONE	± 1	0	499 500	Wharfedale Modus Music Eight Wharfedale MFM5	주 주	0	360 450	Pentachord B Pentachord Pentode	* 1		519 729
Polk M5 QLN Projekt A5	8	0	300 225	Keswick Aria II Keswick Centrale	R R	0	329 359	Wharfedale Modus Music 1/6	ŧ		450	Polk RT12 Polk RT16	Ŧ	٥	600 799
QLN Projekt B3 QLN Qubic 122	8	0	240 270	Linn Sekrit Lumley LM4	→ ₽		395 375	Acoustic EnergyAE1-II Allison Model 3A	2		795	Polk LS50	¥ ¥	0	800
QLN 122 QLN A6	8	0	270 270	Lumley Promenade SP2 Lumley LM5	묘	0	399 499	Audio Gem Emerald	₽ <b>±</b>	0	525 540	ProAc Tablette 50 ProAc Studio 100	8 9	0	599 699
QLN Projekt B3i Rega EL8	₽ <b>±</b>		285 298	Lumley Promenade SP3 Mission 733	₽ ±	•	499 330	Audio Note AN-K/D Audio Note AN-J/B	8 2	0	620 799	QLN 313 QLN 929	주 주	0	600 700
Revolver The 250 Richard Allen Dimension Five 1	주 주	0	250 239	Mission 751f Mission 734	문 보	0	348 499	B&W CDM1 B&W P4	1 1 1	0	600 675	QLN Classic One Quad 10L	8 12	0	800 600
Richard Allen RA8 Richard Allen RA8M	8	0	249 249	M-A Monitor 3 Mordaunt-Sho MS40i	¥ ¥	0	400 450	Bose SE-5 Ser II System Bose A'mass AM511	± ₽	0	760 800	Rogers C6/20 Rogers LS3/5A	묘 묘	•	533 699
Richard Allen Dimension Five 2 RogersLS33	Ŧ		269 249	Mus TecHarrier NAD 804	E T		400 400	Boston VR30 Boston Micro 90 Sys	주 주	0	600 669	Rogers Studio 5 Rogers C6/25	₽ ±	0	699 763
Royd Minstrel Royd Merlin	Ŧ		269 298	Neat Critique Origin Live OL-1AS	1		385 399	Castle Severn CastleAvon	1 1 1	0	539 699	Roksan ROKone 1 Roksan Ojan 3	±	0	595 795
Sequence 300 Solid HCM1	Ŧ		249 250	Origin Live Monarch Pentachord A	8		399 469	Celestion 45i Cerwin-Vega VS-12	¥ ¥	0	599 550	Royd The Sorcerer Royd Abbot	¥	0	595 665
Sony SS-176EB Spendor 2010	Ŧ		250 250 249	Pioneer S-LC2 Polk AB705	ŧ	0	450 330	Cerwin-Vega VS-15 Clements 600si	¥ T	0	700 595	Ruark Templar II Ruark Sceptre	Ŧ		599 599
Tannoy Profile Plus 633 TDL RTL2	8		299 280	Polk RT8 Polk RT10	보 문 문	٥	400 500	Dali 107 Dali 350	주 주	0	600 600	Ruark Talisman II Ruark Prologue One	* *		749 799
Visonik 7003	± E		203	Polk AB805	T T	0	500	Dali 450	¥1 ₹1		700	SilveradoRaider	8		<b>695</b>
HI-FI CHOICE												JULY/AUG	UST 199	97	101

AWARD WINNERS

30B Subwoofer

60S Effects

Ö

80C Dialogue



Sonus Faber Concertino 59 8 Spendor LS3/5A 63 Spendor SP3/1 79 54 64 nnoy Profile Plus 637 nnoy Profile Plus 638 **K** = = = **K** = = = **K** = **K** = = **K** = Tannoy Definition D100 TDL T-Line 2 68 55 70 69 TOL T-Line 3 Totem Rokk Triangle Comete TZe Triangle Lunn Triangle Zephyr UKD-Opera Opera Seconda UKD-Opera Operata II 52 55 79 59 77 Wharfedale MFM7 65 Acoustic Energy AE2-II Alon Alon Petite Alon Alon I 1,09 99 1,50 1,18 Ambience Mod. 4.0 ATC SCM10 1,00 1,50 93 Audio Note AN-J/D Audio Note AN-K/SPx 1.06 1,29 1,41 1,29 Audio Note AN-J/SPx Audio Physic Step Audiovector 2X 85 1,50 99 ector 3X AVI Positron B&O Beolab 4500 B&W P5 1,30 B&W DM604 B&W P6 B&W Matrix 805 V Bandor Trident 1,00 1,09 1,09 1,09 84 1,26 1,34 90 1,00 Bandor Mora Bandor Bandora Bose A'mass AM7 Boston VR40 Castle Harlech Castle Howard S2 84 1,19 Celestion A1 8 Celestion A2 1,49 Cerwin-Vega AL-1000 Cerwin-Vega 1515 Clements Reference 1 Dali 850 1,10 1,30 99 1,10 1,00 Def Tech BP8B Def Tech BP10B Electrocompaniet EC-Qube Electrocompaniet EC-Qube SE 1,19 1.49

±

10000	Man descent of the second s
599	Gamma Epoch
599	Harbeth HL-K6
630	Harbeth HL-Compact 7
795	Harbeth BBC LS5/12A
549	Heybrook Sextet
649	Impulse Kora
689	Jamo 707i
550	Jamo Concert 8
700	JBL L40
695	JBL PS15
525	JBL L80
550	JBL L90
799	Jordan Watts JH1+1
595	JPW Ruby 4
770	KEF Q75
650	KEF Model One
000	Keswick Torino
1.095	Keswick Figaro Evolution
999	Keswick Figaro Evolution
1,500	Keswick Amber
1,185	Linn Tukan Aktiv
1,000	Linn Keilidh Aktiv
1,500	L Voice Auditorium
930	Lowther Accolade 2
1,060	Lumley LM3
1,299	Lumley LM3.5
1,415	Magneplanar SMG-C SE
1,299	Magneplanar MG-0,6 SE
850	Manticore Matisse
1.500	Me idian Argent 1
999	Mission 754f
1,300	M-A Studio 12
875	M-A 705PMC
1.000	Mordaunt-Short Perf 820
1,000	Naim Credo
1,095	Origin Live Soveriegn
846	
1,260	Pink Triangle Ventrical Polk LS70
1,340	Polk RT20p
900	ProAc Tablette 50 SIG
1,000	ProAc Response 1 SC
849	ProAc Studio 150
1,199	Prof Monitor Co LB1
899	Prof Monitor Co AB1
1,499	QLN Signature
1,100	QLN Prestige
1,300	QLN Sig Splitfield
995	Rega XEL
1,100	Rogers Studio 7
1,000	Rogers C6/28
1,500	Roksan Ojan 3X
1,195	Royd The Albion
1,495	Ruark Broadsword II
1.185	Ruark Paladin

196-97 ND"		
ND <sup>39</sup> KE SD Acoustics SD5 Shahinian Super Elf Shahinian Compass Sonus Faber Minuetto Spendor SP1/2E Ianny Definition D300 TDI, Studio LM Technics SB-M1000 Totam Model One Triangle Antal UKD-Opera Opera Terza UKD-Opera Opera Terza UKD-Opera Opera Terza UKD-Opera Doira II WKD-Opera Doira SGId UKD-Opera Divina II		1,395 875 1,395 888 1,098 899 1,050 1,390 999 1,500 1,195 1,099 950 1,500 1,395 935
E1501 to E Acoustic Energy AE1 Sig Acoustic Energy AE2 Sig Alon Alon II Ambience Mod 3.2 ATC SCM20 Tower Audio Note AN-E/SPx Audio Physic Spark 2 Audio Physic Spark 2 Audio Physic Fempo Audiovector 5 Avalon Monitor B&0 Beolab 6000 B&0 Beolab 9010 B&0 Beolab 9010 B&0 Boolab 9010 B&0 Matrix 80322 B&W Matrix 80322 B&W Matrix 80323 B&W Ma	100 101 A a A a a a a A A A A A A A A a a a A A A A a a a a A	1,695 2,695 2,300 1,780 1,520 2,250 1,749 1,999 2,500 2,995 1,550 2,995 2,995 2,495 2,995 2,600 2,995 2,295 2,295 2,295 2,295 2,295 2,295 2,295 2,295 2,399 2,500 2,399 2,500 2,399 2,500 2,399 2,500 2,399 2,500 2,399 2,500 2,399 2,500 2,995 2,295 1,695 2,295 2,295 1,695 2,295 1,695 2,295 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,995 1,695 2,900 2,900

1,499

1,049

1,499

1,250

900

00

1.000

1,250

,<mark>500</mark> 995 1,000 999

1,199

899

1,099 1.399

1,050

1,250 1,300

1,199

1,050

990 1,370

1,390

995

1,298

1 000 1,400

1,495 1,060 975 999

1,500 899

1,199

1.399

1.496

1,500 1,500

899

1,303

1,270

899 1,099

Ŧ

	ELS Res'ch Vision	Ŧ		2,800
	Epos ES25 Gamma Epoch Ref Five	± ±	•	1,655 2,999
	Hales Concept Two	ŧ	٥	2,250
	Harbeth HL-S8 Helius Syrius II	¥ ¥		1,999 2,395
	Helius Syrius I Horning Aristophane	Ŧ	٥	2,850 2,600
	Impulse Lali	¥ ¥	D D	1,850
	Jamo Concert 11 JBL L100	¥ ¥		2,000 1,750
	Jordan Watts JH2K	Ŧ		2,820
	KEF Ref. Model Two KEF Model Three	¥	•	1,599 1,999
	Linn Kaber Passive	±		2,000
	Linn Kaber Aktiv Lowther Fidelio	¥ ¥		2,640 1,999
	Lowther Academy Lowther Bel Canto	¥	D	2,399
	Lumley LM2	¥ ¥	B	2,699 2,795
	Magneplanar MG-10 SE Magneplanar MG-1,5 SE	¥ ¥		1,650 1,780
	Magneplanar MG-2,7 SE	Ŧ		2,650
	Martin-Logan Aerius i Meridian M60	E F		2,299 2,150
	M-A Studio 20SE Mordaunt-Short Perf 860	Ŧ	٥	2,200
	Mordaunt-Short Perf 880	¥	•	1,895 2,795
	Naim SBL Active Naim SBL Passive	±		1,830 1,970
	Neolith NEO 1	2	D	2,999
	Origin Live Conqueror Paragon Jubilee	₹ ₹	•	1,650 1,995
	Pentachord P'column	Ŧ		1,649
	Polk LS90 Posselt Albatross	¥ ¥		1,700 2,500
	ProAc Response 2S ProAc Studio 250	8	٥	2,000 2,249
	ProAc Response 2.5	± ±		2,243
	Prof Monitor Co IB1S QLN Reference	± ₽	0	2,099 2,000
	QLN Ref HDII	Ŧ	٥	2,500
	Rehdeko RK115 Rehdeko RK125	8		1,550 2,750
	Rogers LS5/9 Rogers Studio 9	면 보		1,531 1,549
	Ruark Crusader II	±		1,599
5	Ruark Equinox Ruark Accolade	2 ±	•	1,849 2,699
5	SD Acoustics SD1E	ŧ		2,995
5 B	Shahinian Arc Shahinian Obelisk	± ±	•	1,875 2,675
8	Silverado Silverado 1 Sonus Faber Minima Amator	8	٥	1,995
9 D	Sound-Lab Quantum	E T		1,566 2,150
9	Spendor SP7/1 Spendor SP100	¥ ¥	0	1,990 2,099
9	Tannoy Definition D500	ŧ		1,999
0 5	Tannoy Stirling TW Tannoy Definition D700	¥ ¥		2,200 2,500
9	TDL Studio Monitor-m Thiel CS-5	*1		2,449
0 9	Thiel CS-1.5	Ŧ		2,499
0 0	Totem Mann-2 Triangle Zays	봐	0	2,795 1,750
5	Triangle Altinis	Ŧ	o	2,250
5	Triangle Extan UKD-Opera Caruso II	∓ ∓	0	2,950 2,350
5 5	Over £300 Acoust c Energy AE5	0 ±1		7,995
5 D	Alon Alon IV	Ŧ	o	3,500
0 9	Alon Alon V Mk2 Alon Adriana	± ₽		5,000 9,000
0	Ambience Mod 5.0 ATC SCM50	Ŧ	٥	9,550
0 9	ATC SCM100	¥ ¥		3,499 4,149
9	ATC SCM50A ATC SCM100A	¥ ¥		4,999 5,699
0 5	Audio Note AN-JSE Silver	8	٥	7,900
0	Audio Note AN-ESE Silver Audio Physic Virgo 2	₽ ±J		9,600 3,399
D	Audio Physic Avanti 2	ŧ	٥	6,699
5 5	Audiovector 6 Avalon Avatar	¥ ¥	0	4,600 4,495
5	Avalon Eclipse B&W Matrix 801s3	¥		6,495 3,995
0 0	B&W Silver Signature	E	٥	5,500
5	Bandor Bandoline Bandor Bandora/Mora	¥ ¥		3,290 3,290
9	Boston Lynfield 500L	Ŧ	٥	4,449
0 3	Bravura Virtuoso Silver Bravura Virtuoso Gold	¥ ¥	BB	3,195 3,395
D	Bravura Accelerando Credo SPB 012	Ŧ		6,600
0 5	Credo SDL 001	¥ ¥		3,147 5,677
D 3	Dali Grand Def Tech BP2000	¥ ¥		4,000 3,600
0	ELS Res'ch Vista	ŧ		3,900
5 D	ELS Res'ch Illusion Mkll Fase Evoluzione Fase/Aria	E F		9,000 3,100
D	Hales Concept Three Hales Concept Five	Ŧ		4,350 6,350
D	14103 00100001 1190	Ŧ	U	0,330
	H	II-FI	CH	DICE

Epos ES22

	Martin Control of Cont	And and a second se	
ŧ		3,555	Castle Keep
Ŧ	D	3,100	Celestion CC1
ŧ		5,995	Celestion CSC
ŧ		9,995	Celestion Centre 2
ŧ	o	7,000	Celestion C1i
ŧ	o	3,500	Cerwin-Vega CC-240
ŧ		4,000	Cerwin-Vega CC-250
ŧ	o	3,950	Dali SC5
ŧ	o	7,570	Def Tech C1jr
ŧ	o	3,299	Def Tech CIB
ŧ		6,000	Def Tech CLR1000B
ŧ	٥	6,000	Def Tech CLR2002
ŧ		3,099	Def Tech CLR2000
ŧ		4,999	Gale Centre 1
ŧ	٥	4,500	Gale Centre 2
ŧ	٥	8,500	GLL Arena AV Centre
ŧ		3,800	Infinity SM Video
ŧ		3,499	Infinity Centre
ŧ		4,555	Jamo Centre 50.II
ŧ		5,875	Jamo Centre 40
±		7,440	Jamo Centre 100 II
ŧ		8,550	Jamo Centre 18
±	0	3,295	Jamo Centre 160
±	٥	5,950	Jamo Centre 200
±	0	9,400	Jamo Concert Centre
E	o	3,600	JBL MR Centre
±	o	4,000	JBL TLX103
ŧ	٥	6,000	JBL SC305
ŧ	٥	7,414	JBL LX Centre
E	o	3,499	JBL L Centre
ŧ	٥	4,999	JPW Mini Monitor
ŧ	o	3,490	JPW Gold Monitor
ŧ	o	4,250	JPW CC40
2	o	4,370	JPW CC50
	٥	6,270	JPW CC60
ŧ	٥	4,500	JPW CC70
±		3,450	KEF Model 80C
	o	4,250	KEF 80C
ŧ	o	7,750	KEF Q95C
ŧ	o	4,995	KEF Model 90
¥	0	8,895	KEF Model 90
¥	0	5,500	KEF Model 100
E	0	3,293	KEF Model 100
E	0	6,500	KEF Model 200C
Ŧ		3,790	KEF 200C
Ŧ		6,490	Kenwood CS-6
Ŧ		7,990	Keswick Centrali
Ŧ	٥	3,450	Linn AV5120
Ŧ		3,250	Martin-Logan Logos
Ŧ	•	3,999	Meridian M60C
Ŧ		4,000	Meridian M60C
Ŧ		6,600	Meridian DSP5000C
¥ ¥	A	7,720 4,999	Meridian DSP5500C Meridian DSP6000C
¥ T		3,449	M&K S-85
¥ T	0	4,899	M&K S-150C (THX)
Ŧ	0	4,250	Mission 73C
Ŧ	0	5,495	Mission 75C
1		8,750	M-A CC300
-		8,888	M-A CC900
Ŧ	0	3,800	M-A CC70
Ŧ		6,400	Mordaunt-Short VS-100C
-			Mordaunt-Short MSCi
		1	NAD 808CC
1		1.1	Polk M3 C
	11	Freed	Polk CS101
			Polk CS200
			Polk AB705C
4		1000	Polk RM2500C
		100	Polk CS250
		Sec. 2	Polk CS350
			ProAc Response CC One
		100	<b>Revolver The Ricochet Ctr</b>
	181	1.20	Richard Allen Centre
			<b>Richard Allen Centre plus</b>
	2012	1000	Richard Allen Dimension Ctr I
	1		Richard Allen Magnum Ctr Po
			Royd AV77
PEA	KER	S	Solid C100
			Sony SS-CN15
			Sony SS-CN35
l; al	lows		Sony SS-CN65ES
ets.			Tannoy Profile Plus 621
			Tannoy Profile Plus 622
	ucas		Tannoy Definition D750 TDL Nucleus CCS
alla	tions		TEAC LS-CT8
			Triangle Sat 1
0		150	Wharfedale Modus Centre Cut
0		99	Wharfedale Valdus Centre
0		150	Wharfedale Modus Centre
~		230	All works and a line of the second

Mar Martin Basement

ер	
	0
CC1 CSC	Ő
Centre 2	0
C1i	0
ga CC-240	0
ga CC-250	0
	0
C1jr CIB	0
	0
CLR1000B	0
CLR2002 CLR2000	0
re 1	0
re 2	0
AV Centre	0
A Video	0
intre	0
tre 50.11	0
tre 40	Ö
tre 100 II	ō
re 18	0
tre 160	0
re 200	0
cert Centre	0
entre	0
3	0
	0
itre	0
re Monitor	0
Monitor Monitor	0
monitor	0
	0
	0
	0
80C	0
	Ö
	0
90	0
90	0
100	0
100	0
200C	0
	0
S-6	0
entrali	0
20	0
an Logos	0
160C	0
160C ISP5000C	0
SP5500C	0
SP6000C	0
31 00000	0
IC (THX)	
C	0
C	n
1	0
	ō
	0
Short VS-100C	0
Short MSCi	0
	0
	0
	0
c	0
000	0
	0
	0
onse CC One	0
e Ricochet Ctr	0
en Centre	n
en Centre plus	Ö
en Dimension Ctr Pod	D
en Magnum Ctr Pod	n
	0
	D
115	0
135	0
IGSES	0
ile Plus 621	0
file Plus 622	0
nition D750 s CCS	0 THE
s CCS	0
1	0
Modus Centre Cube	0
Valdus Centre	0
Modus Centre	D
and the	

1,998 1,125

1,125

3,095 4,900

Wharfedale Modus Music Yamaha NS-C60 Yamaha NS-C105 Yamaha NS-C150 ZYP A1TAV	Centre	00000	15 6 8 11 10
	6	Bul	1
	1	<u> </u>	
	-		
	6.		
	C	<u>9</u> 1	
=			
DEDICATED SUR	ROUN	D SPE	AKERS
KEY			
Ω – magnetically positioning close			ows
THX - THX a			casfilm
for use in Home			
B&W SCM8		T	<b>HX</b> 1,190
Boston VRS Micro Boston CRX			170 200
Boston VRS Boston VRS Pro			299 299
Celestion Little 1			99
Celestion MP1 Cerwin-Vega SA-140			199 100
Cerwin-Vega SA-150 Dali SS5			140 220
Def Tech BP1 Def Tech BP2			395 595
Def Tech BPX			1,095
H/K Citation 7.3 Infinity Quadrapole		a	1,750 500
Jamo Surround 40 Jamo Surround 50 II			60 70
Jamo Surround 100 II Jamo Cornet 35			90 120
Jamo Surround 160			130
Jamo Surround 200 Jamo Surround 300			180 280
Jamo Surround One JBL LX Surround		a	550 180
JPW Satellites KEF Ci250SW			80 399
KEF Model AV2			539
KEF Model AV3 Kenwood RS-05			589 80
Kenwood CM-5ES Kenwood CM7ES			80 100
Kenwood Omni 7 Martin-Logan Stylos			170 2,872
M&K SS-150 (THX) M&K S-150			→ 750 → 2,400
Mission 73DP Mission 75DP			300 348
Mordaunt-Short VS-100R			90
Mus Tec Merlin Mus Tec Hobby			200 250
Mus Tec Osprey NAD 805RC			250 150
Polk RM2000 II Polk RT f/x			350 350
Polk LS f/x Surround			449 80
			99
Revolver The Ricochet Real Richard Allen Satellites	uha -	10 N 10	139 40
Revolver The Ricochet Real Richard Allen Satellites Richard Allen Dimension Co Sony SS-SR15	ubes		
Revolver The Ricochet Rea Richard Allen Satellites Richard Allen Dimension C	ubes		100 170
Revolver The Ricochet Real Richard Allen Satellites Richard Allen Dimension Cl Sony SS-SR15 Sony SS-SR35	ubes		100



SUBWOOI	EPPS		
KEY			
O – active; includes power amplifier.			
<b>THX</b> – THX approv Lucasfilm for use in	ved by		
Home THX installatio	ns.		
Aiwa TS-W9	0		170
Allison Mini Ref Sub Alon Poseidon	0		210 15,000
AMC B1-20 Audio Physic Terra	00		350 3,499
B&W AS6 B&W Matrix 800ASW	0	TH	500 <b>3</b> 1,500
Boston CR400 Boston VR500	0		300 450
Boston VR2000 Celestion CS135	٥	<b>THE</b>	139
Celestion CSW Mkll Celestion S1i	0		329 349
Cerwin-Vega HT-10D Cerwin-Vega HT-12D			200 250
Credo SDC 001 GLL LE Bass	0		3,054 350
Hales Concept Zero H/K Citation 7.4	0	<b>TH</b>	
Infinity SSW-10 Jamo 860SW			500 110
Jamo 860 Jamo SW400E	0		110 330
Jamo SW505E Jamo Sub One	0		400 400
Jamo SW600e JBL CM6	0		530 200
JBL PSW800 JBL Sub 10	0		275 300
JBL PSW1000 JBL PSW1200	0		325 375
JPW Subwoofer JPW SW60	0		130 350
JPW SW120 KEF Model 20B	0		500 349
KEF Model 30B KEF Model AV1	0		499 2,499
Kenwood SW500 Keswick Alto			250 1.299
Linn AV5150 L Voice RW24	Ø		2,850 9,500
Meridian Sub 1 Meridian M2500	0		1,500
M&K VX-7B M&K VX-7MKII			450 450
M&K V-75 MKII M&K V-125 (THX)	000		650
M&K MX-70 M&K MX-100	0	THX	900 1,500
M&K MX-150 M&K MX-200	0	THX	
M&K MX-300 M&K MX-5000	000	THX	2,500
Mission 73PI Mission 73PS	Q	THX	100
Mission 73AS	Ø		450
Mission 75AS M-A ASW 7	0		548 700
Mordaunt-Short T2000 Muse Model 22	0		500 1,890
Muse Model 18 Neat Gravitas Polk PSW50	0		3,790 1,095
Polk PSW150	0		350 500 750
Polk PSW300 REL Q50 REL Q-100	0		750 375 475
REL Strata II REL Storm	0		475 575 695
REL Storm REL Stadium II REL Stentor II	0		995 1.795
REL Studio II Revolver The Recoil	0		1,795 3,995 100
Richard Allen Gold Sub Richard Allen Dim'n Active	0		100 149 499
Richard Allen Magnum Active Rogers AB33	0		699 379
Rogers AB1 Roksan Ojan 3S			549 795
Sequence FW120 Solid Powerbass			249 300
Solid PB100	0		350
Sony SA-W101 Sunfire True Sub	0		230 1,600
Tannoy 625ALFie TDL Nucleus SBR	0		599 200
Triangle SATIII Wharfedale Modus Sub Bass Wharfedale Medus Reversed Sub	0		650 180
Wharfedale Modus Powered Sub Wilson Audio Puppy 5.1	0		350 8,450
Wilson Audio Whow III	۵	1	2,500

DEDICATED CENTRE S

**N** – magnetically shielde

positioning close to TV se

THX - THX approved

for use in Home THX inst

Ĩ

This £339 Best Buy boasts beautiful bass!

Heybrook Heylios

**THX** 400

Acoustic Energy AE107C Allison Black Gold Centre B&W CC3

B&W CC3 B&W CC6 B&W Matrix Bandor Voice Boston CR1

Boston Centre 6 Boston Micro 90 Cntr

Boston Micro So Boston Centre 7 Boston CR2 Boston VR10 Boston VR12 Boston VR14



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, Audiolab, Aura, B&W, Cyrus, Epos, DPA, Harman Kardon, Heybrook, Infinity, JPW, KEF (Reference), Linn Products (including records), Marantz, Meridian, Mission, Musical Fidelity, NAD, Nakamichi, Onix, Pioneer, PROAC, QED (Systemline), Quad, Rega, Revox, Rogers, Rotel, Sony, Sound Org, 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).





## Amplifiers Brought to you in association with

audio research

he amplifier sits at the heart of the system, processing the outputs related. Some of the finest amplifiers available have outputs as low as the loudspeakers. These two (quite separate) functions are achieve loudness aplenty. integrated into a single box at the low-to-middle price points, but become Power output is equally no indication of sound quality. separated into preamps and power amplifiers. Even separate power

supplies become increasingly common as one moves upmarket. Bear in mind that output power and sound quality are not necessarily

from the various music sources as necessary and then driving 12 Watts, but team them with high-efficiency loudspeakers and you can



### KEY

LINE IMPUTS: Amount of input sockets for non-vinyl sources such as CD players, tuners and cassette decks MM PHONO INPUT: If an amp has a viryl phono input for moving magnet (normal output) cartridges.

**INTEGRATED AMPLIFIERS** 

MC PHONO INPUT: If an amp has a vinyl phono input for moving coil (low output) cartridges. REMOTE CONTROL: If amp is couch potato ready. HEADPHONE SOCKET: If an amp is can friendly.

POWER OUTPUT (W): Lab tested power output in Watts per channel. RECEIVER: If an amp has a built in radio tuner. FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback

information page ISSUE NUMBER: The issue of Hi-Fi Choice in which the origina review appeared.



			•	-/		. ol	12	(1)	
roduct	Price(£)	Comments	V	V	V	V	V		
Ichemist Maxim	319	Vivid and colourful sounding amp that's just too bold and brassy	5	٠				30	1737
Alchemist Nemesis	700	Good if ultimately undistinguished amplifier whose strengths include warmth, authority and distinctive aesthetics.	6	3				80	
MC 3050a	170	Tremendous value for money, and a full, big, if rather uninformative sound.	4	٠	•	•	٠	45	
MC CVT3030a	400	Beer budget valve amp, with quintessentially valve-like virtues (euphony with dynamics) and vices (system dependency, noise	) 6	•			٠	30	0
Ircam Alpha 7	250	Decent, if slightly system-fussy amplifier that generally pulls all the right strings	5	•	8		٠	40	
rcam Alpha 8	350	Enjoyably soft-centred amp, won't frighten the animals. Upgradeable via preamp output, and R/C (not supplied)	5	٠	and the second s		٠	50	1853
Ircam Alpha 9	500	Not quite as much a star as the Alpha 9/9P combo, the solo integrated is nevertheless colourful and explicitly detailed.	7			•	•	70	
udio Innovations Alto	300	Probably because of a lack of deep bass, this stylish amp sounds open, natural and relaxed	6		2			35	1540
udio Note Ongaku	56,000	A single-ended, zero negative feedback triode, line-level amplifier and a half. Probably the best amplifier in the world	3	5	2		210	26	
udio Note Oto SE	1,200	Transparent, dynamic, clear and subtle, but limited power	4			1		24	
udiolab 8000A	550	The 8000A remains a highly disciplined and mature sounding amp	5	•	•	5	•	60	1581
udiolab 8000S	750	Informative in every sense, only a slight lack of bite detracts. Perhaps Audiolab's best yet!	6			•	•	60	1740
ura VA100 II	350	Big, smooth yet slightly disjointed sound was equally familiar	5	•	E.C.		•	70	1541
ambridge Audio A3i	200	Maximum information design, with plenty of usable and reasonably refined power. A snip	4	•	1			60	
Copland CSA8	945	Sophisticated yet transparent, this is one of those amplifiers that sounds good even when the gloss has worn off	5		1	-	19. A.	60	
Copland CSA-14	1,199	Great sound and looks, but watch out for high capacitance cables	4	•	1		5	60	1416
enon PMA-350SE	200		5	-	-			-	
enon PMA-425R	230	Reinvented in the minimalist tradition, the new SE model is a control freak, but can sound wonderful			2	•	•	50 45	1856
enon PMA-725R:		Well equipped and generally enjoyable but slightly ragged performer. You can do better	3	•			0.0		1000
	350	Warm, bold, up-front presentation, but musically unexciting	5	•	-	•	•	97	1802
Jensen Beat B-100	600	Low feedback amp with passive internal preamp gives a bold, pacey and thoroughly involving sound. Phono option listed	5		2			60	1855
leVa 125	249	Subjectively loud, this throws an unlikely quantity of music at the audience. Bouncy sense of rhythm	6		-	-		20	1464
PA Renaissance	595	DPA's first integrated amp is typically innovative, but a little too 'crisp 'n dry' for our tastes	5	•		2	•	40	1582
MF Audio Sequel	450	Relaxed and restrained design from Mike Creek	5	•			•	50	
xposure XX Super	700	Rather transistorised, unexciting sound. Good coherence and rhythm. Best played loud	6	2			1	55	1743
amma Acoustics Gemi	ni 699	Genuine single-ended triode design, but low power, mundane sound and poor build	3			-		12	1416
rundig Fine Arts V-11	160	Rhythmically dull. Never gets out of first gear	5	•		٠	•	55	1803
arman/Kardon HK610	180	Lively and friendly sound, but could prove too exciting for the faint hearted	6	•			•	30	1465
arman/Kardon HK620	250	Capable and musical amplifier which is among the nicest available at the price. Optional add-in MM/MC board available	6			•	•	40	1858
larman/Kardon HK1400	400	Relaxed, confident sound is only troubled by the most dense of recordings	5	•	•			40	1011
arman/Kardon HK640	400	Breezy, nimble sounding amp, lacks grip and fortitude – it can sound artificial and insubstantial	6		23.4	5	•	55	1542
oLida 202	695	Well built and technically accomplished, affordable valve integrated with subtle and refined, if not quite gripping sonic performance	e. 4					40	
VC AX-V4	200	Respectable performance for a Pro-Logic AV amplifier. Lacks resolution and sparkle, though	5	•	1	•	•	63	1805
VC AX-R5	200	Versatile, and lots of even-handed, articulate detail; but let down by superficiality	5	•	251	•	•	45	1466
enwood KA-3020SE	200	Not a brilliant phono stage, but this is a lively, exuberant sounding amp via CD	5	•		2	•	50	1130
rell Digital KAV-300i	2,490	EISA Award winner with balanced inputs and AV friendly outlook, sound is confident and three dimensional (Statements)	5			-		150	1825
FD Integrated Zero	549	Lively and brisk, but at the same time cold and unsympathetic	6	14	-	-		50	1584
inn Majik (Phono)	800	The cornerstone of Linn's modular hi-fi system is innovative, but sounds vague and confused	5	•	•		•	33	1013
lagnum IA170	330		5 6	-	-	-	0	100 C	100 million 1
and the second se	11	Gives a realistic sense of instruments playing within a very believable acoustic, preserves colour and dynamics well			-	-	•	96	1260
lagnum IA-200	495	Sweet, valve -flavoured solid state amplifier flatters where it doesn't cast light. Note: power output listed is peak	7	-		-	-	100	1860
lagnum Class A	690	Lashings of rich and compelling music, but the Class A trades lushness for accuracy	4	•	•	-	-	60	
larantz PM-66SE	230	A bit lush, and power output is limited, but it communicates well and gives airy, large-scale music. An excellent budget buy	5	•		•	Contraction of	50	
arantz PM66 KI-Signa		An amplifier that knows how to rock and roll with holographic detail and stereo, but prefers small/medium scale acoustic material	-	•	4	•	•	50	
licromega Minium Amp		Excellent musical performance but doesn't like high levels or low impedance speakers	6	•		•	•	40	1806
lission Cyrus IIIi	500	Beautifully presented, but mid-dominated balance and other anomalies were not liked. Upgradeable using PSX unit PSU	6	•	6	•	-	50	1854
lission Cyrus SL	398	Sharp, articulate amplifier, and superb, outgoing midband with lean though well extended bass – and build quality to die for	6					50	
lusical Fidelity E10	300	Smooth and high-endish sound that is marred by a lack of dynamics and a touch of grain	5	٠			٠	40	1746
lusical Fidelity A2	499	Lucid, transparent midband and a full upper bass are provided by this highly proficient A1 replacement	5	٠				25	1862
<b>Iusical Fidelity A220</b>	700	Powerful, authoritative and well turned out amplifier that is easy to match with comparably priced speakers and source components	. 5	•				50	
lyryad MI 120	530	Despite an ultra-modern appearance, the old-fashioned cold, dry transistor sound	5			•	•	60	1747
AD 310	100	Fleet and sure of foot, it seems likely to set all appendages tapping with its blend of enthusiasm and artfulness	5					20	1468
AD 314	260	Lively if coloured presentation that is musically engaging and easy on the ear	6	•	-	1	•	53	1807
AD 317	470	Powerful, expandable and affordable, the 317 is short on refinement and resolving power	6		100	•		80	1007
aim Nait 3	575	Distinctive and highly musical sounding integrated amp. Perhaps too distinctive for some tastes	5	-	-			30	1748
relie SA-100	449	A musically rewarding amplifier that grows on you. Trace of coarseness in treble	5	-	6			50	1740
10110 SM-100	443	n musicany rewarding amplifier that grows on you. Have of coalselless in teole	J		100			JU	1/49

## THE DIRECTORY

		AMPLIFIERS	s .	<i>v</i> /	HEADPHL TTE CONT VPUT	ų	VER OUTPO	FACTSBACK RECEIV	<sup>ISSUE</sup> NUN KNUMBER	
	Price(£	) Comments			<b>6</b>					
Pioneer A-400X Pioneer A-300R Precision	300	On second audition, this amp was tonally unchanged but less compelling	6	•	•		•	50	1545	-
ioneer A-605R	400 400	Sophisticated, breathed-on variant of the A-300R. Not an obvious winner, but will slowly win you over with its subtle charms	5 5					35 80	1863	-
rime Design A-100	650	Intriguing technology, but execution is certainly impeded by excessive gadget count. Dynamic but somewhat aggressive powerhouse with limited stereo interest (either MM or MC phono).	4		-	•	•	100	Cold States	168 168
ro-ject Model 7	300	A minimalist amplifier brimming with good intent, but too quirky for its own good. Either MM or MC	5	-	-	-		40	1264	-
uad 77 Integrated	700	Compact and sophisticated Quad system amp, limited range of inputs when used with 'foreign' components (optional system remote)	1000					84		168
ega Elex	398	Minimalist amplifier derived from Elicit, is a little uninspiring, though at least it is not badly behaved.	4	•	,	1		50	1865	and the second second
oksan Caspian	695	Well built, open and articulate amplifier, which is also consistent from system to system, and well built	6	1		•		70		168
ose Scion	615	Unique two-box integrated gives real subtlety and low level resolution, but the sound lacks scale and weight	5	•	•			65		168
otel RA970BX	250	Lively, fresh and perky with plenty of power, but not so clever with complex recordings	6				•	60	1546	138
herwood AX-7030R	400	Versatile, and with truck loads of power on tap, this model is disappointingly coarse and uninvolving on audition	5	•	•	•	•	95	1866	162
ony TA-F246E	200	Relaxed quality that seduces with its guile and subtlety, MM input is a tad laconic but CD is very tidy and composed	3	•	1	1	•	40	1471	149
ony TA-F448E	250	Confused and coloured sounding, it needs a large dose of delicacy adding to its presentation	5	•			•		1809	Contraction in the
alk Electronics Storm 1	500	Good soundstaging and strong detail are provided by this unassuming and not especially powerful model	6	1				50	1868	Contract of the local division of the local
EAC A-BX7R	700	Characterful balance mars an otherwise meticulously designed amplifier. Includes a balanced input, optional MM/MC stage	5			•	-	50	1869	100
echnics SU-A700 Mk 3	250	Fully equipped, high-tech amplifier ultimately fails the 'is it Stork?' test, and can sound messy and inarticulate	5	•			•	45	1870	and the second s
loodside ISA230 Disc	1,249	Smooth and inoffensive valve amplifier, though it lacks the sparkle and euphony required for a truly entertaining sound	3	•	1		-	30		116
amaha AX-490	250	Widgets aplenty, but unemotional sound evoked an uncertain response from panel	5	•	•	•	•	85	1473	149
Preamplifiers	E 10	Quide Class A design with an aqually warm and calculate and	4							124
Ichemist Kraken Pre curus RL11	519 899	Quirky Class A design with an equally warm and colourful sound Well featured US preamp with planty of grunt and denth when used with the A150 power amp (Sessions)	4	-		•			1624	-
MC CVT2030A	400	Well featured US preamp with plenty of grunt and depth when used with the A150 power amp (Sessions) Budget valve preamp, modest build and a tad noisy, with fair sound	6	•			•	-		165
udio Innovations L1	369	Reviewed with S800 Anniversary – Explicitly detailed, conveys the message of the music as a whole	4		-				1300	-
udiolab 8000C	550	Distinctive, stark neutrality that will not appeal to all. Good value engineering	5	•	•		•		1000	97
udiolab 8000Q	1,100	Tested with 8000M monoblocks	6			•	•		1301	145
ura CA200	700	Flexible, well designed – can sound slightly aggressive, but it's fast, clean and dynamic, and makes compelling listening	10	•	•	•	•			165
onrad-Johnson PV-10A	1,250	Beautiful imaging, superb detail, plenty of gain on the phono input; classy build too. Tested in Sessions	4		•				1560	139
opland CTA-301Mkll	1,399	Sweet sounding - but never gets bogged down in audio treacle	4	•					1630	151
yrus Pre	650	Tested with Cyrus Power. High-tech design, punchy, light-footed character with a sense of substance and natural warmth	5	•		•	1			155
ensen DM-20	1,200	Stylish Danish preamp with a pair of huge knobs and effortless resolution and a slightly dark balance (Statements)	6							164
PA DSP200S	495	Dramatic but detailed and transparent sound belies modest power rating (tested with DPA-200S)	6							124
AR 802MC	2,599	Tested with 509 Mk II - see comments in power amp section	4	•	•					63
CA Vista	760	Wind up the volume and blow a breath of fresh music into your system (tested with Lectern)	5		1				1302	Contract of
kposure XVII	849	Superbly rhythmical; maybe a tad overpowering in the midband. Tested in Sessions with XVIII Super	5	•		-	-		<u></u>	142
dis JP-30MC	5,978	French tubes, JP-30MC has beautiful build, nostalgic styling and delightful midrange. (tested with JA30)	5	•	-	2				60
FD Mistral Linestage	499	Strong ergonomics, generally decent sound, but a little lacking in detail	6							165
eridian 501 eridian 562V	695 995	Tight, positive sound, but dispassionate; intense at high levels. Tested with 555	5 9	•	No. of	-	•		1303	145 140
eridian 502	1,295	Transparent and capable preamp, also features 6 digital inputs Extremely sophisticated analogue controller with tremendous flexibility and a fast and tidy presentation (Statements)	9 7	•					-	140
oth 30 Passive	1,235	Modular system gives cracking results. Passive preamp and power amp warrant Best Buy (tested with 30/Stereo 60)	4	100	1					102
oth 30 Active Line Stage	349	Excellent sounding ultra-simple miniature preamp	4						and the second second	165
use Model Three	1,990	Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp (tested in Statements)	5	100		•				166
usical Fidelity F2	500	Subtle, sweet-sounding preamp with strong presence	5	•	•				and a second sec	165
AD 114	270	Beer budget preamp, sounds focussed, detailed and consistent	6	•	•		•			165
aim NAC92R	599	Upgradeable preamp uses proprietary socketry, etc. See NAP90 power amp for comments	5			•			100	165
uad 77 Pre	850	Sophisticated design with 2-way remote control console; open colourful sound and very flexible	4	•	•	•				165
ega Hal	998	Dedicated to Exon power amps – passive line stages	6	٠	•	•				165
ose RV-23	450	You can pay more to get a more transparent sound, but it's hard to criticise at the price	3	٠	12	-				77
otel RC970BX MkII	175	Confident, consistent sound. reviewed (in Sessions) with RB970BXMkII power amps	5		1		•		and a second second	144
otel RC980BX	375	Tames enthusiastically recorded material with a laid back and occasionally smeared sound (tested with RB980BX)	5	•	•		•		and the second s	155
umo Athena IIB	767	Tested with Polaris III. Big, natural and tidy sounding with very natural reproduction of acoustic and electric instruments	6		0				1305	
Ik Hurricane 2L	649	Design of integrity which gets to the heart, if not the soul, of the music	6		-				Contraction of the local division of the loc	165
iorens TTP2000F	699	Glamorous, shoebox-format, minimalist pre with fine detail and some granularity	3	•	•	•			and a second sec	165
oodside SC26 Phono	2,233	Synergistic with STA35, with a cool, controlled sound, good focus and transparency (tested with STA35)	5	•	•					100
ower amplifiers curus A150	899	Tested with DL11 preams Deworful remote central US campo with a clightly forward inclination	1			ACCO -		150	1624	151
chemist Kraken/Pwr	399	Tested with RL11 preamp. Powerful remote control US combo with a slightly forward inclination Hardly accurate, but entertaining nevertheless	1					60	-	124
MC CVT2100A	600	Astonishing value valve/MOSFET hybrid with KT88 output, but lacks the magic of the best valves	1		100			80	the statements	165
rcam Alpha 9P	400	Clear, colourful and well disciplined, the Arcam is a strong all-rounder that can compete with conviction	1	E						165
t Audio Quintet	1,393	Switchable triode, ultralinear output stage. In triode mode, these are 15 of the sweetest Watts around. Surprisingly gutsy	1			1		15		109
ara PA100	700	Can sound slightly aggressive, but it's fast, clean and dynamic, and makes compelling listening	1					100	1	165
idio Innovations S800 Anni		Reviewed with L1 — Explicitly detailed, conveys the message of the music as a whole remarkably well	1					25	1300	
idiolab 8000M	800	Strong, controlled sound; confident bass, but colourless. Tested with 8000Q	1	100	1	6	-	125	1301	
idio Research VT60	2,395	Ranks as 'must try' American cultural item (tested in Statements). Tube design	1	-		1		35	1179	-
opland CTA-505	2,099	Grown up amplifier with a refined, yet never over-civilised air	1	2				67	1630	151
rus Power	450	Tested with Cyrus Pre. Punchy, light footed character with a sense of substance and natural warmth (bridgeable)	1					50		155
ensen DM-30	1,200	Fluid,valve-like power amp with effortless resolution and a slightly dark balance (Statements)	2		2			100		164
PA 200S	750	Dramatic but crisp, open sound belies power rating (tested with DSP-200S)	1		1			60	Part of the local data	124
IR 509 Mk II	3,699	Combining sonic strengths of transistors and valves, this amp warrants attention (tested with 802)	1		-			100	and the second s	63
CA Lectern	880	Tested with Vista. Wind up the volume and blow a breath of fresh music into your system	1					50	1302	
posure XVIII Super	849	Slight dullness and hardness, but great 'boogie factor'	1	1				70	C BOOM	142

R

B

R

R

B

R

R

### MM PHONO INPUT SOLVER OUTPUTS INFORMATE AND A SOLVER OUTPUTS INPUT SOLVER OUTPUTS INPUT SOLVER OUTPUTUTS INPUT SOLVER OUTPUTUTS INPUT SOLVER OUTPUTUTS INPUT SOLVER OUTPUTUTS INPUT SOLVER OUTPUTS INP **POWER AMPLIFIERS (CONTINUED)** 60 165 60 1303 145 200 162 50 165 60 109 60 165

r band vitality, but LF dynamics lacking, and lacks 'grip' and transparency open window on the music, this amp is wide open to RF and low level IM distortions mp with balanced inputs and a transparent, nimble sound with no shortage of power (Statements) ssed imagery with natural, refined textures Passive. Modular system gives cracking results r amp lacks control and finesse, not comfortable with difficult speaker loads ve Preamp. While demonstrating solid, even balance it proved adept at delivering vital musical qualities	1 1 1 1 1		60 60 200 50
mp with balanced inputs and a transparent, nimble sound with no shortage of power (Statements) ssed imagery with natural, refined textures Passive. Modular system gives cracking results r amp lacks control and finesse, not comfortable with difficult speaker loads	1 1 1 1		200
ssed imagery with natural, refined textures Passive. Modular system gives cracking results r amp lacks control and finesse, not comfortable with difficult speaker loads	1 1 1		Distantion of the second
Passive. Modular system gives cracking results r amp lacks control and finesse, not comfortable with difficult speaker loads	1		50
r amp lacks control and finesse, not comfortable with difficult speaker loads	1		
	1		60
ve Preamp. While demonstrating solid, even balance it proved adept at delivering vital musical qualities	1		60
	1		100
scle amp with minimal character and a natural performer in both scale and tone (tested in Statements)	1		160
d imposing presentation is married to strong power yield, tonal colour and finesse	1		100
rarified group of refined, high resolution amplifiers	1		220
) integrated – see for comments, but sounds significantly better when bi-amped with MI120	1		60
t, but detailed, consistent sound quality, and excellent value for money	1		80
nplifier, but no mad cow <sup>1</sup>	1	Mine and	250
n a Nait integrated with some improvements	1		30
colourful, with mild compression	1		85
ed each, dedicated for Hal preamp. Bold, outgoing, in-command kind of sound	1		125
970BX MkII in Sessions (see preamp section)	1	S. C.	60
astically recorded material with a laid back and occasionally smeared sound (tested with RC980BX)	1	Bar Bas	120
ena IIB. Big, natural and tidy sounding with very natural reproduction of acoustic and electric instruments	1	1921	164
	1		65
ly retiring sound which lacks the authority to stand out in a crowd	1		30
, , , , , , , , , , , , , , , , , , , ,	0.0.0	10 x 10 x	35
	ena IIB. Big, natural and tidy sounding with very natural reproduction of acoustic and electric instruments Ity retiring sound which lacks the authority to stand out in a crowd e-box format, but gutsy and surprisingly subtle and articulate	ena IIB. Big, natural and tidy sounding with very natural reproduction of acoustic and electric instruments       1         tly retiring sound which lacks the authority to stand out in a crowd       1         e-box format, but gutsy and surprisingly subtle and articulate       1	ena IIB. Big, natural and tidy sounding with very natural reproduction of acoustic and electric instruments 1 tly retiring sound which lacks the authority to stand out in a crowd 1

## **EXPERIENCE UNRIVALLED REALISM!** For more information or your nearest stockist, 2 (0181) 947 5047 or e-mail 73064.1710@compuserve.com



166

165

165

165

124

165

165

165

144

155

165

165

100

1305 145

1508 133



## Cables

ables are not just accessories, but an integral part of a system. Inevitably some cables are better than others. The best cable for your system will only be found through trial and error, but by combining our recommendations with those of a dealer, you will end up with something suitable. Generally speaking, budget to spend about ten per cent of the total system cost on cables.

Analogue interconnects are the leads that connect source components to amplifiers and pre to power amps. The cables in this section are priced for a one-metre terminated pair.



traditionally coaxial with a 75 Ohm impedance. 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 with brands.



### KEY HETRICAL: A twisted pair of conductors. SOLID CORE: Single or multiple, individually insulated strands. COADAL: A central 'hot' conductor and a shield that carries the COPPER: Material used for conductor. egative signal. TRANDED: Multiple strands with no intervening insulation.

SILVER: Material used for conductor DIG CABLE TYPE: 0 - optical digital, E - electrical digital FACTSBACK NUMBER: The Eactsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page.

ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

	CABLES		a A	MMETRICAL	STRAM	SOLID CO	DIL COPPER SE	ACTSBAC CABLE T LVER	ISSUE NU K NUMBER	MBER
	Product	Price(£)	Comments				V V		<b>v v</b>	
	Analogue Interconnects	1000 - 100								
	Audio Note AN-A	29.50	Not especially impressive, warm but well rounded balance that restricts 'air' but is not unclear			•	•			108
	Audio Note AN-C	59.50	Neutral but lacking in subtle texture and unable to distinguish fine detail				• •		1687	131
R	Audio Note AN-S	139	Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass				•	•	1687	131
	Audio Note AN-V	219	15 individually insulated silver strands make up this very clean and dynamically unchallenged cable			•		•	1687	131
	Audioquest Turquoise	40	A 'fit and forget' cable that sounds distinctly lazy			•	•			160
	Bandridge AL421	5	Light and airy sound lacks authority, splashy treble		•	•	•		1688	131
	Bandridge AL426G	10	Gold plated plug OFC version of AL421 with same inefectual sound quality		•	•	•	6.8	1688	131
	Bandridge SG AL4720	13	4N OF copper, full smooth balance but a little plodding and relentless, lacks panache	8	•	•	•		1688	131
	Bandridge SG+ AL4820	25	4N OF copper, distinctly teutonic, thrusting detail forward but still plodding and relentless		•	•	•		1688	131
	<b>Bandridge</b> ProfiGold PG301	65	A perfect cable for enlivening a system, but too cold for most systems		•	•	•			160
R	Cable Talk Studio 2	65	A first-class performer from tonal, dynamic and rhythmic standpoints			•	•			160
R	Cambridge Audio Studio Re	f 40	Dynamic cable with strong soundstaging and only a slight lack of detail		•	•	•			160
	Chord Chameleon	68	Anomalous treble with a dry but vaguely sibilant quality, sometimes sounds smooth, sometimes harsh!	1		•	•			108
R	Chord Solid	99	Thin but very stiff with excellent resolution of subtle timbral detail and fine dynamics		•		• •	Sin 5		108
R	<b>Connections Midas HD</b>	39	Canary yellow cable with excellent plugs and an open sound. Slight treble glare			•	•			160
B	DNM TCC75	34	Price for 0.75m length. High resolution cable, but best in short runs due to higher than average series impedence				• •		1690	131
	DPA Slink	41	Slightly bright and zingy sound with flat soundstaging and hollow sounding bass, vocals and strings sound convincing t	hough			• •		1690	131
R	DPA White Slink	75	Highly expressive, very easy on the ear and attractively detailed though not entirel characterless at high frequencies				• •		1691	131
R	DPA Black Slink	220	Initially dark and meaty but becoming lucid and transparent with running in. Quad geometry, Gore-tex dielectric				• •		1691	131
#### THE DIRECTORY

CABLES (	CO	NTINUED)	ICAL COA	STRAN XIAL	SOLID DED	CORE	PPPER	SILVER	ACK NUMB	NUI ER
Product P	rice(£	comments	V	V	V	V	V		V	V
wos 104	20	Open and detailed presentation, full bass and silky if overly smooth treble							16	92
kos 103	40	Even handed and generous sound, bass has a well rounded, bouncy quality	-			-			Contraction of the local distance	92
los 103	60	A tad bright and undynamic, this cable is nevertheless a good all-rounder, whose faults are largely subtractive							10.	52
xos 102	100	A cable with personality, its veiled and shut in quality brings an earthiness to vocals and rhythm guitar alike	1			1		•	16	93
FD Spirolink I	35	Price for 0.7m length. Dynamic but smoothly detailed perfomance, but gives the impression of looking down on the music		-				-		94
FD Spirolink II	70	Price for 0.7m length. Strong and confident sound enhancing bass depth and subtlety, concentrates on the meat of the music	•							94
FD Trilink	150	Price for 0.7m length. Warm and luxurious sound but a little too fruity in balance, treble is a little subdued, bass detached					•		200 - D.C.	95
inn Phono to Phono	47	Encourages a delicate performance underpinned by a strong and authoritative bass		•	•		•		the second	95
onster Interlink 200	20	Colourful in an appealing rather than contrived sense, bass is slightly over-blown, large and ingratiating sound stage	•							96
onster Interlink 300	30	Richer, smoother more civilised sound than 200 with improved articulation and reduced sibilance								96
onster Interlink 400	40	Compromised by a grainy top end, treble and vocal range sound particularly sharp and untidy	•		•			100	169	
onster Interlink 500	50	Sounds rather good, providing a livelier and more interesting account of music than most sub £100 cables						100		
onster Interlink 800	80	Not as bright or aggressive as the 400 but streble is trangely lumpy, muted and manipulated - odd cable	•		•		•		169	97
onster Interlink Reference 2	100	Easy on the ear but rather contrived, slightly clanky treble fails to integrate with the smoother but splodgy midband			•	1	•	-	1100 COLOR	97
oth Ley Line Black	100	Offers a full and big sound, neutral yet very solid and condifdent in delivery. Expansive imaging retains music's energy	•		•		•	•		
loth Ley Line Grey	200	Detailed enough but there's a sense of distance between the music and the listener, vox are course rather than liquid	•		•		•	•		1
ordost Black Knight	55	Flat black cable that is distinctive but slightly coloured – but not in a wholly negative manner	•		•		•	8		
anasonic RP-CA910	50	Uncongested and even handed balance if slightly flat imagewise, retains impact but has a vaguexly untransparent quality		•	•		•			
Ivertone Ex-Static	35	Pleasantly unfatiguing and competitively priced cable that lacks detail and insight	20	•	•	6	•			
onicLink Silver Pink	35	Dynamically sensitive and muddle-free. Unsure about the flesh-coloured finish though	•		•			•		
onicLink Black	49	Encourages an upbeat and snappy sound that's driven by leading edges, full and rumbustious bass maintains an even tempo			•		•	•	169	99
ra Labs Prism 11	45	Very compatible cable that wins through with a naturally balanced and realistically dynamic sound. 6N purity copper	•			•	•		169	99
ra Labs Prism 22	56	Delivers a fresh and detailed sound with clear and bright treble giving it a free, quick and dynamic character		•		•	•		170	00
ra Labs Quantum CD	75	Lacking in obvious vices, neutral and transparent, there's also a good solid bass. Vox are not always as intimate as possible		1	2	•	•			
ra Labs Prism 33	90	A pedestrian cable that sounds lively but muddled. Quite dynamic, quite rich, quite smooth but also quite indistinct		•	125	•	•		170	00
ansparent Audio Music Link	119	No aggressive nasties to tax the ears, neither does it sparkle with inspirational detail. Only suited to low output impedances		•	•		•	1	170	01
an den Hul The Storm	25	Price for 0.8m length. Rich and warm but bass is rolled off, however there's plenty of drive and high frequencies are clean		•		٠	•		170	01
an den Hul Source HB	50	(Priced for 0.8m) Hybrid carbon-fibre/copper cable that is a paragon of naturalness. Airy and well controlled		٠	•		•			
n den Hul The First	210	Using 12,000 carbon fibres, a gentle and subtle sounding cable that conveys oodles of information but lacks dynamic punch		٠	•				170	02
an den Hul The Second	225	Wonderfully open and relaxing but also intimately detailed, slightly softens percussive dynamics	•		•		•	•	170	02
.0 Type 150	50	A restrained but useful cable for taming lively CD players, dynamics lack freedom, treble lacks clarity		•	•		•		170	03
LO Type 0.1	180	Unusual but highly expressive and detailed with a hint of graininess on powerful vocals				٠	•		170	03
igital Interconnects										
udio Note AN-V	110	Ostensibly an analogue cable but gives a meaty and natural performance when used for digital duty	•			٠		•	E 170	04
udioquest Optilink Z	120	Good level of midband detail but frequency extremes lack depth and extension							0	
udioquest Digital Pro	100	A silver cable with all the drive of Video Z but lacking its clear cut transparency		٠	•				E	
andridge AL4900G	40	Lacks deep rounded bass and treble is coloured with a spittiness, a little rough and ready			•	2	•		E 170	05
nord Codac	32	A connection with a stranded inner core and a sound that lacks integration		•	•			•	E	
hord Prodac	50	Price for 0.6m length. Lively detailed treble, drives music along confidently with no hint of fizz		٠		•	•		E 170	-
PA Opti-link	20	Very similar to Bandridge AL560; sound is lacklustre				1			0	
PA Digi-link	28	Can seem slightly impassive but there's no avoiding its exceptionally detailed sound		•	•	1	•		E	
os 105	25	Extended but soft edged treble that's mercifully free of fatigueing colourations, plenty of weight, smooth vox		•		•	•		E 170	J7
mber Kable Opti-link	70	Hardly cheap for what appears to be a bog-standard PMNA fibre, yet it sounds a little brighter and livelier than most	1	1	211				0	
D Digilink Copper	30	Slightly grainy highly compatible cable with coherent and forward dynamic quality	-	•		•	٠		E 170	
oth Leyline Datalink	140	A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive		•	•	•	•		E	-
D Digiflex	20	A top performance, low-loss 75ohm coax with a very open, almost liquid quality	-	•	•	•	•		E	1
Itech HF-6	150	Sounds detailed, very clean and very extended, but bass is less well resolved - a treat for high end systems		•	130	•		•	E 170	
nicLink Green	60	Spacious, positive and engaging if a tad over crisp at times, very compelling however		•		•	•	•	E 170	19
n den Hul MC Videolink 75	48	An AV-cum-digital cable that nearly beats QED's Digiflex, but emphasises sibilants		•	The second				E	
n den Hul The First	120	Exceptionally natural albeit slightly dark or cautious compared to some, plenty of subtle information and beautiful integration	1	•	•				E 171	.0
oudpeaker Cables										
dio Note AN-D	4.50	Supplied in linear, non-polarised lengths that should be twisted into stereo pairs. Sounds rather grippy and forward				•	•			
idio Note AN-B	16.50	Well suited to valve systems, elastic bass, methodical but unintrusive and musical	1	1	•		•		171	1



Tel: 0181 348 5676 (2.00-7.00 pm) Fax: 0181 341 9368

# Esoteric High Fidelity CABLES

Dealers in: Absolute, Audio Note, Audioquest, Deltec, Clectrocompaniet, 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.)

			ETRICAL COAXIA	RANDED	O CORE	- 11	ACTSBACK CABLE TV LIVER	ISSUE NUN K NUMBER VPE
roduct F	Price(£)	Comments						V V
idio Note AN-L	29.50	Fruity bass and expressive vocal rendition was appreciated by the panel which was happy to accept its foibles	•		•	28.1	•	1712
idio Note AN-SP	125	A calm and civilised presentation, very quiet in the way it reveals subtle low level detail. Great poise and clarity	•	10	•		•	
idioquest F-14	1.95	Ideal for laying under carpets, F-14 encourages a slightly warm and vibrant sound			٠	٠		
idioquest Type 4	4.95	Four 18-gauge OFHC copper conductors wound in a Litz-type fashion increases capacitance but restrains the cable's 'bite	· •			•		
dioquest Cobalt 2	45	A rather polite and aneamic sound that bubbles gently with detail and is largely uncoloured and cautiously spacious	•			•		
idioquest Crystal	18	Neutral balance is spoiled by some graininess and smearing.	•			•		
ndridge SF LC1070	42p	Basic figure 8 bellwire, lightweight balance and a softness that dilutes even the strongest bass	•			•		1713
andridge SF LC1259	1	Fresh and open, bubbly and naturally colourful soundstage that's neither forced or unduly edgy. Treble is slightly messy	•			•		1713
ndridge Highflex LC2604	3.50	Substantial 6mm2 conductor produces weighty but ploddy music that lacks transparency	•			•	100 m	1714
andridge LC7409	3.85	Detailed and up-beat cable. A bit too steely for classical strings	1			٠	100	1800
able Talk Talk 3.1	2.25	Quite well balanced but tends to lose bass lines in complex music.	•			٠		
ble Talk 4.1	4.25	Smooth and cultured sound that lacks fine detail and is a bit too restrained				•	IS.	1800
ord Myth	5.95	Light and airy tonality may please, but bass is recessed and detail not outstanding.	•	175	•	•		
M LSC350	6.95	Majors on midband and lower treble lucidity at the expense of bass and extreme treble extension.	•		•	•		
NM LSCB500	5.95	High impedance can influence the treble response, but this was a winner on sound per pound. Bi-wire			•	•		1716
PA Black Sixteen	90	Unflappable resolution of fine musical details, there's no dampening of dynamics simply oodles of taut information	•		•	•	•	1717
ale XL189	0.99	Slightly bright and not that subtle, but a perfectly acceptable cable for any starter system.	•			•		
ale XL315	2	A little lacking in detail but plenty of life and excellent value		(		•	12.14	1800
ale XL160-2	2.50	Rhythmic and bouncy sounding bi-wire cable. Slightly manipulative sounding	100			•		1800
pertz M2	20	Remarkably detailed, smooth, neutral and with excellent bass; check amplifier compatibility.	•		•	•		
eybrook Heywire	4	This well-meaning facsimile of earlier ribbon cables ends up sounding lumpy and uneven			•	•		
os 603	2	Big and expansive sounding cable, full and engaging while retaining a high degree of neutrality				•		1718
os 604	5	Midrange is detailed and surprisingly smooth but treble is hard and synthetic and the bass no better	100		•	•		1719
mber 4TC	19.68	A well-balanced cable with good performance in all areas.	•		•	•		
mber 4TC Double-wire	40	A variation on a Kimber classic which produces a rich and weighty sound, but isn't quite as transparent as single runs	100			•		
ission Quartet	7.90	Mixed, inoffensive sound, adds gutteral resonance to vocals and could be generally more coherent. Bi-wire	Sec. 1		•	•		1722
onster Cable XP	1.50	XP offers plenty of slightly soft bass and a slightly rounded treble, a relaxed cable whose indiscretions are not bothersome	9	•	•	•		1723
aim NACA 5	5.11	Described as a 'dinosaur of a cable', this stiff wire rod doesn't belong outside Naim systems. But it works a treat in them				•		
ordost Octava	2.95	Fair bass but confused treble and some coloration.	•		•	•	1	
rtofon SPK100	3	Grey sounding and strips instruments of their natural richness and resonance, a bit bass shy too		199		•		
rtofon SPK300	8	Tremendously open and atmospheric with robust full blooded bass, and dynamic too if slightly bright at times				•		
resonic 7845	1.95	Big, weighty sound — but too messy and bloated for its own good	_					1800
resonic 7891	2.85	Chunky cable design, shame about the sound quality	•			•		1800
ED Qudos	2.50	Despite high tech design and excellent Air-Loc plugs, the music failed to gel				•		1800
ED Profile	9	Good midrange and treble balance, but bass is rather slack and detail not outstanding.	1				1	
ED Profile 8	5	Sophisticated flat cable that lacks decent bass and get up and go				•		1800
lver Sounds 12 gauge	12	Basic 'homemade' construction gives fairly neutral sound, though not outstandingly competitive.	•		•	•		
onic Link \$300	18	Happiest with simple music; apt to smudge detail in complex pieces.	•			•		
onicLink AST50	1.95	It may look like bell-wire, but AST50 sounds detailed, ordered and balanced			•	•		1800
ansparent Audio Musichord	terror and	Sweet, open and refined treble, a bit of breathy exuberance and can sound slightly lackadaisical	No. 1		•	•		1728
ansparent Audio Wave	22.84	Very close to the sound of 'no cable', one of the very best. Slightly softens treble detail	•		•	•		1728
ch+Link OFC79	1	Bargain basement cable that sounds cosy, but suffers from a wobbly bass			•	•		1800
an den Hul The Clearwater	6	Despite its evocative title, the Clearwater turns out to be a disappointingly murky sounding cable			•	•	•	
an den Hul CS122	19	Smooth and articulate with superb focus and control, its sheer coherence makes it a winner (tested in Sessions)	100		•	•	•	
an den Hul The Magnum	31	Touted as vdH's most prestigious twinlead cable, Magnum sounds soft and old fashioned	No.		•	•	•	
an den Hul The Wind	35	'The Wind' kicks up a storm with its lush midrange and bone-crunching bass!			•	•	•	
an den Hul Revolution	64	Silver plated OFC combined with carbon fibre prompts a sombre character with an easy and relaxed treble			•	•	•	1726
LO Pro Type 625	4	Lively but natural and relaxed sounding but a hint of congestion at frequency extremes	100	and a	10 - 11 - 12 - 12 - 12 - 12 - 12 - 12 -	•	•	1726



# Cartridges

artridges fall into two groups: high output MM (moving magnet) models, capable 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 designs need a

transformer to cope with MC cartridges.

■ Cartridge/amplifier interfacing can be very subtle, but even basic high output MM designs benefit in overall balance from optimised amplifier capacitance loading.



MM: Moving magnet cartridge with vinyl disc amplifier inputs. MC: Moving coil cartridge with a lo		REPLACEABLE STYLUS: Most MM cartridges have a stylus that	OUTPUT (MV): Cartridge output in millivolts. MASS (g): Cartridge mass can affect arm choice. FACTSBACK NUMBER: The Factsback reference for ordering a fax	copy of the review. ISSUE NUMBER: Th review appeared.	ie issue of Hi	Fi Choice	in which	the original
CARTRID	GES			REPLACE MM	ABLE STYLUS	FACTSE	ACK NUM SS (g)	UE NUMBER BER
Product	Price(£)	Comment			VV		V	
Audio Note lo IIV	1,395	One of the best, giving an extraordinarily relaxing midrange clarity. N	leeds a transformer		•	0.1	1	100
Audio Technica AT-95E	19	Clear and dynamic, though richly balanced.				2.8	2	48

CARTRIDO	GES	S (CONTINUED)	MM	BLE ST	FACT. OUTPUT (MI YLUS	HACK M HASS (9)	SSUE NUL UMBER
Product F	Price(£	:) Comment	V	V	VA		
Audio Technica ART-1	944	This is a delicate and very fluid-sounding MC that tracks well		•	0.4	9	
Denon DL110	70	A fine all-rounder, this high output MC model is likely to perform well		•	1.0	-	
Denon DL160	90	Although listeners just preferred the 110, its brother here survived lab tests and is still 'thoroughly competent'	1	•	0.1		
Denon DL103	100	Good performance in bass and good 'life'. Is seriously let down by its spherical stylus which kills subtle detail	25	•	0.1	6	1. P.
Denon DL304	200	Uncoloured, detailed, tracks superbly. Top notch altogether and a bargain too	1	•	8		
Dynavector Karat 17D2 mk2	449	Clean and controlled sound with taut, tuneful bass. Detailed and musically cogent		•	0.15	5.3	avie -
Dynavector XX-1L	998	Very clear, very detailed, a response lift around 20kHz seems to do no harm		•	0.25	12	
Dynavector XX-1	998	Good, but not immensely competitive at the price, and not helped by comparison with the low output version		•	2.0	12	1
Goldring Elan	19	A lightweight and frisky-sounding MM apparently based on Nagaoka MM4 body	•		• 5.0	7	199
Goldring 1012GX	65	Slightly harsh but plenty of life and detail. Some high frequency colouration apparent	٠		• 6.5	7	
Goldring 1022GX	99	As with 1012, a touch harsh; detail and transient purity improved	٠		• 6.5	7	
oldring Eroica LX	110	Not the most subtle cartridge in the world: can sound edgy at times, but lively and informative		•	0.5	8	a inter
Goldring 1042	120	Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively though	•		• 6.5	6	
Goldring Elite	220	The basics are right, and it will cheerfully tackle any source material, but its sound has a certain dirtiness		•	0.5	8	
irado Prestige Gold	150	Rich sounding with an unusually refined top-end for a moving magnet-type cartridge	•		• 4	6	
inn K9	150	Linn improved this model by beefing up the Basik's bodywork and adding a super stylus	•		• 4.5	5	
ondon Decca Maroon	259	Now manufactured under the London brand name, this Decca cartridge is as iconclastic as eve.	•		5.0	6	
ondon Decca S Gold	339	Immediate and detailed, but coloured, nonlinear with a questionable effect on records	•		5.0	6	
yra Lydian	699	Superbly capable all-round musical performer that improves markedly when its body cover is removed	10	•	0.3	7	
yra Clavis Da Capo	1,069	A stable tracker, and one of the finest cartridges we've heard		•	0.1	7	21
Irtofon 510/P	38	For the price, a good blend of virtues – weight, clarity and neutrality	•		• 3.0	5	
rtofon 520/P	65	Sensitive to load capacitance, the 520/P has a lively, effervescent sound	٠		• 3.0	- 5	
rtofon MC10 Super	100	"What a delightfully sweet-sounding cartridge this is" we said	1		0.3	7	
rtofon MC3 Turbo	130	The 3 Turbo is bright, cheerful and bouncy, but unsubtle – take it as it comes		•	3.3	4	
rtofon MC15 Super II	130	A good all-rounder, with outstanding resolution, if slightly bright and clos up		•	0.35	7	
rtofon MC25E	180	An excellent upgrade for a mid-price turntable		•	0.5	11	
rtofon MC25FL	249	A bit too stark and honest, but faithful to what's on the LP		•	0.5	11	
rtofon MC30 Supreme	525	Highly detailed and even-sounding cartridge that has a special affinity with female vocal recordings		•	0.5	10.7	
	1,100	A real eye-opener. Nothing to criticise anywhere, one of the very best		•	0.12	-	
all the second sec	1,500	Limited tracking abiity, bright and forward sound, but good stereo		•	0.12		
ega Bias	39	Difficult to mount in some arms due to its shallow build, the Bias offers a gentle, refined sound	 •		• 5	-	
ega Elys	85	Clearly superior to the Bias, the Elys is both more detailed, accurate and convincing	 ٠		• 5.0	B	
oksan Corus Black	130	Recognisably related to the Corus Blue, but more civilised and smoother	•		• 6.5		
an den Hul MM-1	250	If woody midrange could be tamed, imaging and security would pull it through	 ٠		• 5.5	6	
an den Hul DDT-II	699	Outstanding stereo imaging and neutral balance are appealing, but rhythmically the DDT-II is a bit lazy	-	•	0.35	-	
an den Hul MC-10	799	A neutral, balanced performer gives, fine depth and focus and a firm, extended bass		•	0.4		
an den Hul MC-One	999	This extended all the positive qualities of the 10, but added greater authority and scale – worth all the extra money	 1	•	0.4	100	
	1,349	MC-Two rewards with a highly deailed yet fluid and musically covincing portrayal		•	0.4	APRO P	
an den Hul G'hopper IIIGLA	2,999	Undoubtedly one of the finest cartridges available, it has tremendous bandwidth, energy and finesse		•	0.4	6	



# **Cassette Decks**

he compact cassette is still the world's most versatile and ubiquitous music storage medium. Buffs may wrinkle their noses, but they all use it.

There should be no problems in connecting a cassette deck to any normal amplifier, but some care needs to be taken in choosing the best tapes for a specific machine. (Trial and error is one effective technique, but many decks have manual bias adjustment and some match up to the tape automatically.)



Twin decks offer the option to dub tapes and play two cassettes

sequentially. Autoreverse is a useful feature, but usually implies some

#### KEY

DOLBY C: A rather extreme noise-reduction system not usually associated with high sound quality. DOLBY S: A desirable derivative of the Dolby SR professional noise-reduction system. DOLBY HX:-RRO: System designed by B&O to extend headroom

for cassette recording. 3-HEAD: If you want to monitor a recording while you are making it, a third head is essential. TWIN DECK: Contains two decks for dubbing and continuous play. In most instances only one deck will record. AUTOREVERSE: Automatically plays both sides of the cassette. AUTO CALIBRATION: The deck will automatically set up bias and EQ forany tape. ADJUSTABLE BIAS: Bias can be manually set to suit the tape being used. FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page. ISSUE NUMBER: The issue of *Hi-Fi Choice* in which the original review appeared.

CASSET		ove	DOLEN DOLEN	W HX PO	TWIN 3-HE	AUTO CA	ADJUSTAS UBRATIO	BACKN	SSUE NUL	MAR
CASSET		Comments		5 .4	0 40	-40 -4	SE IUN	, - <i>14</i> 5	~CA	~CA
Aiwa AD-F450	120	Basic but well designed budget deck, astonishing value; only the poor metering gives the game away	•	-	•	1.			1513	136
Aiwa AD-WX727	170	High class twin for those who want bells, whistles - and music			•		•		1377	146
Denon DRM-550	160	There are some technical limitations, but this remains a fine sounding deck, and excellent value			•		2 3			158
Denon DRS-640	200	Draw loading deck, with simple facilities and smooth, well adjusted sound	•		•		5 65		1591	140
Denon DRM-650S	230	An all-round improvement on predecessors, offers a wide ranging, disciplined sound. Dolby S is not the best feat	ure 🔹	•	•		•	•		164
Denon DRM-740	270	Breathed-on DRM-710, with good external treatment offers good, if somewhat detached sonics	•		•	•		•	1514	136
Denon DRS-810	310	Draw loading deck, carefully designed yet lacking in subtlety on audition	•		• •			1		127
Grundig CCF3	200	Simple, sensible and well-built twin, but lack of pitch stability compromises performance	•		•	•	•	•	1379	146

## **CASSETTE DECKS (CONTINUED)**

Product	Price(£)	Comments			V						
Harman/Kardon TD420	280	Minor inconsistencies detract from a well conceived, minimum features design	•		•		•			1592	14
Harman/Kardon TD450	350	Draw loader with poor tape navigation features; good midband but shallow bass	•		•	•			•		16
IVC TD-R472	200	Excellent auto-reverse deck which doesn't suffer the usual disadvantages and is very sharply priced	•		•		•		•		1
JVC TD-V562BK	220	Ultra-sophisticated transport at a silly price; sound quality is stable but slightly opaque	•		•	•			•		1
JVC TD-V662BK	270	Assured, clean and agile sounding recorder, if not quite the most refined in its class	•		•			•	•	1380	1
Kenwood KX-7060S	329	Although slightly dull sounding with prerecorded tapes, this is a well equipped and fine sounding deck	•	•	•	•		•	•	1381	1
NAD 613	230	Rough and ready, but enjoyable sound, though marred by mechanical motor noise	•		•				•		1
NAD 614	270	Solid, workmanlike and ungimmicky player with a sound to match, a little pricey by the standards of its class	•		•		41 40				1
NAD 616	300	Double deck whose music sounded shut in and prosaic, as though its energy content had been ironed flat	•				•			1648	1
Onkyo K-611	430	Cute drawer loading mini-size component with 3-heads and dual capstan transport	•		٠			•	•	1384	1
Pioneer CT-S500S	250	Great features, good with cheap low-bias tapes, but slightly synthetic quality	•	•	٠	•		•		- 020	1
Pioneer CT-S830S	500	High class mechanism, if lacking in battleship externals, and superb sound	•	•	•			•	•	1385	1
Sony TC-KE550S	230	Warm, enjoyable music making, but assisted tape setup routine gives inaccurate results	•	•	•	•			•		1
Sony TC-KE600S	300	Mild setting-up problems notwithstanding, this UK-tweaked design has a smooth, open and un-cassette-like sound	•	•	•	•		•	•		1
Technics RS-AZ6	230	For those who can't afford the RS-AZ7; exquisite clarity over the widest bandwidth thanks to AZ thin-film head	•		•	•		•			1
Technics RS-AZ7	300	Thin-film head gives a solid, almost CD-like bass and midrange. A clear advance in the state-of-the-art	•		•			•	•		1
Yamaha KX-490	199	Electrifyingly transparent and capable deck whose only flaw is a trace of audible wow and flutter	•		•			•	•		1



DAC

# CD Players brought to you in association with

 $\wedge$ 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 below). To do this the player needs a digital output of either electrical or optical persuasion; sonically the former is preferable. A CD player can be split into two basic components: the disc drive or

II CD players offer a basic selection of facilities, and some can transport, and a device which turns the digital bitstream coming off the disc into an analogue audio signal. This is called a digital to analogue convertor, or DAC. Although most players are contained in a single box, expensive players are usually two-box affairs.

4010 CAD STORACK SSUE NUMBER DOLBY 11 PRO CALBUSTARICK NUMBER DOLBY 11 PRO 2-HEAD HEAD STORAGEN AND ALL AND A

DOLBY



#### KEY ELECTRICAL DIGITAL OUTPUT: For electrical connection to an AT&T OPT DIG OUTPUT: High-speed optical output to be controlled output. outboard DAC used with similarly equipped DACs. MULTI-DISC: Equipped with a carousel or multi-tray sys-AES/EBU ELEC DIG OUTPUT: Balanced digital output to be used BAL ANALOGUE OUTPUT: Balanced analogue output for tem for continuous play of multiple discs. DAC TYPE: Digital to analogue convertor: BS – Philips with similarly equipped DACs. OPTICAL DIGITAL OUTPUT: For optical connection to an outboard amplifiers equipped with balanced inputs. HEADPHONE SOCKET: For can users. Bitstream, MB - multibit, Hyb - hybrid of multibit and bit-VARIABLE OUTPUT: Remotely adjustable, volumestream technologies, 1bit - single bit types such as MASH,

bitstream, PWM, etc FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page. ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

		ELC 4ESC OPTION	ATE	BAL	Hr				FAD		
		ELEC DETRAL OUTPUT	DIGIT	OPT D	NALDGUL G OUTPU	OPHON OF	ARIABLE SOCKET	MULI	FACTSBACK N DAC TYPE	SSUE NU UMBER	Un.
CD PLAY	ERS	fu <sup>qtu</sup>	·* 00	TOT	OUT PU	TPU	TUCKET	TPUT	OISC TYPE	MBER	. 11
Product	Price(£	) Comments									
Acurus ACD11	899	First rate if costly player from the US, which combines a delightful transparency with an uncontrived naturalness	•						1bit		
Arcam Alpha 7	320	Very detailed for a budget player with a slick and free sense of dynamics, needs careful ancillary matching	•		1				Hyb	1872	
Arcam Alpha 8	520	Refined, intricately detailed but a little cautious, this should be broadly compatible with a variety of amps	٠						BS	1873	
Audio Innovations Alto	399	Refreshing piece of audio sculpture belies inconsistent audio behaviour	•					10	BS	1635	
Audiolab 8000CD	1,000	Developed according to the Green Cross Code of digital audio with an elegant but safe musical presentation	•			Sec. 1			BS	1874	and and a
Audio Research CD1	3,290	Suspends disbelief with a frighteningly real yet obviously coloured sound. A rare proposition among CD players	•	٠	•	٠			BS	1875	2000
Cambridge Audio CD4	150	Basic appearance and sluggish track access/track search belies its up and at 'em sound quality	•						Hyb	1268	
Cambridge Audio CD4SE	200	Among the best players we have encountered at the price, considerably more refined and convincing than CD4	•						BS	1877	Contraction of the
Cambridge Audio CD6	300	A sharp, lively and articulate player, a real thoroughbred in fact, perhaps too sharp and lively for some systems	•				•		BS		20110
Copland CDA-288	2,199	A gentle giant of a player that errs in favour of pastel shades rather than bold daubs of colour, one for refined tastes	•		٠				MB	1880	
Denon DCD-625	200	DCD-615 replacement is generously equipped but lacks sophisticated sound of its forebear	•						MB	1269	
Denon DCD-825	240	Despite extensive revisions, this latest player still sounds like a typical 18-bit Denon, which is no bad thing!	•		•				MB	1531	
Denon DCD-1015	350	Excellent, middle range player – fast, fluid and lean	•	•	•				MB	1599	J
Denon DCD-3000	1,000	Sings with the temperament of a huge orchestra under the baton of a timid conductor, but very agreeable at that	•		•	12			MB	1881	
Eclipse CD101a	80	If you want to know the sound of high order distortion, this is probably as good a place to start as any							MB		
Harman/Kardon HD710	200	Player of integrity, but can sound a tad hard and rough when extended, and is somewhat amplifier fussy	•					•	1bit		I
Harman/Kardon HD730	300	Competitive at the price, with a coloured but dynamic and outgoing sound supported by a raft of user features	•			2			BS		1
IVC XL-V284BK	140	Featuring a new set of bitstream innards, this flexible player has a refined, if occasionally unpredictable sound	•		•			•	1bit	1270	J
VC XL-Z574	250	Strong resolving power and good midband and dynamics, but slightly raw and thin			•	1000		•	1bit		1
NC XL-Z674BK	300	Even handed, but glosses over the most intimate moments	•		•	Sec.			1bit	1637	ſ
Kenwood DP-3080	170	Bold, dynamic and outgoing sound, though somewhat aggressive. Poor build quality and finish		100	•				1bit		1
Kenwood DP-7090	400	A lively and compelling performer with an even-handed and coherent disposition	•	16	•				MB	1885	5
Krell KPS 20i	9,900	Forthright, edge-of-the-seat sound with outstanding bass performance (tested in Statements)	•	٠	•	•	•		MB	1734	ŗ
Linn Mimik	875	Useful multi-room features matched to strong bass, but poor imagery and transparency	•						Hyb	1762	
Marantz CD-67	270	Dynamic, authoritative, and wide tonal response, but also shut-in and mid-forward balance	•		•				1 bit		
Marantz CD-67SE	350	Refined, enjoyable player, though ultimately a little soft-centred	•		•	20			BS		1
Marantz CD-17	800	Fabulous packaging and an excellent all round performer: smooth, detailed and consistent	•		- And	1			BS	1763	3
Meridian 508 (20-bit)	1,685	Combines a delicate mid and treble with rich, opulent bass and has impressive low-level resolution	•		•		•	2	BS	1886	;
Micromega Minium	350	Dynamically weak and some roughness offsets the pleasing tonal balance, articulate mid and strong bass	•						1 bit		1
Mission dAD3	598	This front loader has a relaxed style of delivery that convinces with guile and subtlety rather than orchestral ordnance	1		14				BS	1887	ī
Monrio Privilege	995	Costly and well engineered, but ultimately rather heavy-handed and dull, if refined player	•						MB		The second
Musical Fidelity E60	299	This entry level player lacks proper stereo localisation and clarity	•		•	1			- 1		1

Product		ELEC <sup>AESTEDU OPTI DIGITAL OUTPU Comments</sup>	AT&		NALOGUE O G OUTPUT		<b>A</b>	FACTSE MULTI-DISC TPUT		SSUE NU UMBER
Musical Fidelity FCD	The C	A forward disposition makes this perfect for Fenders but less appropriate to Guarneris	•			•			BS	
Myryad MC100	700	A little extra get-up-and-go wouldn't go amiss, but its sheer maturity and composure ensure listenability	•						20.0	1889
NAD 512 NAD 514	250 370	Simple, well focused presentation, and articulate with it, though hard-nosed quality is not everyone's cup of tea	-	1			•		1 bit	1639
Naim Audio CD3	978	Boisterous sound, but undeniably attractive The idiosyncratically packaged CD3 is solid and highly articulate. Always has its feet on the ground though					-		-	1765
Naim Audio CD2	1,998									1890
Onkyo DX-7210	260	Well-bred CD player features an unusual digital filter is smooth and cultured without appearing grey or boring	•		•		•		BS	1273
Onkyo DX-7510	400	Strongly flavoured, assertive sound	٠		•		•		BS	1640
Orelle CD-100EA	649	Excellent imagery, timing and transparency, and readily upgraded or reconfigured	٠	•	•			12 22	MB	
Philips CD-721	130	Surprisingly well sorted, articulate if slightly lossy and attractively presented sound. Captive signal lead							1 bit	
Philips CD-740	170	One of several Philips players using hybrid DAC technologies. Still sounds insufferably boring, however	•	-	•		•		-	1567
Pioneer PD-204	150	Generally easy on the ear, but can bite back, especially with complex high frequency music content. Well endowed	•	-	•		-	•	1 bit	1891
Pioneer PD-S705 Pioneer PD-S904	300 400	A dichotomy, this machine was loved by some for its articulacy and disliked by others for sounding too impressive!		-						1641
Pioneer PD-S505 Precision		Too much legato – literally – in sound, but a very smooth performer Assured, fluid sounding player, with great spatial coherence					•		1 bit	1041
Quad 77	900	A true thoroughbred combining a penetrating insight into detail with poise rarely found at the price								1893
Roksan DP3P	1,595		•							1896
Rotel RCD-970BX	350	A combination of solid build, useful facilities and an attention grabbing sound make this a winner	•			E.			BS	1897
Rotel RCD-975	849	Bright and superficially detailed, this deck can sound coarse and inarticulate	•						1000	1767
Sherwood CD-4030R	180	Easy on the ear, smooth sounding player, with limits set by the slightly soft, compressed quality – and messy facia	8		•		•	•	BS	
Sherwood CD1	1,100		•		•					1899
Sony CDP-XE900E	300	Refined and analytical disc scavenging tool, but there are some distinctive colourations making auditioning vital			•				BS	1040
Sony CDP-XA2ES	400	Strong willed, heavyweight sound; not for the feint hearted	•		•		•		BS 1 bit	1642
Teac 3450SE Teac CD-5	200 350	For once a budget player where the gadgets take second place to respectable, budget amplifier-friendly sonics Bright, breezy and up-beat – but short in the trouser department	•	-	•				Second and a	1643
Teac VRDS-7	650	Although bold and outgoing, this player can sound both intrusive yet lacking fine detail	•		•					1769
Teac VRDS-25	1,300				•					1903
Technics SL-PG480A	140	Full driving sound, but somewhat uneven in balance with a unsubtle, slightly harsh top end					-	•	1 bit	
Technics SL-PS770A	250	A mellow sounding player that never quite rouses from its slumber to really tackle the music at hand	•		•		•		BS	1278
Trichord Genesis	599	Modified Pioneer PD-S504 that's a bit like a Williams Renualt Clio — astonishing at the price (tested in Sessions)	٠		•		•	•	BS	1753
Trichord Revelation	799	Well ordered and clean sound that may be a little too refined for some, images well	٠			11/2 20	•		1 bit	
Yamaha CDX-490	170	Big, blowsy sound, is undermined by lack of precision and focus			•		•	States and the second second	1 bit	
Yamaha CD-X890	350	Clearly a quality product in every sense, the Yamaha provides a spacious, refined and tuneful account of the music	•	E	•	1	•	•		
TRANSPORTS Arcam Delta 250	800	Arcam's best effort yet is a new design based on Philips CDM9 transport. Specification includes Sync Lock facility	•						-	1491
Audiolab 8000CDM	1,400			•					-	1451
Audiomeca Kreatura SE	1,450		•		•				MB	
Audiomeca Mephisto	2,100		•		•				and the second se	1320
Linn Karik	1,750		•		•	2			-	1323
Meridian 500						100	1807	18 32	-	1103
mortulali JUU	1,245		٠		•	_	a la como			1104
Mission Discmaster	1,245 1,500	Used with the 563 DAC, the combination is thin, brash and uncomfortable	•							1104
Mission Discmaster Pink Triangle Cardinal	1,500 875	Used with the 563 DAC, the combination is thin, brash and uncomfortable	•						-	1324
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda	1,500 875 2,250	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail	•	•	•				-	
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3	1,500 875 2,250 1,295	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material	•	•	•				- L bit	1324 1106
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1	1,500 875 2,250 1,295 550	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1)	•	•	•				- L bit -	1324
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700	1,500 875 2,250 1,295 550 900	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining	• • • • • •	•	•				- L bit -	1324 1106 1325
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S	1,500 875 2,250 1,295 550 900 4,000	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks	•	•	•				- l bit - -	1324 1106 1325 1493
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700	1,500 875 2,250 1,295 550 900	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining	• • • • • • • • •		•				- l bit - -	1324 1106 1325
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II	1,500 875 2,250 1,295 550 900 4,000 2,298	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs	• • • • • • • • •		•				- L bit - - -	1324 1106 1325 1493
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000	1,500 875 2,250 1,295 550 900 4,000 2,298 999	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble	• • • • • • • • • • • • • • • • • • •						- l bit - - -	1324 1106 1325 1493
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Irichord Digital Turntable Wadia 8 DACS	1,500 875 2,250 1,295 550 900 4,000 2,298 999 699	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer		•					- L bit - - - - - -	1324 1106 1325 1493 1494 1495
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Trichord Digital Turntable Wadia 8 DAC:S Arcam Black Box 50	1,500 875 2,250 1,295 550 900 4,000 2,298 999 699 3,195 480	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades		•					- L bit - - - - - - - - -	1324 1106 1325 1493 1494 1495 1495
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Trichord Digital Turntable Wadia 8 DAC:S Aream Black Box 50 Arcam Black Box 500	1,500           875           2,250           1,295           550           900           4,000           2,298           999           699           3,195           480           750	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC.		•					- bit          -	1324 1106 1325 1493 1494 1495
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Trichord Digital Turntable Wadia 8 DAC:S Aream Black Box 50 Arcam Black Box 500 Audio Note DAC1	1,500           875           2,250           1,295           550           900           4,000           2,298           999           699           3,195           480           750           600	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer		•					- I bit - I bit - I - I - I - I - I - I - I - I - I - I	1324 1106 1325 1493 1494 1495 1495
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Irichord Digital Turntable Wadia 8 DACS Aream Black Box 50 Arcam Black Box 500 Audio Note DAC1 Audiolab 8000DAC	1,500 875 2,250 1,295 550 900 4,000 2,298 999 699 3,195 480 750 600 900	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail							L bit L bit - - - - - - - - - - - - - - - - - - -	1324 1106 1325 1493 1494 1495 1495
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Irrichord Digital Turntable Wadia 8 DACS Aream Black Box 50 Arcam Black Box 500 Audio Note DAC1 Audiolab 8000DAC Audiomeca Elixir	1,500 875 2,250 1,295 550 900 2,298 999 699 3,195 480 750 600 900 745	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE – see above		•					- I bit      - - - - - - - - -	1324 1106 1325 1493 1494 1495 1506 1519
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Irichord Digital Turntable Wadia 8 DACS Aream Black Box 50 Aream Black Box 500 Audio Note DAC1 Audiolab 8000DAC Audiomeca Elixir Cambridge Audio DACMagic :	1,500         875         2,250         1,295         550         900         4,000         2,298         999         699         3,195         480         750         600         900         745         2	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE – see above Superb value DAC that makes the jump from good to outstanding if balanced outputs are used (tested in Sessions)				•			L bit L bit - - - - - - - - - - - - - - - - - - -	1324 1106 1325 1493 1494 1495 1495
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Irrichord Digital Turntable Wadia 8 DACS Aream Black Box 50 Arcam Black Box 500 Audio Note DAC1 Audiolab 8000DAC Audiomeca Elixir	1,500         875         2,250         1,295         550         900         4,000         2,298         999         699         3,195         480         750         600         900         745         2         2,995	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE – see above Superb value DAC that makes the jump from good to outstanding if balanced outputs are used (tested in Sessions) Highly advanced, with adjustable dither. but the different settings only lead to compromise							L bit L bit - - - - - - - - - - - - - - - - - - -	1324 1106 1325 1493 1494 1495 1506 1519
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Frichord Digital Turntable Wadia 8 DACS Arcam Black Box 50 Arcam Black Box 500 Audio Note DAC1 Audiolab 8000DAC Audiomeca Elixir Cambridge Audio DACMagic 3 DPA PDM256	1,500         875         2,250         1,295         550         900         4,000         2,298         999         699         3,195         480         750         600         900         745         2	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE – see above Superb value DAC that makes the jump from good to outstanding if balanced outputs are used (tested in Sessions) Highly advanced, with adjustable dither. but the different settings only lead to compromise							L bit L bit - - - - - - - - - - - - - - - - - - -	1324 1106 1325 1493 1494 1495 1506 1519
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Frichord Digital Turntable Wadia 8 DACS Arcam Black Box 50 Arcam Black Box 50 Arcam Black Box 50 Audio Note DAC1 Audio Note DAC1 Audiolab 8000DAC Audiomeca Elixir Cambridge Audio DACMagic : DPA PDM256 Linn Numerik	1,500         875         2,250         1,295         550         900         4,000         2,298         999         699         3,195         480         750         600         900         745         2         2,995         1,400	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE – see above Superb value DAC that makes the jump from good to outstanding if balanced outputs are used (tested in Sessions) Highly advanced, with adjustable dither. but the different settings only lead to compromise A new 20 bit DAC and revised Karik transport have cleaned up; but sounds a tad dry and humourless							L bit L bit L bit L B B B B B B B B B B B B B B B B B B	1324 1106 1325 1493 1494 1495 1506 1519 1521 1323
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Frichord Digital Turntable Wadia 8 DACS Arcam Black Box 50 Arcam Black Box 50 Arcam Black Box 50 Audio Note DAC1 Audiola 8000DAC Audiomeca Elixir Cambridge Audio DACMagic : DPA PDM256 Linn Numerik Meridian 563	1,500         875         2,250         1,295         550         900         4,000         2,298         999         699         3,195         480         750         600         900         745         2         2,995         1,400         795	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE – see above Superb value DAC that makes the jump from good to outstanding if balanced outputs are used (tested in Sessions) Highly advanced, with adjustable dither. but the different settings only lead to compromise A new 20 bit DAC and revised Karik transport have cleaned up; but sounds a tad dry and humourless							L bit L bit L bit L B B B B B B B B B B B B B B B B B B	1324 1106 1325 1493 1493 1494 1495 1506 1519 1521 1521 1323 1103 1104 1106
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Frichord Digital Turntable Wadia 8 DACS Aream Black Box 50 Aream Black Box 50 Aream Black Box 500 Audio Note DAC1 Audiolab 8000DAC Audiomeca Elixir Cambridge Audio DACMagic : DPA PDM256 Linn Numerik Meridian 563 Mission Dacmaster PS Audio WitraLink 2 HDCD PS Audio Ref Link	1,500         875         2,250         1,295         550         900         4,000         2,298         999         699         3,195         480         750         600         900         745         2,200         2,995         1,400         795         1,500         2,590         4,550	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE – see above Superb value DAC that makes the jump from good to outstanding if balanced outputs are used (tested in Sessions) Highly advanced, with adjustable dither. but the different settings only lead to compromise A new 20 bit DAC and revised Karik transport have cleaned up; but sounds a tad dry and humourless Warmer but no less detailed than the earlier 200-series, the 563 flies with a top rate transport Powerful performance – large and beefy without sounding fierce or aggressive (price includes Discmaster) With Lambda transport, the sound positively sparkles with colour and resonant detail Consolidates reputation of PS Audio for high performance digital electronics							L bit L bit L bit L B B B B B B B B B B B B B B B B B B	1324 1106 1325 1493 1493 1494 1495 1506 1519 1521 1521 1323 1103 1104
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Frichord Digital Turntable Wadia 8 DACS Aream Black Box 50 Aream Black Box 50 Aream Black Box 500 Audio Note DAC1 Audioneca Elixir Cambridge Audio DACMagic : DPA PDM256 Linn Numerik Meridian 563 Mission Dacmaster PS Audio Ref Link Roksan Attessa ATT-DA2/DSS	1,500       875       2,250       1,295       550       900       4,000       2,298       999       699       3,195       480       750       600       900       745       2,200       2,995       1,400       795       1,500       2,590       4,550       1,145	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE – see above Superb value DAC that makes the jump from good to outstanding if balanced outputs are used (tested in Sessions) Highly advanced, with adjustable dither. but the different settings only lead to compromise A new 20 bit DAC and revised Karik transport have cleaned up; but sounds a tad dry and humourless Warmer but no less detailed than the earlier 200-series, the 563 flies with a top rate transport Powerful performance – large and beefy without sounding fierce or aggressive (price includes Discmaster) With Lambda transport, the sound positively sparkles with colour and resonant detail Consolidates reputation of PS Audio for high performance digital electronics Not							Hyb BS MB BS BS BS BS BS MB DS MB MB MB MB MB MB MB MB MB MB	1324 1106 1325 1493 1494 1495 1506 1519 1521 1323 1103 1104 1106 1069
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Frichord Digital Turntable Wadia 8 DACS Aream Black Box 50 Aream Black Box 50 Aream Black Box 50 Aream Black Box 50 Audio Note DAC1 Audiolab 8000DAC Sambridge Audio DACMagic : JPA PDM256 Linn Numerik Meridian 563 Mission Dacmaster PS Audio UltraLink 2 HDCD PS Audio Ref Link Roksan Attessa ATT-DA2/DSS Feac D-T1	1,500         875         2,250         1,295         550         900         4,000         2,298         999         699         3,195         480         750         600         900         745         2,000         2,995         1,400         795         1,500         2,590         4,550         1,145	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE — see above Superb value DAC that makes the jump from good to outstanding if balanced outputs are used (tested in Sessions) Highly advanced, with adjustable dither. but the different settings only lead to compromise A new 20 bit DAC and revised Karik transport have cleaned up; but sounds a tad dry and humourless Warmer but no less detailed than the earlier 200-series, the 563 flies with a top rate transport Powerful performance – large and beefy without sounding fierce or aggressive (price includes Discmaster) With Lambda transport, the sound positively sparkles with colour and resonant detail Consolidates reputation of PS Audio for high performance digital electronics Not							Hyb BS MB BS BS BS Hyb BS BS MB BS MB MB MB MB MB MB MB MB MB MB MB	1324 1106 1325 1493 1493 1494 1495 1506 1519 1521 1521 1323 1103 1104 1106
Mission Discmaster Pink Triangle Cardinal PS Audio Lambda Roksan Attessa ATT-DP3 Teac VRDS-T1 Teac P-700 Teac P-2S Theta Data Basic II Thorens TCD2000 Trichord Digital Turntable Wadia 8 DACS Aream Black Box 50 Aream Black Box 50 Aream Black Box 50 Audio Note DAC1 Audiolab 8000DAC Audioneca Elixir Zambridge Audio DACMagic : DPA PDM256 .inn Numerik Aeridian 563 Mission Dacmaster PS Audio WItraLink 2 HDCD PS Audio Ref Link Roksan Attessa ATT-DA2/DSS	1,500       875       2,250       1,295       550       900       4,000       2,298       999       699       3,195       480       750       600       900       745       2,200       2,995       1,400       795       1,500       2,590       4,550       1,145	Used with the 563 DAC, the combination is thin, brash and uncomfortable Powerful performance – large and beefy without sounding fierce or aggressive (price includes Dacmaster) Sound quality is warm but over-polished compared to PT Ordinal (tested with DaCapo and DC PSU) With Ultralink Two, sound positively sparkles with colour and resonant detail Not the most detailed or refined but capable of good excitement with the right material Superb quality engineering is mated to tidy and composed sound (tested with D-T1) Tested with D-700, low resolution sound is warm, bubbly and entertaining The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks Uses a Philips CDM-9 Pro mechanism a works a treat with more lively DACs Lively and up-front presentation not helped by rather loose bass and splashy treble Very detailed, precise, controlled yet involving; a first-rank performer Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades Sophisticated unit with sync lock and discrete DAC. Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer Basically very honest sound, but lacking the last degree of fine detail DAC was tested with Kreatura SE – see above Superb value DAC that makes the jump from good to outstanding if balanced outputs are used (tested in Sessions) Highly advanced, with adjustable dither. but the different settings only lead to compromise A new 20 bit DAC and revised Karik transport have cleaned up; but sounds a tad dry and humourless Warmer but no less detailed than the earlier 200-series, the 563 flies with a top rate transport Powerful performance – large and beefy without sounding fierce or aggressive (price includes Discmaster) With Lambda transport, the sound positively sparkles with colour and resonant detail Consolidates reputation of PS Audio for high performance digital electronics Not							Hyb BS MB BS BS BS BS BS MB DS MB MB MB MB MB MB MB MB MB MB	1324 1106 1325 1493 1494 1495 1506 1519 1521 1323 1103 1104 1106 1069

You must listen to For details of your nearest stockist, 1480 451777. Or visit the company's WorldWideWeb site – http://www.mission-cyrus.com

 $\blacktriangleright$ 



# **Digital Recorders**

igital recorders come in a variety of different guises, but have yet to make much of an impact on the domestic market. At present there are three types to choose from: DAT (digital audio tape), MD (Mini Disc), and CD-R (CD Recordable). MD's claim to fame is its optical disc format, which offers instant track access and can't be worn out like a tape. DAT has been on the market for quite some time now, but has never really 'made it' as a consumer medium due to the dearth of pre-recorded material. However it has begun to carve itself a niche in the top end of the market, replacing reel-to-reel as the audiophile's tape based medium. Home CD-R is coming into its own with Pioneer's PD-R05 machine attempting to set a trend.



#### KEY

T: Type of recorder, see above for descriptions. DAC TYPE: Digital to analogue convertor: BS - Philips Bitstream, multibit, Hyb - hybrid of multibit and bitstream technologies, lbit - single bit types such as MASH, bitstream, PWM etc

ADC TYPE: Analogue to digital convertor types as per DACs. PORTABLE: Can be run off batteries but not necessarily personal stereo size OPTICAL IN/OUTPUTS: Digital socketry for optical cable

ELECTRICAL IN/OUTPUTS: Digital socketry for electrical cable. FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page.

ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

### **DIGITAL RECORDERS**

DIGITAL	RECO	ORDERS	FORMAT	ADC ;	PTICAL PDRTA VPE	TRICAL IN/DUT	ACTSBA IN/OU. PUTS	ICK NU	SUE NUM MBER	BER
Product	Price(£)	Comments			$\mathbf{\nabla}$	$\mathbf{\nabla}$	V	V	$\mathbf{\nabla}$	$\mathbf{\nabla}$
Pioneer D-05	800	Second generation 96kHz DAT recorder can offer startling realism with the right software - ie first generation	DAT	BS	BS		•	•	1652 1	52
Pioneer D-07	1,150	96kHz double sampling mode gives this deck a sense of naturalness missing from most DAT recorders	DAT	BS	BS	2	•	•	1089 1	.33
Pioneer PDR-05	1,300	CD recorder that uses domestic blanks only (limited to 62 minutes), write once but excellent sound quality	CD-F	BS	BS		•	•	1652 1	52
Pioneer D-C88	2,000	State of the art portable 96kHz DAT recorder, the size of a lap-top computer this Nagra country on the cheap	DAT	BS	BS	•	•	•	1431 1	50
Sharp MD-M11	450	Slick MD personal with recording capabilities and rapid track access but less stunning sound quality	MD	BS	BS	•	•	•	1	139
Sony MDA-JA3ES	800	Full width MD recorder that makes a decent job of recordings but is less impressive with pre-recorded material	MD	BS	BS		•	•	1216 1	52



#### Brought to you in association with **Headphones** SENNHEISE

here are a variety of different approaches to headphone design. Among the more expensive models, electrostatic drivers are used in open-backed phones. Most models feature dynamic (moving coil) drivers in circular, open or closed-back designs. The advantage of open backs seems to be a correspondingly open sound, but one can also hear external noise, of course. Closed-back designs are useful in situations where it is necessary to block out noise.

There are three styles of headphone: circumaural models enclose the ear: supra-aural designs feature a flat pad which presses on the outer ear; and intra-aurals (in-ear) rest inside the ear itself, à la personal stereos. For best results a separate headphone amplifier is recommended.



#### KEY

TYPE: Operating principle: D - dynamic, E - electrostatic. SUPRA-AURAL: Style where a flat pad presses on the outer ear. CIRCUMAURAL: Style which encloses the ear. OPEN BACK: Offers an open sound but lets in noise

CLOSED BACK: Keeps out external noise. WEIGHT (G): Mass in grams IMPEDANCE (O) - Load offered to the headobone amolifier All else being equal, the lower the impedance the louder the sound for a given

3.5MM JACK ADAPTOR: Can be used with mini-jack-equipped components such as personal stereos. FACTSBACK NUMBER: The Factsback reference for

amplifier output

ordering a fax copy of the review. Use the contents page to find the Factsback information page. ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

HEADPHO	DN	ES	SUPRA-A TVPE	RCUM URAL	OPEN AURAL	LOSED BACK	WEIG BACK	SIMM JAL PEDANC HT(g)	FACTSBA SK ADAF E(S)	ACK NUN TOR	SUE NUM	BER
Product	Price(	۵) Comments	V			Υ.	•	<b>V</b>	Υ.	<b>V</b>	$\mathbf{\nabla}$	
AKG K1000	646	One of the best dynamics on the market, hooks directly into speaker outputs	D		•	•		270	120			99
Audio Technica ATH910PR0	80	The closed back 910s are an improvement on the 909s, with a nice rhythmic quality rarely found with headphones	D	•			•	280	40			55
Beyer DT100	152	Rugged, modular professional design, but bass is woolly and treble lacks detail	D	1	•	24	•	350	600			157
Beyer DT311	49	Uncharacteristically tight, unrefined sound quality from this otherwise well engineered 'phone	D	•		•		124	40	•	1098	133
Beyer DT331	82	Tonally bright and deficient in bass, but exceptionally comfortable, articulate, detailed and refined	D	2	•			210	40	•	1801	157
Beyer DT411	69	A reasonable but not very thrilling headphone that doesn't really offer enough at the price	D	٠	Sec.	•		120	250			111
Beyer DT531	129	A good buy for serious, heavy-duty music making	D	10	•	٠		245	250			144
Beyer DT911	219	Probably too revealing for many headphone amps, these are very subtle and fine, if expensive cans	D	-	•	•		275	250			111
Denon AH-D550	80	A competant 'phone with integrity, but little panache or charisma. Hard headband causes brain strain	D		•		•	200	35	•	1801	157
Grado SR-80	110	Clear, open and dynamic with pedantically open mid-band. Crude physical design, rough frequency extremes	D	•	1000	•		60	8	•	1801	157
Grado SR225	200	Warn, dark tonal coloured and ultimately lacking in clarity, but it true to the spirit of the music if not the letter	D	•	26.2.1	•		200	32	Auro	1883	163
Jecklin Float Model 1	75	While very unusual in appearance, the Floats give remarkable sound quality and openness at a reasonable price	D		•	•		400	200		1	55
Jecklin Float Model 2	99	Helmet shaped, but open sounding and comfortable in long term, despite lack of adjustment	D	-	•	•	5.1	400	200			63
JVC HA-D910	65	Broadly acceptable if unexciting design with low level losses and some colourations	D			1	•	220	32	•		121
Kenwood KH-1000	20	First step up from a true mini: a near miniature which is cheap, comfortable and inoffensive	D				1	30	32	•		121
Maxell HP-3000	30	Solid, smooth sounding supra-aural headphone, but congested and undynamic. Includes in-lead controls	D		E	•		120	32	•	1099	133
Precide Ergo Model 2	140	Still has much of the spaciousness and detachment of the Float from which it is derived, but has a coarse mid/top	D				5.18	380	100		1892	163
Ross RDH-300CD	17	In-lead controls are the highlights of this shoddy, sometimes aggressive sounding design	D	•			•	155	8	•		133
Sennheiser HD455	55	Inoffensive, if nondescript sound, modular, but can become dislodged from head	D			•		185	60	•	1801	157
Sennheiser HD565 Ovation	150	Wide bandwidth design which is refined, expressive and extremely comfortable	D	1	•			255	150	•	1801	157
Sennheiser HE-60/HEV70/U	<b>K</b> 998	Very nearly a superb electrostatic, with an acheingly pure midband, but top end is sibilant and edgy	E			•		260	n/a		1898	163
Sony MDR-CD770	100	Neutrality and comfort make the Sony easy to live with. Technically correct sounding too, yet musically unrewarding.	D		•		•	+	-	•	1801	157

#### THE DIRECTORY

HEADDH	ON	ES (CONTINUED)	SUPRA-A	CUMAU	PEN RA	ED RUE	3.5mm J. MPEDAN	FACTSE ACK AD	ACK NU	ISSUE NUM	Wo.
Product	Price(		· IPE	MAL -	41 -40	* ~~~~	(9)	452)	V	"BER	TOER
Sony MDR-CD1700	199	Astonishingly detailed, uncoloured and free of the usual artefacts from a sealed back headphone. Tremendous value	D		•	•	325	32	•	1901	1
Stax Lambda Nova Basic	449	Refined, articulate, yet with real presence - and a notable bargain by electrostatic standards	E	6	•		347	n/a		1902	1
Technics RP-HT700	70	Well-finished but physically crass and grubby sounding	D	1	• •		255	-	•	1801	1
Vivanco SR606	40	Although slightly overblown at times, this model is easy on the ears and essentially enjoyable	D	•			225	32	•	1101	1
Vivanco SR650	50	Unusually comfortable 'phone with excellent detail resolution but aggressive, thanks to tweeter resonance	D	•			175	-	•	1801	1
Vivanco SR750	60	Cossetting physical design, attractive sound an pricing, though suffers overhang and lacks ultimate dynamics	D	•			188	-	•	1801	1
Vivanco IR7100	120	Infra-red phones that work well but suffer from the limitations of the medium ie compression and hiss (Sessions)	D	•			265	-			1

# **SENNHEISER** HEADPHONES ARE THE ESSENTIAL ACCESSORY!

To find your nearest dealer, call 🕿 (01494) 551551. And don't miss Sennheiser's Web site on the Net - http://www.sennheiser.com



# **Hi-Fi Loudspeakers**

s the last item in the hi-fi chain, the loudspeaker is merely the slave of what has gone before; it is only as good as the signal it is fed. Nevertheless, the distortions introduced by loudspeakers (and rooms) tend to be the most obvious.

The average loudspeaker consists of an enclosure plus a couple of drive units behind a removable grille. Inside the box lurks a simple electrical circuit known as a crossover, which divides the incoming (full range) signal into the right bits for the drivers to handle. The designer's primary



task is to balance the 'sensitivity' of the loudspeaker (how loud it goes

Brought to you in association with

form. They are less sensitive to placement than regular speakers.



#### KEY

SIZE WorkbD (cm): Width by height by depth in centimetres. FLOORSTANDER: As opposed to requiring a dedicated stand. SENSITIVITY (dB/W): Efficiency: how much volume you get for a given input; the higher the louder. IMPEDANCE (Ω): Measured in Ohms impedance it is a measure of how hard a loudspeaker is to drive: the lower the number the more powerful the amplifier needs to be. BASS FROM (Hz): The lowest frequency that a speaker can

reproduce, based on in-room measurements. FREE SPACE: Speakers should be placed away from walls. CLOSE TO WALL: It is recommended that these speakers be placed close (between 3 and 12cm) to the rear wall. FACTSBACK NUMBER: The reference for ordering a fax copy of the review. Use the contents page to find the Factsback page. ISSUE NUMBER: The issue of *Hi-Fi Choice* in which the original review appeared.

HI-FI LOU	DSP	FAKERS	FLOORSTAND	IMP.	BASS EDANCE W)	FROM	FREE S	ACTSB DSE TO	ACK NU WALL	SSUE NUM IMBER
Product	Price(£)	Comments		- W		~~	~~~	-0E	~~~	-CR
Acoustic Energy AE109	330	Lots of mass-loaded twin-driver speaker for the money, especially for loud, driving bass	18,90,25	•	88	4	25	•		1904
ATC SCM20	1.499	Massively built, invariably informative but the rather forward presentation can be uncomfortable	24,44,31		83	8	28		•	
Audio Gem Emerald	540	Pretty compact floorstander with lively if lightweight sound	18,94,21	•	87	6	40	•		1905
Audio Innovations Alto	329	Styling makes competition look old-fashioned, but sound is thin and cold	20,38,26		88	6	45		•	1653
Audio Note AN-J/D	930	Light damping and local unevenness adds some colouration, but doesn't spoil the very speaker	38,58,25		93	8	25		•	
Audio Note AN-E/D	1,520	Coherent dynamic and transparent, with extended bass and high sensitivity - but ugly!	36,84,28	•	94	8	20		•	
Audio Physic Tempo	1,999	Tall and unusually styled floorstander has stunning stereo but suspect bass tuning	22,107,47	•	88	8	28	•	•	1344
Audiovector 3X	1,500	Superior time coherence, a wide dynamic range and exception bass/mid balance	19,32,98	•	89	8	20	•		1345
B&W DM302	150	highly competent and neutral all rounder; clever Prism enclosure	19,32,22		88	4	45		•	1778
B&W DM601	200	Great main driver for the price, entertaining dynamics	20.5,35.5,23		88	6	30	•		1779
B&W DM602	300	Prefers tall stands and space, but offers impressive midband dynamics and musical tension	24,49,31		90	8	30		•	1654
B&W 305	350	Ridged paper cone gives lively sound, clever box, but a little uneven	22,87,31	•	89	4	40	•		1908
B&W P4	675	Strikes a nice balance between all-out studio monitor sound and bass-filled crowd pleaser (tested in Sessions)	20,81,25.6	•	88	8	50	•		1997
B&W CDM1	600	Gorgeous stand-mount delivers unusually good bass for its size	22,38,28		88	6	30	•		1818
B&W Matrix 805 V	1095	Stylish, remarkable imaging, good balance and low colouration	33,33,21		87	8	30		•	
B&W Matrix 804	1695	A great all-rounder which combines exceptional bass extension with fine sensitivity	26,96,26	•	88	4	20	•		
B&W Matrix 801S3	3,995	Lacks transparency and the drama of the best dynamics, but acoustically a tour de force	44,100,56	•	87	8	20		•	
<b>B&amp;W Nautilus</b>	35,000	Radical design results in one of the finest loudspeakers available. Active x-over needs 4 power amps (Statements)	42,105,90	•	87	4	10	•		
Bose 305	430	Fine dynamic liveliness and a good room match counter strange imaging and treble	23,45,28		-	8	40	٠		
Bose 401	500	Cheaply built but distinctively styled , the 401 suffers from heavy midband	30,30,76	•	-	4	28			200
Cadence ES	3,500	Hybrid electrostatic/dynamic design from India that excels with classical material (Statements)	33,108,37	•	91	8	35	•		1798
Castle Isis	230	Expressive with a full upper bass, tonally colourful with a big, dynamic sound (tested in Sessions)	17,35,19.5		87	8	60	•	Sale 1	1729
Castle Severn	539	Light and bright, but sound is open and communicative. Looks good too	23,77,20		88	8	47		•	1655
Castle Avon	700	Lovely box and lovely voices from carbon-fibre composite cone	22,91,28	•	85	8	22	٠		1909
Castle Harlech	849	Handsome big-sounding floorstander, great value and dynamic midrange	20,96,33	•	88	8	28	•		1820
Castle Howard S2	1,200	Ably fills the gap between Chester and Winchester; has a rich, laid back balance	26,104,41	٠	90	8	40	٠	15-1	1078
Celestion A1	700	Rich, warm and laid-back, but a true quality sound; lovely build	24,41,35		88	6	25	•		1910
Celestion 300	1,099	Splendid bass extension and fine panel-like openness, but dynamics and timing are suspect	21,97,33	۰	84	8	20	٠	C.	
Cerwin-Vega VS10	350	Not all that refined but ballsy as heck, these rock boxes have no shortage of gung ho	33,70,29	۲	95	6	37	٠		1758
Dali 104B	370	Lively, rich sounding and communicative. Shame about bland styling and dull balance	22,86,27	•	93	4	28	•		1657
Dawn Audio Chorus FS	698	Compact floorstander with superb coherence but rather forward midband. Would suit smaller rooms best	26,88,21	•	89	8	30	•		
<b>Dynaudio Contour 1.8</b>	1,842	Wonderful voice-band delicacy and loads of deep bass from a very elegant and compact box	21,95,29	•	85	4	20	٠		
Electrofluidics Sonolith 2.2	<b>xi</b> 5,999	Polymer concrete cabinet with aluminium cones produces world class imaging and very serious bass (Statements)	38,95,42.5	٠	86	4	n/a	•		
Epos ES12	500	High quality luxury stand-mount has great midband and stereo imaging	20,38,25		85	8	45	•		1823
Epos ES14	675	Substantial stand mount delivers delightful midrange focus and delicacy with good bass control	23,49,29		87	8	25	٠		
Epos ES22	1,185	Elegant floorstander with 'safe' balance that can be enlivened with the right cable and energetic material (Sessions)	21,88,25	•	87	6	58	•		1629

 $\blacktriangleright$ 

	DSF	PEAKERS (CONTINUED)	CM) AND	ER	BASS FI DANCE(S	, M (H2)	SPACE	WAL	SSUE NUI MBER
	rice(£)	Comments	FLOORSTAND WXD(CM)	V				BACK NU WALL	V
pos ES25	1,655	Handsome floorstander with a rather uneven and bass heavy balance	24,90,35	•	88	6 22	•		1346
araday Siren	445	High mass concrete cabinet is let down by imbalance of ageing driver combination	25,27,46		90	4 48	•		
LL Imagio IC130	530	Lots of speaker for the money, but sound is decidedly dull and shut in	22,112,29	•	- C	4 20	-	1000	1824
arbeth BBC LS3/5A	699	Still a classic miniature, though not to every taste, and none the better for the recent update	19,30,18		and the second	10 80	-	112	
eybrook Prima	139	Fine pace and timing, but balance is forward and bass is tight	20,29,18		-	6 50	-	•	
eybrook Heylios	339	Great all round performance in a pretty package at a sharp price	24,36,27			6 25	-	-	
eybrook Solo eybrook Trio	199 373	Untidy bass and treble, but handles complex rhythmic material well	23,36,23	-	1000	6 28 8 45	-	•	
eybrook Heylo	373	HBS1 drivers in real wood enclosure give a sweeter and more forgiving sound Good vocal reproduction, but sounds thin and bass seems an afterthought	23,73,19	•		8 30	-	-	1658
eybrook Heystak	499	Elegant, highly detailed and level-headed sound, but could use injection of life	22,98,28	•		8 38	-	-	1050
eybrook Quartet	575	Solidly large bookshelf model with good sensitivity and a lively, forward sound	24,41,22			8 48	1000	100	
eybrook Sextet	1,159	Coherent and highly analytical, partly due to distinct upper-mid forwardness	27,90,20	•		8 25	-	-	
finity Reference 1i	150	Although not to our tastes, this is a competent speaker, and decent material value	20,34,20		89	6 50	-	and the second second	1403
mo BX100A	370	A cracking output for their size these rock boxes can be a tad bright but have decent bass	31.5,54,28	120	91	8 40	•		1758
mo Classic 8	430	A lot of speaker for the money; good when playing quietly, but boom 'n tizz character sounded crude	22,90,29	•	90	4 28			1659
imo 477A	500	Very prettily styled, but build and sound quality are disappointing at the price	19,77,28	•	88	4 40			1549
mo Concert 8	1,300	Employing a die cast magnesium cone with a charming open and detailed midband (Statements)	24.5,38,31		90	4 38			1822
BL L20	700	Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative	26,42,28		86	8 30	•		1550
<u>3L L40</u>	1,000	Classic, large, stand-mount 3-way is full of vim and vigour, with a superb sense of balance	30,65,31			4 23	in a second of	-	
BL 190	1,500	A classic monitor which communicates with gusto and enthusiasm, though it can sound a tad crude	24,94,35	•	and the second	6 23	-		1348
ordan Watts JH400	820	Piano finish hexagon has controversial sound, with uneven balance but delightful mid	28,38,21		86	8 50	1000	•	
W Mini Monitor	60	Ultra-cheap miniature works well in a limited way	18,27,17.5			8 50		CONTRACTOR OF	1781
W Gold Monitor	80	More informative than Mini Monitor - but fiercer too	18,27,17.5	-	1000	8 50	-		1782
PW Ruby 1 EF Coda 7	400	Very pretty but pricey luxury metal-cone miniature has good, if slightly edgy balance	19,32,21 18,30,23		87 88	6 55 6 50	-	and a second	1572 1783
EF Coda 8	130	Lovely open voice reproduction, but bass could be tauter; build tougher		-	86	6 28	-	-	1783
EF Coda 9	300	Outstandingly well balanced, bass is deep but a little vague Uneven budget 3-way floorstander with poor bass definition	20,32.5,29 20,86,28	•	89	6 30	-	-	1785
EF RDM One	500	Cute and tiny, nice midband but lack of bass warmth and weight	23,30,24	-	88	6 70	2000	•	1/0.
EF Reference Model 2	1,599	Classy, large floorstander has massive headroom and clean mid-to-treble, but limited deep bass for size	23,103.34	•	89	4 30	-	-	
eswick Audio Aria II	329	Confident and dynamic sound, if a little crude and shut in	21,42,24	-	89	8 20		(and the	1405
eswick Audio Torino	900	Good value, lively contender with distinctive shape and styling. Goes loud and deep but could be smoother	18-26, 93,28	•		4 20	-	-	
inn Keilidh Passive	750	Stunning timing and coherence, and awesome bass drive	20,83,28	•	87	4 22	10000	•	1552
inn Kaber Passive	2,000	Dry, bright balance emphasises dynamics and transients, but can sound unforgiving	20,90,28	•	87	4 25	5	•	
iving Voice Airscout	14,750	You want dynamics? Get a horn, get a very, very good horn. This is a very, very good horn. Tested with RW24 horn sub	62.5,115,57	•	104	8 60	)		
iving Voice Air Partner S	27,200	Outstanding transparency and dynamics from remarkably solid and fast mega horn	64,160,90	•	108	8 40	)	•	
umley Reference LM4	375	Metal diaphragm and wood veneer; balance uneven upper and has suspect timing	18,36,22		86	6 44	•		
umley Reference LM3	895	Despite indifferent bass alignment, LM3 is fast, coherent, solid and informative	27,87,28	•	90	8 30			
eridian DSP6000	9,400	Sophisticated digital design, with a wide ranging, refined and detailed sound. Has onboard amplification	28,133,43	•	-	- 3			1226
lission 732	200	Attractive presentation but a rather dull and thick sounding speaker, and a tad pricey too	20,41,30	22	89	8 4	-		1613
lission 733	330	Duller than before, though still an honest all-round package	20.5,87,30	•		8 4	-	-	1574
lission 751	348	Gorgeous looking, very petite; boogies with a sting at the top	17.5,32,26		87	8 4	-	•	
lission 734	499	Fine all rounder, and good value, but dynamically a bit lazy, and tweeter quality limited	21,84,33	•	Real Property lies	8 43	-	-	1660
lission 752 lission 753 Freedom	578 798	Brilliant style, engineering and sound Great styling. New, more restrained tweeter reveals fine midband dynamics	20,88,26 21,90,31	•	90 89	8 50 4 40		-	1553
lission 754 Freedom 5	1,298	Tall but exceptionally elegant floorstander gives fine midband projection; goes loud but limited deep bass for size	22,111,31	•	Contract of the	4 4		-	-
Ionitor Audio MA700 PMC	600	Good looking luxury compact with all-metal diaphragms, lovely midrange, but occasionally edgy	22,35,26	-	89	8 4	-	-	1661
Ionitor Audio MA703 PMC	800	Lovely but pricey floorstander has up-front, coherent 'shiny' sound	20,89,27	•	88	8 5		-	1826
Ionitor Audio Studio 12	1,000	A real looker, but sound and content are a bit on the small side for the price	17,92,20	•	90	8 2		-	1349
lordaunt-Short MS10i	140	Up front, bouncy and a whole lot of fun	18.5,30.5,20	-	86	8 5		Contract of the local division of the local	1789
lordaunt-Short MS30i	275	Slightly shut in and coloured quality is compensated by fine bass and impressive communication	25,43,28		90	8 2	-	-	1662
ordaunt-Short Perf 860	1,895	Although a very neutral loudspeaker it can, with the right ancillaries, pack a serious punch (Statements)	26,86,35	•	070-00 EXC	6 3	5 •	14 N	1367
lusical Technology Kestrel	<b>SE</b> 300	Brighter and drier-sounding than standard Kestrel (and not the better for it)	20,84,19	•	84	5 5	)	•	
lusical Technology Harrier	400	Very pretty package, good measured performance and even sound. Sensitivity is low, and dynamics limp	25,80,23	٠	86	8 2	5	1	1663
aim Intro	660	Great dynamic range and info retrieval, but thin, lacks warmth	24,89,27	•		6 3			
aim SBL Passive	1,970	Lively and punchy – smoother but more upfront than before	27,89,27	٠	88	6 2	5	•	1352
eat Mystique	575	Elegant compact floorstander has good allround sound and value	20,85,18	•	84	8 2			1827
eat Petite II	745	Compact design now utilising ribbon tweeter with a fine sense of timing and surprising musicality (tested in Session	and the second se	-	86	8 3	010000	•	
eat Petite II/Gravitas	2,000	Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound	23,105,40	•	85	6 2	Contraction of the local division of the loc		
rigin Live Conqueror	1,600	Chunky floorstanding 3-way has lovely cabinetwork and lively sound, but limited deep bass	24,94,27	•		8 3	100	1000	
ink Triangle Ventrical	990	If you are after Quad Electrostatic type transparency but can't afford the price (Sessions)	15,80,32	S	States and	11	•	-	1000
MC TB1	410	Superb transparency, subtle laid back sound, well worth seeking out	20,40,31	100	87	8 4	-	200	1830
MC LB1 MC AB1	935 1,496	Delightful smoothness and transparency, though bass and treble are both limited	18,53,25	Part I	89 80	4 3	-	Contraction of the local division of the loc	-
olk LS50	800	Lovely panel-like transparency, slightly shut-in balance, needs a big room No enthusiast tweaks here, but powerful and beautiful balance	26,79,43 27,83,29	•	89 89	6 23 8 2		-	1155
olk RT16	800	Bass rich, lively and powerful, but suspect top end; big and not very pretty	22,105,39	•	91	4 2		-	1155
olk LS70	1,200	High sensitivity, but balance has too much midbass boom; mid-top is laid back	31,94,37	•	50001 B	8 2	-	-	1084
roac Response 2.5	2,700	For aspirant high-enders looking for seriously good conventional boxes, this speaker should be fist port of call	22,107,25	•	10000	8 3		-	1457
LN Qubic 222	400	Ugly but good value floorstander with loads of bass and a smooth balance	21,87,29	•	88	6 2	-		1832
LN Signature	1,200	Attractive pyramidal stand-mount has heavy and laid back balance but remarkably unboxy sound; superb stereo	27,37,36	•	83	4 2	-		-002
uad ESL-63	3,450	Classic electrostatic lacks punch, but has strengths some can't live without	66,93,27	•	1000 C	8 34	-	- Contractor	
									and the second s

#### THE DIRECTORY

		PEAKERS (CONTINUED)	FLOORSTAND	CA -	BASS DEDANCE	(2)	FREE (H2)	ACE	SK NUMB
roduct	Price(£)	Comments							
ega ELA Mk II	498	Pretty and smooth, the latest incarnation has a superb midband and excellent communicative skills	30,80,20	٠	-	8	40	•	15
ega XEL	1,040	Looks and sounds great: balance bright but even, with delightful coherence and timing	20,82,30	٠	89	6	40	•	10
ehdeko RK 115a	1,550	Single-driver system has limited bandwidth and obvious coloration, but wondrous dynamic and temporal coherence	34,42,27		95	8	55		•
evolver Beretta	100	Great bass for the price, a bit crude further up	19,35,22	1	87	8	45	1.5	• 17
evolver Colt	139	A good all-rounder, if a little bland, and excellent value for money	30,19,22		88	6	48	•	14
evolver 260	350	A no nonsense presenter of rock with plenty of dynamics, not too refined (tested in Sessions)	21.5,91.6,30	٠	89	6	40	•	17
MS RevelationSeries 1	1,400	Innovative metal-box compact with integral port/stand - clean with good timing but very laid back balance	20,99,24	•	81	8	22	•	
ogers LS1	149	High grade miniature	20,20,30		87	6		•	14
ogers Studio 3	499	Pricey LS3/5A derived miniature, excitingly coherent if lightweight, can't go loud	19,30,16		85	8	30	•	
ogers LS3/5A	699	Clever AB1 stand/subwoofer helps the classic 3/5A monitor give its best shot	19,31,17	٠	82	12	45	•	13
ogers Studio 5	699	Luxury finish bookshelf size model has genuine monitoring capabilities	25,25,48		89	8	40	•	15
ogers Studio 7	899	Latest variation on classic BBC-monitor theme has beautifully voiced, laid back sound	30,63,30		90	8	30	•	
ogers C6/28	1,303	Large floorstander with carbon-fibre tweeter. Sounds much better than it looks, especially through the midband	25,103,29	٠	88	6	20	•	
oksan ROKone	595	Large stand-mount is musically very communicative if a little coloured	21,45,33		89	6	30	1	18
oksan Ojan 3 Black	795	Squat, stylish and black, great bass extension and somewhat uneven balance	28,76,46	•	88	8	20	•	10
oksan OJ3X Black	1,195	Innovative low-line, 2-way floorstander with decoupled tweeter; great bass and fine dynamic range	28,79,46	•	84	8	20	•	
oyd Minstrel	269	Not much wellie or loudness but fine coherence and timing, a bit bright	18,69,12		86	8	30	•	11
oyd Merlin	298	Invigorating and exciting design with plenty of upfront detail, but balance lacks warmth and a tad overpriced	20,31,18	1	86	8	33	•	14
oyd Doublet	450	Great value compact floorstander; lively and very informative, if a little uneven	18,93,19	•	90	4	28		18
oyd The Sorcerer	595	Extremely musical and communicative speaker that fun to listen to. Aesthics could use improving though	20,31,18		86	8	35	•	10
oyd Abbot	665	Dynamic and fine transient qualities are hampered by a rather coloured mid-forward balance	20,31,18	•	90	8	43	•	
uark Talisman II	749	Less ideologically committed than some, strength lies in fine all-round coherence	23,84,32	•	88	8	30	•	
uark Tansman n uark Crusader	1,600		23,84,32	•	85	6	22		
uark Crusader uark Equinox	1,849	Elegant luxury 3-way with wonderfully even-handed, if rather laid back balance	25,88,34		-	6	45	•	12
the second se	10 C	The primary strength of this speaker is its ability to remove itself from the picture	Contraction of the second s	-	and and a state of the	-	and the second s	-	14
D Acoustics SD3R	449	New SD3 has the agility and charm of a quality miniature, good bass and low sensitivity	20,38,30		87	8	25	•	10
D Acoustics SD5	1,395	Bass suspect but forward midband is delightfully smooth. Has ribbon tweeter	20,110,30	•	88	8	30	•	10
Acoustics SD1E	2,995	Two part design with four rear firing bass drivers that has vibrancy, transparency and energy (Statements)	25,120,40	•	90	6	25	•	
equence 400	330	Clever hang-on-wall panel is well voiced, though bass isn't too great	25,100,7	140	86	8	45		•
ahinian Arc	1,875	Occasionally wonderful small floorstanding omni; bright but coherent and revealing	35,69,25		88	6	24	•	
lverado Raider	695	Beautifully built audiophile compact, neutral if bright, tough work for amps	20,40,25		83	3	30		•
onus Faber Concerto	1,098	Beautiful Italian bookshelf design with superb midrange but limited loudness capapbilities (Statements)	22.5,36,34		87	8	45		
pendor 2020	399	Utilising an oval drive unit in a stylish cabinet this is a neutral design with AV inclinations (tested in Sessions)	18,34,26		87	8	11	•	17
pendor 2030	599	Discreet slimline floorstander with delicately coherent, laid back sound	18,89,27	٠	87	8	30	•	18
pendor S20	760	Maintains Spendor's tradition for peerless mid-to-treble coherence and perspectives	22,38,26		84	8	25	•	
stem Audio 905	250	Fine coherence and remarkable dynamic freedom some something so small, though there's little real weight	15,27,21		89	8	60	•	14
ingent Monitor 9	150	Budget floorstander that can motor when the music demands with a solid bass but occasionally raw treble	19.5,75.5,22.5	٠	90	6	45	•	
nnoy Profile 631	150	Balanced, open, unboxy and quite lively, but lacks muscle	19,34,15		87	6	60	•	16
nnoy Profile 631SE	170	Very refined midband; maybe too laid back for some	13-19,34,16		86	7	45		17
nnov Profile 633	300	Impressive bass and balance from very compact floorstander. Upper midband could be cleaner	29,75,28	•	89	85	20	•	16
nnoy Profile 635	450	Beefy low-line floorstander packs real bass punch and an up-front balance	17-29,85,27	•	90	6	22	•	16
nnoy Profile 637	550	Good value package but a rather heavy, thick, big-bass sound	17-29,84,27	-	90	3	20	•	
innoy D300	1,000		16-24,85,23	•	87	6	26	•	
innoy D500		Gorgeous looking compact floorstander. Is a fine all-round performer too	31,93,34	•	91	6	20	•	13
the set of	1,999	Plenty of muscle and stereo, but short of poise and delicacy. Hard work for amps		-	10110111	8	38	the case of the	•
nnoy Westminster TW	6,600	These awesome horn loaded speakers are remarkably controlled and impressive	large	•			and the second s	the second se	
L Near Field Monitor	120	Despite low price, this is an unimpressive performer, poor low frequency resolution and analysis being main flaws	18,30,17	2	87	8	50	•	10
DL RTL2	280	Spacious, weighty and enveloping sound if you can accept the laid back balance	20,73,22	-	87	8	25	•	14
DL RTL3	400	Bargain price floorstander has rich, heavy and bright sound with a good scale	20,90,37	•	90	8	25	•	
DL T-Line 3	700	Plenty of bass and treble, but broad midband is rather repressed	20,97,38	•	86	8	20	•	
DL Studio 1m	899	Transmission line helps bring the best from metal cone driver	23,77,34	1	86	8	20	•	
chnics 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	•	14
chnics SB-M500	450	This model offers a clean, open sound, offset by midbass heavy balance and low sensitivity	25,78,37	•	-	-	25	•	16
tem Model One	1,195	Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size	17,31,23	E	87	4	Concerned in the	•	
indersteen 2Ce	1,395	Elegant staggered baffle contributes to a refreshing freedom from boxiness	41,101,27	•	88	7	23	•	
harfedale Valdus 400	199	Goes very loud with a minimum of amplification, but the sound is very thick and uneven, with a heavy upper bass	25,80,26	٠	91	8	30	•	14
harfedale Valdus 500	299	Offering a large version of events these rock boxes can move plenty of air, albeit not as subtly as alternatives	25,108,26.5	•	91	4	40	•	17
harfedale MFM-3	350	Smooth broad midband gives fine voice rendition; bass could be better	22,89,28	٠	87	8	40	•	
ilson benesch ACT1	6,400	Stylish, technically advanced and sonically as clean as a whistle this is a truly high end loudspeaker (Statements)	23,108, 37	٠	89	6	40	•	18
/P AI	199	Cute metal cased micro-miniature is quite coloured but great fun	14,22,12		88	8	30	•	
UBWOOFERS									
&W AS6	500	Good material value with a fair amount of low bass from 100W active design	45,51,45.5	٠		51-	30		17
elestion CS135	139	Compact hideaway passive sub lacks deep bass: for high sensitivity speakers	52,19,34	•	86	8	45		•
amo SW600	530	Has some neat styling touches and remote control but deep bass is limited (active)	38,41,53	•		1	30		17
EF Model 30B	500	Commendably discreet with good sense of timing but limited extension (active)	38.5,37,43	•			45		17
EF AV1	Date of the		<b>56,43,50</b>	•	-	-	45	-	1/
and the second	2500	Works well, looks great, shakes the windows but costs a lot and is bulky	Constant of the local data	Provent in	104	8	45 40		•
iving Voice RW24	9,500	The only horn subwoofer on the UK market brings new meaning to low frequency energy, speed and resolution	146,84,59	•	104	0	1000		and the state
&K VX-7B	450	Baby of a big range this active design delivers deep, plenteous bass albeit lacking in transparency	35,25,37	•	82	10	40		17

## TO DISCOVER HOW YOU CAN ENJOY THE "EXPERIENCE OF SOUND" <sup>KEF</sup> (01622) 672261 <sup>CM</sup> FREEPOST ME15 6BR (e) http://www.kef.com KEF

HI-FI CHOICE



# **Stands & Supports**

i-fi furniture is more important than you might imagine. The effect it can have on the sound of your system is far from subtle. Hi-fi furniture can be split up into two categories ---equipment supports and loudspeaker stands.

It is not entirely clear what makes a great equipment support, but some are definitely more equal than others. There's a variety of approaches and materials used, including particle board, glass and all manner of steel tube and section.

Speaker stands come in a variety of sizes and styles to suit different models. Use dealer or manufacturer recommendations to narrow down the choice, but as a rule you want the tweeter at ear height.



NEY			
HT (CM): Height of stand or equipment shelf.	lead to increase mass, which affects sound.	rack or support.	copy of the review. Use the contents page to find the Factsback
PLATE SIZE (CM): Dimensions of top plate on speaker stand	WELDED: The better stands and supports are welded rather than	SHELF TYPE: Material that shelves are made of on an equipment	information page.
uipment support.	bolted together.	rack. Wood generally means MDF.	ISSUE NUMBER: The issue of Hi-Fi Choice in which the
ABLE: Some speaker stands can be filled with sand and/or	NUMBER OF SHELVES: The amount of tiers on an equipement	FACTSBACK NUMBER: The Factsback reference for ordering a fax	original review appeared.

#### **STANDS & SUPPORTS**

STANDS 8	5		IP PLATE SIZEL EIGHT(CM)	NUM	BER OF SH WELDED	FACTSB. SHEL	ACK NUM	UE NUMBER BER
		Comments	(CM) -	M) MU	ELED	ES	I VPE	ER "DER
Equipment Supports	1100(00							
Audiophile Furniture Base	480	Easy to set up, well ordered sound	40			4	Wood	1633 151
<b>Custom Design Classic Four</b>	270	Glass shelved stand with octagonal wooden uprights with upward facing spikes isolating the top shelf, adjustable shelf height	81	46,37		4	Glass	166
Fi-Rax R4	250	Lively, exuberant sound, slightly weak bass	1.1.2			5	Glass	1633 151
Frameworks H500/H175	404	Two shelf stand and isolation platform combo in tubular steel that made a spectacular impression on audition	70	52,34		3	Glass	166
Mana Acoustics Ref. Table	350	King of its type, angle iron, chipboard and glass combined to make a significant difference to sound quality				1	Glass	147
Mana 5 Tier Sound Table	600	Infinitely upgradable. Persuasive and thrilling glass and angle iron design that adds speed and bandwidth to components upon i	t			5	Glass	1633 151
Optimum Int 2000 OPT490	350	25kg stand with shelves sandwiched between variable height tubular uprights. Sounds smooth and relaxed with sturdy bass	50	60,40		4	Glass	166
Quadraspire Q4	200	Easy to live with, and tonally neutral				4	MDF	1633 151
Sound Organisation Z038	130	Too lively and lacking order – but cheap	50	84,40	•	5	Wood	1633 151
Organisation Z560	150	A mix of welded and bolted members gives good structural integrity. While performance is not up with the best, it's great value	90	46,36		5	Wood	166
Soundstyle Select 6105	280	Respectable sonics, structurally solid and smart	-			5	Glass	1633 151
Soundstyle Finewoods W105	320	Veneered shelves clamped between tubular uprights that delivers with classical material	82	48,27	3	4	Wood	166
Stands Unique Sound Tower	249	Adds colouration, and lacks weight. Optional Isolation Platform	81	72,42		5	Glass	1633 151
Target B5	175	Free of colourations, fine grip and good value			•	5	Wood	1633 151
Speaker Stands								
Alphason NC I	45	Filled single column design without threaded spike holes that's appropriate for non-critical applications	40-60	16,16	•			1373 146
Alphason NCII	80	Tall, slim and elegant, though sound and value are unexceptional	40-60	17,17	•			159
Alphason Titan	120	Excels in the midband and allows voices to come across in a detailed an d expressive fashion	40-60	16,16	• •			1373 146
Apollo AZ6	80	Fine engineering value, but sound unexceptional and top-plate small	66	15,13	• •	2		159
Atacama BD21	55	Good looking and good value but doesn't match the SE24's sound quality	56	15,17	•			159
Atacama SE24	70	Stand out from the budget crowd because of the consistency and overall quality of the performance	61	19.5,17	• •			1373 146
AVF Tower 400	35	Ridiculously cheap and much better than no stand at all	54	17,20	•		1000	159
Ixos Deadrock 903	50	Smooth and tonally even but short on definition. Deep bass is soft which doesn't help timing	60					1373 146
Gale Reference 600	60	Smooth sounding with impressive bass well suited to less civilised speakers			• •		1.01	1373 146
Kudos S50	100	Better sound than the budget stands, particularly at the bottom end	60	15,21	•			159
Kudos S100	270	The best all round stand around Probably	63	15,21	•		A BORNES	159
Mana Soundframes	125	For use under floorstanders and equipment racks these make music effortless and natural, can be stacked for greater effect	5		•			1373 146
Partington New Merlin	60	Although light in weight, the stands performance seemed remarkably muscular but musical rendering lacked a little precision		1.10	• •	1.5.15		1373 146
Partington Discovery	80	The depth and substance of the presentation truly added to the convincing nature of the system's portrayal			• •			1373 146
Partington Trophy	100	Four column design with damped top and base plates, sound is tight and cogent with smoothly integrated detail	186		• •			1373 146
Revolver RS1	70	A good blend of performance and appearance for the price	53	18,18	•			159
RMS/Stands Unique Vivus	550	Pricey carbon fibres give ultra-clean sound with exceptional voices	50	N/A				159
Soundstyle 124	100	Big, shiny and solid, with fine midband projection	65	17,16	•			159
Stands Unique HP	220	Real wood disguises high performance tuned technology	59	22,23				159
Target R1	280	Truly high mass four pillar design with superb weight and speed, giving music delicious attack and outstanding imagery	53	15,21	• •		SI	1373 146
Target TR60	68	Lively, dynamic midrange and detailed treble from a less than audiophile oriented twin column design	60	15,15	•			1373 14



**118** JULY/AUGUST 1997



# Tonearms

urntables at the cheaper end of the market tend to be supplied with a matching tonearm, and often include a 'starter' cartridge. Still better quality is found at higher prices among the separate motor units and tonearms. Careful partnering and set-up is essential for these components.

Although the turntable is the most important part of a record player, the tonearm is the second most important, and the quality of its construction and design have a significant bearing on sound quality. There are three basic types of arms listed in the key and each has its strengths, but pivoted designs are the most popular, for reasons both practical and economical



r ..

#### KEY

EFFECTIVE MASS: This relates to cartridge compliance. Generally FACTSBACK NUMBER: The reference for ordering a fax copy of the track the disc in a linear fashion twonlanes EFFECTIVE LENGTH (cm): Length of arm from bearing to high mass arms are suitable for low compliance cartridges and PIVOTED: Arms which allow the cartridge to describe an arc as review. Use the contents page to find the Factsback. ISSUE NUMBER: The issue of Hi-Fi Choice in which the they traverse the record. vice versa cartridge mountin PARALLEL TRACKING: An arm which allows the cartridge to UNI-PIVOT: Pivoted arms with a bearing that allows movement in ADJUSTABLE HIEIGHT: Important for accurate cartridge set-up. original review appeared.

TONEAR	MS		EFFECTIVE MASS	PIVOTE	ADJU VE LENI VI-PIVO	FACTSBAL STABLE HE STH(cm)	K NUM	ENUM.	BER
Product	Price(£)	Comments		V			$\mathbf{\nabla}$		
Alphason HR100S	490	S-shaped arm sounds smooth, but nevertheless reproduces transients with fine attack	Medium		•	229	•		86
Kuzma Stogi Ref	1,000	Large, solid and well made arm, gives exceptionally clear sound with just a hint of brightnes.	High		•		•		79
Linn Ekos	1,297	Superb, state of the art design which builds significantly on predecessor's strengths	Medium		•	229	•		6
Moth Arm	95	The ultimate budget arm? Refined, sweet, detailed and natural	Low			237			60
Rega RB300	139	Despite its modest price it sets exceptional standards and could be used on many high end turntables	Low		•	237			60
Roksan Tabriz Basic	275	Targetted at the Xerxes, this is a good alternative to the Rega arm in many cases – a touch bright though	Low	27	•	240	•		91
SME Series 300-309	657	Beautifully made and finished: fully adjustable and a highly neutral performer	Low	19-1		238	•		79
SME Series IV	936	Superb engineering and finish with a finely balanced sound, impressive stereo focus and low coloration	Low		•	233	•		60
SME Series V	1,391	Excellent in all respects, this arm arguably sets the standards for pivoted arms, regardless of price	Low			233	•		60



## **Tuners**

he radio medium operates at a lower profile than TV. but in areas outside pop music the BBC service is the envy of the world. Live concerts rival all other sources from a hi-fi perspective.

Though tuners might seem something of a hi-fi afterthought, the task they discharge is far from simple, since it requires the skills of RF (reception) and audio (signal processing) engineering. The importance of the former will depend on reception conditions, but a high-quality aerial system is

well worth having. Tuners come in two basic types. Analogue models tune gradually and can have analogue or digital displays; they are often preferred for sound quality. Digital tuners offer convenient automatic tune facilities and pre-set memories.



to find the Factsback information page.

#### KEY

WAVEBANDS: Only the FM (VHF) bands give stereo hi-fi sound, though AM (MW & LW) are useful for receiving certain ssions in the UK. PRESETS: Number of station frequencies that can be stored RDS: (radio data system) was originally designed for in-car

applications. Basically RDS tuners can identify and display the name of the radio station being received, but they offer a variety of other features as well. **REMOTE CONTROL:** Couch-potato friendly. SIGNAL STRENGTH METER: Indicates strength of signal from

aerial, useful for aligning your 'twig' during installation ROTARY TUNING KNOB: The ergonomically attractive approach to dial-surfing. FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page

ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

Tuners			WAVEBANDS PRES	SIGNA REMO	AL STREM TE CONT	TARY I GTH M	FACTSB TUNING K TETER	ACK NUL NOB	SUE NUM MBER	<b>BER</b>
Product	Price(£	) Comments		<b>V</b>			V	<b>V</b>	$\mathbf{v}$	V
AMC T7	130	Performance adequate but price is sharp, especially with remote control. Some hum	FM, M	30	-	•				166
Arcam Alpha 7	230	Indifferent RF performance but a touch of audiophile sound quality with clean, strong signals	FM,M,L	24	-					166
Arcam Delta 280	399	Fine sound quality marred by mild synthesiser whine; RF performance only average. Remote £60 extra	FM	20			•		1	120
Audiolab 8000T	750	Unusually combination of fine sound quality and RF performance (inc AM), and superb ergonomics	FM,M,L	39	1		•	•	1254	142
Denon TU-260L	120	Careful minimalist design promises a surprisingly open and vivacious sound	FM,M,L	20						93
Denon TU-425RD	200	A fine all-rounder with advanced RDS, good RF performance and decent sound. Remote extra	FM, M	40	•					166
Harman/Kardon TU950	200	Bulky but effective, delivering fine RF performance and good sound for the price	FM,M,L	30	•					166
Linn Kremlin	2,600	Controversially good sound at a very high price. The reviewer's saving up but you should check it out for yourself	FM	80		•	•		1254	142
Magnum Dynalab FT101	825	Although fairly expensive given its minimum set of facilities, its excellent sound provided ample compensation	FM			a Br				72
Micromega Tuner	700	Has digital output but even without the Micromega DAC, this provides exceptional sound quality. Looks good too	FM	39		•	٠		1810	157
Mission Cyrus FM7	400	Open, generous soundstaging gives the music plenty of foundation, if a touch shut in at the top	FM	29		•	•	•	1254	142
Musical Fidelity E50	300	Sounds involving if coloured and with a subjectively larger than life presentation	FM	20					1810	157
Naim NAT01	1,645	There may be better sounding tuners in the world, but we have yet to hear one	FM						1254	142
Pioneer F-504RDS	250	Cable-friendly with advanced RDS and excellent RF performance, slightly disappointing sound	FM,M	40	٠		•	•		166
Rotel RT-935AX	160	Good ergonomics and sound quality at a realistic price, but limited features and RF selectivity	FM,M	20						166
Sony ST-SA3ES	250	Clean, lean presentation but needs a quality aerial to its best	FM,M,L	30	•		•	•	1810	157
Technics ST-GT350L	150	Decent RF poerformance is offset by sound quality more typical of a mini/midi system	FM,M,L	30		•		•	1254	142
Thorens TRT2000	450	Not exactly neutral sounding, it nonetheless makes listening fun	FM,M	59	•	•	•	•	1810	157



pecialist turntables are what high fidelity sound is all about. CD players may offer silent backrounds and flat frequency responses, but they can't match the dynamics and superlative timing that serious turntable users take for granted. Turntables at the cheaper end of the market tend to be supplied with a matching tonearm, and often include a 'starter' cartridge. Still better quality is found at higher prices among the separate motor units

and tonearms. Careful partnering and set-up is essential for these components, but many so-called 'sympathetic' combinations exist.

Because turntables are mechanical devices that are designed to retrieve modulations as small as a micron, engineering quality is of paramount importance. It is also the reason why turntables cost as much as they do, and require high quality support systems.



#### KEY

IUAL: You do it all: put the needle on the record and take it off. AUTO: The record player does it all. SEMI-AUTO: You share the work: you put it on, it takes it off. SPEEDS: In RPM to correspond with your platters. SUSPENDED SUBCHASSIS: Sprung suspension to minimise

EXTERNAL PSU: Outboard power supply; generally it indicates high SUPPLIED WITH ARM: Many turntables require a separate arm to be fitted: if not, this tells you so.

structural int

supplied with a needle FACTSBACK NUMBER. The Eactsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page.

SUPPLIED WITH CARTRIDGE: Most turntables do not come

ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared

TURNTAB	LES	Manu Manu	UAL "	SUSPEN SEMI-AUTO	TERNAL SUPP DED SUBCHASS SPEEDS	LED WIT	ACTSBAL Y SARTRI Y ARM	ISSUEN NUMBER	UMB
and the second se	Price(£)	) Comments	V		standard and			VV	
Alphason Sonata	835	Good sound in all areas - bass, clarity and neutrality all in top class (tested with HR100S MCS)	•		33	•			7
Clearaudio Reference	2,500	Opulent beast tested with Souther TQ-1 arm. Tends to gloss over detail with a fizzy character but is quite bold	•		33/45		_	1328	-
DNM Rota 2	4,800	Tonally slightly bleached, but extracts detail like few others. Works well on own table	•		33/45	•	٠	• 1328	-
Dual 505-4 UK	200	Consistent sounding and well isolated turntable. It is slightly lacking in oomph			• 33/45	•	•	•	10
Kuzma Stabi/PS	1,200	(Tested with Stogi Reference) Solid oak plinth; sound is very clear, detailed and extended	٠		33/45	•			9
Linn LP12 Basik	1,050	Trails the full LP12 significantly, but pace, rhythm, timing etc still top rank	٠		33	•	٠		10
Linn LP12 Lingo	1,750	The classic reference is improved by the Lingo, but charming character remains	٠		33/45	•		1. S.	9
Michell Gyrodec	765	Sweet and natural sounding player, well matched to Rega RB300 arm	٠		33/45	•			:
Moth Kanoot	329	Rather coarse sounding deck that requires decent isolation and comes with a Rega RB300 arm	•		33/45		•		16
Notts Analogue Spacedeck/A	rm1,125	No frills, just a first rate, outstandingly natural sounding deck that will last forever	•		33/45				1
<b>Pink Triangle Anniversary</b>	1,980	Possibly the most detailed, clear and neutral sounding deck around. Likeness to master tape is uncanny	٠		33/45	•			
Pro-ject 2	299	Remarkably effective at the price with decent timing and a generally well defined sound	•		33/45		•	•	10
ro-ject 6/Sumiko	699	Don't think of this as a mid price deck with a good arm, but as a scaled down Oracle Delphi – it's that good	٠		33/45	•			1
Rega Planar 2	214	A remarkable product at the price, surprisingly articulate and confident	•		33/45		•		
Rega Planar 3	274	The '3 sounds musical in a balanced and coherent manner, needs decent isolation and suffers a little pitch instability	•		33/45		•		1
Rega Planar 9	1,598	Featuring the RB900 arm and a ceramic plinth this deck puts Rega into contention with the best decks available	•		33/45				1
Reson RS1	675	Supplied set-up and ready-tuned, this unconventional deck is packed with mid-band detail			33/45				1
Rivelin Eclipse	1,100	Tested with SME 309. Tends to simplify things and add a slightly ragged edge to the proceedings	•		33/45			132	8 1
Roksan Radius 3/Tabriz zi	890	Elegant looking turntable with a tidy, ordered sound. Bright and breezy if a shade lightweight	•		33/45	•			1
SME Model 20A	4,631	Supplied with Series V arm. Engineered to last a lifetime, giving excellent stereo and detail retrieval	•		33/45/78	•			1
Systemdek 1/920/Moth	235	The motor is derivative of the Rega Planar 2 with a Moth arm. Uptempo, even bright at times but never lacks enthusiasm	•		33/45	•	•	•	1
Systemdek 2X2	499	Neutral, flexible and dynamic deck that begs to be used with a good arm and cartridge	•		33/45	•			1
Thorens TD166 VI/UK/RB	300	Refined and solid sound with well focussed imagery; suitable for use with good MM and budget MC cartridges	•		33/45	•		•	1
Thorens TD2001	700	Balances convenience and sound well, but deck lacks detail and bass could be better controlled			• 33/45	•	•		1
Voyd 0.5	3,940	Cross between standard and Reference Voyds. Superb finish, colourful and dynamic	•		33/45	•	•	132	28 1
Voyd Reference	6,962	Voyd's flagship, equipped with three substantial motors, a strong contender for world's best	•		33/45	•			
Well Tempered Record Playe	r 1,800	Intriguing and challenging. Musically it is not ideal, but has a limpid quality and a lack of artificiality that sets standards	•		33/45	•	•	118	30 1
Wilson-benesch TT/Act 2 an		Carbon fibre is extensively used in this neutral and well resolved turntable with its fabulous unipivot tonearm (Statements			33/45	•		177	5 1

Factsback

ver wanted to look back at a Hi-Fi Choice review or needed some sound ■ independent advice to make up that 'Best Buy' system? Factsback is a personal service designed to help you navigate the ever-increasing list of available products. Now, our reprints are instantly available to you via your fax (or fax/modem) 24 hours a day. You get the review you need, just when you need it. International readers can order copies of reviews (£1.50 per page with a credit card) by calling Starcomm on +44 1132 940600.

#### How much will it cost?

The cost of our easy-to-use service is 39p per minute off-peak and 49p per minute at all other times. The pages you will receive have been designed to keep user costs to a minimum. The Factsback system was put together by Starcomm Ltd (01132) 940600.

L 0891 616518

#### How Hi-Fi Choice Factsback works

- Call the Factsback system from the handset of your fax machine. The handset must be switched to 'tone'. 0
- Following voice prompts, select either an index of documents or specific documents by a known document number from the keypad of your fax machine. റ
- Factsback delivers your choice of documents to your fax machine complete with coversheet. Ø

# MANUFACTURER & DISTRIBUTOR CONTACT NUMBERS

	DNM - Victual Dealth Audia Systems - tol 01077 207255 - fax 01077 204102
	DNM • Virtual Reality Audio Systems • tel 01277 227355 • fax 01277 224103 DPA • tel 01222 795621 • fax 01222 794267 • Dealers 17
Acoustic Energy Ltd • tel 01285 654432 • fax 01285 654430 Acoustic Precision • tel 01483 267516	Dual • RAM UK Ltd • tel 0161 973 0505 • fax 0161 905 1965 • Dealers 450
Acurus • Audio Illusion • 01753 542761 • fax 01753 542772	Dynavector • Pear Audio Ltd • tel 01665 830862
ADT • Aanvil Audio • tel 01359 240687 • fax 01359 240687	
Advent • Entel Ltd • tel 01483 425702	EAD • Audio Illusion • 01753 542761 • fax 01753 542772
Adyton • Aanvil Audio • tel 01359 240687 • fax 01359 240687	EAR • Yoshino • tel 01480 861834 • fax 01480 432006
Air Tangent • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962	ECA Distribution • tel 0181 998 1086 • fax 0181 998 1086 • Dealers 5
Aiwa UK • tel 0181 897 7000 • fax 0181 564 9446 • Dealers 2000+	Electrofluidics • tel 0171 247 0813
Akai (UK) Ltd • tel 0181 897 6388 • fax 0181 897 1508 • Dealers 250	Electrocompaniet • Sound Image UK • tel 0181 255 6868 • tel 0181 255 6869
AKG • Harman Audio UK Ltd • tel 0181 207 5050 • fax 0181 207 4572 • Dealers 30	Electrostatic Research • Audusa & Co • tel 0181 942 6241 • fax 0181 395 0793
Alamo • Moth Marketing • tel 01234 741152 • Dealers 50	EMF Audio • tel 0181 361 6734 • fax 0181 361 4136 Epos Acoustics • tel 01705 407722 • fax 01705 400099 • Dealers 68
Alchemist Products • tel 0181 883 3008 • fax 0181 883 1160 Allison Acoustics Ltd • tel 01484 603333 • fax 01484 607774	Exposure Electronics • tel 01/03 423877 • fax 01/03 430619
Alon • Sound Image UK • tel 0181 255 6868 • tel 0181 255 6869	Exposure Electronics tel 01279 423077 lax 01279 430013
Alphason • tel 01942 678000 • fax 609913 • Dealers 700	Faraday Sound • tel 01603 762967
Apollo Hi-Fi Furniture • tel 0121 520 5070 • fax 0121 522 2055	Fi-Rax • JEM Distribution • tel 01924 277626
AMC • Campus International Ltd • tel 01494 431290	Forté Audio • Acoustic Energy Ltd • tel 0181 840 6305 • fax 0181 579 1761
Analysis • Audio Spectrum • tel 01752 361852	Frameworks • Arrow Consultancy Ltd • tel 01702 611451
Arcam • A&R Cambridge Ltd • tel 01223 440964 • fax 01223 863384 • Dealers 211	Fullers • Fuller's Audio • tel/fax 01702 612116
Ariston • Hi-fi Direct • tel 0171 827 9827 • fax 0171 827 9009 • Dealers 23	G
Art Audio • tel 0115 965 3604 • fax 0115 963 7795	Gale • Hi-fi Direct • tel 0171 827 9827 • fax 0171 827 9009 • Dealers 23
Atacama • Sambell Engineering • tel 01455 283251	Gallo • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962
ATC Loudspeaker Technology Ltd • tel 01285 760561 • fax 01285 760683 • Dealers 25 ATD • Aanvil Audio • tel 01359 240687 • fax 01359 240687	Gamma Acoustics • tel 01753 526939 • fax 01753 526939
Audio Innovations • Hi-fi Direct • tel 0171 827 9827 • fax 0171 827 9009 • Dealers 23	Genelec • Project • tel 0171 359 0400 Genexxa • Intertan Ltd • tel 01922 434000 • fax 01922 710789 • Dealers 346
Audio Note • Audio Note UK • tel 01273 220511 • fax 01273 731498 • Dealers 15	Glanz • Presence Audio • tel 01522 454000 • Tax 01522 710769 • Dealers 546
Audio Physic • Aanvil Audio • tel 01359 240687 • fax 01359 240687	GLL • Goodmans GLL • tel 01705 492777 • fax 01705 470875 • Dealers 250
Audio Research • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962	Goldring Products Ltd • tel 01284 701101 • fax 01284 750040 • Dealers 100
Audio Technica Ltd • tel 0113 2771441 • fax 0113 2704836 • Dealers 100	Goodmans Industries Ltd • tel 01705 673763 • fax 01705 664333
Audiolab • Cambridge Systems Technology Ltd • tel 01480 52521 • fax 01480 52159	Grado • Goldring Products Ltd • tel 01284 701101 • fax 01284 750040 • Dealers 50
Audiomeca • Kronos Distribution • tel 018687 48632 • fax 018687 48281	Graham • Audio Reference • tel 01435 575344 • fax 01483 301412
Audiophile Furniture • tel 01342 826262	Grant Amplifiers • tel 01705 837392
Audioquest • A&R Cambridge Ltd • tel 01223 440964 • fax 01223 863384	Grundig International Ltd • tel 01788 577155 • fax 01788 562354
Audiostatic • Audiofreaks • tel 0181 948 4153 • fax 0181 948 4250 • Dealers 12 Audiovector • The Chord Company • tel 01722 331674 • fax 01722 411388	GT Audio • tel 01895 833099
Audubvector • The Chold Company • ter 01722 \$31074 • 1ax 01722 \$11386 Aura • B&W Loudspeakers (UK Sales Ltd) • tel 01903 750750 • fax 01903 750694	Harbeth Acoustics Ltd • tel 01444 440955 • fax 01444 440688
Alla - Daw Eduspeakes (or cales Ed) - ter 0105 70700 - tax 0105 75004 AVI • AV International Ltd • tel 01453 765682 • fax 01453 752777 • Dealers 23	Harman/Kardon • Gamepath Ltd • tel 01908 317707 • fax 01908 322704 • Dealers 85
B	Helius Designs • tel 01386 830083 • Dealers 5 + direct
B&O • Bang & Olufsen UK Ltd • tel 01734 692288 • fax 01734 693388 • Dealers 167	Heybrook Hi-fi Ltd • tel 01579 342866 • fax 01579 342833 • Dealers 75
B&W Loudspeakers (UK Sales Ltd) • tel 01903 750750 • fax 01903 750694 • Dealers 400 Bandridge • tel 0181 543 3633	Hørning • Definitive Audio • tel 0115 981 3562
Basis • Woodstock Music & Film Systems • tel 01865 883535 • fax 01865 881012	Infinity • Gamepath Ltd • tel 01908 317707 • fax 01908 322704 • Dealers 85
Benz-Micro • Audiofreaks • tel 0181 948 4153 • fax 0181 948 4250 • Dealers 12	Interaudio • Bose UK Ltd • tel 01795 475341 • fax 01795 427227
Beyerdynamic • tel 01273 479411 • fax 01273 471825 • Dealers 300	lxos • Path Distribution • tel 0121 749 2240 • fax 0121 748 3838 • Dealers 700
Bose UK Ltd • tel 01795 475341 • fax 01795 427227 • Dealers 496	
Boston Acoustics • Portfolio Marketing • tel 01494 890277	Jadis • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962
Boulder Amplifiers • Sound Image UK • tel 0181 255 6868 • tel 0181 255 6869 Bravura • Thomas Transducers • tel 01732 851408	Jamo UK Ltd • tel 01327 301300 • fax 01327 300511 • Dealers 300 + JBL • Gamepath Ltd • tel 01908 317707 • fax 01908 322704 • Dealers 85
Bryston • Professional Monitor Co • tel 01/32/249119 • fax 01923/249219	Jecklin • May Audio Marketing (UK) Ltd • tel 01943 864930 • fax 01943 863814
	John Shearne • tel 01438 740953
Cable Talk • tel 01252 373434 • fax 01252 371818	Jordan Watts Acoustics Ltd • tel 0181 985 1646 • fax 0181 986 0112
Cadence • Henley Designs • tel 01753 889949 • fax 01753 889636	JPW Loudspeakers Ltd • tel 01752 607000 • fax 01752 607001 • Dealers 200
Cambridge Audio • Hi-fi Direct • tel 0171 827 9827 • fax 0171 827 9009 • Dealers 23	JVC UK Ltd • tel 0181 450 3282 • fax 0181 208 3038 • Dealers 5000
Canon Audio Ltd • tel 01256 841300 • fax 01256 841333	
Castle Acoustics Ltd • tel 01756 795333 • fax 01756 795335 • Dealers 264	KAL UK Ltd • tel 01303 245005 • fax 01303 221736
CAT • Audio Reference • tel 01435 575344 • fax 01483 301412	KEF Audio Ltd • tel 01622 672261 • fax 01622 672939 • Dealers 240
Celestion International Ltd • tel 01473 322222 • fax 01473 729662 • Dealers 200           Cerwin Vega • CSE Administration • tel 01423 359054 • fax 01423 359058 • Dealers 98	Kenwood • Trio-Kenwood UK • tel 01923 816444 • fax 01923 819131 • Dealers 1000 Keswick Audio • tel 01977 671823 • Dealers 13
Chord • The Chord Company Ltd • tel 01722 331674 • fax 01722 411388 • Dealers 210	Kimber Cable • RATA Ltd • tel 01539 823247 • fax 01535 823317
Chord Electronics • tel 01622 764874 • fax 01622 764874	Kiseki • Presence Audio • tel 01444 461611 • fax 01444 461510 • Dealers 10 + direct
Classé Audio • Audio Illusion • 01753 542761 • fax 01753 542772	Koetsu • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962 • Dealers 20
Clearaudio • Heatherdale Audio • tel 01903 261213	Koss • HW International • tel 0181 808 2222 • fax 0181 808 5599
Clements • Wollaton Audio • tel 0115 928 4147	Krell • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962 • Dealers 17
Concordant • Sambell Engineering • tel 01455 283251	Kronos Distribution • tel 018687 48632 • fax 018687 48281
Conrad-Johnson • Audiofreaks • tel 0181 948 4153 • fax 0181 948 4250 • Dealers 12	Kudos • tel 01732 461648 • fax 01732 462949
Copland • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962 • Dealers 32 Counterpoint • MPI Electronic UK Ltd • tel 01483 454993 • fax 01483 454992	Kuzma • Audiofreaks • tel 0181 948 4153 • fax 0181 948 4250 • Dealers 12
Credo • Townshend Audio • tel 01784 455866	LAT International • Audusa & Co • tel 0181 942 6241 • fax 0181 395 0793
Creek Audio Ltd • tel 0181 361 4133 • fax 0181 361 4136 • Dealers 40	LFD • tel 01255 422533 • fax 01255 221370 • Dealers 7
CR Developments • CR Developments Ltd • tel 01702 469055 • fax 01702 601883	Linaeum • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962
Crimson • Virtual Reality Audio Systems • tel 01277 227355 • fax 01277 224103	Linn Products • tel 0141 644 5111. • fax 0141 644 4262
Croft • Eminent Audio • tel 0121 373 1442 • fax 0121 377 8309	Living Voice • Definitive Audio • tel 0115 981 3562
Custom Design • tel 0191 262 4646	London • Presence Audio • tel 01444 461611 • fax 01444 461510 • Dealers 10 + direct
	Lowther Voight Ltd • tel 0181 300 9166
Dali • Audio Club • tel 0181 343 2082 • fax 0181 346 4925 Dawn Audio Ltd • tel 01932 355040 • fax 01932 355041	Lumley Reference • Reference International • tel 01435 868004 Luxman • Hi-fi Direct • tel 0171 827 9827 • fax 0171 827 9009 • Dealers 23
Day Sequerra • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962	Lynwood Electronics • tel 01709 873667 • Dealers 25
Day Sequerra • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962 Deadrock • Path Distribution • tel 0121 749 2240 • fax 0121 748 3838 • Dealers 700	Lynwood Electronics • tel 01709 873667 • Dealers 25 Lyra • Path Premier • tel 01494 441736 • fax 01494 461209

 $\rightarrow$ 

# **MANUFACTURER & DISTRIBUTOR CONTACT NUMBERS (CONTINUED)**

Magneplanar • Woodstock Music & Film Systems • tel 01865 883535 • fax 01865 881012	S
Magnum • Hailey Audio Ltd • tel 01992 442425 • Dealers 6	Sansui UK • tel 01204 700139
Magnum Dynalab • Audio Reference • tel 01435 575344 • fax 01483 301412	SD Acoustics • tel 0181 399 6308 • fax 0181 399 6308
Mana Acoustics • tel 01753 655744	Sennheiser UK Ltd • tel 01628 850811 • fax 01628 850958 • Dealers 850
Manticore Audio Visual • tel 01767 318437 • Dealers 5 + direct	
Marantz Hi-fi UK Ltd • tel 01753 680868 • fax 01753 680428 • Dealers 200+	
Mark Levinson • Path Premier • tel 01494 441736 • fax 01494 461209	Sharp Electronics (UK) Ltd • tel 0161 205 2333
Martin-Logan • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962 • Dealers 20	Shearne Audio • tel 01438 740953 • fax 01438 740995
Matisse • GT Audio • tel 01895 833099	Sherwood • Hi-fi Direct • tel 0171 827 9827 • fax 0171 827 9009 • Dealers 23
Maxell UK Ltd • tel 01923 777171	Shun Mook • Audiofreaks • tel 0181 948 4153 • fax 0181 948 4250
AcIntosh • MPI Electronic UK Ltd • tel 01483 454993 • fax 01483 454992	Shure • HW International • tel 0181 808 2222 • fax 0181 808 5599
Meridian Audio Ltd • tel 01480 434334 • fax 01480 432948 • Dealers 98	Siltech • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962
Metaxas • UK Distribution • tel 01753 654531	SME Ltd • tel 01903 814321 • fax 01903 814269 • Dealers 125
Vichell Engineering • tel 0181 953 0771 • Dealers 8	Sonic Frontiers • MPI Electronic UK Ltd • tel 01483 454993 • fax 01483 454992
Wichi • Gamepath Ltd • tel 01908 317707 • fax 01908 322704 • Dealers 18	SonicLink • Audiokits • tel 01332 674929
Micro-Seiki • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962	Sonus-Faber • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962 • Dealers 3
Micromega DA Ltd • tel 0181 502 1416 • fax 0181 502 1438 • Dealers 104	Sony United Kingdom Ltd • tel 0181 784 1144
Vinstrel • Quantum Audio Ltd • tel 01563 571122 • fax 01563 571133	Sound Organisation • Goldring Ltd • tel 01284 701101 • fax 01284 750040
Ainstrel         Quantum Audio Ltd         tel 01563         571122         fax 01563         571133           Ainssion         Centralforce Ltd         tel 01480         451777         fax 01480         432777         Dealers         259	Sound-Lab • Audiofreaks • tel 0181 948 4153 • fax 0181 948 4250
Aonitor Audio Ltd • tel 01223 242898 • fax 01223 214532 • Dealers 45	Soundstyle • Goldring Products Ltd • tel 01284 701101 • fax 01284 750040 • Dealers
Monrio • UK Distribution • tel 01753 654531	Spendor Audio Systems • tel 01323 843474 • Dealers 17
Monster • Gamepath Ltd • tel 01908 317707 • fax 01908 322704 • Dealers 181	Spica • Presence Audio • tel 01444 461611 • fax 01444 461510
Aordaunt-Short Ltd • tel 01705 407722 • fax 01705 400099 • Dealers 200	Stands Unique • tel 01933 461058
Aorel • Wilmslow Audio • tel 01455 286603 • tel 01455 286605	Stanton • Lamba Electronics plc • tel 017278 40527 • fax 017278 37811
Noth Marketing • tel 01234 741152 • Dealers 30	Stay • Path Premier • tel 01/04/04/1736 • fay 01/04/061209
Musical Fidelity Ltd • tel 0181 900 2866 • fax 0181 900 2983 • Dealers 145	Stemfoort Audio • Audio Synergy Ltd • tel 01924 406016 • fax 01924 410069
Musical Technology • tel 01494 793137	Sugden • Audio Synergy Ltd • tel 01924 406016 • fax 01924 410069 • Dealers 12
Ayryad Systems Ltd • tel 01705 265508 • fax 01705 231407	Sumiko • Path Premier • tel 01494 441736 • fax 01494 461209
N	Sumi • Audusa & Co • tel 0181 942 6241 • fax 0181 395 0793
VAD Marketing Ltd • tel 0181 343 3240 • fax 0181 346 4925 • Dealers 380	System Audio • The Chord Company • tel 01722 331674 • fax 01722 411388
Naim Audio • tel 01722 332266 • fax 01722 412034 • Dealers 70	System - Systemdek Ltd • tel 01294 271251 • fax 01294 277095
Neat Hi-Fi • tel 01325 460812 • Dealers 15	
Nottingham Analogue • tel 01773 762947 • fax 01773 533566 • Dealers 4	
VVA • tel 01763 272707 • fax 01763 271694 • Dealers 3	Tannoy Ltd • tel 01236 420199 • fax 01236 428230 • Dealers 400
0	Tara Labs • Acoustic Energy • tel 01285 654432 • fax 01285 654430
Dnkyo UK • tel 0181 343 2082 • fax 0181 346 4925 • Dealers 120	
Dptimum International 2000 • tel/fax 01274 583249	Target Audio Products • tel 01582 401244
Drelle Hi-fi • tel 0181 908 4126 • Dealers 30	TDL Electronics Ltd • tel 01628850111 • fax 01628 850130 • Dealers 274
Drigin Live • tel 01703 442183 • Dealers 25	Teac UK Ltd • tel 01923 819630 • fax 01923 236290 • Dealers 200
Ortofon • Henley Designs • tel 01753 889949 • fax 01753 889636 • Dealers 200	Technics • Panasonic UK Ltd • tel 0990 357357 • fax 01908 681931 • Dealers 2000
P	Tesserac Research Ltd • tel 0181 669 0011 • fax 0181 773 0406
Panasonic UK Ltd • tel 0990 357357 • fax 01908 681931 • Dealers 3000 +	Theta • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962
Papworth Audio Technology • tel 01480 830345	Thiel • MPI Electronic UK Ltd • tel 01483 454993 • fax 01483 454992
Partington • tel 01322 383712	Thorens • Portfolio Marketing • tel 01494 890277
Pentachord Loudspeakers • tel 0181 788 2228 • Dealers Direct	Thule • Virtual Reality Audio Systems • tel 01277 227355 • fax 01277 224103
	Totem • May Audio Marketing (UK) Ltd • tel 01943 864930 • fax 01943 863814 • Dea
Philips Consumer Electronics Ltd • tel 0181 689 2166 • Dealers 5000+	
Pickering Cartridges • tel 01904 642463 • fax 01904 652225	Transfiguration • Audio Reference • tel 01435 575344 • fax 01483 301412
Pink Triangle Projects • tel 0171 703 5498 • Dealers 47 Pioneer High Fidelity (GB) Ltd • tel 01753 789564 • fax 01753 789536 • Dealers 500	Transparent Audio • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962
Ploneer High Fidelity (GB) Ltd • tel 01/53 789564 • tax 01/53 789536 • Dealers 500	
Woodstock Music & Film Systems • tel 01865 883535 • fax 01865 881012	
Polk Audio • tel 01727 827311 • fax 01727 827284 • Dealers 104	Tube Technology • tel 01932 850354
Posselt • GT Audio • tel 01895 833099	U
Prime Design • tel 0181 906 2119 • fax 0181 959 5008	UKD-Opera • UK Distribution • tel 01753 652669
Pro-ject • Henley Designs • tel 01753 889949 • fax 01753 889636 • Dealers 70	Unison Research • UK Distribution • tel 01753 652669
Proac • DNA Marketing • tel 01403 753180 • fax 01403 753181 • Dealers 19	V
Professional Monitor Co • tel 01923 249119 • fax 01923 249219 • Dealers 12 + direct	van den Hul UK • tel 0181 810 9388 • fax 0181 810 9365 • Dealers 160
PS Audio • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962	Vandersteen • A&R Cambridge Ltd • tel 01223 440964 • fax 01223 863384
	Visonic • Canford Audio • tel 0191 415 0205
QED Audio Products Ltd • tel 01276 451166 • fax 01276 452211 • Dealers 150 +	Vivanco UK Ltd • tel 01442 231616 • fax 01442 235421 • Dealers 1000 +
QLN UK Ltd • tel 01352 730251 • fax 01352 730251	VPI • Audiofreaks • tel 0181 948 4153 • fax 0181 948 4250
Quad • Centralforce • tel 01480 52561 • fax 01480 413403 • Dealers 130	W
Quadraspire Ltd • 01634 296615 • Dealers 50	Wadia • Woodstock • tel 01865 883535, fax 01865 881012
R	Well Tempered • Pear Audio Ltd • tel 01665 830862 • 01665 830051
RCF Electronics • tel 01268 570808 • fax 01268 570809	Wharfedale Loudspeakers Ltd • tel 01480 431737
RA Labs • RDL Acoustics • tel 01484 603333 • Dealers 4 + direct	Wheaton • Audiofreaks • tel 0181 948 4153 • fax 0181 948 4250
Realistic • Intertan Ltd • tel 01922 434000 • fax 01922 710789 • Dealers 346	Wilmslow Audio • tel 01455 286603 • fax 01455 286605
Rega Research Ltd • tel 01702 333071 • fax 01702 432427 • Dealers 54	Wilson • Absolute Sounds • tel 0181 947 5047 • fax 0181 879 7962 • Dealers 7
Rehdeko • Virtual Reality Audio Systems • tel 01277 227355 • fax 01277 224103	Woodside Electronics • tel 01994 448271
REL Acoustics Ltd • tel 01656 766093 • Dealers 80	Y
Reson • Virtual Reality Audio Systems • tel 01277 227355 • fax 01277 224103	Yamaha Electronics UK Ltd • tel 01923 233166 • fax 01923 244930
Revolver UK Ltd • tel 0161 973 0505 • fax 0161 905 1965	Yoshino • tel 01480 467788
Richard Allen Loudspeakers • tel 01274 872442	Z
Rivelin Audio • Sonic Link • tel 01332 674929 • fax 01332 361390	Zeta • Moth Marketing • tel 01234 741152 • Dealers 50
Rogers • Swisstone Electronics Ltd • tel 0181 640 2172 • Dealers 100+	ZYP • Presence Audio • tel 01234 741132 • Dealers 30 ZYP • Presence Audio • tel 01444 461611 • fax 01444 461510 • Dealers 2 + direct
Roksan • Centralforce Ltd • tel 01480 451777 • fax 01480 432777	
Rose Industries Ltd • tel 01235 847023 • Dealers 10	
Ross Consumer Electronics Ltd • tel 01703 666363 • fax 01703 666190	
Rotel • Gamepath Ltd • tel 01908 317707 • fax 01908 322704 • Dealers 232	Amandation
NULEI * Galilepalii Llu * LEI 01500 517707 * Iak 01500 522704 * Dealers 252	Nonlinear and a second s
Royd Loudspeakers Co Ltd • tel 01952 290700 • fax 01952 290190 • Dealers 65	

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.

# Directory

Members of the British Audio Dealers Association are able to offer

• Two year guarantee, trans-

ferable to another BADA dealer should the purchaser move more than 30 miles from his/her original address

Iow cost five year quarantee

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 ହ (0171) 226 4044

#### **BATH/BRISTOL**

AUDIO EXCELLENCE, 65 Park Street, Bristol. Tel (0117) 9264975. All that's best in Hi-Fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in-house workshops, full credit facilities with interest free on selected items. Tues-Sat 9 00-5 30 Closed Mon. BADA Tues-Sat 9.00-5.30. Closed Mon.

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 Scultpture, 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) 9686005. Alon, ATC, Audiomeca, AVI, Cable Talk, Cadence Valve, Chord Amps, Electrocompaniet, Exposure, Goldring, Harman Kardon, Heybrook, Jamo, LFD, Lyra, Mesa Baron, Michell, Opera, Ortofon, Pink Triangle, Pro-Ac, Project, REL, Ruark, Shearne Audio, Silver Sounds, SME (inc 20A), Sonic Link, Stax, Townshend, Triangle, Trichord, Unison Research, Wadia. Dems by appt only, home trial facilities, free installation, service facilities. Access, Visa. For full product listing please see Dealer Guide.

#### BEDFORDSHIRE

RICHARDS AUDIO VISUAL, 4 Greyfriars, Bedford, Tel (01234) 365165. Stockists of Arcam, Audioquest, Aura, Beyer, B&W, Bose, Celestion, Cyrus, Denon, Heybrook, Marantz, Mission, Moth, Nakamichi, Ortofon, Pioneer, Pro-ject, REL, Rotel, Royd, Ruark, Sennheiser, Systemdek, Target, Thorens, Van den Hul & more! Hi-Fi Listening Room. Open 6 days 9.30-5.30.

#### BERKSHIRE

AUDIO T, 4 Queens Walk, Broad Street Mall, Reading. Tel (0118) 958 5463. Fax (0118) 956 6417. Open Tues-Sat 9-5.30. See our main entry under Oxford. We also sell Audio Alchemy, AV, Linn Naim. Reoa & Rovd. BADA Linn, Naim, Rega & Royd.

#### BIRMINGHAM

GRIFFIN AUDIO, 94 Bristol Street, Birmingham. Tel (0121) 692 1359/(0121) 622 2230. Please see full entry under Wst Midlands

IUSIC MATTERS, 351 Hagley Road, Edgbaston, Birmingham B17 8DL. Tel (0121) 429 2811. Rotel, Denon, Lexicon, Tannoy, Ruark, Alchemist, Exposure, Pioneer, Roksan, Nakamichi, Arcam, Audiolab, Musical Fidelity, Mission/Cyrus, Meridian, KEF, Monitor Audio, Pink Triangle. 2 single speaker luxury demo rooms. Appts nec, home trial facilities,

free installation, service dept. Access, Visa, instant credit up to £1000, interest free credit available. Tue-Thur 10.30-6, Fri 10.30-8, Sat 10-6. MUSIC MATTERS, 93-95 Hobs Moat Road, Solihull, W. Midlands B92 HJ1. Tel (0121) 742 0254. See main entry under West Midlands MUSIC MATTERS, 156-157 Lower High Str Stourbridge, W Midlands D18 1TS. TEL (01384) 444184. See main entry under West Midlands BADA

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 demo's 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 BADA installation

#### BUCKINGHAMSHIRE

NORTHWOOD AUDIO II, 98 Cambridge St, Aylesbury, Bucks HP20 1BA. Tel. (01296) 28790 (A/P). Selected sounds from Alchemist, Audio Meca, Aura, Boston, B&W, Cabletalk, Castle, Celestion, Chord Company, Denon, D.P.A. Exposure, Grado, Harman Kardon, Heybrook, KEF, Marantz, Michell, Micromega, Monitor Audio, Moth, Musical Technology, NAD, Nakamichi, Pink Triangle, Pro-Ac, Rega, REL, Rose, Rotel, Royd, Ruark, Systemdek, Tannoy, TDL, Teac, Thorens. NOBODY EVER REGRETTED PURCHASING THE BEST. Export orders welcome. 2 Dem rooms. Credit facilities available.

TECHNOSOUND and AUDIO INSIGHT, 7-8 Granville Square, Willen, Milton Keynes, Bucks, MK15 9JL. Tel: (01908) 604949. Main lines include Meridian, Arcam, B&W, Acoustic Energy, Musical Fidelity, Mission, Ruark, Royd, Teac, UKD. 4 Dem Rooms Custom Home Cinema Video Projection and Dolby Digital. Service Department, Free Installation and Home Trial Facilities. Access & Visa accepted and Interest Free Credit available. Open Mon 1-6pm, Tues-Sat 10-6pm, late night Fri till 7.30pm.

#### CAMBRIDGESHIRE

THE AUDIO FILE, 41 Victoria Road, Cambridge CB4 3BW. Tel (01223) 68305. See our main entry under Hertfordshire.

UNIVERSITY AUDIO, 1-2 Peas Hill, Cambridge. Tel (01223) 354237. Acoustic Energy, Mission-Arcam, Rotel, Denon, Meridian, Ruark, Cyrus, ATC, AVI, Quad, Linn. 3 dems, 1 single speaker. Home trial, free install, Service Department Visa, Access, Amex, Credit. Open 9-5.30.

#### CHESHIRE

ACOUSTICA, 17 Hoole Rd, Chester CH2 3NH. Tel (01244) 344227. Arcam, Linn, Naim, Rega, Ruark KEF, Micromega, Epos, Rotel, Royd, Teac etc. Full demonstration facilities, home dems and installation a pleasure. INTEREST FREE CREDIT (subject to status). Open Tuesday to Saturday, evenings by arrangement. For the best products and the best service, call ACOUSTICA.

ACTON GATE AUDIO, 4 Ruabon Rd, Wrexham. Tel (01978) 364500. Demonstration room, installation service. Easy parking and motorway access. Access, Visa etc. See main entry under CLWYD.



ASTON AUDIO, 4 West St, Alderley Edge. Tel (01625) 582704. Arcam, Audiolab, Bang & Olufsen, Cyrus, KEF, Meridian, Mission, Quad, Rotel. For the very best in hi-fi separates and home cinema. Wide range of specialist audio, interest free credit Visa, Access. Home trial. BADA AUDIO COUNSEL, 14 Stockport Rd, Cheadle, Cheshire. Tel (0161) 428 7887. Please see entry BADA under Greater Manchester

AUDIO EXCELLENCE, 86-90 Boughton, Chester, CH3 5AQ Tel (01244) 345576. All that's best in Hi-Fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in-house workshops, full credit facilities with interest free on selected items. Tues-Sat 9.00-5.30. Closed Mon. BADA

CHRIS BROOKS HI-FI, 29 Gaskell St, Stockton Heath, Warrington. Tel (01925) 261212. Tues-Sat 10-6. 3 dem rooms. Credit facilities. All <u>credit</u> cards. Total absence of bull\*\*\*\*

DOUG BRADY HI-FI, Kingsway Studios, Kingsway North, Warrington, WA1 3NU. Phone (01925) 828009, Fax (01925) 825773. For the widest range of high quality hi-fi in the Northwest. Family business est. 35 years. 3 dem rooms, incl home cinema, home trials; deliveries throughout NW; Access, Visa, Credit Facilities. Open 10-6; 6 days. Send for free map and/or 5 page sale list **BADA** HALE HI-FI, 2 Bold St, Hale Road, Altrincham, Cheshire WA14 2ER. Tel (0161) 929 0834. Open Tues-Sat 10-6 and later by appointment. Specialising in equipment by: Castle, Marantz, NAD, Naim, Quad, Royd, Yamaha plus selected others. Large range of quality accessories. On site service department. Installation & delivery. We also install and service TV's and videos. Home demonstrations a pleasure

THE HI-FI SHOWROOMS, 12A West Str. Congleton, Cheshire Tel (01260) 280017. Celestion, Creek, Exposure, Musical Fidelity, Naim, Project. Rotel. Royd, Ruark, Tannoy, TDL, Technics, Thorens, UKD opera. 5 Dem Rooms, Home trial, Free install, Service dept. Access, Visa, Lombard Tricity. Open 9-5:30, Closed Wed.

**REPLAY AUDIO CONSULTANTS, Tel/Fax CHESTER** (01244) 401290 Cheshire's alternative hi-fi spe cialists. Honest advice and personal service. We can demonstrate Alchemist, AVI, Henley, Heybrook, LFD, Michell, Moth, Musical Fidelity NAD, Neat, Origin Live, Ortofon, Pink Triangle, Royd, Sonneteer, Totem, Trichord. Demonstrations by appointment in Chester or in your own home. Delivery and installation available. Mastercard/Visa/Switch/Delta.

#### **CLEVELAND**

ACTION ACOUSTICS, 155-157 High Street, Redcar, Cleveland TS10 3AN. Tel (01642) 480723. Audio Note, Denon, Harman-Kardon, Heybrook, Jamo, JBL, Michell, Ortofon, Pink Triangle, Rogers, Royd, Sonic Link, Teac, Thorens, Townshend etc. Dem Room. Appts nec. Home trial facilities, free installation, service dept. Access, Visa & H.P. Open 9.15-5.30. Interest free credit.

CORNWALL SOUNDS PERFECTION, Nightree House, Mawgan, Helston, Cornwall, TR12 6AX. Tel/Fax (01326) 221372. Brands include Alchemist, Analysis, Arion, Audiomega, Audionote, Audio Spectrum,

INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS ASSOCIATION

Cadence, Harrian, Kardon, Michell, Monitor Audio, Ortofon Phylosopy Cables, Parasound, Project, REL, SME, Thorens, Triangle, Trichord. Demonstration facilities by app. Home trials, friendly service available 7 days anytime.

#### DEVON

AUDIO EXCELLENCE, 156 Sidwell St, Exeter EX4 6RT. Tel (01392) 491194. All that's best in hi-fi, carefully selected and demonstrated by friendly knowledgable staff at prices to suit all budgets. Delivery and installation, home dems, part exchange, in-house workshops, full credit facilities with interest free on selected items. Tues-Sat 9.00-5.30. Closed Monday. BADA

#### DORSET

DAWSONS, 23 Seamoor Road, Westbourne, Bournemouth, Dorset. Tel (01202) 764965. B&O, Castle, Canon, Jamo, JBL, Pioneer, Sony, Target, TDL, Technics. No appts necessary. Free install, Service depart Various credit facilities available. Open 9-5.30 6 days a week.

MOVEMENT AUDIO, 588 Ashley Road, Poole, Parkstone, Dorset BH14 0AQ. Tel (01202) 730865. Arcam, Audiolab, B&W, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Michell, Micromega, Pioneer, Ruark, Sheame Audio. 2 Dem 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, Access, Visa, Amex, Diners card, Credit facilities available. Open Mon-Fri 10-6, Sat 9-6. BADA IOVEMENT AUDIO, 336 Wimborne Road, Winton, Bournemouth, Dorset, BH9 2HH. Tel (01202) 529988/520066. Arcam, B&W, Denon, KEF, Marantz, Meridian, Mission, Pioneer, Sony, Yamaha. Full dem facilities available, also home dem. Friendly expert advice. Service Department. Free installation. Home trial facilities. Access, Visa BADA Amex. Open Mon-Fri 9-5.30. 18 Westover Road. HI-FI. SUTTONS Bournemouth. Tel (01202) 555512. Linn, Arcam, Mission, Quad, Audiolab, Rotel, Yamaha, Denon, etc, 2 Single Speaker Listening Rooms, Home Demonstrations, Free Installations.Open BADA Mon-Sat 9-5:30. Call for details. WEYMOUTH HI-FI, 33-35 Maiden Street, Weymouth, Dorset DT4 8BA. Tel (01305) 785729. Arcam, Aura, B&W, Denon, Kenwood, Marantz, Micromega, Musical Fidelity, Panasonic, Quad, Sony, Technics, Yamaha. Dem room. Friendly professional advice. Only quality hi-fi dealer in Weymouth area. Service Department. Free installation. Home trial facilities. Access, Visa, Amex, Switch. Delta Mastercard. Interest free credit. Instant credit. Open Mon 9.30-5.30, Fri-Sat 9.30-5.30 BADA

#### DOVER

JOHN MARLEY HI-FI CENTRES LTD, DOVER HI Fl,, 43 High Street, Dover. Tel (01304) 207562. Arcam, Aura, B&W, Heybrook, J.P.W., NAD, Pioneer, Panasonic, Rotel, Ruark, Tannoy, TDL, Technics. A/V Dem Room. Full service department, Mon-Sat 9-5.30, Free installation, Credit to £1000. Access, Visa, Switch, Electron. Established 25 years. Expert advice. Friendly service.



#### DURHAM

HI-FI EXPERIENCE, 17 Coniscliffe Road, Darlington DL3 7EE. Tel Help Line (01325) 481418. Fax (01325) 382982. Agencies include: Arcam, Audiolab, Bang & Olufsen, Celestion, Cyrus, Denon, Harman, IMF, KEF, Marantz, Mission, Musical Fidelity, Meridian, NAD, Pioneer, Quad, Rotel, Shearne, Tannoy, Yamaha. 3 listening rooms. 3 years guarantee. Free delivery and simple installation North Yorks/South Durham. Home cinema specialist.

#### ESSEX

AUDIO T, 442-444 Cranbrook Road, Gants Hill, Illford, IG2 6LL. Tel (0181) 518 0915. Fax (0181) 554 8463. Open Tues/Thur/Fri 10-7. Wed/Sat 9.30-5.30. See our main entry under Oxford. We also sell AVI, Jamo, Michell & Micromega. EADA RAYLEIGH HI-FI, 44a High Street, Rayleigh, Essex. Tel (01268) 779762/747571. 216 Moulsham St, On-the-Parkway, Chelmsford. Tel (01245) 265245. 132-134 London Road, Southend-on-Sea. Tel (01702) 435255. Arcam, Audiolab, Cyrus, Denon, Epos, KEF, Linn, Loewe Tvs, Marantz, Miller & Kreisel, Naim, Quad, Rega, Boksan Botel Buark 0% finance Excellent AV range. Home cinema Dolby Pro-Logic, multi-room specialist. BADA

GLOUCESTERSHIRE AUDIO EXCELLENCE, 58 Bristol Road, Gloucester. Tel (01452) 300046. All that's best in Hi-Fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in-house workshops, full credit facilities with interest free on selected items. Tues-Sat 9.00-5.30. Closed Mon. BADA AUDIO T, 40-42 Albion Street, Cheltenham, GL52 2RQ. Tel (01242) 583960. Fax (01242) 226435. Open Tues-Fri 9.30-6. Sat 9.30-5.30. See our main entry under Oxford. We also sell Linn, Naim, Rovd & Ruark.

#### HAMPSHIRE

AUDIO T, 4 Feathers Lane, Basingstoke, RG21 1AS. Tel (01256) 24311. Fax (01256) 24430. Open Tues-Sat 9-5.30. See our main entry under Oxford. We also sell Linn, Naim, & Royd. HAMPSHIRE AUDIO LTD, 2-12 Hursley Rd, Chandlers Ford, Hants S053 2FU. Tel 01703 252827/265232. 3 hi-fi and 2 home cinema surround sound dem studios. Winner of Southern England Sony/Hi-Fi News Dealer Awards. Projection TV with 8ft Screen. Thurs late, closed Mon (except in Dec). 2yr guarantee, service dept. On site free parking, junctions 4 (M27/M3), 5 (M27), 12 (M3), 13 (M3) all within 3 miles.

#### BADA

JEFFRIES HI-FI 29 London Boad, Portsmouth, PO2 OBH. Tel (01705) 663604. Hi-fi, home cinema and multi-room specialist. Range includes Acoustic Energy, Arcam, Beyer, Celestion, Chord, Definitive Technology, Denon, Harbeth, Heybrook, KEF, Lexicon, Linn, Loewe, Miller & Kreisel, Naim, Panasonic, Polk, Rega, REL, Rotel, Royd, Ruark Seleco, Sennheiser, Sound Organisation, Sound Style, Top Tape, Yamaha. 2 dem rooms. Open Tues-Sat, late night Wed. Free parking, bus route credit facilities. Winner Sony/Hi-Fi News Best Southern Dealer.

NOW THATS HI-FI 32 Arundel St., Portsmouth, Tel (01705) 811230. Pioneer, Yamaha, Marantz, Kenwood, Mission, T.D.L, REL, Attacama and much more. Laserdisc and AC3 specialists. Accessory centre at 24 Arundel Way, Portsmouth. Tel (01705) 811618.

#### **HEREFORDSHIRE**

ENGLISH AUDIO, 37 Whitecross Road, Hereford HR4 ODE. Tel (01432) 355081. Arcam, A.T.C., Audiolab, B&W, Castle, Celestion, Cyrus, Denon, Exposure, KEF, Marantz, Micromega, Mission, Musical Technology, Naim, Nakamichi, Pink Triangle, Pioneer, REL, Rotel, Ruark, Shearne, Stax, Systemdek, Quad, TDL., Yamaha and others. Single Speaker Dem room. Home trial. Free install. Service dept. Access, Visa, Credit arranged.Open Mon-Sat 9.30am-5.30pm.

#### HERTFORDSHIRE

ACOUSTIC ARTS LTD, 101 St Albans Rd, Watford, Herts. Tel (01923) 245250. Fax (01923) 230798 Apogee, Audiolab, Audio Research, B&W, Bose, Castle, Celestion, Chord, Classe, Copland, Denon, KEF, Magneplanar, Marantz, Martin Logan, Michell, Micromega, Orelle, PS Audio, Professional Moitor, Roksan, Ruark, SME, Sonus Faber, Sonic Link, TDL, Theta, Thorens, Wilson. 4 demonstration rooms. Purpose built AV studio. Credit available, 100 vards from Watford Junction station. Open Tues-Sat 10-5:30 (Thursday open until 8pm). BADA

THE AUDIO FILE, 27 Hockerill St, Bishops Stortford, Herts CM23 2DW. Tel (01279) 506576. 9.30-5.30 open 6 days,9.30-8pm Thursdays. Linn, Naim, Quad, Cyrus, Arcam, Roksan, Denon, Epos, KEF, BADA Marantz, ProAc, Rega, Yamaha. 0% credit. 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. BADA DAVID ORTON AUDIO VISUAL 6-8 Bancroft, Hitchin, Herts, SG5 1JQ Tel (01462) 452248 Fax (01462) 458424. Stockists of Apollo, Arcam, B&W, Celestion, Denon, Marantz, Mission, Pioneer, Rotel, Ruark, Soundstyle, and many others. Hi-Fi listening room and AV dem. room. Workshop off premises, free installation, home trial, Access, Amex, Visa, Diners, Interest free and instant credit. Open 9.30-5.30 Mon-Sat.

RADLETT AUDIO, 9 Holywell Hill, St Albans, Hertfordshire AL1 1EU. Tel (01727) 855577 Probably the longest established high-end dealer in the country. Demonstration facilities second to none with systems to suit all budgets. Mainlines include: Mark Levinson, MIT, Sonus Faber, B&W, Copland, Audiolab, Proac, Marantz, Trichord, AVI

STUDIO 82 (Harpenden) Ltd, 82 High Street, Harpenden, Herts AL5 2SP. Tel (01582) 764246. Fax (01582) 467022, Arcam, ATC, Audiolab, Aura, AVI, Bang & Olufsen, Bose, Castle, Chord Co, Denon, Harbeth, KEF, Marantz, Mission, Musical Technology, NAD, Naim Audio, Nakamichi, Panasonic, Quad, Roberts Radio, Sennheiser, Soundstyle, Tannoy, Target, TDL. Single Speaker Demonstration room. Free installation. Service dept. Access, Visa, Switch, Amex. Open 9am-BADA 5.30pm Mon-Sat.

#### 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, Multi Room or Home Cinema. Attractive unusual equipment in unusual setting, your place or ours, we guarantee lasting pleasure.Open Mon-Sat, Appointment Service of just pop in. Tel (01233) 624441. BADA HALKSWORTH WHEELER, 85 King Street, Maidstone ME14 1BG. Tel (01622) 756756. Bang & Olufsen, Bose, Denon, Grundig, JVC, Jamo, KEF, Mordaunt Short, Marantz, NAD, Onkyo, Panasonic, QED, Sony, Sennheiser, Technics, Target. Hi-Fi, Home Cinema, Multi-Room Custom Installation Specialists Part Exchange, Service Dept Full inance Facilities

HALKSWORTH WHEELER, 34 Guildhall Street, Folkestone Tel (01303) 255688. See previous

LINN STUDIO, 123 Snargate Street, Dover, Kent, CT17 9AP. Tel (01304) 201525, Fax: 01304 240135. Sondek LP12\*, Knekt\*, Karik\*, Kairn\*, Klout\*, Kremlin\*, Keltik\*, Kaber\*, Keiledh\*, Numerik\*, Tukan\*, Wakonda\*, Majik\*, Mimik\*, LK100\*, Ekos\*, Kudos\*, Arkiv\*, Brillant\*, Lingo\*, Valhalla\*, Sekrit\*, Aktiv\*... Dream systems for



everyone from £2000 to £30000+. A new dealership from a specialist family business, established in 1948. Outstanding service and facilities. Multiroom specialist. MUSICAL IMAGES LTD.

126 High St Beckenham, Kent BR3 1ED, Tel (0181) 663 3777, Fax (0181) 663 3555. Email: sales@musical-images.co.uk. AV Dealer of the Year. Home Cinema, Hi-Fi, multi-room specialists. Main authorised dealers for over 100 brands. Interest free credit anywhere in the UK, subject to status. Mail-order worldwide. 10 demonstration rooms throughout Musical Images, including projectors and big screen TVs. Professional home installation and design consultancy. Part exchange, service and repairs. Active Musical Images Club. Open all week including Sundays. 10am–6pm (10am–4pm Sundays.) Sundays.) UNILET SOUND & VISION 24-26 Union Street,

Maidstone ME14 1ED. Tel (01622) 676703. 5 minutes from M20. Three superb hi fi and home cinema demonstration rooms. Most leading brands. Home survey and set up. Friendly and interested staff. Interest free credit and credit cards. "The best place in town for hi fi and home cinema." Bada Bonded. Open Sundays. BADA J HI-FI, 29 Guildhall St, Folkestone. Tel (01303) 256860. Kenwood, Marantz, Mission, Musical Fidelity, Pioneer, Quad, Rogers, Tannoy, Yamaha. Dem and home trial facilities, free local install. No appts necessary, service dept. Amex, Diners, Visa, Access, Interest free credit, Instant credit, Mon-Sat 9-6.

V J HI-FI, 119 High Street Margate. Tel (01843) 226977. For full details see our above entry . BADA

#### LANCASHIRE

AUDIO EXCELLENCE, 131 Friargate, Preston, Lancs PR1 2EE. Tel (01772) 253057 Fx (01772) 562731. All that's best in Hi-Fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in-house workshops, full credit facilities with interest free on selected items. Tues-Sat 9.00-5.30. BADA Closed Mon.

CLEARTONE, 235 Blackburn Road (1/2 mile from city centre on the A 666 Blackburn Road), Bolton, Lancs BL1 8HB. Tel (01204) 531423. Bolton's biggest Hi-Fi superstore. Every top brand & all the best buys at guaranteed unbeatable prices. Aiwa. Akai, Arcam, Audiolab, B&W, Bose, Castle, Celestion, Denon, Hitachi, Infinity, JBL, JVC, KEF, Kenwood, Marantz, Meridan, Mission, Mordaunt Short, NAD, Panasonic, Pioneer, Rotel, Sony, Tannoy, TDL, Technics, Toshiba, Yamaha. 2 Dedicated Hi-Fi Demo rooms and 2 A/V Demo rooms, no appointments necessary. Service department, free installation, home trial facilities. free parking. Access, Visa, Amex, Diners. Interest free credit. Open Mon - Wed 10.00-6.00, Thurs -Fri 10.00-7.00, Sat 9.00-6.00, Sun 11.00-5.00.

#### LEICESTERSHIRE

CYMBIOSIS, 6 Hotel Street, Leicester., LE1 5AW Tel (0116) 262 3754 Facsimile (0116) 262 3758. Arcam, Audiolab, Denon, Epos, KEF, Linn Hi-Fi, Linn AV51, Loewe Televisions, Micromega Stage, Micromega Classicline, Mordaunt Short, Myryad, Projekt Furniture, Rega, Rotel & Royd, Multiroom Design and Installation Service.4 Listening Lounges. Finance available. Open 6 days 10 am-BADA 5.30pm

LEICESTER HI-FI CO, 6 Silver Walk, St Martins Square, Leicester LE1 5EW. Tel: (0116) 2539753. Fax (0116) 2626097. Alchemist, Arcam, Aura, B&W, Copland, Harman Kardon, KEF, Marantz, Michell, Mission Cyrus, Musical Fidelity, Pink Triangle, Quad, Roksan, Rotel, Sonus Faber, Technics, Yamaha and more too numerous to mention. 2 Dem rooms. We can demonstrate, deliver and install. Credit Facilities. All cards taken, 6 days 9.30-5.30 BADA

STEREO SHACK, 1-3 Guildhall Lane, Leicester. Tel (0116) 2530330. Fax (0116) 2626097. Yamaha, Kenwood, NAD, Mission, Teac, Aiwa, Cerwin Vega, Pioneer, TDL, Thorens, JBL, Rotel, Celestion,

INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS ASSOCIATION

Jamo and many more. We are A.V. specialists, 2 dem rooms. We can demonstrate, deliver & install. Credit facilities and all cards taken. 6 days 9 30-5 30

WILMSLOW AUDIO, 50 Main St, Broughton Astley, Leicester LE9 6RD. Tel (01455) 286603. Suppliers of high quality loudspeaker kits, drive units, acoustic sound damping, cross-overs, and components. ATC, Dynaudio, KEF, Morel, Peerless, Scanspeak, Seas. All major credit cards taken. Open 9-5.30 Mon-Fri, 9-1 Saturday.

#### LONDON

ALPHABEC, 392 Finchley Road, London NW2 2HR. Tel (0171) 431 9133. Main product lines include Denon, Sony, JVC, Onkyo, Linn, Loewe, Grundig, Yamaha, Teac, Boston Acoustics, Jamo. One demo room with full cinema surround system available and service dept. Interest free credit available. Access, Amex, Visa and Mastercard accepted. Open Mon-Sat 10-6pm, half day Thurs

ANALOG AUDIO, 849 High Rd., London N12. Tel: 0181 445 3267. We stock Harman-Kardon, Rotel, Denon, Teac, Pioneer, Jamo, Boston, Thorens, JBL, Yamaha, Tannoy, Kenwood, TDL and many more. Access, Barclaycard etc welcome. We do repairs, home deliveries and installation. Open 9.30 - 6 Mon - Sat.

AUDITORIUM, 119 Middlesex St, (off Bishopsgate), London E1 7JF. Tel (0171) 247 5000. Condescending, elitist Hi-Fi snobs with bad attitudes, that offer 'Great Coffee' and ill informed advice, we aren't. Great kit, demo room, multiroom installations etc., friendly and professional are our middle names. Call Derek, Keith or Alester for a demo, or just turn up. Brands include: Naim Audio, Rega, Denon, KEF, Mission, Cyrus, B&O etc.

AUDIO T, 190 West End Lane, West Hampstead, London NW6 1SQ. Tel (0171) 794 7848. Fax (0171) 431 3570. Open Tues-Sat 10-6 Late Thurs until 8.00. See our main entry under Oxford. We also sell BADA Micromega, Proac, Van den Hul & XTC. BILLY VEE SOUND SYSTEMS, 248 Lee High Road, Lewisham, London SE13 5PL. Tel (0181) 318 5755/(0181) 852 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. Access, Visa. Open Mon-Sat 10-6.30, Closed Thurs. BADA THE CORNFLAKE SHOP, 37 Windmill Street, London W1P 1HH. Tel (0171) 631 0472, Fax (0171) 436 7165. Open Tues-Sat 10-6, Thurs 10-7. The specialists for the highest quality sound, be it for one room or many more. We offer friendly advice, and a full delivery and installation service is available. Two listening rooms (appointments preferred). Service department. Amex, Mastercard, Switch, Visa. Worldwide mail order service. Brands include; Arcam, ATC, AVI, Bryston, Dynaudio, Mark Levinson/Proceed, Naim, Pro Monitor Co, Rega, Royd, and much more... THE

CORNFLAKE SHOP - Double egg, bacon, chips. GRAHAMS HI-FI, Canonbury Yard, 190a New North Rd, London N1. Tel (0171) 226 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 dem rooms, service dept, open Tues-Sat. RING FOR APPOINTMENT.

HI-FI & COMPONENTS, 84 Battersea Rise, London, SW11 1EH. Tel (0171) 223 1110. ESTAB-LISHED 33 years. Beyer, Celestion, Cerwin Vega, Denon, Eminence, Goodmans, Harman Kardon, KAM, Jamo, Kenwood, QED, NAD, Ortofon, Sennheiser, Shure, Stanton, Tannoy, Project, Marantz, Vivanco, Wide range of accessories & stylis. Appts nec, Service Dept. Access, Switch, Visa, Diners, Amex, Open 10-6 Closed Wed.

HI-FI EXPERIENCE, Lion House, 227 Tottenham Court Road, London W1P -HX. Tel Help Line 0171-580 3535 24 hour, Fax 0171-436 4733. Agencies include: Arcam, Audiolab, Bang & Olufsen, Castle, Celestion, Chord, Cyrus, Denon, Heybrook, Harman, IMF, KEF, Marantz, Mission, Musical Fidelity, Meridian, Nakamichi, NAD, Pioneer, Quad, Rotel, Sheame, Tannoy, TDL, Yamaha. 8 listening rooms, 3 years guarantee. Free delivery and simple installation (M25 periphery), home cinema BADA specialist.

INFIDELITY, 9 High Str, Hampton Wick, Kingston upon-Thames, Tel (0181) 943 3530. For ful details see entry under SURREY.

K.J. WEST ONE, 26 New Cavendish St, London. W1M 7LH. Tel (0171) 486 8262/63. Fax (0171) 487 3452. Most established brands stocked. Two Hi-Fi and two Home Cinema dem' studios Appts nec Home trial. Free installation. Service dept. Major credit cards. Interest free credit usually available - ask for details. Open 10am-6pm 5 days - closed Weds and Sunday.

**KAMLA** 251 Tottenham Court Rd, London, W1P 9AD. Tel (0171) 323 2747. Kenwood, Pioneer, JVC, Philips, Toshiba, Boston, B&W, AR, Mitsubishi. Demonstration room available. Appts required. Service dept. Access, Visa, Amex, Diners. Open Mon-Sat 9-6.

MUSICAL IMAGES LTD, 18 Monmouth Street, Covent Garden, London WC2H 9HB. Tel (0171) 497 1346, Fax (0171) 497 9205. Email: sales@musical-images.co.uk. AV Dealer of the Year. Home Cinema, Hi-Fi, multi-room specialists. Main authorised dealers for over 100 brands Interest free credit anywhere in the UK, subject to status. Mail-order worldwide. 10 demonstration rooms throughout Musical Images, including pro-jectors and big screen TVs. Professional home installation and design consultancy. Part exchange, service and repairs. Active Musical Images Club. Open all week including Sundays 10am–7pm (10am–4pm Sundays). The BADA 10am-7pm (10am-4pm Sundays). USICAL IMAGES LTD, 173 Station Road Edgware HA8 7JX. Tel (0181) 952 5535, Fax (0181) 951 5864. E-mail: sales@musicalimages.co.uk. See main entry under Middlesex THX BADA

MUSICAL IMAGES LTD, 45 High Street, Hounslow, Middlesex TW3 1IR. Tel (0181) 569 5802, Fax (0181) 569 6353. E-mail: sales@musical-images.co.uk THX BADA ORANGES & LEMONS, 61-63 Webbs Road. Battersea SW11. Tel (0171) 924 2040. Juicy fruit from London's newest, freshest hi-fi/home cinema retailer. Telephone demonstrations or just pop in. All the usual, is 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, Micromega, NAD, Naim, QED Multiroom, Quad, Rega, Roksan, Rotel, Royd, Ruark, Soundstyle, Stands Unique, Yamaha with more to come. The innovative Audio/Visual retailer.

STUDIO 99, 79-81 Fairfax Road, Swiss Cottage London NW6. Tel (0171) 624 8855, Fax (0171) 624 5315. Naim, Meridian, Quad, ATC, Mission, Cyrus, Rega, KEF, Arcam, Epos, Acoustic Energy, Yamaha, Philips, Royd, Rotel, Sonus Faber, Bang & Olufsen. High quality demonstrations. Home Cinema. Multi-room. Service Dept. Visa/Access credit facilities. Mon-Fri 10.00am-7.00pm, Sat. 10.00\_6.00pm BADA

THOMAS HEINITZ, 35 Moscow Road, Bayswater, London, W2 4AH. Tel (0171) 229 2077. Fax (0171) 727 9348. Nearest tube stations Queensway and Bayswater. Plenty of parking meters available. Demonstration room available by appointment. Stockists of B&O, Naim, Rega, Micromega, Cyrus, Denon and Epos. Payment via, ACCESS, VISA, cheques, cash and interest free credit facilities (details on request). Open 10.30am-6.00pm, Tuesday-Saturday.

#### **GREATER MANCHESTER**

SEL, 14 Shaw Road, Oldham, OL1 3LQ. Tel (0161) 633 2602 Fax (0161) 633 2502. Linn, Naim, Rega, Arcam, Rotel, Royd, Mission, Micromega, Marantz, Shahinian, Celestion, Nakamichi, Dynavector. Free installation. Record club. Major credit cards and credit facilities. Open Tuesday-Saturday 10.00 to 5.30, 8pm on Thurs

DEALER

Directory

#### MIDDLESEX

AUDIO T, 159a Chase Side, Enfield, Middlesex EN2 OPW. Tel (0181) 367-3132, Fax (0181) 367-1638. Open Tues-Fri 9.30-6. Sat 9.30-5.30. See our main entry under Oxford. We also sell Kenwood, Linn, Micromega & Moth. BADA MUSICAL IMAGES LTD, 173 Station Rd, Edgware HA8 7JX. Tel (0181) 952 5535. Fax (0181) 951 5864. Email: sales@musical-images.co.uk. AV Dealer of the Year, Home Cinema, Hi-Fi, multiroom specialists. Main authorised dealers for over 100 brands. Interest free credit anywhere in the UK, subject to status. Mail-order worldwide. 10 demonstration rooms throughout Musical Images, including projectors and big screen TVs Professional home installation and design consultancy. Part exchange, service and repairs. Active Musical Images Club. Open all week including Sundays. 10am–6pm (10am–4pm <u>Sundays)</u>. THX BADA

MUSICAL IMAGES LTD, 45 High Street, Hounslow, TW3 1IR. Tel (0181) 569 5802, Fax (0181) 569 6353. E-mail: sales@musicalimages.co.uk. See above entry. THX BADA MUSICAL IMAGES LTD, 18 Monmouth St, Covent Garden, London WC2H 9HB. Tel: (0171) 497 1346, Fax (0171) 497 9205. E-mail: sales@musi cal-images.co.uk. See main entry under London THX BADA

RIVERSIDE HI-FI LTD, 422 Richmond Road, East Twickenham, Middlesex TW1 2EB. Tel (0181) 892 7613. Fax (0181) 892 7749. Internet: http//www.riversidehifi.co.uk/ "Where dreams come true." e-mail: Soundadvice@riversidehifi.co.uk Angstrom, Arcam, Audiolab, Audio Research, B&W, Bose Copland, Castle, Denon, Dwin, Krell, KEF. Meridian, Marantz, Monitor Audio, Musical Fidelity, Michell, Micromega, Martin Logan, Nakamichi, Michell, Micromega, Martin Logan, Nakamichi, NHT, Pioneer, RCF, REL, Sony, Sonus Faber, Tannoy, Theta, Vidikron, Wilson, Yamaha. Appointments recommended, Finance available. All major credit cards accepted. Mon-Sat 10-6, Thurs 10-7

#### **WEST MIDLANDS**

AMADEUS SOUND & VISION, 10 Boldmere Road, Sutton Coldfield, West Midlands. Tel (0121) 354 2311, Audio Gem. aura, AVI, B&W, Castle, Marantz, Musical Fidelity, NAD, Harman Kardon, QED, Rotel, Sanneteer, Shearne Audio, TEAC. Single speaker demo, service available, installa-tions, home trials. Access, Visa, interest free credit available subject to status 9.30-6pm, 6 days. BADA EMPIRE ELECTRICAL SUPERSTORE, 21-22 Stephenson Street (behind New Street, opposite Pollasades car park), Birmingham City Centre, West Midlands B2 4JD. Tel (0121) 643 0972. Birmingham's biggest Hi-Fi superstore. Every top brand & all the best buys at guaranteed unbeat able prices. Aiwa, Akai, Arcam, B&W, Bose, Castle, Celestion, Denon, Hitachi, Infinity, JBL, JVC, KEF, Kenwood, Marantz, Mission, Mordaunt Short, NAD, Panasonic, Pioneer, Rotel, Sony Tannoy, TDL, Technics, Toshiba, Yamaha. 2 Dedicated Hi-Fi Demo rooms and 2 A.V Demo

rooms, no appointments required. Service department, free installation, home trial facilities Access, Visa, Amex, Diners. Interest free credit. Open Mon - Fri 9.30-6.00. Sat 9.00-5.30 FRANK HARVEY HI-FI EXCELLENCE, 163 Spon

Street, Coventry, Tel (01203) 525200 Fax (01203) 631403. E-MAIL: frank@hiflex.demon.co.uk 4000sq feet on 3 floors of the very Best Hi-Fi Audiolab, Audio Alchemy, Arcam, Audio Quest, B&W, Bang & Olufsen, Castle, Canon, Cable Talk, Chord, Cyrus, Definitive Technology, Denon, KEF Marantz, Meridian, Miller & Kreisel, Mission, NAD, Pioneer, Quad, REL, Rega, Revolver, Rogers, Rotel, Sennheiser, Sharp Projection, Systemdek, Teac, TDL, Van Den Hul, Yamaha. 3 Floors with 3 Dedicated Hi Fi Demo Rooms. Appts Necessary



Service Dept. Free install & Home Trial. Interest Free Credit on selected products. Open 9.30am to .30pm Monday to Saturday. BADA

GRIFFIN AUDIO, 94 Bristol Street, Birmingham West Midlands. Tel (0121) 622 2230/(0121) 692 1359. 40 years in Hi-Fi and still the best in the Midlands, We sell great Hi-Fi from Arcam, Denon, Linn, Marantz, Musical Technology, Nakamichi, Naim, Quad, Rega, Shahinian and Loewe Television. Arcam Xeta Home Theatre. Open Tues-Sat 10.00-5.30.

MUSIC MATTERS, 93-95 Hobs Moat Road, Solihull, W Midlands B92 HJ1. Tel (0121) 742 0254. Rotel, Denon, Lexicon, Tannoy, Ruark, Alchemist, Exposure, Pioneer, Roksan, Nakamichi, Arcam, Audiolab, Musical Fidelity, Mission/Cyrus, Meridian, KEF, Monitor Audio, Pink Triangle. 2 single speaker luxury demo rooms. Appts nec, home trial facilities, free installation, service dept, Access Visa, instant credit up to £1000, interest free credit available. Tue-Thur 10.30-6, Fri 10.30-8, Sat 10-6 Branches also at: 156-157 Lower High Str Stourbridge, W. Midlands D18 1TS. Tel: (01384) BADA 444184

SOUND ACADEMY, 152a High Street, Bloxwich Nr Walsall, W. Midlands Tel (01922) 493499/473499. Please see entry under BIRM-INGHAM BADA

#### NORFOLK

BASICALLY SOUND, The Old School, School Rd, Bracon Ash, Norwich NR14 8HG. Tel (01508) 570829. Audio Alchemy, Arcam, Audiolab, Beyer, Cabletalk, Chord Co opera speakers, Denon, Dynavector, Epos, Grado, Heybrook, Micromega, Naim, Nakamichi, Sound Organisation, Rotel, Royd, Spendor, TDL, etc. 2 comprehensive dem rooms. Home trial. Free installation. Visa, Access rooms. Home trial. Free Instanduon. view, roces., HP facilities. Tues-Fri 9.30-1, 2-5.30. All day Sat BADA

MARTIN'S HI-FI est. 1968, Ber St, Norwich. Tel (01603) 627010 Fax (01603) 611302. Arcam Atacama, Audiolab, Audioquest, Cable Talk Celestion, Cyrus, Denon, GLL, KEF, Marantz, Mission, Meridian, Monitor Audio, NAD, Pioneer Quad, Rotel, REL, Ruark, Sennheiser, Soundstyle and Target, separate AV and Hi-Fi demo rooms, Home Cinema specialists, Open Monday to Saturday 9-5.30. Home delivery and installation available. Interest free credit. Price promise - we BADA will match any genuine local price.

#### **NORTHAMPTONSHIRE**

CLASSIC HI-FI + VIDEO, School Lane, Kettering, Northants. Tel (01536) 310855. Aura, B&W Exposure, Harmon Kardon, Heybrook, JBL, KEF, Kenwood, Marantz, NAD, Orelle, Pioneer, Rogers, Rotel, Sheame, Sugden, Tannoy, Yamaha and many more. Home trial, free installation, service depart ment. All major credit cards. Open 9.30-5.30pm. LISTEN INN, 32 Gold Street, Northampton.

Tel (01604) 37871 Linn, Naim, Rega, Audiolab, Arcam, Mission, KEF, Epos, Royd, Nakamichi, Micromega, Minium, Myryad, Denon, Rotel, Marantz, Yamaha, Sennheiser, Chord Co, Cabletalk. 2 Listening Rooms. Free Installation. Part Exchange. All Major Credit Cards. Interest Free Credit Subject to Status. BADA OVERTURE, 3 Church Lane, Banbury, OX16 8LR. Tel (01295) 272158. See main entry under Oxfordshire.

Oxfordshire.

#### NOTTINGHAM

CHANTRY AUDIO 16-18a Eldon Street, Tuxford Nr Newark, Nottingham NG22 OLH, Tel (01777) 870372. Product lines include Krell, Theta Copeland, Epos, Audio Research, Ruark, Meridian, Sonus Faber, D.P.A., Mordaunt Short and many more. 3 dem rooms inc. home cinema. Service dept, free installation, home trial facilities. Access. Amex and Visa Accepted. Interest free credit available. Open Mon-Sat.

**DEFINITIVE AUDIO** serves the first time purchase and the seasoned audiophile with the same high level of care and interest. Our aim is long term customer satisfaction. We achieve this with quality impartial advice, quality back up and service and

INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS ASSOCIATION

genuine interest in your needs. We have an established reputation for achieving sound quality benchmarks with innovation. We have an extensive range of carefully selected agencies. We are open Mon-Fri 9.30-6.30, Sat 10.00-1.30. Visa / Mastercard / Amex. Deliveries nationwide and worldwide. Extensive second hand stock Components from £10.00 to £75000. Call for more information. Tel/Fax (0115) 9813562.

JOHN KIRK, 70 Chilwell Rd, Beeston, Nottingham. Tel (0115) 9252986. Est 1970. Professional advice and service. Demo room, Free installation, Service Dept. Arcam, Atacama, Aura, B&W, Canon, Castle, Denon, Dual, Marantz, Mordaunt Short, Nakamichi, Quad, Rogers, TDL, Technics, Nortingham HI-FI CENTRE, 120-122 Alfreton Road, Nottingham. Tel (0115) 9786919. The area's oldest established specialist (Est. 1969). Two superb demonstration rooms, easy free park-ing. Home Cinema and Multi Room. Stockists of: Arcam, Audiolab, Celestion, Denon, KEF, Linn, Loewe T.V., Marantz, Micromega, Michell, Mission-Cyrus, Rotel, Sennheiser, Yamaha. Mon-Sat 9.00-5.30.

PETER ELLIS AUDIO 29 Kirkgate Newark, Nottingham, NG24 1 AD. Tel (01636) 704571. Castle, JBL, Arcam, JVC, B&W, Jamo, Minium, Mordaunt Short, QED, Sugden, Tannoy, TDL, Thorens, Marantz, Denon, Teac. Demo room, Free install, Service Department. Home cinema dem room. Home trial facilities. Switch, American Express, Access. Visa, Mon-Sat 9-5:30 Close at 1:00pm on Thursday.

#### **OXFORDSHIRE**

ASTLEY AUDIO LTD, 3 Marketplace, Wallingford. Tel (01491) 839305. Aura, B&W, Canon, Denon, Dual, KEF, Kenwood, Marantz, Mission, Mordaunt Short, Panasonic, Pioneer, Sony, Tannoy, Technics, Yamaha. Home trial, free installation. Service dept. Access, VIsa, Amex, Diners. Instant credit. Tues-Fri 9-5.30, Sat 9-5. Tapes & C.D's stocked.

AUDIO T. 19 Old High Street, Headington. Oxford OX3 9HS. Tel (01865) 65961, Fax (01865) 60415. E.mail: hifi@audio-t.co.uk Web site http://www.audio-t.co.uk Great Value on Acoustic Energy, Arcam, Audiolab, B&W, Cable Talk, Celestion, Cyrus, Denon, Dynaudio, KEF, Marantz, Meridian, Mission, Monitor Audio, Mordaunt-Short, NAD, Pioneer, Quad, REL, Rotel, Trichord, Technics, Yamaha & many more. Tues-Fri 10-6. Sat 9.30-5.30. Late Thurs until 8.00. 3 year guarantee on Hi-Fi separates. Price Promise. 30 day free upgrade scheme. Part exchange. Interest Free Credit on selected items. 2 listening rooms. Home trials. 30 years in business. Home Cinema specialists. BADA Bonded Serious hi-fi shops - Silly prices! BADA Serious hi-fi shops - Silly prices!

OVERTURE HI-FI, 3 Church Lane, Banbury, 0X16 8LR. Tel (01295) 272158. Arcam, Bose, Denon, Heybrook, KEF, Linn Products, Mission, N.A.D. Naim Audio, Quad, Yamaha. For sensible unbiased advice, call Oxfordshire's audio experts. Superb demo facilities. No appts nec, service dept, free install, home trial. Access/Visa, instant credit. Mon-Fri 10-6, Sat 9.30-5.30 **OXFORD AUDIO CONSULTANTS, Cantay Hse** Park End Street, Oxford OX1 1JE. Tel (01865) 790879 Fax (01865) 791665. Quad, Denon, Spendor, Aura, Micromega, Ruark, B&W, Pink Triangle, Roksan, Krell, Sonus Faber NAD, Rotel, Musical Fidelity, Pioneer, Marantz, Rogers, TDL. Demo room. Home trial and free installation. Instant credit, Access, Amex, Visa. 10-6 Mon-Sat

WESTWOOD AND MASON, 46 George St, Oxford. Tel: (01865) 247783. Celebrating 50 years in high fidelity. In 1947 the Leak TL12 introduced the world to Hi-Fi (it would probably sell well today.) This year's landmark is the Rega Planet CD. Arcam, B&W, Denon, KEF, Klipsch, Marantz, Mission, Naim, Rega, Yamaha etc. Open 10-5pm. Dem room. Closed Thur. Mastercard/Visa.



SHROPSHIRE CREATIVE AUDIO, 9 Dogpole, Shrewsbury, SY1 1EN. 01743 241924. One of the largest ranges of quality HiFi/Audio Visual equipment outside of London. Arcam, Atacama, Cabletalk, Celestion, Chord, Cyrus, Denon, KEF, Miller & Kreisel, Mission, Onkyo, NAD, Naim, Nokia, Pace, Quad, Rega, Roksan, Soundstyle, Stands Unique. Comfortable listening room, home installation (including multiroom and tracking satellite), free 2 & 5 year warranties, selected used equipment, part-exchange welcome, specialist workshop facilities. Access/Visa/Switch/Amex and low cost finance from £250 up to £15,000.

#### SOMERSET

MIKE MANNING AUDIO - The HiFi and AV spe-cialists. The best in HiFi from: Arcam, ATC, Aura, B&W, Castle, Denon, Heybrook, KEF, Marantz, Naim Audio, NAD, Pioneer, Rega, Rotel, Royd, Shahinian, TDL, Teac. Somerset's Bang & Olufsen centre. Dedicated listening lounge for relaxed and unpressured demonstrations. Home installations on most systems, Full service department. Access, Visa, Instant Credit. Closed Mondays. 110. Middle Street, Yeovil, Somerset BA20 1NE FREEPHONE 0800 627 627. (01935-79361)

#### SUFFOLK

BASICALLY SOUND, The Old School, School Rd, Bracon Ash, Norwich. Tel (01508) 570829. For full details see entry under Norfolk. BADA EASTERN 41 Bramford Rd, loswich. AUDIO, 41 Bramford Rd, Ipswich. Tel (01473) 217217.Established over 21 years Easy parking, dem room. Mon-Sat 9.30-6. Quad, Arcam, Marantz, Meridian, Denon, Nakamichi, Audiolab, Technics, NAD, Castle, Celestion BADA Mission and B&W.

SURREY AUDIO DESIGNS, 26 High Street, East Grinstead, West Sussex RH19 3AS. Tel/Fax (01342) 314569 See main entry under West Sussex BADA COSMIC HI-FI SUPERSTORE EST 1962, 244-256 Station Road, Addlestone, Weybridge, Surrey KT15 2PS. Tel (01932) 854552/843769/851753 Fax (01932) 841615. 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, Marantz, Mission, NAD, Pioneer, Quad, Rogers, Sennheiser, Sony, Tannoy, Target, TDL, Technics, Thorens, Yamaha. Home cin, widescreen TV, projection TV, laserdisc. Int free credit. All Major credit cards.

**INFIDELITY**, 9 High Street, Hampton Wick Kingston Upon Thames, Surrey. Tel (0181) 943 3530. Arcam, Densen, Epos, Heybrook, Linn, Micromega, Naim Audio, Neat Acoustics, Rega Reserch, Royd, Shaninian, Yamaha. Single speaker listening room. Appts pref, free installa-tion, service dept. Major credit cards. Closed Mon, Tues-Fri 10.30-7, Sat 10-6pm. PJ HI-FI, 3 Bridge Street, Guildford, GUI 4RY. Tel (01483) 504801/304756. Mon-Sat 9-6pm. Linn, Rega, ProAc, EPOS, Rotel, Audiolab, Arcam, Meridian, Musical Technology, NAD, Quad, KEF Acoustic Energy, Marantz, B&W, Nakamichi, Rogers, Mission/Cyrus, Pioneer (precision). Listen to Linn/Meridian AC3 here now! Home Cinema & HiFi Dem rooms, parking, Free delivery & installation. Service department on the premises Call now BADA

RIVERSIDE HI-FI, 422 Richmond Road, East Twickenham. TW1 2EB. Tel: (0181) 892 7613. Fax: (0181) 892 7749. See main entry under BADA

**ROGERS HI-FI**, 13 Bridge Street, Guildford, Surrey. Tel (01483) 561049. B&W, Castle, Denon, Harman-Kardon, Marantz, Micromega, Mordaunt-Short, Musical Fidelity, Ruark, Systemdek, and many more. Demonstration facilities available, no appointment necessary. Free installation. Service department. Access/Visa. Instant credit up to £1,000 subject to status. Mondy-Saturday 9.30-6pm, later by appointment

ALDINGS HI-FI, (Established 30 years), 352-4

Lower Addiscombe Rd, Croydon, Surrey CRO 7AF. Tel (0181) 654 1231/2040. Linn Naim, Quad, Meridian, Audiolab, Mission, Marantz, Denon Ruark, Tannoy, Arcam, KEF, Castle. 3 dem rooms including AV room. Service dept, free install, home trial facilities, appointments advisable. Access, Visa Amex Interest free credit instant credit Mon-Sat9-5.45. Tues-8. Service dept. BADA SURREY H-FI, 45 High St, Godstone, Surrey RH9 8LS. (Just off J6 - M25) free parking, closed Wednesdays. Tel (01883) 744 755, Home Cinema on demo. Arcam, Alphason Atacama stands, Audiolab, Audioquest, Beyer headphones, Bose, Cabletalk, Denon, KEF Reference, KEF, Marantz, Michell, Musical Fidelity, Partington stands, Qudos Cable, REL, Rogers, Seismic sink, Sennheiser, Sound Style, Tannoy, Target, TDL, Thorens, Van den Hul cables, Yamaha. Interest free credit

UNILET SOUND & VISION, 35 High Street (Opposite Waitrose), New Malden, Surrey. KT3 4BY. Tel (0181) 942 9567. The very best hi fi and home cinema brands on show with 3 hi fi PLUS 3 home cinema demonstration rooms fully equipped at New Malden. Knowledgeable staff. Free car BADA parking. Open Sundays.

#### 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. 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. Hi-fi, home cinema and multi-room specialist. Range includes Acoustic Energy, Arcam, Beyer, Celestion, Chord, Definitive Technology, Denon, Harbeth, KEF, Kinshaw, Lexicon, Linn, Loewe, Miller & Kreisel, Naim, Panasonic, Rega, REL, Rotel, Royd, Ruark Sennheiser. Shahinian, Sound Organisation, Sound Style, Top Tape, Yamaha. 2 dem rooms. Open Tues-Sat, late night Wed. Free parking, bus route, credit facilities. Winner Sony/Hi-Fi News Best Southern Dealer BADA

JEFFRIES HI-FI, 4 Albert Parade, Green Street. Eastbourne BN21 1SD. Tel (01323) 731336, Fax (01323) 416005. Hi-fi, home cinema and multiroom specialist. Range includes Acoustic Energy, Arcam, Beyer, Celestion, Chord, Definitive Technology, Denon, Harbeth, Heybrook, KEF, Lexicon, Linn, Loewe, Miller & Kreisel, Naim, Panasonic, Polk, Rega, REL, Rotel, Royd, Ruark, Seleco, Sennheiser, Sony, Sound Organisation, Sound Style, Top Tape, Yamaha. Two demonstration rooms. Open Tues-Sat, late night Wed. Free parking, bus route, credit facilities, Winner Sony/Hi Fi News Best Southern Dealer THE POWERPLANT, 66/67 Upper North Street, Brighton BN1 3FL. Tel (01273) 775978 Fax (01273)

748419 Email: email@powerplant.co.uk Whatever your budget we can help you choose from our carefully selected range of todays finest hifi and home cinema equipment. Recommended agencies include Arcam, Audiolab, ATC, B&W, B&O, Cyrus, Exposure, Epos, Linn, Marantz, Micromega, Mark Levinson, Pro Ac, Rega, QED Systemline, Yamaha. Excellent demonstration facilites, Knowledgeable and Friendly Staff. Multi Room 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. Hi-Fi, Home cinema & Multi-room specialists. Authorised stockists of: Arcam, Audiolab, Cabletalk, Castle, Cyrus, Epos, KEF (inc. Reference), Linn (inc. AV51), Marantz, Mission, Naim, Pioneer (inc LaserDisc), Quad, Rel, Rotel, Sennheiser, Sony, Soundstyle, Stands Unique, Target, Thorens, Yamaha & more. 3 dedicated



demonstration rooms - Hi-Fi & Home cinema. Service dept. 0% finance available. 9.30-6.00 Mon-Sat. Late by appointment. BOWERS & WILKINS LTD, (Est. 1945) 1 Becket Buildings, Littlehampton Rd, Worthing. Tel (01903) 264141. 1 minute from A24 & A27.

Free local parking. Aura, B&W (inc. Matrix), Denon, Harman Kardon, Jamo, Marantz, Mission, Tannov T.D.L., Teac, Technics, Thorens, and many more in 4 Dem Rooms. Systems, Hi-Fi and Home Cinema. Service Dept., Installations. Open 6 days a week. Access, Visa, instant credit to £1000 subject to status.

PHASE 3 HI-FI, 215 Tarring Road, Worthing, West Sussex, BN11 4HW. Tel (01903) 245577. The South's leading Hi-Fi specialists Premise facilities include listening rooms and dedicated 'Home Cinema' demonstration rooms. Adcom, Arcam, B&W, Castle, Celestion, Denon, Heybrook, KEF, Reference, Kenwood, Lexicon, Marantz, Meridian, Monitor Audio, NAD, Shearne, Spendor, Tannoy, Thorone Vamaba Thorens, Yamaha

#### WARWICKSHIRE

SOUNDS EXPENSIVE, 12 Regent Str, Rugby. Tel (01788) 540772. Arcam, Audiolab, Quad, Meridian, Marantz, Mission, Celestion, KEF, Rotel, Ruark, Rotel, Heybrook. IMPROVE YOUR IMAGE, BE SEEN WITH US. Appts required, no service dept, free install, home trial facilities. Access, Amex, Visa, Diners, Instant credit. Open 9-5.30pm Mon-BADA Sat.

STRATFORD HI-FI, 10A Chapel Street, Stratford Upon Avon, Warwickshire. Tel (01789) 414533. Arcam, B&W, Bose, Cyrus, Denon, KEF, Marantz, Micromega, Mission, Monitor Audio, NAD, Panasonic, Onkyo, Pioneer, Rotel, Sony, Technics, Yamaha. Demonstration room, Service facilities, Mail Order, Interest free credit. Open 9.30-5.30 Monday to Saturday. All major credit cards. BADA

#### WILTSHIRE

AUDIO T, 60 Fleet St, Swindon, Wiltshire, SN1 1RA. Tel (01793) 538222. Fax (01793) 487260. Open Tues-Sat 9.30-6. See our main entry under Oxford. We also sell Linn & Naim. BADA SALISBURY HI-FI LTD, 15 Catherine Street, Salisbury, Wiltshire SP1 2DF. Tel (01722) 322169. Arcam, B&W, Celestion, Denon, KEF, Kenwood, Marantz, Meridian, Micromega, NAD, Ruark, Sony, Yamaha. 2 Dem rooms. Friendly relaxed atmos-phere. Professional advice. Home dem available. Service Department. Free installation. Home trial facilities, Access, Visa, Amex, Interest free credit, Instant credit. Open Mon-Sat 9-5.30

#### WORCESTERSHIRE

WEST MIDLANDS AUDIO, Worcestershires lead-ing Hi-Fi specialists stocking Bang & Olufsen, Naim Audio, Royd, Micromega, Arcam, Absolute Sounds, Teac, Acoustic Energy.On site demonstration room by appointment, home demonstrations available, multi-room installation specialists, free delivery. Interest free credit. Independence House, the trinity, Worcester, WR1 2PN. 01905 619085/619059

#### **YORKSHIRE (NORTH)**

HARROGATE HI-FI, 15 Commercial Str, Harrogate, N Yorks. Tel (01423) 504274. One of the best ranges of quality hi-fi in the North of England, including: Lumley valve amplification, Audio Research, Musical Fidelity, Martin Logan, Sonus Faber, Castle, Orelle, Michell, Ruark, Stax, Copland, Tannoy, NAD, Onkyo, Rotel, Meridian, Lexicon, Project, Silversounds, Cogan Hall, DNM. Home cinema dems. Home dems (appts not always reqd.). Service dept. All major credit cards accepted Credit facilities available. Open 10-6pm. Why Because music matters BADA

SOUND ORGANISATION YORK, 2b Gillygate, York Y03 7EQ. Tel (01904) 627108. Carefully chosen Hi-Fi & AV equipment includes Arcam, B&W, Denon, Linn, M&K Subwoofers, Naim, Rega, Rotel, Royd etc. 3 Dem rooms incl Home Cinema & Multiroom facilities. Service department. Home installations. Instant Credit and Major credit cards. Closed Mondays. Phone for a chat & more details

INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS ASSOCIATION

## YORKSHIRE (EAST) AUDIO, 35 George St,

Hull ZEN Tel (01482) 587397. Comfortable listening rooms; Home dems; Personal, friendly service; Free installations. Agencies include: Acoustic Energy. Arcam, Aura, Audiolab, Atacama, Audio Note, Audion, B&W, Cable Talk, The Chord Company, D.P.A, Densen, Denon, E.A.R., Exposure, Harbeth, Heybrook, Impulse, KEF, Michell, Micromega, Monitor Audio, Mordaunt-Short, NAD, NAIM, Pioneer, Pro-Ac, REL, Rehdeko, Rotel, Royd, Ruark, Shearne Audio, Stands Unique, Sugden, Spendor, Sonic Link, TEAC, Tube Technology, Unison Research... and many others.

#### YORKSHIRE (SOUTH)

HI-FI STUDIOS, Sunnyfields, Doncaster, DN5 85A. Tel (01302) 781387. TDL, Audio Alchemy, Sugden, Audiolab, Electrocompaniet, Proac, Ruark, Castle, Teac, Unison valves, Impulse Horns, Apogee, Stemfoort, Pink Triangle, Heybrook, Monitor Audio, Harbeth, Keswick Audio Research, Michell Turntables, CR Developments (valves), Art Audio (valves), R.E.L. Subwoofers, Pro-ject, Plus Yamaha and Klinsch Home Cinema Pro-Logic Demonstrations, Systemdek, Alphason, Target Sonic Link, Chord, Holfi, O.L.N., Audio Quest. Listening room, dems, home trial, free delivery and install, 2 year guarantee. Access, Visa. 10-8pm Tues-Fri, 10-6 Sat. Closed Monday. Phone for further info. & FREE fact pack. BADA

#### **YORKSHIRE (WEST)**

AUDIO REFLECTIONS, Specialist ATC distributers from one of the longest established UK ATC dealers. You are cordially invited to audition perhaps the finest loudspeaker range available in the world today from the largest selection of ATC monitros and electronics assembled in the UK Also AVI, Bryston, Chord Electronics, Castle, Harbeth, Marantz, Spendor, Sumo, Teac, Van den Hul etc. For further details contact John Bleakley Phone/fax Leeds (0113) 2528850 (evening calls welcome). Generous part exchange and second hand equipment available.

CLEARTONE (FORMERLY ERRICKS), Rawson Square, Bradford City Centre, BD1 3JR. Tel (01274) 309266 Bradford's leading Hi-Fi specialists. Every top brand & all the best buys at guaranteed unbeatable prices. Aiwa, Akai, Arcam, Audiolab, B&W, Bose, Castle, Celestion, Denon, Hitachi, Infinity, JBL, JVC, KEF, Kenwood, Marantz, Micromega, Mission, Mordaunt Short, NAD, Panasonic, Pioneer, Rotel, Sony, Tannoy, TDL, Technics, Toshiba, Yamaha. 2 Dedicated Demo rooms, no appointments required. Service depart-ment, free installation, home trial facilities. Access, Visa, Amex, Diners. Interest free credit. Open Mon - Sat 9.30-5.30.

EMPIRE ELECTRICAL M TORE, Ingleby Road, (Girlington), Bradford, BD8 9AN. Tel (01274) 575000. The North's biggest electrical megastore. 575000. Ine North's biggest electrical megastore. Every top brand & best buy at guaranteed unbeat-able prices. Aiwa, Akai, B&W, Bose, Celestion, Denon, Grundig, Hitachi, Jamo, JVC, KEF, Kenwood, Marantz, Mission, Mitsubishi, Mordaunt Short, NAD, Panasonic, Pioneer, Rotel, Sony, Tannoy, TDL, Technics, Toshiba, Yamaha. 3 Dedicated Hi-Fi & AV Demo rooms, no appointments required. Service department, free installation. Free parking, Access, Visa, Amex, Diners. Interest free credit. Open Mon - Fri 9.30-8.00, Sat 9.30-6.00, Sun 11.00-5.00.

EMPIRE ELECTRICAL SUPERSTORE, The Clock Buildings (formerly the Clock Cinema), Roundhay Road, Leeds (on the junction of the A 58 & Roundhay Road), LS8 2SH. Tel (0113) 2351701. Leed's largest range of Hi-Fi separates & systems including all the best buys at guaranteed unbeat-able prices. Aiwa, Akai, B&W, Bang & Olufsen, Bose, Castle, Celestion, Denon, Hitachi, JVC, KEF, Kenwood, Marantz, Mission, Mitsubishi, Mordaunt Short, NAD, Panasonic, Pioneer, Rotel, Sony, Tannoy, TDL, Technics, Toshiba, Yamaha. 2 Dedicated Hi-Fi Demo rooms and 2 AV Demo rooms, no appointments necessary. Service department, free installation, home trial facilities. Free parking. Access, Visa, Amex, Diners. Interest free credit. Open Mon - Wed 10.00-6.00, Thurs -



# perfect balance

#### The New Meridian 508.20

Taking CD replay to the re-clocking used throughout. reaches a performance level



edge with a new 20 bit converter and precision With the lowest jitter and pure Class A analogue balanced output the 508 previously unheard.



#### The New Meridian 566

A DAC with the performance where it counts. Meridian's twin Phase-Lock Loop yields the lowest jitter whilst our 20 bit DAC offers a new benchmark in clarity and deep fulfilling bass.

#### The New Meridian 502

A Dual mono preamplifier design. Separating the channels onto individual boards gives Meridian a level of preamplifier performance to match our new 20 bit CD sources. With the highest quality components and Meridian's years of experience in preamplifier design we are now able to offer you a preamplifier that sonically disappears.



#### The New Meridian 557

Balanced has never been so right. With balanced inputs and a dual mono design this 200W amplifier is the perfect finish to our balanced range. A unique ground balancing system gives you the highest performance in bridged mode without compromising the superb stereo at which Meridian amplifiers excel. Bridged output into 4 Ohms gives a massive 1000W.

Meridian System Remote Control with audiophile quality balanced design from laser to loudspeaker.

What more could you ask?



#### **Meridian Audio Limited**

Stonehill, Stukeley Meadows, Huntingdon, Cambridgeshire PE18 6ED Tel (0)1480 434334 Fax (0)1480 432948

Fri 10.00-8.00, Sat 9.30-5.30, Sun 11.00-5.00. EMPIRE (EC) LTD, 94 Kirkgate, Wakefield City Centre, (opp. Canon Cinema) West Yorkshire WF1 1TB. Tel (01924) 361736. Wakefield's leading Hi-Fi store. Every top brand & best buy at guaranteed unbeatable prices. Aiwa, Akai, B&W, Bang & Olufsen, Bose, Celestion, Denon, Hitachi, JVC, KEF, Kenwood, Marantz, Mission, Mitsubishi, Mordaunt Short, NAD, Panasonic, Pioneer, Rotel, Sony, Tannoy, TDL, Technics, Toshiba, Yamaha. Full demonstration facilities, service department, fee installation. Access, Visa, Amex, Diners. Interest Free credit. Open Mon - Sat 9.30-5.30. HUDDERSFIELD HI-FI CENTRE, 4 Cross Church

St, Huddersfield. Tel (01484) 544668, Fax (01484) 423140. Also at 3-5 Kings Cross Street, Halifax, West Yorks. Tel (01422) 366832, Fax (01422) 349954). B&W, Cyrus, Kenwood, Denon, Rotel, Arcam, Musical Fidelity, Quad, Audio Lab, Marantz, Mission, etc. Dem facilities – appointment reqd. Mon-Sat 9-5.30, Thurs 9-8. Closed Wed. Free installation, credit facilities. Access, Visa.

IMAGE HI-FI, 17 The Springs, Wakefield, WF1 1QE. Tel (01924) 200272. Fax (01924) 200404. The finest in Home Cinema, Multiroom installation and classic stereo systems from Arcam, B&W, Cyrus, Denon, Linn, Mission, Quad, Rega, Yamaha DSP. Open Monday to Saturday 9.30am to 5.30pm BADA 5.30pm HI-FI, 8 St Annes Road, Headingley,

Leeds, LS6 3NX. Tel (0113) 2789374, Fax (0113) 2754252. The finest in Home Cinema. Multiroom installation and classic stereo systems from Arcam, B&W, Cyrus, Denon, Linn, Mission, Quad, Rega, Yamaha DSP. Open Monday to Saturday 9.30am to 6.00pm.

#### NORTHERN IRELAND

#### BELFAST

LYRIC HI-FI, 161/3 Stranmillis Road, Belfast. Tel (01232) 381296. Demonstration and Installation of the finest Hi-Fi, Home Cinema and Multi-room 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

THE HI-FI SHOP, Bruce House, Bruce Street, Belfast, BT2 7JD, Tel (01232) 327 604. Product lines include Arcam, Audiolab, B&O, B&W, Castle, Chario, Keswick Audio, Micromega and Rotel. Dem room and Earl Gray available. Service Dept, free installation, home trial facilities. Access and Visa, instant and interest free credit. Open Tues-Sat 10am-6pm.

#### SCOTLAND

#### **EDINBURGH**

MUSIC MILL, 72 Newhaven Rd., Edinburgh EH6 50G. Tel (0131) 555 3963 or Fax (0131) 555 3964. Audio Research, Copland, Naim Audio, Krell, Roksan, Marantz, DPA, AVI, Martin Logan, Pro-Ac, Wilson Audio, Theta Digital, Alchemist. Listening Rooms, Free Parking, Full Workshop, Delivery, Installation. Open Mon-Sat 10-6 Tel for map or contact Al, Mark, Fraser or Mike.

#### GLASGOW

**GLASGOW ANALOGUE STUDIO**, 3 Boghead Road, Lenzie, Glasgow G66 4EG Tel (0141) 776 3642. Illusion of music systems for the vinyl enthusiast featuring turntables, arms and car tridges from Nottingham Analogue, amplifiers from Croft and loudspeakers from Dantax. Experience the beauty of music in our relaxed and friendly listening room. Demonstration by appoint-ment only. Free installation anywhere in Scotland. GLASGOW AUDIO, 135 Great Western Road Glasgow G4, Tel (0141) 332 4707. Main product lines include Arcam, Castle, Cyrus, Harman-Kardon, Marantz, Meridian, Mission, Onkyo, Polk, REL, Rotel, Royd, Ruark etc. 3 Dem rooms, AV and Hi-fi, service facilities installation sevice, and



home trial facilities available. Access and Visa accepted. Instant and interest-free credit. Open Sat 10am-5.30pm Sun 1-4pm.

LOUD & CLEAR, 520 St Vincent St, Finnieston, Glasgow, G3 8XZ Tel (0141) 221 0221 - not just another hi-fi shop, combining friendly advice with specially selected products and the keenest prices. Three comfortable demonstration rooms. full service and installation facilities, interest free credit available on selected products. Naim, Exposure, Alchemist, Marantz, Denon, Rotel, Teac, Systemdek, Aiwa, Kef, Tannoy, TDL, Mordaunt Short, Royd, Epos. Mon-Sat 10am - 6pm. Thurs 10am - 7pm. Complimentary parking at PC World, innieston St

STEREO STEREO, 260 St Vincent Street, Glasgow G2 5RL. Tel (0141) 248 4079. Emailstereo@cix. compulink.co.uk We will help you choose a system to suit your needs precisely. Whether it's a complete distributed audio and video system or just a repair to your old speakers. WE'RE NOT JUST STEREO STEREO. Open 10-6.00pm closed Sunday, Tuesday. Interest free credit available.

#### STIRLING

STIRLING AUDIO, 19 Barnton Street, Stirling, FK8 1HF. Tel (01786) 479958. For central Scotland's best selection of quality Hi Fi at all prices demon strated and installed to suit your needs. B&W, Aura, Crimson, Ruark, Audiolab, Arcam, Marantz, Thule, Rotel, Impulse, Polk, Audio Innovations, Royd, Infinity, DNM Reson, NHT, REL, Revolver, Micromega, Beyer, Sennheiser, Harman Kardon, OLN, Target + Stands Unique and many more. Plus custom cable service + QED multiroom installation. Contact Barry or John for more information. Interest free credit available

#### WALES

#### CLWYD

ACOUSTICA, 17 Hoole Road, Chester, Cheshire CH2 3NH. Tel (01244) 344227. See main entry under Cheshire

ACTON GATE AUDIO, 4 Ruabon Rd, Wrexham ACTON GATE AUDIO, 4 Ruabon Rd, Wrexnam Tel (01978) 364500. Audio Visual specialists. Aiwa, Arcam, AMC, Bose, B&W, Beard, Canon, Celestion, Castle, Cyrus, Jamo, Marantz, Michell, Mordaunt-Short, Musical Fidelity, NAD, Nakamichi, Micromega, Quad, Radford, Rotel, Rogers, Rega, Ruark, Spendor, Tannoy, Wharfedale, UKD, Yamaha DSP member. Demonstration room, installation service. Easy parking and motorway access. Access, Visa etc.

#### SOUTH GLAMORGAN

AUDIO EXCELLENCE, 134 Crwys Road, Cardiff. Tel (01222) 228565. All that's best in Hi-Fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in-house workshops, full credit facilities with interest free on selected items. Tues-Sat 9.00-5.30. Closed Mon.

AUDIO EXCELLENCE, 9 High St, Swansea. Tel (01792) 474608.All that's best in Hi-Fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part Delivery and installation, none could, per exchange, in-house workshops, full credit facilities with interest free on selected items. Tues-Sat 9.00-5.30. Closed Mon

## To Advertise On These Pages Please **Telephone Clare** on 0171 917 3935

INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS



# For the fastest car news, open it up every week.

Open up the new look Auto Express magazine and you'll find far more than ever before. As always, being weekly gives us the edge when it comes to the biggest scoops and the latest pictures. The new format is equally up front in its opinions. It reviews the cars you want in a no-nonsense forthright style and conclusions are given in a new graphic grading system. Cutting edge features, consumer help pages with bite, top issues and a sportsweek section are all given a fresh clean style. Yet, unlike the rest of the automotive industry, all these extras won't cost you more. In fact, we're reducing our cover price to only £1.30. Auto Express readers certainly know how to drive a bargain.



The magazine where car news travels fast

# **BACK ISSUES**

Missed *Hi-Fi Choice* the first time round? Don't worry! Selected back issues are available for just £4.00 (UK) or £6.95 (rest of world), including p&p. Stocks are limited, so place your order today!



JAN 1997/ISSUE 162 14 Amplifiers, £200 to £700 5 Multi-CD players, £250 to £320 4 CD transport/DAC combos Meridian 502/557 pre/pwr amps



MARCH 1997/ISSUE 164 15 Loudspeakers, £300 to £800 6 Cassette Decks, £230 to £350 3 Turntables, £274 to £329 conrad-iohnson DR-10/A-2b



MAY 1997/ISSUE 166 10 CD Players up to £1,000 6 Tuners, £130 to £250 5 Equipment supports B&W Nautilus loudspeakers



FEB 1997/ISSUE 163 Free MiniDisc magazine 20 CD players, £140 to £3,300 5 Headphones, £140 to £1000 5 Designer speaker packages



APRIL 1997/ISSUE 165 14 Pre/Power amps up to £1,450 3 Jitter-busters, £245 to £895 5 Speakers, £274 to £329

■ 5 Speakers, £274 to £329
 ■ Acoustic Precision Eikos CD



JUNE 1997/ISSUE 167 14 Loudspeakers, £800-£2,000 5 Amps under £250 Room Acoustics: Special Report! Thomson DTH-1000 DVD player

Note: the following editions have sold out: April, May, July, August, October, November 1995; June, July and August 1996. Call our botline number for the latest availability info.

# **HOW TO ORDER** It couldn't be simpler! Just call our credit-card hotline on (01789) 490215.

We accept AmEx, MasterCard and Visa credit-cards, plus Switch or Delta debit cards. An answering service is available outside office hours.

# **NEXT MONTH'S ISSUE**

#### A SIZZLING SELECTION OF SUMPTUOUS STUFF IN SEPTEMBER'S HI-FI CHOICE



#### **BUDGET SPEAKERS FIGHT TO THE DEATH**

Next month we ask: is it worth spending £130 to £140 on the JPW ML510, Mission 731 Pro, Tannoy Mercury M2 or Wharfedale Diamond 7.2, or is the £80 Tangent Monitor 5 the budget box to watch? Trichord Genesis In September's CD test

#### **CD HEAVEN**

W-b Actor

A quality

performance?

14 CD players get the Choice treatment from Alvin Gold and Paul Miller, at price-points from  $\pounds 400 \cdot \pounds 1,400$ . Check out the latest models from Meridian, Micromega, Roksan, Sony and Teac!



Paul Messenger enjoys an audience with the Wilson-benesch Actor speakers, little brother of the A.C.T. 1 reviewed in *HFC* 162. They're a technological tour de force in carbon-fibre!

0000 0000

#### **DOUBLE FUN**

If you still enjoy your cassette collection, don't miss our test of five twin-deck tape recorders. Just a gimmick — or dubbing workhorses in their own right? We'll test the latest models from Sony, JVC, Kenwood and Pioneer.

HAVE HI-FI CHOICE DELIVERED TO YOUR DOOR EVERY MONTH! SUBSCRIPTION RATES START AT JUST £14.97 - SEE PAGE 30 FOR DETAILS!

THE SEPTEMBER 1997 EDITION OF HI-FI CHOICE WILL BE ON SALE THURSDAY JULY 17, 1997. DON'T MISS IT!



**David Vivian** visits the Townshend manor to experience the Seismic Sink Stand, and takes part in an extraordinary sonic comparison.

Vivian Scene

finally went round to Max Townshend's place to catch up with the Seismic Sink Stand I first wrote about in May (HFC 166). Max lives in a spacious flat near the Thames with a stunning view of Hampton Court Palace and a distracting choice of wine bars, pubs and curry houses. Essential for an Australian.

Count me distracted as I walked down Bridge Road. I nearly didn't make it to Max's door. But enter the inner sanctum of Townshend Towers and you soon forget about what's going on outside. I'm reminded of that scene from the movie Blade Runner where replicant Roy Batty (played by Rutger Hauer) first enters genetic engineer JF Sebastian's cavernous abode and clocks his walking, talking, pint-sized creations. "Nice toys," says the man from Guinness, feeling an eerie empathy with his surroundings.

No hi-fi enthusiast could fail to feel similarly at home at Max's place; there's just too much groovy stuff lying around. The great thing about Townshend-brand hi-fi, past and present, is its mythic status. I was going to say "resonance" but that wouldn't be appropriate since the elimination of harmful air and ground-borne vibration is the cornerstone of the Townshend philosophy.

There, planted in the corners of the room like the pillars of Olympus, are the legendary Sir Galahad speakers with their six-high vertical arrays of widerange aluminium drivers and nine Isodynamic supertweeters, as tall as Pinsent and Redgrave and twice as heavy. Some swear these  $\pounds 20k$ steel and plaster leviathans (a design inspired 30 years ago when Max read an article about the White City stadium's line-source PA system) aren't just the best speakers on the planet, but the only ones worth listening to because they alone sound truly believeable. It's because of the way they image, handle dynamics and go really, really low - more or less flat to 15Hz and then some in the right room.

And fed with a signal from the right front-end. Max's family name first hit the headlines back in the early '80s with the Rock turntable. As in "solid as a ... " Not only was it hernia-inducingly heavy but introduced the world to "the trough", a curved oil bath that rested just above the record and damped a little paddle attached to the

end of the headshell. The result was a stability of sound some thought only achieveable with CD, and bass to die for. The later Rock Reference honed these qualities to stunning levels and allowed the SG's to fulfil their enormous potential. Just ask any regular at erstwhile HFC editor John Bamford's Townshend-equipped "music evenings".

Thing was, the mighty boxes could be driven heartily by any half-decent budget amplifier and made to positively boogie by something like a Pioneer A-400. Cheapo CD players sounded better through the SGs than other speakers, too. Because of their remarkable bandwidth, the Townshend designs let the CD medium's inherent strengths shine through without accentuating the nasties.

#### The best just got better

Nothing cheap or nasty is hooked up to the big muthas tonight, though. This demo is all about the difference a support can make to good-sounding gear - to wit, a Rock, a Marantz CD-63 mk II KI Signature CD player and a Swiss-made Credo integrated amp. They're all sitting on the smallest of the three Seismic Sink Stands Max intends to market — prices from £700 to just over £1,000. The baby of the range (code name Zero) is



intended for light-to-medium weight gear, the beefier models for heavier duty hardware.

I'm not going to give you a full technical run-down of how these things work - it would take more space than I have here to do them justice and, even then, I'm not sure I fully understand the science. Besides, there's no substitute for sampling Max's passion when he gets rolling on the subject.

Here are the things you need to know according to the Townshend theory. All the models are constructed similarly with a fixed tripod base unit on which the structures supporting the shelves float, supported on air cells derived from the sophisticated 3D Seismic Sink isolation platform. You can pump them up and let them down, depending on the weight of your kit. Ideally inflated, the shelves have free movement fore and aft, up and down and from side to side at low resonant frequencies. But they don't yaw - that would be disastrous for vinyl replay.

Barely perceived environmental vibrations are the enemy here, causing undesirable relative movements in both mechanical and electrical systems. The SSS effectively acts as a low-pass filter, it's as simple as that.

Does it work? Hearing it at Bristol was impressive but inconclusive. Here, Max led

> me in more gently. The Rock, supported by an inflated SSS, had been playing jazz quietly all evening. By now, I was used to the effortless, unforced nature of the sound. We lent on the volume knob, played some Bob James, Robben Ford and Stevie Wonder CDs. Awesome. But I expected nothing else. As usual, the SG's bass extension was almost flabbergasting but my attention wasn't drawn to it as much as it had been at previous sessions. Perhaps even more remarkable was the realistic scale and natural dynamics, the sheer body, colour and coherence of the music.

> > But then Max crouched on one knee, let the air out and cued up the Bob James track again. All it took was a couple of seconds, two notes of James's suddenly leaden Yamaha piano. The sound had collapsed, and retreated into the speakers, murky and muddled. That's all I needed to know or hear. Max calls it the one-note demo. It will save an awful lot of messing about. Townshend 🕿 (0181) 979 2155

# FOR CHEAPER HOME INSURANCE AND A BETTER\* POLICY TO COVER YOUR HOME ENTERTAINMENT EQUIPMENT.....

# CALL NOW 01992 470698 (Lines open until 8.00pm)

\*MOST GENERAL POLICIES DON'T FULLY COVER HOME ENTERTAINMENT EQUIPMENT UNLESS THE POLICY HAS BEEN SPECIALLY ARRANGED. Hoddesdon Insurance Consultants will cover you for the **true value of your equipment**, accidental damage, new for old, for equipment of any age, and we normally beat any other price you can obtain elsewhere.

Hoddesdon Insurance Consultants 46 Ware Road, Hoddesdon, Herts EN11 9DU B&W's patented method of using Kevlar's unique woven fibres for loudspeaker cones has been a major factor in reducing unwanted standing waves.



DM #601



"The 601s sound like the voice coils of God."



P 4 WHAT HI-FI?

"Fast, weighty, superbly balanced sound: gorgeous range of real wood finishes. These floorstanders are among the best in their price band."

For more information please contact B&W Loudspeakers (UK) Ltd on: +44 (0) 1903 750 750 http://www.bwspeakers.com



-----