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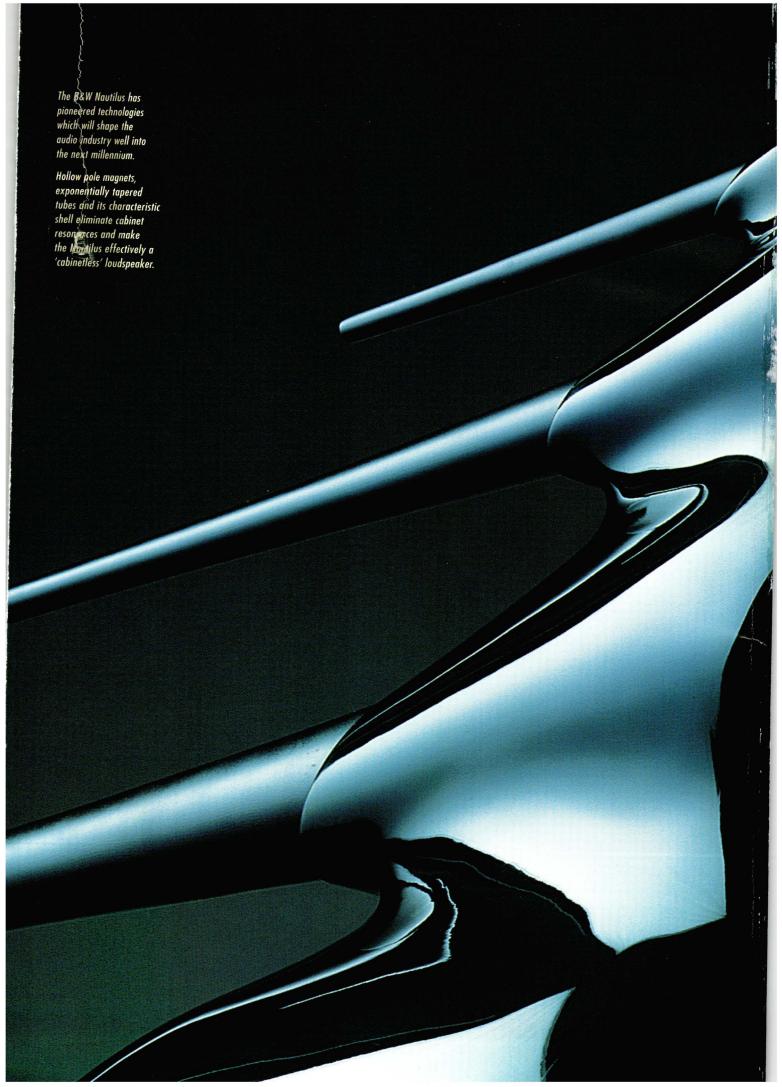


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World players



Matrix **801 Gramophone

"Unequivocally a legend in its own lifetime." Gramophone — Jan '96



CDM ™1



"For a domestic loudspeaker that knows how to groove, our European Award is an honestlybestowed plaudit." EUROPE EISA — Aug '95



DM ™6<u>01</u>



"The 601s sound like the voice coils of God." What Hi-Fi? — Nov '95



P ™ 4



"As a speaker that is all things to all people, the P™4 deserves a good long look. It sounds good and goes up to 11 on the volume control. Little wonder it won the British Hi-Fi award."

Hi-Fi Choice — Aug '96



Nautilus

"The B&W Nautilus is the most ideal speaker I have ever heard. It can be only limited or coloured by the sources, amplifiers and cables, without any coloration of its own.

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Hi-Fi Review, Japan — 94/5

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At B&W, music is our very reason for being. In our search for the perfect music reproduction, we have pioneered loudspeaker technologies such as the separate tweeter housing, the Nautilus transmission pipes, the Matrix™ cabinet and the Kevlar® cone. These innovations symbolise all the dedication and love of music which have inspired B&W engineers ever since the company was established 30 years ago.

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B&W's Matrix construction uses sophisticated internal bracing to reduce both the amplitude and decay time of cabinet resonance, resulting in clear, coherent musical reproduction.



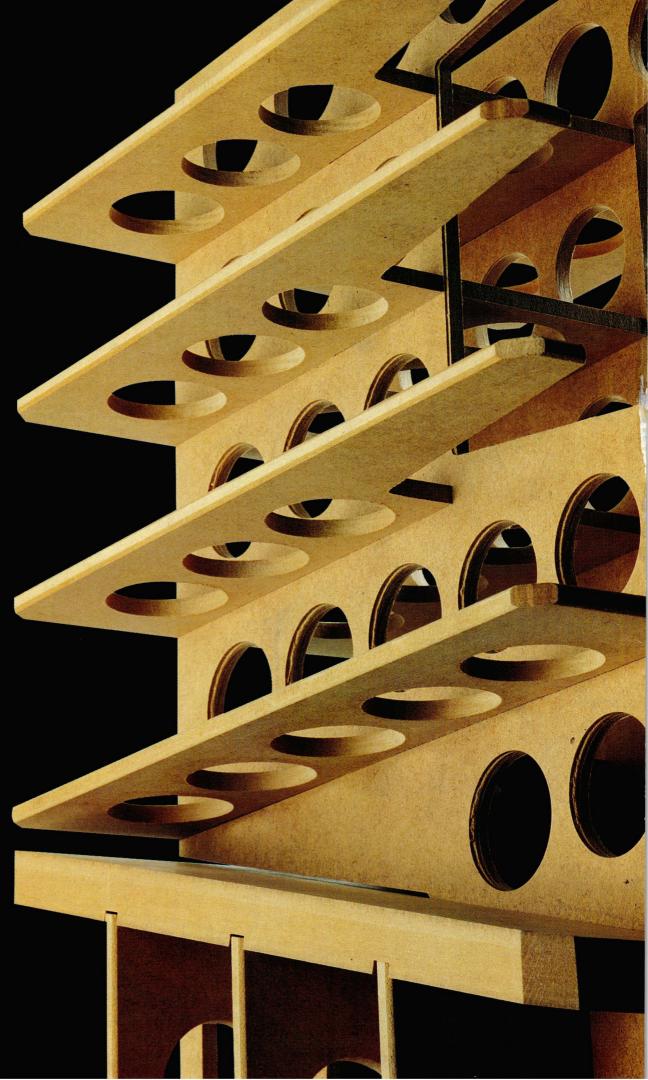
Matrix ™801

The B&W Matrix ™801 studio loudspeaker has been judged 'Speaker of the Year' by Audio/Video International for an unprecedented seven years in a row and is now used in more than 80 per cent of all recordings of classical music.

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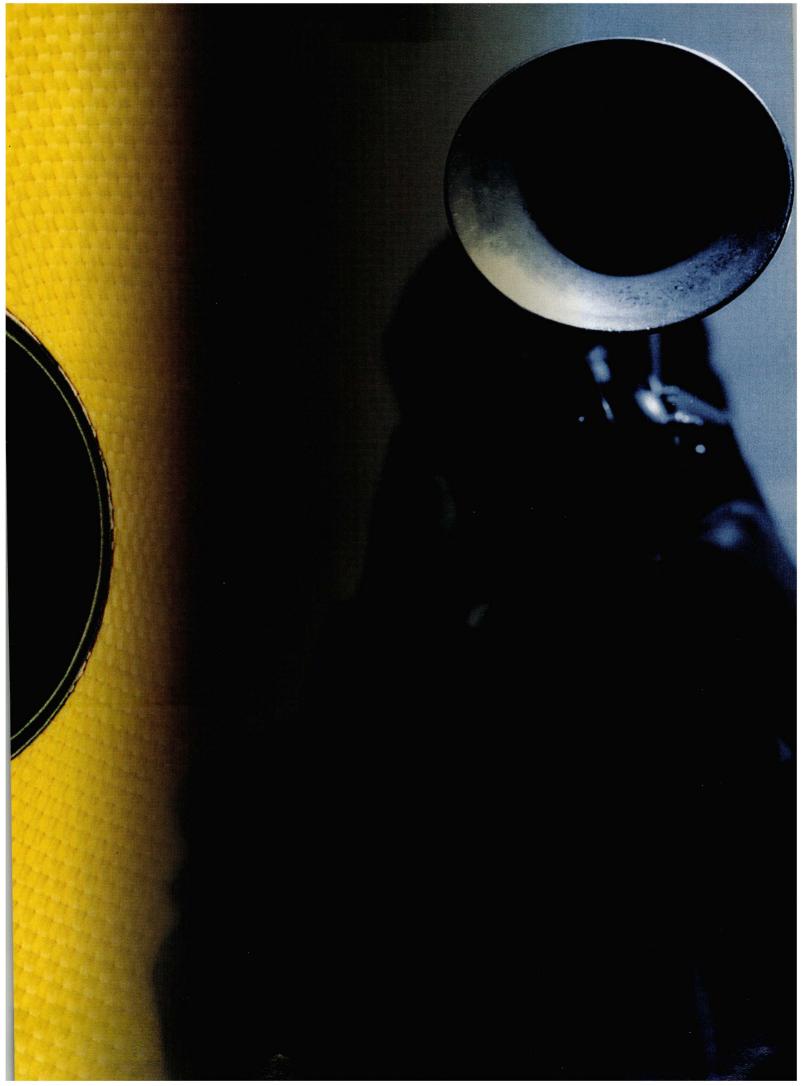


DM™601

"Soaring through the speaker market like a breath of fresh air, the DM™ 601's demand to be heard. Big and powerful sound with plenty of subtlety. Miss them at your peril." What Hi-Fi? 5 Stars — Jun'96

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WHAT HI*FI, Jan 97

"All three sources sound big and confident, with an accuracy and delicacy more akin to separates than minis"

WHAT HI*FI, May 97

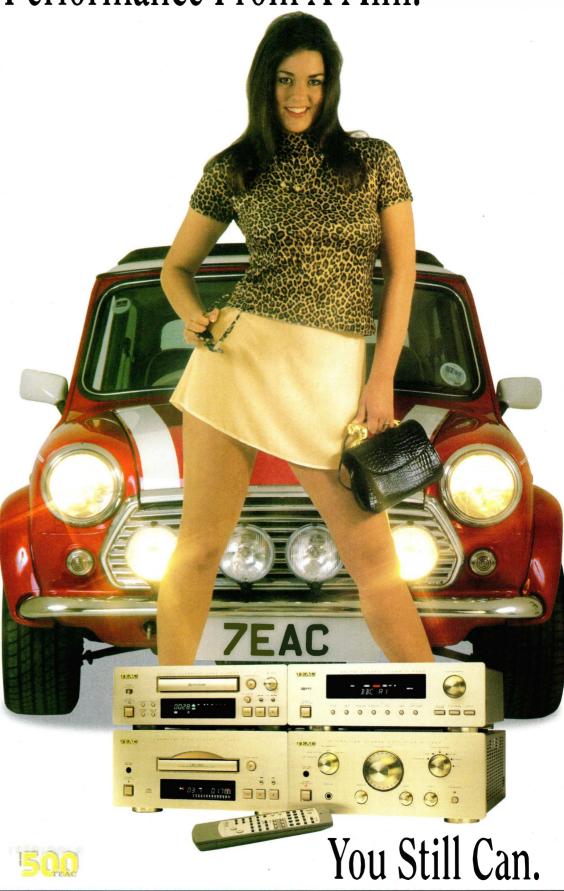
"In terms of its good looks, the system's asking price could just about be doubled"

Gramophone, Jan 97

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HI FI CHOICE

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Dennis

Editor's Notebook



Stan Vincent offers a little hi-fi homoeopathy, and thanks you sincerely for choosing Hi-Fi Choice...

ense, nervous, headache; memory loss — not necessarily the first signs of madness, but quite possibly the symptoms of a new modern disease. Its name? Feature Fatigue. Every new range of products has new features. Just as you get used to one set of switches and displays, along comes another. That's because features are the playthings of marketing men, who dangle them like carrots to encourage us to upgrade and buy afresh. Any mass-manufactured product, be it audio, computer software or cars, always brims with features. But which do you really need?

There's an old saying that less is more, and how true it is. So here's my prescription for preventing 21st Century equipment schizophrenia blues. Always look past the features to the essential task that any man-made contraption performs. Will it perform that task without causing you to pull out hair in the process? In the longrun, this is why minimalist, specialist hi-fi is a marvellous cure for Feature Fatigue. If you spend your day grappling with recalcitrant photocopiers, voicemail systems and computers, come home to the primal pleasure of music played with no complications.

Must be doing something right!

Hi-Fi Choice has achieved a slight but significant increase in its circulation. For the six months January to June 1997, our average monthly sales were 22,474, compared with a figure of 22,191 for the same period in 1996. The same set of figures for our competitor, What Hi-Fi?, indicate a decline in sales from 70,170 in 1996 to 69,285. Traditionally the January to June period is the leanest part of the year for magazine sales. Thank you for your support!

What the papers say

Hot on the heels of our circulation success came an additional boost from an unexpected source: *The Guardian* newspaper. In an early-August edition of its weekend 'Jobs & Money' tabloid, an article about hi-fi buying yielded the following... "It is easy to feel overwhelmed by the huge range of separates on sale... you should feel much more confident after a thorough reading of the monthly magazines dedicated to audio

equipment buying, such as What Hi-Fi? (with a useful five-page buyers' guide and glossary) and Hi-Fi Choice (more technical and more honest about the products it reviews, hi-fi dealers say)." If a national paper says it's true, it must be true...

BUY AWARD-WINNING HI-FI, SAVE MONEY, HELP CHARITY!

Here's your chance to own two of this year's EISA-Award-winning products — for less than you'd pay in the shops! On offer there's a pair of Jamo's Concert 8 speakers, and one of Sony's CDP-XA50ES CD players.

Regular readers will have seen them in our Awards write-up (*HFC* 170). They were donated by their manufacturers, to be auctioned in aid of the children's charity UNICEF. (See Berlin Show Report, p18). Both products are yours for the taking at a substantial discount. All proceeds to charity!

Look what you could save!

Jamo's Concert 8 speakers were reviewed by Alan Sircom in *HFC* 160. In the shops they'd cost £1,300, but I will accept the



best offer over £800. • UP TO £500 SAVING.

Sony's superb CDP-XA50ES CD player is finished in champagne gold. Only limited numbers will be available in the UK. In the shops it would cost £1,000, but I'll take the best offer above £600. • UP TO £400 SAVING. All boxed, brand-new and with full manufacturer warranty. Free delivery in Greater London area. Each product will be secured by the best offer received by Friday October 10 1997, by letter or fax to the usual address. Please include name, address and daytime phone number.



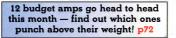






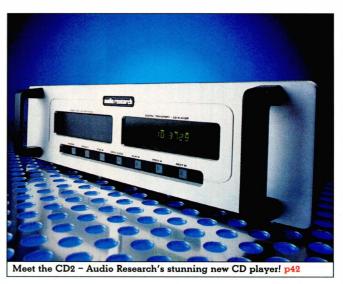




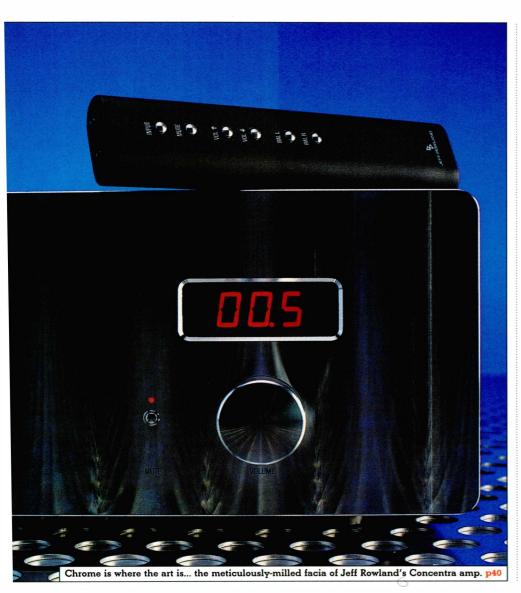








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WIN!WIN!WIN!

Superb JPW speakers worth £1,500!

WIN!WIN!

Award-winning Sony CD player worth £1,000!

WIN!

Excellent cordless
Vivanco headphones
worth £950!

PRODUCTS FEATURED IN THIS ISSUE

AMC 3025a75
Audio Research CD242
B&W CDM2146
Denon DR-W58063
Denon PMA250SE
Creek 433089
JVC TD-W71864
Kelly KT3
Kenwood KA-5090R 91
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pdate

THIS MONTH... FOUR NEW AUDIOLAB AMPLIFIERS... NEW ACOUSTIC PRECISION EIKOS SPEAKERS... AND MUCH MORE...

In brief

Germanic giant Grundig has introduced a new micro system with styling very different from the company's Space Fidelity systems. Instead of the high-tech design, the micro system has a wood finish to attract those for whom the Space 1999 look is not the acme of good taste. Grundig's new UMS2 system is packed with features for the asking price of £300. These include a 49-nameable preset, FM/LW/MW tuner, with a toploading powered CD player and a single auto-reverse Dolby B tape deck. 22 (0181) 324 9400



QED has improved the quality of the interface in its multi-room Systemline. The company's new £175 Dot Matrix Display panel allows the user to see the input selected, volume level and time of day. 2 (01276) 451166

Swivelly wall-bracket king Pivotelli has introduced new £11.95 Rhodium speaker supports. These glassreinforced nylon brackets are the first in the company's new System 2000 range. They can carry up to 12.5 kg speakers and sport a special cable insert system to hide both cable and screws from view. **2** (01481) 46818

Ireland's See, Hear 97 Audio-Video and In-Car show will be held on the 4th and 5th of October at the Belfast Europa hotel. The

Four times 8000



Multi-channel Coda

KEF Coda owners need wait no longer to get their surround systems up and running. The £149 Coda C centre channel and £299 Coda S subwoofer have been created to mix and match with existing Coda speakers for home cinema and sat/sub applications.

The Coda C is timbre matched to the likes of Coda 7s and 9s, and features a pair of 5.25inch midbass units allied to a one-inch soft-dome tweeter. The active, 100-Watt-powered Coda S utilises a 10inch, long-throw woofer in a reflexloaded, style-oriented cabinet. KEF Audio (UK) 2 (01622) 672261

<u>imited supply</u>

Mission is in celebratory mood for its 20th birthday, and has produced the 750LE bookshelf loudspeaker to mark the occasion. Available in black ash, light oak or rosewood veneers, this £248 design is the smallest Mission so far to feature an aerogel-coned midbass driver. The

tweeter is the usual 25mm silk dome.

The LE part of the model number stands for Limited Edition, and relates to the fact that only 7,000 pairs are being produced. Not too limited then! Unusually for a Mission speaker, the amplifier load is a relatively tough 86dB/six Ohm combination that may not sit happily on the shoulders of similarly-priced amps. That, alongside the resonance-damped panels, might possibly suggest that the 750LE has been made with action among more elevated ancillaries in mind. Mission 2 (01480) 451777

In a fit of activity, Audiolab has announced no less than four additions to its 8000 range of amplifiers. The 8000LX is line-level integrated at £469.90, £30 below the 8000A; while the £549.90 8000SX is a stereo power amp designed to work with the 8000A. The 8000PX is an £849.90 100-Watt stereo power amp: while the 8000MX is the company's range-topping 125-Watt monoblok priced at £1,799.80 a pair.

The 8000LX is described as a straight-line design that is devoid of tone controls. It is built from the preamp section of the 8000A and the power amp from the 8000S, making it something of a hybrid. The 8000LX is also based on the 8000S but incorporates independent power supplies. It is intended for owners of 8000As and LXs who want to bi-amp.

The 8000PX and MX use 'pure direct coupled' circuits based on the 8000P and M respectively, and both have advanced DC-servo systems, claims Audiolab, for maximum compatibility. There are no input coupling capacitors to minimise low frequency phase distortion.

All four amps feature short-proof, heavy-duty BFA speaker sockets. Audiolab 2 (01480) 415600



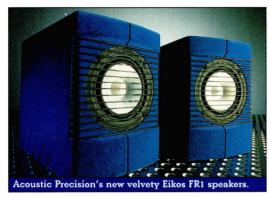
Four on the floor

The gold dome enthusiasts at Monitor Audio have launched a new floorstanding speaker. The £499.99 Monitor 4 stands 840mm high and utilises a pair of six-and-a-half-inch drive units in a two-and-a-half-way configuration with the lower driver covering the bass only. The tweeter is a 19mm golddome aluminium unit.

The real-wood-veneered cabinet incorporates figure-eight horizontal bracing to enhance rigidity, and a mass-loading cavity in its base. Filling the latter with sand and/or lead, and listening to the bass tighten up, seems to be the idea. A separate plinth is available to increase the speaker's 200mm-by-225mm footprint. Monitor Audio 22 (01223) 242898



The Eikos conspiracy



The cable activists at the Chord Company have not been lying in the sun all summer. Instead they've been refining and creating new interconnects to boost the company's Autumn collection.

First off the reel is Cobra 2 at £49.99 for a metre pair. This is no longer a coaxial design but features two conductors in a higher grade of copper and better dielectric. The Chameleon 2 weighs in at £85 and features four conductors diagonally wound in a floating braid earth to minimise noise. Both copper and outer jacket have been improved. Topping up Chord's interconnect range is the £185 Chorus, a twisted pair-balanced design with Teflon dielectric and silver-plated OFC copper conductors. Termination is via silver-plated RCA phono plugs. Chord Co 2 (01722) 331674



Walking on Sunshi

Audusa & Co of Kingston upon Thames has announced that it has been appointed the UK distributor of products by the Sunfire Corporation Inc. Products include amplifiers: the £2,500 2x300 Watt Sunfire Stereo and the 5x200 Watt Cinema Grand, priced at £2,600; then there's The True Sub Woofer, an 11-inch cube with eight-inch drivers



and a 2,700 Watt power amplifier that claims to reach down to 18Hz for £1,600. 2 (0181)241

The phase-linear freaks down at Acoustic Precision have come up with a speaker to go with the Eikos CD player. Enigmatically dubbed Eikos FR1, the new £799 speaker incorporates a single, four-inch Jordan drive unit in a compact, lightweight, sealed enclosure. This crossover-less design weighs a mere 1.56kg and claims a bandwidth of 60Hz to 20kHz, with sensitivity down at 84dB.

The speaker was created by the collective talents of metal-cone specialist Ted Jordan, speaker builder Patrick Hanscombe of Electrofluidics and the phase-linear kid, Tom Evans, formerly of Trichord Research. The range of finishes includes textured and high gloss lacquered options. It will feature in next month's Statements section.

The speaker will shortly be joined by an Eikos Interconnect at £89 for a one-metre terminated pair. Acoustic Precision 2 (01483) 267516



Modest ATCs

ATC is renowned for its high-quality monitor systems, featuring drive units designed and built in-house, but until now its range has been out of reach to the less well-heeled audiophile. This is set to change with the introduction of the A7 domestic monitor, which is available in bookshelf A7 form at £749.95, or in floorstanding A7T guise at

Both models have been designed to work with 'modest' amplification, which means that they offer an easy load to the amp despite quite low sensitivity. They utilise massive three-and-a-half kilogram magnet systems and edgewound voice coils on doped-paper midbass drivers; tweeters are 25mm soft domes with neodymium magnets.

The A7 is a seven-litre volume in a 330mm high cabinet, while the A7T weighs in at 13.5kg and stands 920mm high with a 12-litre volume, ATC 2 (01285) 760561

Hot on the heels of the RTL3SE, TDL has launched SE versions of its RTL1 and RTL2. The £199.95 RTL1SE features gold plating in abundance, particularly on the allen bolt caps and terminal posts. The crossover components have also been tweaked. The same changes have been made to the RTL2SE, which adds spikes to the gold plating roster. The RT2SE is available in cherry, rosewood and black finishes while the RTL1SE comes in cherry only. TDL 2 (01628) 850111

show has been organised by Richer Sounds Ireland and Lyric Hi-Fi, 2 (01232) 381296

Rayleigh Hi-Fi has added another store to its Essex-based chain. The new store will be located within the Dansk World of Furniture superstore at the Lakeside Retail Park, West Thurrock. Opening seven days a week from October, the new store will have three listening rooms including a home cinema room. 2 (01268) 747571



Deltron Components is covering all the bases when it comes to the replacement for now-defunct 4mm speaker plugs. Not content with the BFA-designed plug, the company has developed the new TS connector in association with Linn Products and Mission Centralforce. This ABS-based connector is fully insulated. 2 (0181) 965 4222

Chord Electronics has a new address Correspondence should be addressed to: Chord **Electronics Ltd, The** Pumphouse, Bridge Court, Farleigh Lane, East Farleigh, Kent ME16 9NB. 2 (01622) 721444, fax (01622) 721555, e-mail sales@chord.softnet.co.uk

TDK's season promotions will soon take effect. The promotional triple packs of AR90 and SF90 will contain free £1 'Hot Gossip' refreshable phonecards. Promotional multipacks of HS and EHG VHS tapes, as well as selected 8mm and VHS-C camcorder packs, will contain a voucher worth 75p against the cost of a Radio Times. TDK 🕿 (01737) 773773

Audio Spectrum is a new company with a range of five loudspeakers. They rank from the £500, two-way, standmounted Eros to the £2,000, three-way, four driver transmission line floorstander Hermes. @ (01752) 361852

In brief

Sontec (Electronics) Ltd has moved to Sontec House, Auster Close, Off Concorde Road. Vulcan Road Industrial Estate, Norwich NR6 6BE. The existing telephone and fax numbers are retained. 2 (01603) 483675



Ross's new Micro-Flat cable.

Ross Consumer Products has introduced the new £99.99 Noise Reduction headphones which use anti-noise cancellation algorithms. Also new is the 0.5mm-thick Micro-Flat speaker cable, which comes complete with an adhesive backing and is priced at £39.99 for a 9m pair of cables and £59.99 for a 15.2m pair. 🕿 (01204) 862026

Roberts Radio Ltd has introduced a new 12-band compact world radio that is a definite break from its traditional '50s radio image, Priced at £30, the R862 is small, black and has nine shortwave hands along with AM/FM. It even comes complete with its own soft pouch! 22 (01709) 571722

ALBUMS PLAYED IN THE HI-FI CHOICE OFFICE THIS MONTH

The Mal Waldron Trio

Free At Last

John Fahey City Of Refuge

Earwitness Critic's Choice ('Reproducing Piano' compilation)

Free with The Big Issue

XFM Sample

David Bowie

Young Americans

The Verve A Northern Soul

The Jimi Hendrix Experience

Electric Ladyland

Tranquility Bass

Let The Freak Flag Fly

Ruby Remixes

First time buyer

Classic hi-fi brands Wharfedale and Quad have moved into a new era, A new company, International Audio Group (IAG), has acquired a majority of the shares in these two companies from current owners Verity plc, known also for the Mission and Cyrus brands.

IAG owns SG Acoustics, which in turn owns an OEM loudspeaker manufacturing facility in Bradford and the Airedale brand of speakers sold principally in the Far East. The new company is chaired by hi-fi-industry veteran Stan Curtis. one-time boss of Cambridge Audio.

Verity is committing increasing resources to development of its 'nxt' flat-panel speaker technology (see HFC 160), and Mission, the long-established speaker brand. IAG 2 (01480) 431 737

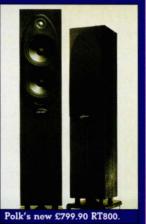
Polk in the ear

American speaker specialist Polk Audio has bolstered its range with a new series of floorstanders under the title RT. Produced for both home cinema and music applications, the RT Series is fully shielded and features 'Dynamic Balance' driver technology. The latter has been created by the combined resources of John Hopkins University and Polk Audio, using laser imaging techniques to minimise cone resonance

The series kicks off with the £399.90 RT400. This

uses a seven-and-ahalf-inch midbass unit and one-inch soft dome tweeter, in a three-foot high enclosure that's finished in

black ash vinyl.
The £599.90 RT600 and £799.90 RT800 up the ante with tri-laminate tweeters and 'Power Ports', which are claimed to produce more powerful bass than conventional designs of the same size. Polk Audio 🕿 (01727) 827311



A mat for your stat

Not satisfied with turntable mats alone, Ringmat Developments has turned its attention to the CD player and come up with the Statmat. £20 will buy you a piece of carefully cut-out and printed film that's said to eliminate phase errors in disc reading.

Alleged to be the biggest advance in CD reproduction since the medium was introduced, the Statmat purports to eliminate the low-level electrostatic voltage charges that the company claims accumulate on a spinning disc. Developed over five years in collaboration with DNM design, Statmat is coated with specially formulated inks that "level out the

Statmat can be used with most CD players, including Pioneer Stable Platter designs, but not in-car or vertical disc types. The device is available via mail order or in specialist hi-fi shops. Ringmat Developments 22 (01277) 200210



CD innovation: the new Statmat from Ringmat.



Micro with attitude

Denon's latest super micro claims to incorporate features and specs normally associated with separate hi-fi, and the convenience of an integrated system. In basic form, the D-M7 includes an RDS receiver and three-disc CD changer. and costs £499.99 including SC-M7 speakers, but can be purchased sans speakers for £70 less. Other options include the DRR-M7 autoreverse cassette deck at £149.99 and the DMD-M7 MD recorder for £449.99.

Denon's home cinema division has announced the Gold Series AVC-A1 AC3 digital and THX surround sound amplifier at £2,499.99. This 700 Watts, five-channel behemoth incorporates inputs for external DTS decoders and true monoblok power amp configuration. Audiophile-grade 20bit A/D and 18-bit D/A converters are used for the DSP functions with individual time-delay settings for every channel. Havden Labs 2 (01753) 888447



Denon claims the new D-M7 has separates sound quality.

perfect Utopia

Sound Image UK Ltd has increased its portfolio of products with new items from JM Labs/Focal, Electrocompaniet and Boulder. JM Labs' range runs from simple £400 models right up to the mighty £33,000 Grand Utopia, while the Focal drive-units also made by the company are used in many of the finest hi-fi speaker designs. The latest model from the JM Labs/Focal company is the Grand Utopia's little brother, the £16,000 Utopia. This new speaker has a four-driver complement in two separate enclosures. It sports the distinctive 32mm inverted dome tweeter, a pair of 165mm W-cone midrange units and a 330mm W-cone.

Electrocompaniet has announced a new preampilfier and power amplifier. The new £1,750 EC4.6 model is the acme of the EC3 and EC4 range. It features remotecontrolled volume and balance functions, a slimline design and symmetrical, differential balanced circuitry. This partners the £2,595 AW120DMB power amplifier, using two 650VA toroidal transformers, with both conventional and Neutrik Speakon terminals.

The new £43,500 2050 Boulder monoblok can deliver 1kW, while the £23,000 2060 stereo 'only' delivers 600W. Both feature two-stage designs, with separate sections for current and voltage. The balanced outputs are stable into any load, including subone-Ohm loudspeaker loads. Sound Image UK 22 (0181) 255 6868

1002 Gamma **Geometry**®

"This cable is a stunning performer. It sounds amazingly clear and focused, and boasts superb bandwidth. Overall, the character of the IXOS is neutral but very musical. This is a sound buy."



6003 Gamma **Geometry**®

"...boy does it work, bringing resolute dynamics and awesome bandwidth within reach of virtually anyone buying a separates system. And while this may make it sound like a champion of the budget bargain it does seriously well against cables costing three and even four times its price."

WHAT HI*FI?

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Gloucester 01452 503 691
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Southampton Hi Fi, Southampton 01703 228 434

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Bill Hutchinson, Manchester 0161 852 Leicestershire Sevenoaks, Leicester 0116 255 7518 Cowlings, Leicester 0116 255 3232 London H: Fi Care, W1 0171 637 8911 Kamla, W1 0171 323 2747 Musical Images, Covent Garden 0171 497 1346 Nicholls Hi Fi, SE12 0181 852 5780 Hi-Spek, Finchley 0181 349 1166

Middlesex Musical Images, Edgware 0181 952 5535 Musical Images, Hounslow 0181 569 5802 Dades, West Drayton 01895 420 898

Norfolk Sevenoaks, Norwich 01603 767 605

Nottinghamshire Forum Hi Fi, Nottingham 01159 622 150 Oxfordshire Audio T, Oxford 01865 765 961

Adult 1, Oxion violes 703 507 Scotland Sevenoaks, Aberdeen 01224 587 070 JD Brown, Dundee 01382 226 591 Bill Hutchinson, Edinburgh 0131 220 0909 Bill Hutchinson, Glasgow 0141 248 2857

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or contact IXOS directly on 01494 441736

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Son et lumière

Alan Sircom investigates claims that this Francophone system offers an affordable taste of the high end.

ive l'hi-fi Française! Last month's system featured idiosyncratic Rehdeko RK115A speakers; this month, speakers and amp hail from across the Channel. The whole caboodle is offered by Northern-Irish distributor Kronos to yield high-end performance at a prosaic price. Can it be done? That's what we're here to find out...

Both CD and amplifier are built by Yves-Bernard André (YBA). The £1,250 CD Intégré sports what YBA calls a 'Blue Laser' system, but this is not to be confused with still-experimental ways of using blue-laser light to read high-density data on CDs and DVDs. Instead, there is a blue LED that bathes the disc in blue light while a conventional infra-red laser diode reads the disc. YBA claims the blue light aids disc tracking, but this claim awaits objective evaluation.





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The CD and amplifier are complemented by the new Triangle Zephyr Mark II loud-speakers. These £799 two-way floorstanders have been upgraded to mkII status with a larger cabinet and new drive units, but retain Triangle's impressive lifetime guarantee. The Zephyrs use Triangle's own drivers and are

suggested to be 91dB efficient, with a claimed nominal impedance of six Ohms. Modifications are said to beef up the bass extension and power handling of the speaker.

Hooking up the system are Silver Sounds cables, including an old friend of mine, the 12-gauge speaker wire. The latest £12/m version of this silver-plated Teflon-coated copper cable works well in this system. The Silver Sounds SS1 interconnects are made from pure silver conductors that are double screened with a floating earth, and retail for £199 per one-metre pair.

This bunch of components is not a haphazard collection of products with a Gallic flavour. The importer has performed subtle blending of their individual characteristics, to good effect. The YBA designs have a soft but charming sound, but could easily sound bland and uninspiring with undynamic speakers. Yet they also have extended treble and could make ragged speakers sound very aggressive on music mixed to sound up-front and lively.

The Triangle Zephyr Mk II speakers are the perfect foil for YBA components, since they have the right balance of clean top-end extension, exciting pace and good but not earth-shakingly-deep bass. Add the Silver Sounds cables and you achieve sound that has all the grace and space of big-money, high-end systems without the extreme cost and high box count.

Combined, these components give a sound that is weighty, with plenty of richness and a lot of detail. Soundstaging was particularly strong, although it lacked the

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The price of the CD player is almost justified by the improvements wrought by the supplied cleaning cloth, which YBA recommends you use with every disc. It's easy for a reviewer's CDs to end up in poor condition, and mine are no exception, but a quick wipe with YBA's rubber-feel cloth improved image separation, bass definition and depth, and low-level detail.

Inevitably, there are criticisms. The CD drawer takes almost a glacial age to open, and the amp's stepped volume control is very hard to set at the right level. Like most high-end equipment, this outfit's sound is not optimised for full-on dance music or heavy metal.

However, these niggles do seem churlish in a system offering such a sweet taste of the High End's potential, at such a tasty price to boot. True high-end sound costs quite a bit more than this package, and, naturally, offers more; but sometimes the performance gap is not so great. Kronos has succeeded in distilling the essence of the high end into a package that ordinary audiophiles can afford.

Kronos Hi-Fi 👁 (01868) 748 632

WHAT'S IN THE SYSTEM? VSA Integré CD VSA Integré DT Silver Sounds 12-gauge speaker wire 3m @ £1570 Silver Sounds 12-gauge speaker wire 3m @ £1570 Silver Sounds 12-gauge speaker wire 3m @ £1570 TOTAL RE4,043

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TV and radio

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stems get the horn



DVDivisions

Video stable, Warren Lieberfarb, President,

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HI-FI CHOICE **18** NOVEMBER 1997

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In an echo of the last IFA in

Video stable, Warren Lieberfarb, President,

community.





18 NOVEMBER 1997



somus Boxes

£1,500 worth of JPW speakers must be won!



PW is a key player in the UK loudspeaker market, and although its speakers are normally available only in stores of the Richer Sounds chain. here's a special chance for six Hi-Fi Choice readers to acquire a pair of engaging enclosures.

Our First Prize is drawn from JPW's sophisticated Ruby range, which offers luxury touches like aluminium drive units and cabinets finished in realwood veneers. It includes four models, commencing with the Ruby 1 at £400 and concluding in the floorstanding Ruby 4, a £1,000 enclosure which is this month's First Prize.

All Ruby designs feature distinctive red-coloured,

anodised-metal drive units, 18mm high-density MDF cabinets, and matched real-wood veneers. A special piano-black finish is available to order. The Ruby 4 stands 90cm high on its plinth and can be mass-loaded with sand and lead shot.

At the more affordable end of the scale, JPW's new Millennium range is taking the budget speaker market by storm. The Millennium range comprises nine models, from the diminutive ML210 to the mighty ML1010, a floorstanding behemoth retailing for a disarming £400.

A key range feature is the sandwich construction of the speakers' wooden baffles, which are finished with a membrane pressed outer skin. High density polymer is used for the driver chassis, and crossovers are highly-toleranced minimum-component designs.

Two Second-Prize winners bag a pair of Millennium ML510 stand-mount speakers, awarded a Best Buy in HFC 169 and normally retailing for £130.

Three fortunate Third-Prize winners each receive a pair of ML210 bookshelf monitors worth £80.

Send in your entry form today!





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 (CHFC711B) Bradley Pavilions,

Bradley Stoke North, Bristol BS12 OBO

All entries must arrive by first post, Thursday November 6th, 1997.

What has inspired the name of JPW's Ruby range?

- a) Because it is made with freshly-ground chili powder.
- b) Because it has red-coloured, anodised-metal cones.
- c) Because it featured in The Hunt For Red October.
- d) Because Ruby Wax bought the first pair.

YOUR DETAILS

Name Job Title Company Name

Address (inc. postcode)

Day-time Telephone Number

Please tick here if you are under 18

Please tick here if you do not wish to receive any further information about other

Please tick one only of the following:

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

COMPATITION RULES

- The Closing Date for this competition is Thursday November 6th, 1997.
- Winners of the JPW 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 JPW competition is not open to employees of Dennis Publishing Ltd, JPW Loudspeakers Ltd. nor their suppliers, agents or associates
- We regret this competition is open to UK residents only
- No cash alternatives will be offered.
- We reserve the right to substitute alternative prizes with equal value to these shown, in the unlikely event of stock being temporarily unavailable
- By entering the competition you agree to be bound by the rules.
- 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 711B

The perfect 'point source' has been sought for over 50 years.

KEF patented it.



 $\underset{S \cdot E \cdot R \cdot I \cdot E \cdot S}{MONITOR}$

The acoustic 'point source' has long been the Holy Grail of loudspeaker design. Ever since the early days of high fidelity, audio engineers have sought this elusive ideal.

Some have come close, but none have succeeded.

Except for KEF - and KEF alone. UK patent 2 236929 and US patent 5,548,657 are the proof.

KEF's revolutionary Uni-Q® drive unit configuration is acknowledged as one of the great breakthroughs of modern high-end loudspeaker design.

The single coincident point source is achieved by placing the tweeter at the exact acoustic centre of the midrange cone. With identical directivity and dispersion characteristics, this unique configuration creates an

immaculate stereo image over a far wider listening area than is possible with any conventional speaker.

To the listener, the difference is phenomenal. Off-axis response is superb - and undesirable crossover effects are virtually eliminated.

Progressively refined by Reference Series engineers, KEF's patented Uni-Q technology is what makes the new Monitor Series the ideal

the new Monitor Series the ideal solution for studio professionals and serious audiophiles alike.

After more than 50 years the perfect point source has arrived.



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n the CDP-XA50ES Sony has created a CD player that is convincing in every respect. It is immaculately crafted and luxuriously equipped; and, thanks to variable-coefficient digital filters, offers sound quality that has been previously unavailable in players of this class... it combines mechanical integrity and audiophile refinement in perfect proportions."

Those were the words used by EISA, the European Imaging & Sound Association, to describe what has been voted the European CD Player of the Year '97-'98 by EISA's panel of hi-fi experts. It will be available in the UK in limited quantities only, and to special order – but here's a chance for one lucky *Hi-Fi Choi*ce reader to own one of these technological marvels.

The CDP-XA50ES has an unusual claim to fame among CD players, thanks to nine remote-switchable digital filter options. These grant the user unprecedented control over sound-tailoring, not to mention hours of fun. If a disc doesn't sound quite right with one filter, press a button and see how it fares with another. The choice is yours!

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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.

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All entries must arrive by first post, Thursday November 6th, 1997.

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How many digital filter options are there on the CDP-XA50ES

a) 27

b) 3

c) 99

d) 9

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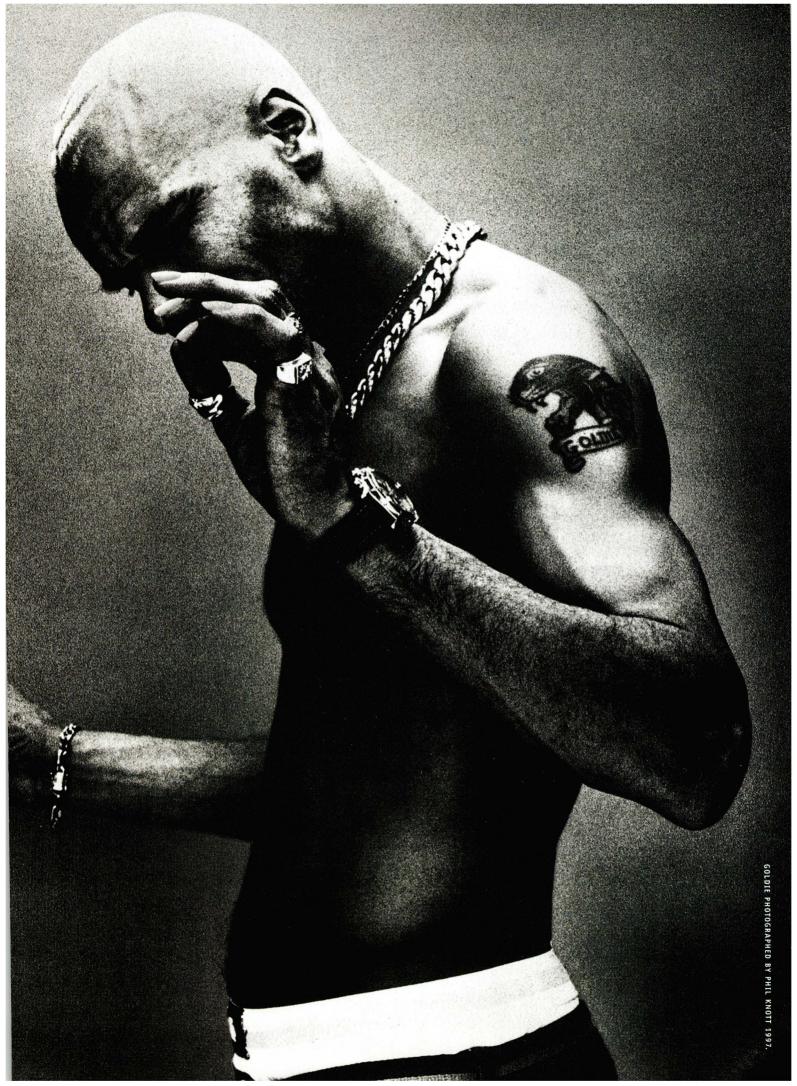
COMPETITION RULES

- The Closing Date for this competition is Thursday November 6th, 1997.
- Winners of the Sony competition will be judged from all correct entries submitted, and drawn at random after the Closing Date.
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- The Editor's decision is final and no correspondence will be entered into
- The Sony competition is not open to employees of Dennis Publishing Ltd, Sony UK Ltd, nor their suppliers, agents or associates.
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Ear Waxings

A CD player from a company with its heart still firmly in the analogue camp—that's Pink Triangle's Numeral. **Jason Kennedy** gets to the nub of the matter.

ink Triangle has been making turntables for a long time now—
it must be at least 15 years—and it should come as no surprise that vinyl is still paramount in the company's estimation. You have only to sit down for a demo of the Anniversary record player and Litaural CD player to hear why: the turntable is clearly much more convincing. The turntable is also more than twice the price once you've added a decent arm, cartridge and phono stage; but price is no barrier when you're tracking down a Holy Grail so elusive as high fidelity sound.

The men at Pink take this quest very seriously, borrowing master tapes to compare with discs and LPs cut from the same tape. The disc-mastering process extracts an inevitable quality penalty, but this process of comparison is one of the best references available. Many companies claim their goal is to make neutral equipment that adds as little as possible to the musical material; but PT espouses this approach with an intensity suggesting it's closer to the corporate heart than usual. I know of no other company that regularly makes comparisons with master tape, for instance: most try to design out coloration artefacts using ears and test equipment. But when it comes to turntable design you can't beat an empirical comparative approach.

Designer digits

Pink has used some of the best names in the business on its electronics design work. The PIP preamp still stands up as a reference-grade product several years after its demise (apparently new amplification is on its way); and John Westlake's digital electronics made quite an impact on the CD fraternity when the DaCapo DAC was introduced. His work has appeared since in more affordable form, notably Cambridge Audio's DACmagic.

Currently PT produces two integrated CD players: the £2,200 Litaural and the £998 Numeral. I've been dabbling with the latter model over the last few weeks. It's a sleek, simple-looking player whose disc drawer fits seamlessly into its curved alloy facia. Display and control buttons are housed in a chunky block that fits onto the curve and

Pink Triangle Numeral
The sleek exterior of a subtle yet complex machine.

provides some relief. The button labels could be more distinctive, but after a while you get used to them. The red-lit display, on the other hand, is not easy to available and doesn't become

read in daylight and doesn't become any clearer once you get used to it. After dark it's just about legible.

The back panel on this sturdy steel chassis is well populated with sockets. Their legends are a little tricky to follow until you realise that the subtle black and blue sticker graphically illustrates the function of each socket. Aside from the usual RCA phono outputs there's a pair of balanced outputs (still a luxury even at this price) a digital output (BNC) and a clock input. The latter interfaces with appropriately-equipped PT DACs.

Inside is a Sanyo transport mech and PT's hallmark, the discrete DAC. Not for them the simple solution of a DAC-on-a-chip, but rather a whole six-inch-square PCB full of components. An expensive way to build a DAC in this day and age, but probably the only way to achieve total control.

Everything counts

On listening to the Numeral one is initially struck by its ability to bring out rhythm. It's alive to the leading edge in true 'follow the tune' style, and everyone likes some good

groove. Especially if it's not at the expense of an edgy balance, something that the Numeral could never be accused of. If anything it's pretty laid-back and relaxed, which makes its rhythmic skills all the more impressive. Next to the considerably dearer Acoustic Precision Eikos it has to concede points to that player's considerable spatial resolution and its ability to untanglecomplex material, but the Numeral stood up well enough with most music — it certainly lacks otherwise ubiquitous hashiness.

Attractive opposites

For a more even comparison I fired up the AVI S2000MC, a solid little brick of a CD player that reflects its engineering background with a strong, distinct musical style that's no better or worse than the Numeral but quite different. In such company the PT sounded full and rounded with less bass depth but more tonal colour, more 'air' in cymbals and perhaps a degree more fluency. It was the sort of comparison that a mastertape reference would have sorted out!

The AVI's performance was interesting in more than sonic respects: it presents a more rugged appearance and works quickly and efficiently to produce authoritative sound. The PT cannot boast equally tough build but offers a lighter touch that accords with its builder's desire to intrude on the music as little as possible. The question is: do digital opposites attract?

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The Jimmy Hughes **Experience**

Trichord's latest developments still have the power to enthral **Jimmy Hughes** — but is it a question of exceeding CD's limitations, or are most CD players inherently flawed?

ast July, I paid a visit to Trichord Research in Malvern, to have my PD-75 Pioneer CD player updated. As most of you will know already, Trichord offers a modification service for older CD players, in which they remove the original quartz-crystal oscillator and replace it with a high-precision 'clock' to improve timing accuracy by reducing jitter.

It's possible also to replace the player's digital output stage with a superior Trichord board, claiming to offer faster signal-edge rise-time and lower jitter. The complete package of improvements costs about £360, but it should vastly improve the sound of your player, and I reckon it's money well spent.

My PD-75 already has Trichord's Clock 2 mod and the upgraded Output board, but there was something I still hadn't tried: the balanced digital output. This option is offered by Trichord's output board as standard, but because the vast majority of DACs have only unbalanced digital inputs, it 's not widely exploited.

To go balanced requires a revision to your player's output wiring, and the addition of a three-pin XLR socket to the rear panel of the player. Although my Cambridge DACmagic DAChas balanced

analogue audio outputs, it does not have a balanced digital input; thankfully the XLR-equipped Meridian 518 processor box enables balanced working in my system.

But why go balanced? The main reason is to cancel noise. Any spurious noise or interference picked up by cables, or present on the output, is phase-cancelled by the act of extracting the signal from its balanced state. The result is a cleaner, purer sound.

Because the standard digital output is left untouched, it's easy to compare the two options. Balanced, the music sounds cleaner and richer, with much more depth and space around instruments and voices. Subjectively, it seemed as though the volume level had been increased slightly, giving greater projection and wider dynamics.

Trichord's Graham Fowler reports that

he's been working on a replacement for Clock 2, to be ready by the Autumn. One of several improvements will be the use of superior Oscon capacitors in place of tantalums. The new caps have much lower impedance at very high frequencies.

I hope to go for 'Clock 3' when it's ready, but in the meantime Graham fitted half a dozen Oscons to the existing Clock and Output boards to give me Clock 2.5! The result was a faster, sharper, more tactile sound, with far greater bite and fine detail.

Setting up

I visited Trichord with a couple of friends, one of whom has a set up of Trichord

Trichord Research Digital Turntable and Pulsar DAC.

Further reproductive revelations when upgraded with Oscon capacitors...

(Pioneer) digital turntable and Pulsar DAC, plus the Pulsemaster jitter reduction box. To convert this little lot to work in fully balanced mode took time. Graham couldn't modify it on the spot — it took about 10 days.

I installed my friend's Trichord CD turntable/DAC once the mods had been completed, and I was pretty staggered by the degree of improvement. Graham had really excelled himself, fitting about 36 Oscons in the DAC alone! With the Pulsemaster altered to work balanced (it has to be put in a bigger box) the results were highly impressive.

The sound was incredibly holographic and '3D', with instruments and voices vividly projecting in a manner that is rare for CD. The imaging was very tactile, creating a soundstage of remarkable width and depth.

Having completed the installation, I sat

down to listen — and read the September issue of *Hi-Fi Choice*. I was intrigued to see Gene Pope disagree with my assertion that CD seems to have a 'glass ceiling' beyond which it's difficult to make significant audible improvements.

I still hold to that as a general rule, but listening to the modified Trichord CD player/DAC I mused on the limitations of most ordinary CD players — regardless of how good their specs are. What is the point of making better CDs when the CD player itself is such a crippling limitation?

Elsewhere in the mag, I saw Sony's CDP-X3000ES receive a Best Buy in the group test. Actually, I tried this CD player two months

earlier, but I declined to write about it as — ahem! — I found it disappointing.

Used as both a stand-alone player and a transport (through the Meridian 518 and DACmagic), it seemed to lack impact and detail. I even dragged out Sony's excellent budget CDP-761 of yore, but felt the new machine was little better.

Now, this was before I went balanced and had Oscons fitted to my Pioneer, so the performance gap is now even bigger. Isn't this as it should be? After all, the CDP-X3000 costs £499.95, while my Pioneer/

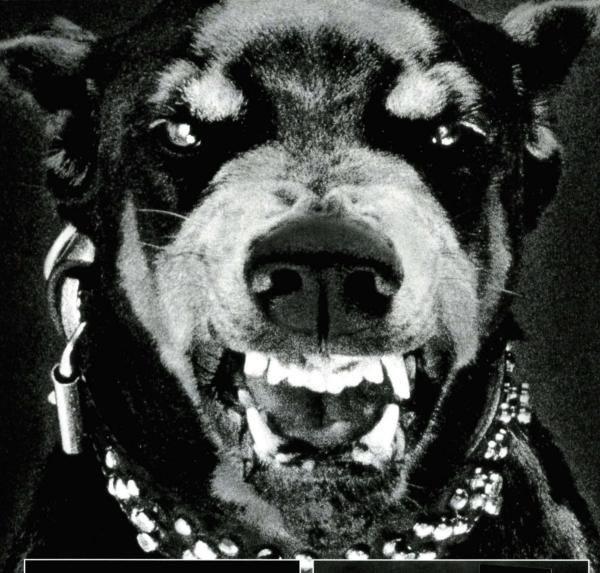
Meridian/DACmagic combo costs four or five times more. By rights, it ought to be that much better...

...However, this is digital audio, where specifications are supposed to matter. To look at the lab report in September's test, you'd conclude the little Sony was virtually perfect. Yet, rightly or wrongly, I judged it to be sonically average; not a bad player, but not much better than last year's budget Sony.

The point is, I do think Trichord has achieved a quantum leap in CD player performance with its latest mods and updates. And I say this knowing I've not heard everything possible; there's more to come! CD players remain depressingly average in terms of performance, and are far more limited sonically than many fear.

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Paul Miller's Oasis of Sanity

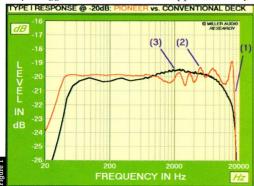
Paul Miller takes a closer look at the Pioneer CT-W806DR, reviewed on page 67, and explains why it's not a reprise of Philips' doomed Digital Compact Cassette format...

ecause the bargraph system used throughout our group tests is based upon deviations from a group's mean performance, category by category, it is possible for one 'wild card' product to bias the results. Nevertheless, so long as we are testing relatively large groups, the influence of any one contender is reduced. Pioneer, in constant pursuit of unique digital technology, is a constant challenge to our statistics, whenever we come to test CD players. And now, in this month's test of cassette decks, its CT-W806DR deviates so markedly from the 'average' tape machine that, by comparison, its competitors are reduced to gaslight.

So why does the technical performance of the CT-W806DR shine so brightly? How can it achieve a miraculously low-86dB hiss with Dolby C when, with Type II chrome tapes, a figure of -73dB would usually be typical?

The answer, as ever, lies in the ingenious application of digital technology. Sure enough, the CT-W806DR still makes *analogue* recordings, which are no less compatible than copies made on conventional decks. Within the CT-W806DR, however, music signals are *digitally* processed before they hit the tape and, again, once they are pulled off during playback. I should make the point, however, that this is not an encode/decode process like Dolby NR.

Fig. 1 Our first hint of the '806's 'uniqueness' comes in the frequency response of its recordings, which extend to an upper limit of around 17-18kHz before dropping sharply away (1). Not unlike the behaviour of a CD player, in fact. The recording also betrays a very exaggerated version of the ripple (2)



occasionally caused by less-than-fabulous digital filters in budget CD players. The black trace, meanwhile, shows a typical Type I response from a deck that's slightly overbiased — encouraging a prominent upper midrange (3) but rolled-off treble.

Nevertheless, the '806 is most definitely not a CD player and neither is it capable of digital recordings. Instead, this deck converts all incoming signals to a digital code whereupon both the record level and tape equalisation are adjusted. Obviously, this A-to-D step is avoided by direct digital inputs. Nevertheless, all signals are converted back to analogue before recording onto the tape. On playback, this analogue signal is converted back into a digital code where a wide variety of 'signal conditioning' facilities are employed.

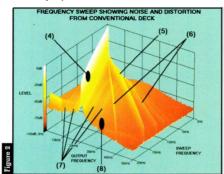


Fig. 2 However, before we take a closer look at Pioneer's clever DSP facilities, it's as well to remind ourselves of the noise and distortion associated with a recording on a typical two-head tape deck. In this example, a sweep is recorded from 20Hz-20kHz (4) at -3dB. Upon playback we can see that distortion is

dominated by a characteristic 3rd harmonic (5), caused by the record head, while even-order harmonics (6), caused by associated analogue electronics, lie at a slightly lower level. We can see what look like parallel striations (7) in the skirt of noise (8) that falls away from the main signal. These patterns are all part of the modulation noise caused by the friction of the tape as it passes over the record and playback heads. Digital recording media, incidentally, does not suffer from this 'uniquely analogue' form of distortion.

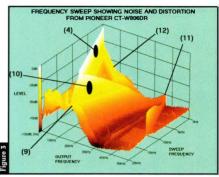


Fig.3 According to Pioneer's technical literature (which is translated from Japanese into something only vaguely resembling English), its replay DSP encompasses a multitude of processes, the most important of which is a form of adaptive digital noise reduction. In a process not unlike that utilised by ATRAC and PASC (the data-reduction algorithms employed by MD and DCC respectively), Pioneer employs a series of custom digital filters to divide and analyse the audioband, applying a greater degree of high frequency (hiss) suppression at lower signal levels. This is why during conventional S/N ratio tests, when the test signal is removed altogether, full suppression is engaged by the DSP, resulting in a seemingly huge S/N ratio. In the presence of bolder signals, the principal of 'psychoacoustical masking' is invoked to justify less suppression of hiss (when the music's loud, you're less likely to hear the noise).

We can see this in the broadly unchanged noise-floor (9) of the recording first viewed in Figure. 2, the high level of the main sweep (4) effectively 'drowning out' any audible hiss. Also revealed is the huge digital stopband image (10) produced during the final D-to-A conversion stage which, evidently, is hinged at a low 36kHz sample rate (11). And distortion? Well, at 0.8 per cent, the strong 3rd harmonic (12) is actually at a higher level than that suffered by most conventional decks, despite dying very abruptly above the digital cut-off frequency of 18kHz (one-half 36kHz).

Once again it really looks like you never get something for nothing, even in the realm of digital smoke and mirrors.

Do you have a subject matter for the Oasis? Please contact P.Miller via E-mail on 100576.3021@compuserve.com





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The Kelly loudspeaker marque has been resurrected by Musical Fidelity. Paul Messenger investigates.

Messages

s regular readers will know, I'm a sucker for high sensitivity speakers. And I'm sure Musical Fidelity's Antony Michaelson is a regular reader, because he called me up the other day, bursting with enthusiasm for his new speaker project, and boasting of a new floorstanding speaker with 95dB sensitivity for only £1,200. Was I interested? Ship it on down please!

It's not happening under the Musical Fidelity brand name; instead it's a revival of one of the famous names of British hi-fi history. Stan Kelly, one of the founding fathers of *Hi-Fi News* magazine, but known above all for the legendary ribbon/horn tweeters which bore his name, has finally (at the age of 86!) decided to retire, and has sold his company, Kelly Transducers, to MF.

The resulting KT-series speakers may not have been actually designed by Stan, but they strongly reflect the guru's personal enthusiasm for higher-sensitivity designs (much of his laterwork was in high efficiency monitoring and PA). Antony also has plans to revive the ribbon technology.

The Musical Fidelity MC3 speaker I checked out back in 1993 wasn't very highly sensitive (though it achieved a respectable 88dB alongside an easy amplifier load). Since that time Antony has, like me, become a convert to the high sensitivity cause. He now regards it as an essential pre-requisite to reproducing the 'micro-dynamics' which are one important ingredient in musical reproduction, with the very real bonus that realistic peak levels can be achieved without clipping even a modestly-rated amplifier. I'll go along with those two key benefits, even if the rest of the propaganda leaflet is littered with the sort of half-truths and specious hyperbole guaranteed to wind up any ex-editor.

One thing I've learned not to trust is loud-speaker sensitivity ratings. All too often I suspect manufacturers pick them by adding a decibel to what's on the spec sheet of the nearest competition. Before I was going to accept the exceedingly high 95dB which Antony is claiming for the KT3s, I wanted to check them out under my own conditions. I don't even claim my own sensitivity figures are necessarily accurate in an absolute sense — but they are based on real-world (stereopair-in-room-at-normal-listening-distance) conditions, and are directly comparable across the vast range of speakers I've had the chance to try over the past decade.

And while I don't quite go along with Anthony's 95dB, even my pessimistic realism will happily settle for 93-94dB, which in context is a very impressive figure indeed. It's certainly the highest figure I can recall for any comparably affordable and conventional box. I ploughed back through my records, and could only come up with the long-obsolete Tannoy DC2000 and DC3000 (from 1989/90, and something of a cult in their day). More recently, the Audio Note AN/E, Dali 104B and Cabasse Skiff all deserve honourable mention for 91-92dB, but none of these will be easy to track down in British shops.

In fact, the Kelly is only beaten by the weird, the wonderful, the enormous, or the extravagantly-priced. Things like the

Rehdeko family; giant Tannoys like the 215DMT studio monitor and Westminster Royal horn; and other horn systems like the Klipschorn and Living Voice models. All of which leave the £1,200 Kelly looking like a very sane, sensible and affordable proposition.

Bending the rules

So how's it done? Dextrous legerdemain, smoke and mirrors? Nothing of the sort. A little to my surprise I admit, the KT3 really does deliver, not only that exceptionally high sensitivity, but also a very respectable overall frequency balance, and a very decent inroom bass extension to boot (-10dB at 20Hz). One might accuse it of bending the rules slightly with a determinedly four Ohm load — but the same applies to all the other high sensitivity box speakers I've mentioned.

There's no actual magic involved here. Just a very sensible overall configuration combined with one of the newest and lightest cone materials around. It's called an aerogel, and consists of a thin and stiff foam-like diaphragm which is allegedly 98 per cent air. (It's not even that new;

Mission used it in the estimable 752 back in 1994.) Use two such drivers in tandem, each loaded by a large enclosure, generously ported at 40Hz, operating as a simple two-way alongside a rather horny-looking tweeter, and that high sensitivity becomes the logical outcome, with no need to bend the laws of physics.

The best news is that all the theory translates beautifully into the listening experience. The KT3 is at the heart a conventional, rather conservatively-balanced loudspeaker, a little laid-back for my taste, and not as smooth as some of its competitors, it must be said. But it does generate some of that special tension I associate with true high-sensitivity designs, along with the sheer lack of strain that comes from improving the head-

room dramatically, and the low-level detail delicacy which seems to come along naturally as part of the whole package. The ports are maybe a shade obvious sonically, but the bass is nonetheless quick, tight and reasonably even.

A few months back (HFC 167) I group-tested 15 £900-£1,850 loudspeakers, including many floorstanders in direct competition with this new Kelly. Never mind the micro-dynamics, to change from even the most sensitive of those (the KAR Torino) to a pair of KT3s is, in practical terms, the same as doubling the available amplifier power of your system. With most other speakers it would be more like a tripling.

In recent years, high sensitivity speakers have been the province of the wacky, the oddball, and the obscure. Here's hoping the marketing muscle of Musical Fidelity, alongside the respect accorded to the Kelly name, will put sensitivity back on the main hifi agenda, where it should have been all along.

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LETTER OF THE MONTH

Flat Nak blues

After reading about Luigi Papagno's system (*Inspirations*, *HFC* 166), and in particular his Nakamichi ZX9, I decided it was time to give my own ZX7 a check-up. I have had my machine for 11 years and it has never put a foot wrong, but I felt its performance might have deteriorated, so I phoned B&W (UK distributors of Nakamichi) to tell them I was sending it along.

I wrapped it carefully in bubble wrap and put it in a large carton, stuffing more wrap and foam around it until it was cocooned and protected against jars and knocks. Above the address I wrote in large felt-pen letters: "Delicate electronic equipment. Do not drop".

The following week I received a letter from B&W saying that the machine had arrived with two corners of the front panel smashed and the open/close mechanism also broken. Then they dropped a bombshell by saying that they could not repair this damage as there were no more parts in the UK, or even in Japan. I sat down and cried. My pride and joy is lost forever, all because some moron courier couldn't give a damn.

R Crombie, St Albans, Herts

Stan Vincent replies... Two salutary points arise from this heartrending tale. One: always expect the worst when sending goods by courier. Two: if it ain't broke, don't send it away for fixin'. We trust the polo shirt will fill a small part of the hole left in your system!

Good, NAD and ugly #1

Having recently purchased a NAD 317 integrated amp I was somewhat perturbed to read the rather scathing review in the latest copy of your magazine.

What particularly disturbed me was the fact that your April edition had given a fairly solid review of NAD's 114/214 combination. According to NAD literature, as well as your review of the 317, it is in fact a 214 power amp with a built-in pre-amp. It therefore seems odd to me that the 114/214 combo is described has having "strong dynamics" and "considerable detail-resolving ability", and being "fairly clean and transparent", while your review of the 317 is precisely the

opposite, describing the amp as lacking in detail and dynamics, and basically producing "musical stew".

Is the power amp section of the 317 really identical to the 214 power amp as claimed? And if so, does one accept that reviews in mags really are a complete waste of time? Or, could this dichotomy be ascribed to the fact that the 114/214 combo has two separate power supplies?

J Caulfield, Cape Town, South Africa

Good, NAD and ugly #2

As a NAD owner and a subscriber to your magazine, I have been interested in your recent reviews on this brand. I was

surprised to discover some inconsistency between your articles and criticism concerning NAD in recent months.

First came the write-up in the *Jimmy Hughes Experience* (HFC 164), praising the NAD 317: "It certainly sounds big... it's extremely solid and clean".

Then came the pre/power-amp test in *HFC* 165, where the NAD 214 (same power amplifier as in the 317) got a Recommendation, but "lacked star quality to be a Best Buy by a whisker".

Finally came the amplifier test in *HFC* 168, in which the poor NAD 317 is described as a "musical stew... bleached... the top octave is missing".

How are readers supposed to make sense of *HFC* tests and reviews in which almost the same amplifier can elicit such a range of different opinions? *Ishay Ben-Amotz, Ramat-Gan,*

Alvin Gold replies... Both respondents are guilty of quoting selectively from the reviews in question. The comment about a "musical stew" in the 317 review, for example, was clearly signposted as being just one observation from a single listening panel member, about an amplifier that elicited mixed responses from the panel as a whole. The review also included a comment to the effect that the 317 offered "good midband resolution and transparency". The fact that the 317 is a 214 with an integral preamplifier doesn't mean that it sounds like the 214/114 combination. If it did, there would be no justification for producing separate pre and power amplifiers. The issue of separate power supplies is probably relevant

OUR ADDRESS

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e ☐ 100433.1130@compuserve.com.
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here, but there are many other possible contributory causes for the differences encountered.

Overall, however, the 317 was clearly not one of the bestliked in our tests, and I would refer you to the protocols of the Hi-Fi Choice group review programme. This, as I have said before, includes by far the widest-ranging and most searching tests on a selection of broadly comparable products undertaken by any hi-fi magazine, period. If the 317 review doesn't validate your choice of amplifier, I'm sorry, but there is nothing in the review to say that a perfectly good system can't be constructed around the 317. Our main criticism was a lack of musical consistency rather than absolute ability.

PS. Our favourite NAD amplifier right now is the excellent little 312... (see p87). ▶

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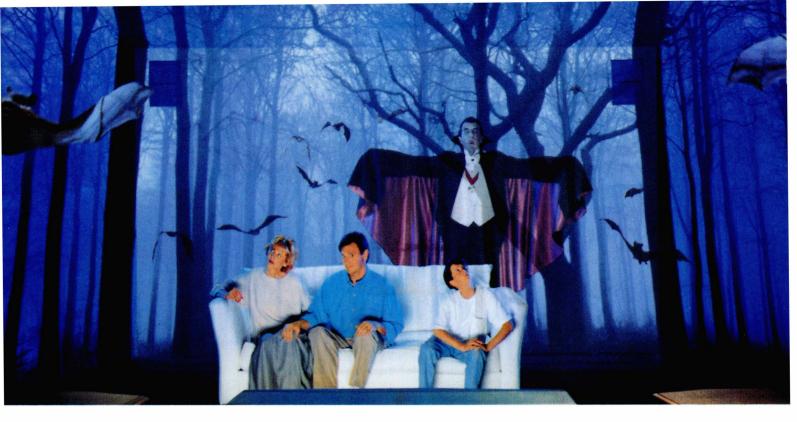




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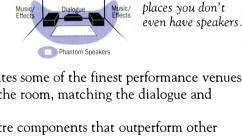
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The only way is up

As the owner of a Micromega Stage 6 CD player, I read your recent test of it with interest. I was somewhat amazed that it was not Recommended.

In the tests, the subjective comments on the Micromega and Cyrus dAD3O were broadly similar in that both machines scored reasonably, but were marked down by one listener in each case. Their prices are similar, too. However, in the conclusion of the Cyrus, your Best Buy is accorded on account of its upgradability. This is totally inconsistent with your conclusion of the Micromega player which is also upgradable. In fact, it's even more upgradable than the Cyrus since there are more models in the range. Stages 4, 5 and 6, the integrated players, can be further upgraded to Drive 3 and DAC

D Wood, Soisy-sur-Seine, France

Safe and sound

I was very interested in your article on hi-fi accessories (HFC 168). There was one big omission, though: security. I would like to see some suggestions on marking software and hardware so that if it is stolen it can be identified and returned. How can you mark a CD or MD, for example?

A Cleaver, via the Internet

Stan Vincent replies... The simplest solution is to obtain a marker pen whose ink is visible only under ultra-violet light, and use it to inscribe your name and post-code on every item requiring protection. Most DIY stores should stock them. Alternatively, a company called Seton Ltd offers a variety of personalised security labels —

call 2 (0800) 526861 for a copy of the company's complete catalogue.

Let me be your fantasy

The article Ultimate Accessories (HFC 168, p40) left me puzzled and disturbed. Under the headline Five Free Tweaks, Jimmy Hughes writes that one can sometimes hear the difference between an amplifier's A and B speaker terminals, because the B terminal is closer to the main circuit board and thereby has a shorter signal path.

Mr Hughes is trying to say that a time difference of 0.254 nanoseconds is audible (assuming that B is three inches closer to the main circuit board).

Claiming to hear such a time difference is like claiming to hear the difference between 0.0049 per cent and 0.005 per cent harmonic distortion. In my opinion his statement comes directly from the big book of Hi-Fi Fairy Tales written by Frank A N Tasy!

P | Frankfort, Haarlem, The Netherlands

De old black magic

What a tragedy! After a long wait I received my subscription gift of a Densen DeMagic CD. I waited until I had time to observe its effects properly then set to work.

I placed the CD in the drawer of my Meridian 508 20bit CD player, and pressed Play. The resulting cacophony was awful! Still, I thought, anything that sounds so bad ought to right any wrongs in my system (based on the "nastier it tastes, the better it works" medicine principle).

On playing the same track I'd auditioned prior to the Densen treatment, my finely balanced system sounded very

nasty indeed. Harsh, violent, tiring and downright horrible.

Subsequent listening has confirmed my first impression. Gone is any semblance of subtlety; in its place an 'in-yer-face' sound that surely only journos from another leading brand of hi-fi mag could enjoy.

I'm not panicking, because I have heard my system sound like this before — when the CD player, 502 pre-amp and 557 power amp were brand-spanking new!

It took ages for electronics, interconnects and speaker cables to bed in and start working like a single component, then I came along and realigned all the molecules again...

T Woodward, via the Internet

Table manners

I miss the inclusion of tabulated performance data in your equipment reviews, especially the speaker response curves. Paul Miller displayed some interesting curves demonstrating port output in relation to driver output recently, demonstrating the useful information that can be available.

Data once given has been replaced by an (often incomplete) data summary, and "comparative bar charts". The bar-chart graphical representations to show relative performance of the equipment are misleading at best.

They have no fixed reference point As reviewed in issue 168... between different reviews of similar products, so are useless for comparison of similar products from different reviews.

Even within a review the samples are, statistically speaking, too small to be reliable. Although the charts may look good, they only offer very limited information. (The less generous among us would say they are a waste of space).

Finally, in your reviews, sometimes the main author subverts the panel's opinion. This rather defeats the point of a panel of reviewers, don't you think? That said, your review

procedure (by blind testing), and willingness to name the reviewers, is likely to be more reliable than the anonymous sighted reviews published by "What Lo-Fi". Keep up the good work!

Name and address withheld

Kenwood comeback

How do you square your remarks in reply to R J Smith's letter (Seedy CD, Write On, HFC 169) with your own comments about Kenwood's DP-7090 CD player (Best Buy, HFC 163)? I auditioned this unit as a result of your review, and I hasten to add that the first sample I took home was not good, but the present one, with a little help from a Musical Fidelity X10-D, is excellent. It would not be an exaggeration to say that I did not think sound quality of this class could be achieved by a CD player — a view supported by other professional musicians who have heard it.

R Secret, Preston Bisset, Bucks

Cable checks

Goertz M2 speaker cable

In the July/August '97 edition of Hi-Fi Choice you reviewed speaker cables, in particular some Goertz M1 which you rated very highly. However, when I contacted the distributors, Townshend Audio, they said that the cable in the photograph was Goertz M2,

> never supplied any Goertz M1 to the magazine for review.

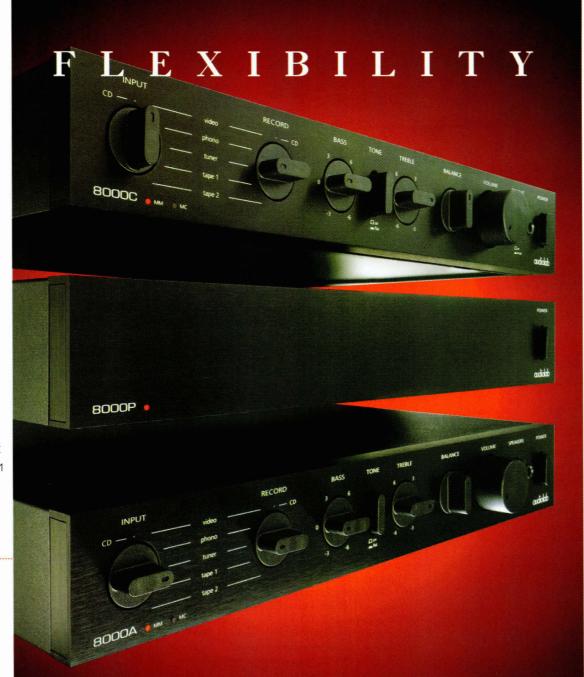
and that they had

As M2 is far more expensive than M1 (£32/m as)opposed to £16/m) I would be grateful if you could tell me whether it was, in fact, Goertz M1 or M2 that was reviewed.

John Leigh, via the Internet

Richard Black replies...

My mistake, I'm afraid; everything was right except the name, which should indeed have been M2 (as in 2cm wide). The price was right at the time of going to press, but I understand that it has since been raised to the figure you quote.





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LINN LINTO/ARKIV

Hardcore phono

Digital may dominate today's agenda, but Linn is celebrating its Silver Anniversary with new analogue turntable products. **Alan Sircom** reports.

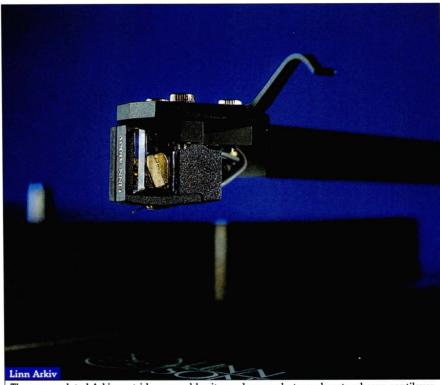
ho, 25 years ago, would have believed that a small kit of turntable parts would transform the hi-fi industry and exist as a point of reference as we approach the 21st Century? The ever-so-'umble Linn Sondek LP12 of the early '70s still lives to this day; and as Linn Products approaches its 25th anniversary it has chosen to celebrate by introducing two new products that will rekindle the turntable's flame once more.

The first arrival is a radical reworking of Linn's existing flagship cartridge, the Arkiv. This new £1,200 needle looks identical to its predecessor, but features a boron cantilever with a more highly developed stylus shape. The suspension mechanism supports secured coils held in a highly-rigid assembly, terminated with gold contacts.

Partnering the new Arkiv is a wholly complementary product, the £850 Linto phono preamplifier. Presented in the usual charcoal-black Linn casework, and sporting the Brilliant switched-mode power supply, this direct-coupled phono stage has no external controls apart from a power switch. Secreted within is the wherewithal to adjust the Linto for the electrical characteristics of most moving-coil cartridges, but apart from that it just takes moving-coil cartridge signal and boosts it to line-level. The only concession to instrumentation is a green LED by the power switch, which turns red if the input is being overloaded.

So far so good — but where does Linn's Silver-Anniversary Linto differ from the myriad alternatives on the market? Well, Linn has made the bold step of feeding cartridge signal directly into the amplifier transistors instead of equalisation circuitry. While this means the RIAA circuit (which compensates for electro-mechanical curiosities of cartridges) has a bigger signal to deal with, it does seem a good way to minimise errors that are sometimes introduced by RIAA.

Internally, the Linto looks like an exercise in impressing CE-certification scrutineers. Both power supply and surface-mount circuitry are shielded to an impressive standard. As with all Linn gear it can be left on indefinitely, but comes into its own after 20 minutes of being switched on.



The new updated Arkiv cartridge resembles its predecessor but now boasts a boron cantilever.

Family and friends

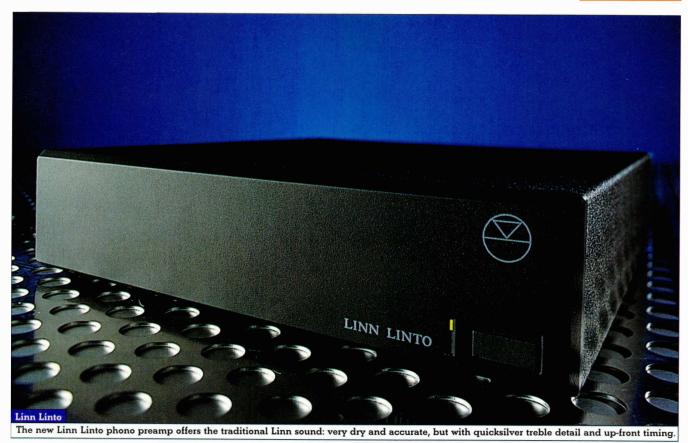
As Linn gear is so often used with its own kith and kin, to be contrary I used both products in decidedly un-Linn settings although the unique three-point mounting of the Arkiv meant that it stayed in its LP12. My own Linn LP12 (with Naim Armageddon power supply, ARO arm, Sumiko Sho cartridge and oddities throughout) was slightly too adulterated to receive the Linn seal of approval, so the company dispatched a 1997-vintage LP12 with Trampolin baseboard, Lingo power supply, Ekos arm and Arkiv cartridge. Other combatants included an Ortofon MC7500 mounted in a Nottingham Analogue Spacedeck and Space arm, and phono stages from Audiolab, Creek, Musical Fidelity, plus an ailing and failing Moscode SuperIT. All were fed via Meridian's 502/557 pre/power amps into Rehdeko RK115A and Celestion A1 speakers. Cables included Linn's own interconnects, plus DNM and Nordost SBM Reference interconnect and speaker wires.

I didn't review the Arkiv on its first release at the turn of the decade, perhaps because I was a bit of a Troika fan — Linn's top coil of the '80s. The Red Devil Troika was not the most accurate cartridge in the world, but made music like no other. In my opinion, only the Sumiko Sho on Naim's ARO arm has come close. Until now.

While the first Arkiv had the edge over the Troika in speed and HF detail, it was no match for the Troika's natural sense of rhythm or bottom-end bloom. Nor did it live up to the standards of accuracy produced by the top Ortofon MC-series. The die-hards started looking around for cartridges offering the same sort of balance as the Troika without sacrificing too much detail, and paved the way for Dynavector, Lyra and Sumiko and others to fill the Troika's shoes.

Well, tables have turned again, and it seems as if the new Linn cartridge has achieved the impossible, by approaching the accuracy of the classic Ortofons while combining the speed and timing of the orig-

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inal Arkiv with the naturalness of the Troika. The latter's bass bloom is still absent, but in its place comes dynamic range that pushes the envelope of vinyl's bass response.

Even imagery is not compromised in the search for more rhythm and energy. This is rare for any cartridge, but for a Linn design it is almost unheard of. The new Arkiv favours not only pristine recordings, but even those whose clicks, pops and surface noise normally intrude. 'Needle-chatter' is reassuringly low: play a disc without amplifying the signal and put your ear close to the cartridge tracking the groove. You'll hear very little signal evaporating into the surrounding atmosphere. In short, for Linn owners at least, this Arkiv is one of the finest cartridges you can obtain regardless of cost.

Get Linto the groove...

With the new Linto phono pre-amp, the first necessity is to ensure its gain is set correctly. If it is adjusted too high, overload will ensue, and a small thunderstorm will take up residence in your hi-fi. Get the setting right, however, and you'll enter a new world of Linn electronics sound — raised to the nth power. Broadly speaking, it is reminiscent of the Linn CD player and tuner: very dry, accurate and possessed of quicksilver treble detail and timing. In less than a minute you'll hear levels of detail hitherto unperceived from turntables through normal Linn electronics. It treads a skillful path between sibilants and sibilance, so it plays the "esses" with neither sizzle nor spit.

In particular, the dynamic range and midband transparency of the Linto are fault-less. Play a predominantly acoustic record-

ing like *Hejira* by Joni Mitchell and the subtle interplay of guitar harmonics and voices comes across pristine. It can even handle Mahler at his most showy. Tubes might do this with more aplomb, but not without sacrificing speed and treble detail.

The Linto makes a case for the defence of turntables. It reveals how many vinyl-format shortcomings — transparency, for example — have, in the past, been incorrectly attributed to record decks themselves. In fact, they have been the fault of phono stages.

To the handful of us who've experienced the very best phono stages, this is not news. For the most part, however, these 'very best' phono stages cost more than twice as much as the Linto, so at the price it is something of a quantum leap forward, especially for those using the existing phono stage from the Linn Kairn. Readers with longer memories will remember the fuss made about the Lingo power supply when it was launched back in the early '90s. Commentators of the period said that the Linn turntable was simply not complete without one. Well, now it is incomplete without the Linto phono stage.

Let me say the following to make clear my esteem for these new products: if you still use good vinyl, and especially if you use a comparatively recent LP12, either the new Arkiv or the Linto should be considered your next upgrade. Perhaps the Arkiv is a little less mandatory, since in practice its applications will be limited to Linn Ekos and Naim Aro arms. However, if you've got one of the latter, a new world of music awaits. Step up from an old Linn Arkiv or Klyde cartridge, and Kairn phono stage, to a new Arkiv and Linto, and try to hold back your tears of joy.

A giant leap for hi-fi-kind

Which one of these new arrivals offers the biggest upgrade in performance? That's one of those difficult questions to which I can give no single correct answer. Both offer a quantum-leap forward for those who like the Linn sound and want more. In my personal opinion, I would come down on the side of the Linto, because of the way it will leave owners of Linn Asaka, Karma, Troika, Klyde and (original) Arkiv cartridges wondering what's hit them. The same Asaka, Karma, Troika, Klyde and (original) Arkiv owners can now get their beloved cartridge re-tipped and will finally get to hear exactly what that needle can extract from their records. Unless your cartridge is on the way out, you don't have to change it immediately to improve the sound dramatically. That said, the new Arkiv is probably the best thing you could ever install on the business end of an Ekos, and once you hear it, you won't want to contemplate life without it.

My only real criticism doesn't relate to the Linto or the new Arkiv. In fact, it's reserved for that daft Trampolin baseboard which Linn uses to eliminate the effects of an equipment support. The idea is laudable, but four perishable rubber grommets with adjustable feet are simply not up to the mark. It's one of the most fragile turntable bases I've ever encountered.

My advice is to stick with the standard base and position the turntable upon a good table or wall shelf — I'd recommend one from the ranges of Mana Acoustics, or Russ Andrews' Torlyte products. Believe me, your system will thank you for it!

Linn Products (0500) 888909

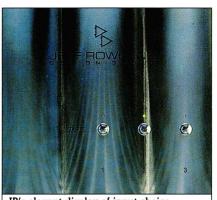
The beauty beast!

Jason Kennedy praises the subtle charms of Jeff Rowland's Concentra.

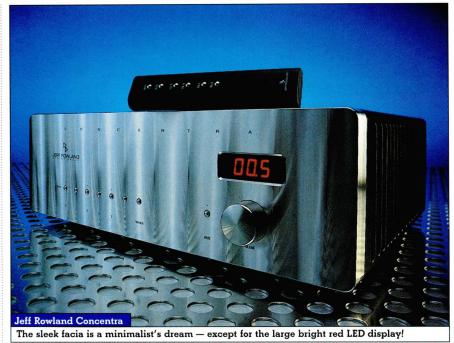
everal thousand miles away from HFC Towers, in Colorado Springs, a tall, slim man builds some of the world's most beautiful amplifiers. That man is Jeff Rowland. The super-amps bearing his name may not enjoy the high profile of those from Krell and Mark Levinson, but in construction quality alone Jeff Rowland's products are clearly playing in the same Premier League of high-end hi-fi.

Jeff's company has been manufacturing hi-fi electronics for two decades, but only in the last few years has it employed the subtlymachined, bright-alloy facia style you see here on the Concentra, a new integrated design priced at £5,500. The look of this finish changes according to ambient conditions, because the vertical stripes are solely reflections. Looking at the unit it's difficult to see what creates these reflections, but running a finger over the front panel reveals fine peaks and troughs. They say you shouldn't judge a book by its cover, but the finesse of this unit's crafting complements perfectly its sophisticated sonic attributes.

The facia isn't the only distinctive element on this substantial chassis: the sides and top have been machined as well. The top incorporates slots that, despite their appearance,



JR's elegant display of input choice.



are slightly different in length and width, to minimise resonance in the casework. The side panels are more than an inch thick, and feature more regular-looking deep-cut slots, for heat sinking as much as vibration control. The facia's a minimalist delight, in all but the large, red LED display surmounting a solitary, uncalibrated volume-control knob. The display indicates signal attenuation level - particularly useful if you're on the sofa with remote in hand. Oh yes, it's couch-potato-friendly too. Eight buttons offer access to eight inputs: three balanced and four unbalanced; one of the latter will be capable of becoming a phono stage when the module becomes available. This should be adequate provision for the purist musiclover, but may prove insufficient for true kit-freaks with myriad sources.

Outputs include balanced and regular pre-outs, and a pair of tape-out RCA phonos.

So if you have the regular, British complement of sources, chances are you'll be restricted to four inputs, which isn't fabulous; but then again if you've got five and a half big ones to spend on an amp perhaps you'll be using balanced connections already.

A balanced budget

Balanced-line operation is close to Jeff Rowland's heart. Its main advantage is to ensure standardised output and input impedances for sources and amps. According to Jeff, impedance mismatches are one of the main reasons why interconnect-cable selection is such a black art. All too often it relies on cable characteristics to solve a more fundamental problem. With 600 Ohms of impedance at either end of a balanced line, the cable's job is a piece of cake. Perhaps this explains why recording engineers and other professionals find the exotic hi-fi cable

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debate so amusing. Jeff isn't alone in his convictions: the balanced approach is espoused by most high end hi-fi practitioners.

Integrated circuit output devices have taken the place of traditional transistors in the Concentra, and lo, the claimed specification for the Concentra incorporates a revealing anomaly: power output is quoted as 100 Watts into eight Ohms or 150 Watts into four, and continuous current capability as 16 Amps. However, the JR Model

2 power amp (allegedly the basis for this design) offers 75 Watts and 20 Amps. Users of difficult-load speakers may care to try one of the company's standalone power amps.

Before I give you my appraisal of the Concentra's sound, I must mention the internal appearance of the amp, which is virtually as minimal as its exterior. There are only three PCBs: narrow strips

down either heat sink, and a larger one flat against the rear panel. Between are a modest mains transformer and a pair of huge capacitors. All three components are clamped fore and aft in exemplary fashion. Most of the board-mounted components are surface mount. Excellent stuff.

Higher ground

When the Concentra made its début in my system I hadn't used a similarly-priced amp for some time. But I am no stranger to the rarefied air of the high end — I expected it to be good and I was not disappointed. In fact, over the first few days that it was in action, its impact on my music collection was pretty overwhelming. It didn't do it alone, though. Sonic foie-gras came courtesy of

Reviews Ed Sircom's SME Model 20A/SME V/Dynavector XX1 vinyl transcriptor, via Michell Iso phono-amp; and Acoustic Precision's Eikos CD player (HFC 165). Living Voice Auditorium speakers (HFC

At first I was struck by subtlety. It weighs a lot, but has the most delicate touch, and revels in nuances that previous amps have barely hinted at. Even the most familiar mate-

164) bathed in JR-modulated electricity.

rial offered up new insights into instrumentation and subtlety of composition: no doubt the Seismic-Sink-supported SME helped in this respect, but nonethe-

less these results were extraordinary considering the number of times I'd listened, and listened hard, to this material. The Concentra has almost

fractal resolution: as you listen deeper and deeper into the mix, the music remains coherent throughout. And all this without resorting to a bright balance.

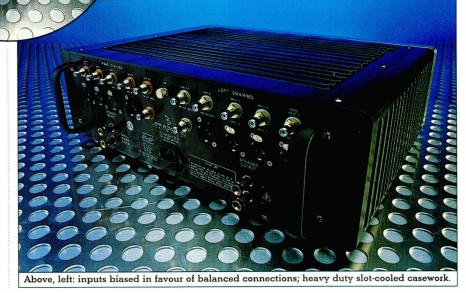
In listening terms, this means new insight into familiar material, and easier access to new or complex music. As Jimmy Hughes pointed out last month, a decent system will let you appreciate any type of music, whatever tradition it represents. With the Concentra in my set-up there were no styles barred. I wish only that I could have kept it longer, to check out more platters in my collection that I have yet to 'discover'.

Another strength of the Concentra is the way it will let you play quietly. Indicated attenuation in only the 50dB range was sufficient for regular volume levels, so there's plenty in store for those late-night sessions. You can crank down most amps, but when you do the life seeps from the music. With an amp like this, with a true grasp of dynamics, you can turn it down all the way and still appreciate the ebb and flow of music. Such qualities are less elusive in valve amps, but tubes don't have this sort of power on tap.

The Concentra certainly mixes it with the big boys. I took it up to Living Voice in Nottingham, to see how it fared against tube alternatives, and I suspect we drowned out the party next door. More surprising was the lack of paradigm shift when swapping to solid-state after listening to fine valve amps: no glare, grit or tonal greying. It's the first time I've made such a comparison and ended up with this impression.

There remains the question of whether 16 Amps' output current is sufficient for less amp-friendly speakers; but Craig Milnes of Wilson-benesch has reported excellent results with his ACT Ones, and they're not the easiest load by any means.

Jeff Rowland's Concentra disproves the diminishing returns theory; in this case, more is most certainly more. More costs more — but you don't get Ferraris for peanuts! ≜ Musical Design Company № (01992) 573030



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AUDIO RESEARCH CD2

Big and O

Alan Sircom reviews a new high-end CD player from over there which is set to do remarkably well over here...

igh-octane US CD players never used to equal home-brewed designs in our tests. But the CD1, from Audio Research Corporation (ARC) of Minnesota, rewrote the rules by gaining Recommended status in *HFC* 163. Now its replacement, the £4,100 CD2, looks likely to follow in the same footsteps.

Functionally, there is next to nothing to distinguish the CD2 from its predecessor, apart from slightly fewer buttons on the front panel. It has the same milled solid-aluminium facia, the same big display and drawer, and the same big, bold ARC styling. In fact, only the model number and a few minute cosmetic changes mark it out. Apparently there are differences to the remote control, but I did not have one to assess so I cannot comment.

Audio Research classes the CD2 as a CD transport-player, believing it to be equally adept as a dedicated CD transport and a single-box CD player. Rear panel sockets comprise coaxial (BNC), balanced AES/EBU (XLR) and Toslink optical-digital varieties. More up-market AT&T fibre-optic connections are available at extra cost. On the analogue side there are both single-ended (phono) and balanced (XLR) outputs. One difference from the US version is the presence of an IEC mains socket. Americans often prefer to use captive mains leads, and the Yanks use different colour-coding to us Euro-types. Certain countries look down their noses on captive mains leads, feeling them to be a potential safety hazard. The CE-marked CD2 neatly side-steps all of this most elegantly — if only other US companies followed suit.

ARC designates the player as both transport and player because of its CD-ROM transport mechanism, and proprietary control over mechanical resonance ARC has

claimed to exercise internally. As a consequence of these measures, they say, the CD2 suffers less jitter than both the CD1 and the CDT1 transport it replaces. On the digital side, according to ARC, the built-in decoder is a differential 20-bit Delta-Sigma type (see Lab Report for more details), hooked-up to a direct-coupled analogue output stage featuring both J-FET and bi-polar transistors, as well as regulated supplies.

How long does it take to run in a product such as this? For me, 36 hours seemed to strike a good balance between luxury and practicality. I used both balanced and single-ended outputs of the CD2 to feed a Meridian 502 preamplifier and 557 power amplifier, also referring to ARC's own VT100 valve power amp for good measure. Loudspeakers were Celestion A1s on Target R1 stands, while cables were the excellent Nordost Reference SBM single-ended interconnects and speaker cables, and Cable Talk balanced interconnects. As usual, everything rested on Mana stands and tables. For comparison purposes, I used a Meridian 508.20 CD player in both balanced and single-ended modes.

Sounding out new depths

Okay, so the new CD2 does not sound an order of magnitude better than the CD1, but it offers small, subtle enhancements that justify its existence completely. Most fortunately, sound quality has not been sacrificed simply to create this year's model; often we see sonic degradation between the original and the 'improved' version simply because it has been changed for change's sake. The CD2 is fortunate to retain most of the CD1's elegant and detailed sound quality.

The CD2's sonic skill lies in creating a depth of imagery that I thought had remained the premise of vinyl LP. Between the speakers appeared a hologram of the

performing musicians, allowing the Celestions to show off how they can portray layering and image depth. In particular, jazz cuts from the early days of stereo manifested a deeply enjoyable visceral presence.

Tonal colour, by which I mean the emphasis put on different parts of the musical scale, was accurate, seeming neither too warm nor too brash. This would be a perfect match for the classic ARC amplifier sound. If your system needs a sharp-sounding CD player to inject brightness into a warm-sounding system, or if it needs a ploddy, rhythmic-sounding player to add a touch of rhythm, the ARC player will not help you at all. On the other hand, if honesty is all you crave, the ARC is the ultimate truth-teller.

In common with all of the world's finest CD players, the ARC CD2 is an elusive beast for a reviewer to describe, because it draws so little attention to its character. The sound has a 'rightness' that makes listening a pleasure. Like its predecessor it errs on the syrupy side of natural, but at the same time it allows so much insight into a recording, I'd be churlish to criticise.

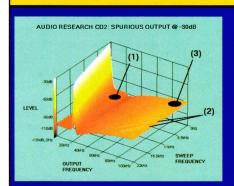
Inevitably this product will be compared with other members of the high-end club, such as the Meridian 508.20 and conradjohnson DR-1/D/A-2b combination. I would hesitate to elevate one above another, since they are the fruit of such disparate design priorities. The c-j duo is warm, highly musical and analogue-like; the Meridian is weighty, powerful and moody sounding; the ARC is best summed-up as accurate, and represents the best compromise of the three in many regards. I prefer the c-j approach, but really this is a question of taste.

If you own a CD1, don't rush to upgrade. But if you're buying CD and your priority is honesty, especially if you're an ARC user, the CD2 is an ideal first port of call. ≜ Absolute Sounds 2 (0181) 947 5047



AUDIO RESEARCH CD2 - LAB REPORT BY PAUL MILLER

Though it looks little changed from its predecessor, ARC's new CD machine is very different under the hood.



Audio Research CD2

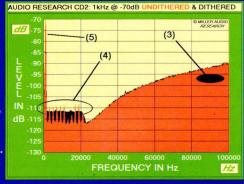
his new offering from Audio Research certainly looks like the older CD1 reviewed in issue 163. It even utilises a derivative of the latter's CDM12 mechanism, from Philips. The principal difference between this CD2 and the older CD1, it appears, is in its replacement of Philips' SAA7341 (the highly integrated 'player-on-a-chip') for one of Crystal's top-quality CS4329 bitstream converters.

This device is capable of a 20-bit

resolution; though in common with the Audiolab 8000CD and Meridian 508, the CD2 achieves a performance somewhere between 17 and 18bits with its 102dB Awtd S/N ratio. Distortion is 'controlled' by Audio Research's proprietary and entirely discrete analogue filter stage. There's a dominant 2nd harmonic at the peak 2.17V output, amounting to 0.016 per cent across the entire audioband and falling to an incredibly low 0.0045 per cent through the midband at -30dB. At this musically important level, any distortion is buried beneath noise (1), leaving a variety of spurious, high-order sampling images (2) to surf the wave of requantisation noise (3) released by the CS4329's noiseshapers.

Jitter is exceptionally low at 178psec, comprising some very low-rate patterns centred on 15Hz and, at higher frequency, a low-level data-induced pattern. The CD2's response is perfectly flat, low-level linearity is true to within +0.0/-

0.4dB limits and its handling of dithered signals is textbook (4). However, this plot showing a low-level 1kHz tone (5) also reminds us of its inherently high output of requantisation noise (3), ultrasonic 'hash' that can result in a slightly unpredictable performance with different amplifiers. As a consequence, the difference between good and merely average amps may become obvious with Audio Research's CD2 at the helm.



PIONEER PDR-04 STATEMENTS

Dib Dib Dib, Dub Dub Dub!

Jason Kennedy settles down to make some music compilations using the new Pioneer PDR-04 CD recorder. Home recording is taking a new turn...

iniDisc is without doubt a technological marvel that offers home recordists unparalleled ease of use and portability. But hard-core audiophiles will always harbour suspicions about its inherent psychoacoustic manipulation of any recorded signal. Furthermore, while many households have acquired CD players for portable and in-car use, few have invested in the new breed of MD hardware. An affordable, recordable CD system has long been the Holy Grail for those who like to make up their own compilations of favourite CDs. (For those who would make their own recordings of music performed live, DAT is probably still the format to beat.)

Until now the cost of entry to CD recording has been in four figures. When Pioneer's PDR-05 CD recorder was introduced in 1995 (see review, HFC 148), it carried a £1,300 price-tag. Currency fluctuations have since reduced its price to £1,000, but a CD transcriber for £699.95 is definitely big news — and that's exactly what Pioneer has supplied in the guise of the PDR-04, as showcased in our Las Vegas WCES show report (HFC 164). Even this headline has been somewhat overshadowed by Philips' announcement of the £500 CDR870, which will make both one-shot CD-R and rewritable CD-RW discs — though at present, unlike the former, the latter are incompatible with ordinary CD players. Also, CD-RW discs cost over £20, while domestic CD-R blanks cost £9 for 74 minutes or £8 for 60 minutes. The hot tip at the IFA show in Berlin (report, p15) is that blank CD-Rs will soon cost less than £2.

The PDR-04 and the '05 differ mainly in recording facilities and internal component quality. The '05 features Pioneer's Legato Link S digital filter, with dual DACs and a sampling-rate converter to record DAT. The



'04 has a more down-to-earth DAC and less customisable recording controls. It's probably easier to use, but the keen home recordist will probably favour the '05. Those of us only making compilations from CD or LP will find the '04 more than satisfactory.

This is the first CD recorder I've used, and the prospect of needing to get everything right first time (it's a write-once disc after all) was disconcerting. Once those precious minutes have been used there's no getting them back! My concerns were wholly unfounded, however, as the recording process is very simple. Recording via a digital interconnect from another CD player requires three or four button-presses: the recorder automatically gets going when it 'hears' the signal come down the line. Levels are set automatically and you can burn in one track at a time or all of them in one go — I soon felt comfortable hitting the record-all button and skipping tracks on the source CD player to get the desired selection. The 117page, four-language manual seems daunting at first, but it explains clearly even rarelyused actions like manual track numbering.

Here's one I burned earlier...

The PDR-04 was straightforward in use, but there were two anomalies: it refused to lock onto the output of a Trichord Pulsemaster jitter buster, and it emitted a strange shriek when entering record-pause mode.

On the finished recordings I was surprised at the difference in signal levels between tracks from different source CDs. The recording level of direct-digital dubs is set automatically by the operating software, but actual digital signal level does vary between CDs.

The sound quality of recordings was impressive. When CD-R first appeared there was surprise at the way recordings from some CD players sounded better than the originals. This was discussed in detail in *HFC* 148. Suffice to say that the PDR-04 creates recordings with all the bandwidth, dynamics and subtleties of the originals. I'm sure die-hards will be keen to assess whether the '04 is equally transparent to digital feeds from alternative sources.

As a CD player the PDR-04 is a smooth operator in the Pioneer-Japan style. It's as clean as a whistle and just a little relaxed for British tastes, unlike the UK-revised CD player and amp in the company's Precision range, which would take it to the cleaners.

Is it possible for a £700 product to put CD-R on the map? Time and the market alone can tell. All I can say is that the Pioneer PDR-04 is the slickest way I've ever made up superb-quality compilations for cars and parties. It knocks cassette tape for six in the coolness stakes. What more could you want?

Pioneer High Fidelity (GB) Ltd (01753) 789 500

44 NOVEMBER 1997 HI-FI CHOICE

WHAT HI-FI MAGAZINE
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YEARS IN A ROW.
(THIS IS NOT A QUESTION.)

In fact, it's an answer. An answer to the 'What make of separates do I buy?' question. Sony have been given five stars for their sets of separates by WHAT HI-FI? year in, year out and year in again. That includes the 1997 'Best Buy' for their MDS-JE510 Mini-Disc and 'Best Buy' for their ST-SE500 tuner. So, which one do you buy first? (This is a question.)





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REVIEWS

Acurus ACD11

Aeon Acoustics Linear

AMC 3025a

Have you ever wondered...

- 1 Which is the most expensive amplifier in the World?
- 2 How many drive units in the Mission 753 Freedom?
- 3 What is the name of Benz-Micro's most expensive cartridge?
- 4 What is the best CD player for £350 or under?

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3. One of the best-value CD players priced below £350 is the Cambridge Audio CD45E, which received an HFC Best Buy in issue 163. We'll assess the latest crop budget CDs in our December 1997 issue.

WHAT HI-FI's 5-star ratings make buying a CD player less complicated. Choose from the CDP-XE310, CDP-XE510, CDP-XE900E or CDP-XA20ES.

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Query of the month



Last link in the chain

My old system consisted of a Marantz CD-46 CD player, NAD 310 amp and B&W DM302 speakers using Cable Talk 3.1 and Cambridge Atlantic interconnects. I'm in the process of upgrading my system and have recently bought TDL RTL3 floorstander speakers, and have changed the CD player to a Marantz CD-67SE, but I have not decided on the amplifier. What do you think of the following options: Audiolab 8000A, Musical Fidelity E10, Arcam Alpha 8 or Magnum IA-170? My budget is around £350 to £500.

Eric Lee, Portsmouth

Presumably you listened to a few amps when you got the CD player and speakers; did none of those strike a chord? Of the options you have shortlisted we would expect the Magnum to provide the most lively response and the Audiolab to give a good even result; listen to both and see what you think. Given that the RTLs are nice and efficient we would also suggest you hear the Pioneer A-300R Precision which offers good resolution and is very coherent.

Use the force

My current system consists of a Marantz CD-63 CD player, Harman Kardon PM635 integrated amplifier and B&W DM603 speakers. I use Kimber Kable Silver Streak interconnects and Cable Talk 3 biwire speaker cables.

I am satisfied with the treble which comes across as sweet and clear, but the bass is lifeless. I plan to change my amplifier and would appreciate your advice on selecting one that would complement the rest of my system, and produce more forceful bass without compromising treble quality. I have a budget of £500 and listen to all types of music.

I intend also to upgrade my CD player in the near future. I am considering two options: complementing my Marantz with a DAC like the Cambridge Audio DACmagic 2 mkII, or purchasing a new CD player costing up to £350. Which would you recommend? Thomas Peries via the Internet

Untamed extremities

My current system comprises Mission DCD4000, Manticore Mantra/RB250/Roksan Corus Blue, Naim 72/140, Heybrook HB1s on Atacama SE20s with Naim cabling. I know the system is a little unbalanced at the moment, the pre/power amp being a recent upgrade from an old A60.

I am reasonably happy with the sound from the vinyl source. My library is, however, rapidly becoming CD-dominated and here is where the problem lies. The sound is very dynamic, but the extremes are rough and the overall sound isn't even close to the sweetness of my vinyl front-end. The dilemma is: do I retain the DCD4000 and use a separate DAC (on a budget of, say, £400), with the option to upgrade the transport later; or wait a while and replace the CD player (with the budget around £1,200); or is the real root of the problem the untamed extremities of the HB1s? Kevin Toon, St Lawrence, Essex

While the HB1s are not the most refined speakers in the world, your observations about the results with vinyl would suggest that they are capable enough. So a new front end is probably the answer. We'd suggest you go the whole hog and get a new player; the Mission is beginning to look a bit long in the tooth now and could be improved upon with the budget you suggest for a DAC alone. However, spending a bit more should ensure many years of listening pleasure, so go and listen to an Acurus ACD11, a Cyrus dAD3Q, a Myryad MC100 or a Pioneer PD-S505 Precision. Any of those will do the trick.



The low frequency shortfall you are experiencing is most likely caused by the speakers, but you are going to need to spend more than £500 to get a speaker with the 603's qualities and serious bass. One solution would be to get a decent subwoofer by way of reinforcement; we would suggest the Strata II from the respected REL range as a good source of hi-fi quality grunt.

Regarding the CD source, I would try to save a little longer and upgrade to something serious like a Pioneer PD-S505 Precision, Kenwood DP-7090 or Sony CDP-X3000ES.

Trash metal madness

My current system consists of Audiolab 8000C/P amps, 8000CDM/DAC transport and DAC, Nakamichi DR3 tape deck and Acoustic Energy AE1 speakers. I listen to a wide variety of music, from classical to dance and trash metal. I would like to hear some ideas on how I could upgrade my system, with a maximum of £2,500 to spend. Should I go for the Audiolab 8000Q/M set-up, or switch to the Aura pre/power combination? Or, should I opt for a change in speakers? They have to be bookshelf models, due to room constraints.

Colin Matthew Chan via the Internet

This is a pretty broad question, and the solution will really depend on your tastes. We would suggest you listen to some complete system solutions as well as the amps suggested, bearing in mind that Audiolab has recently updated its power amp range. Alternatively, hear the AVI S2000MC/MI CD player/integrated amp combo with the new Acoustic Precision Eikos FR1 speakers (to be reviewed next month). It would also be instructive to try out the Marantz CD-17 KI Signature with the Aura pre/power; we got excellent results with this pairing and Tannoy Definition D100 speakers.



Under heavy manners

I have an old German integrated amp (50W MOSFET), and Celestion Impact 20 speakers. I listen to all kinds of music, and I like the way it sounds, until I play something with very deep and complex bass (for example *Breathe* or *Firestarter* by the Prodigy) at high volume. Then the bass is distorted, losing its weight and precision.

Listening to old JBL 4311B Control Monitors in my room with the same cables to the same amp was a new experience. They offer clear, confident and fast sound with enough depth, even using the minimum of amplification. They are also capable of real volume, and the sound stays clear and consistent if a bit sharp, like horns. The only thing I do not like about them is that they sound darker than the Celestions.

Which of these speakers — JBL TLX 171, Jamo BX150A, Jamo D365D, TDL RTL3, Tannoy 635, Cerwin Vega VS10, Infinity SM125 or alternatives up to £500 — could also handle bass with my amp, like the JBLs, but without sounding dark? I do not want to lose any loudness if possible.

Jasenko Samardzic, Osijek, Croatia

The old JBLs sound quite good and I suspect you are going to have difficulty improving on them in all respects with the budget you have. However, the Tannoys and TDLs you mention alongside DALI 104B might be the ticket. We don't know the JBL TLX171s but they might also be worth a try.

Hierarchies in hell

Currently I am in the process of selecting an all-new CD/amp/speaker system for around £2,000 (excluding cables, accessories etc). Although my knowledge of the market is reasonable I am becoming confused about how much to spend on each component.

Whatever happened to the 'system hierarchy' concept that used to be preached by all and sundry? I am referring of course to the 'rubbish in/rubbish out' theory. Regularly now we see suggestions for sub-£500 CD players (mostly Marantz-based) being partnered with amps and speakers of higher value. Does CD rewrite the rules or was the industry talking rubbish for all those years?

I want a one-make CD/amp combination (for aesthetic reasons) and well-finished, reasonably compact floorstanding speakers. The current shortlist includes electronics like Naim CD3/Nait 3 and Cyrus dAD3Q/SL, but would it make sense to go for a cheaper CD player like the Marantz KI Signature with a better amplifier set-up? Or should I go for a more expensive CD player, say at the £1,300 level, with cheaper amp and speakers?

A fast, detailed, clean and easy-to-live-with sound is my objective. *Philip Hudson, Burnham, Buckinghamshire*

In short, yes, CD has upset the old equation. But only to the extent that you don't have to spend as much to get a relatively decent CD source as you did a turntable. The source still rules, but the chain is only as strong as its weakest link, and these days it's easier to build inexpensive CD players and amps than loudspeakers. So spend a bit more at the end of the chain for a change.

Try a Pioneer Precision amp and CD with the new Kelly KT3s or Castle Harlechs; compare that with the Naim kit you mention partnering a pair of Neat Mystiques, and the Cyrus pair with some Mission 752 or 753 Freedoms.

Hi-fi's rich pageant

My system now comprises Harman/Kardon HK6950R amplifier, Harman/Kardon HD7725 CD player and KEF Model Three speakers. Interconnect is Audioquest Quartz but will soon be SonicLink Vermilion. Speaker cable is Audioquest Forest.

I've got an idea that the sound I'm listening to now could be more detailed and richer, and am trying to achieve this by replacing my CD player with a Duson CD100 or Marantz CD-17 KI. I've read some excellent reviews of the Marantz, but nothing about the Duson. Is this because it's not for sale in England? I've heard the Duson and think it would be a good upgrade for my system. What other products can you recommend?

Emile van Diermen, Netherlands

You're right, the Duson isn't distributed in the UK; so we haven't seen one let alone heard one. The Marantz does indeed seem to be a nice player, so if the Duson is better then it's probably a good choice.

While you're listening to CD players, have a go with a few amps as well. I suspect an improvement in this department will be required before you're able to appreciate a new CD player. Check out the Densen Beat B-100, Roksan Caspian and Musical Fidelity X-PRE/XA*50 combo for a bit of entertainment.

Roksan Caspian

A £900 CD player that should add an element of aural excitement to your system.



▼ Upgrade in order

My current system comprises Arcam Delta 170.3/Black Box 50 CD player, Alpha 9 amplifier (on Mana tables) and Mordaunt-Short MS30 loudspeakers, linked with van den Hul The First digital, Linn analogue interconnects and K400 bi-wire. All components live in a medium-sized room with a high ceiling.

At present the sound is a bit shut-in and coloured, and I'm looking for a more relaxing presentation, with natural soundstaging, dynamics and musicality. I suspect a loudspeaker upgrade is in order, but which models should I be looking at, bearing in mind I shall be upgrading my amplification with an Alpha 9P in due course?

Mark Bowers, Macclesfield

PMC TB1s A good solid upgrade for £410 listening.

Your present set-up seems quite well balanced, but yes, better speakers would be the next sensible step —

> yet how much can you spend? We'll assume you've got about £500 as a starter and suggest you listen to some . В&W DM603s. DALI 104Bs and PMC TB1s. All three will serve you through an upgrade of amplification and source and provide a lifetime of relaxed

Full house

Thank you for a fine and consistent magazine. I would be grateful for some fine-tuning tips for my system, which is as follows: Trichord Genesis CD player, Musical Fidelity E200/300 amps, Epos ES14 speakers on dedicated stands, Rega Planar 3 with Elvs. Yamaha KX390 tape deck and Yamaha TX480 tuner. Cable is LAT 100 and Silver-Pink with Chord (Nordost) Flatline Gold made up as a bi-wire pair. I wire my Grundig VCR into the aux socket. The preamp is fitted with the optional phono stage. I realise that the amp is not particularly well rated, but part exchange and discount were the name of the game. Selling an old Tandberg receiver gave me a pre/power for £500!

Here are some of my options: RATA suggests a mains cable change to the amps and CD; it will also do unspecified mods to the amps for about £250 each. A second E300 is available from Richer Sounds for £500. Does the M/F CD buffer stage work well with the Trichord? I think the biggest potential improvement may come from changing my stands. New ones have to be Mana, even if I can't afford them and don't understand how they work! RD Steel, Christchurch, Dorset

You seem to know what you're doing so we'll cut to the chase. Russ Andrews' RATA mods are generally very good, and mains cable upgrades are always helpful. If you got another E300 to biamp with, you'd have to have Russ lay his hands on that as well which makes it quite expensive, possibly a little too much so given the potential gains. There's no reason for the E200's CD buffer to be unsuitable for the Genesis; its output is electrically just like any other CD player. And yes, some Mana will probably do more than any of these tweaks — get some platforms for the speaker stands as well.

No problem!

I have the following system: Marantz CD-63 mk II KI Signature CD player and Marantz ST53 tuner sources connected through Audioquest Indigo cable to DPA 200S pre and power amplifiers. Interconnect is DPA Slink Two Kimber 8TC speaker cable feeding ProAc Tablette 50 loudspeakers on Goldring MBS stands. This system is in a small and narrow room (16x9 feet). Due to the particular room shape, speaker positioning is very difficult, but apart from a lack of bass, the system sounds good.

Do you have any suggestions or comments concerning this set-up? My budget is very tight at the moment. Jorge Fernandes, Portugal

Well, there are a couple of things that might help here. Specifically stands: replace the Goldrings with some Kudos S100 speaker stands and put the source and amps on a decent support such as a Quadraspire, Townshend or Mana. Both actions will enhance performance and bass extension.

Progressing along the path

My old system consisted of Cyrus 781 speakers, a Philips 920 CD player and a home-upgraded QED Digit DAC with two Positron power supplies, and a Pioneer A-400 amplifier. I was always impressed by the energy and attention-grabbing sound it produced, especially after making Digit modifications to the QED, but it always seemed to suffer from a ragged treble and unsubstantiated suggestions of a growling bass.

So the upgrading started: the speakers turned into KEF Q35s, which changed the balance but not much else. Then I changed the CD player to a Pioneer PD-S904, which smoothed out the treble and steadied bass lines, but it was as if all the midband had been sucked out, and the lead guitarist and drummer had been sent behind the sound-proof window in the recording studio. Things got better when I bought an Audiolab 8000S amplifier and put my converted DAC onto the digital output of the PD-S904 — wow, what a change! All the life came back with betterbehaved top end and bass.

So I get to my question: would it be worth spending between £500 and £1,000 on a more modern DAC, or should I get a new CD player? Room size: 14' x 14'. Musical tastes: Beethoven to Deep Purple.

Connectors: QED digital, Cable Talk 3 and Cable Talk Monitor 2. Julian Dortort, Reading, Berks

PS: Why don't you change your Compuserve e-mail address to an alias like HiFiChoice@compuserve.com? It would be a lot easier to remember.

Last things first: changes are afoot and all our e-mail Ideal for turbo-charging with Trichord tweaks. addresses will be updated to reflect each of our features within the next few months. As for your system, if you want to upgrade the front end, look at a player or transport rather than another DAC. One cost-efficient (and potentially most rewarding) option would be to have Trichord go to work on your PD-S904. Get the company to put in the Clock, power supply and digital output board plus

any other tweaks that are appropriate. This should transform what is essentially a fine player into a killer transport.

Pioneer PD-S904

() PIONEER

Classic combinations

My system currently comprises an LP12 on a Target wallbracket, with Pink Link power supply, Naim ARO and Dynavector XX-1L, Naim NAC72. FLAT CAP, NAP140, Rotel RCD-865, and Mordaunt-Short MS10s on Target stands wired with Rotel Supra cable.

I am looking to upgrade my system and

have a budget of £2,500. My speakers and CD player are obviously the weak links but as I hardly ever listen to CDs I am loath to spend money on a new player.

Regas offer a solid

alternative to Naim speakers.

To improve the system, should I spend most of the budget on speakers such as SBLs, or choose cheaper speakers and upgrade other parts of my system at the same time, for example with Hi-Cap, Prefix, and Credo speakers?

Also, the sound from the system appears to be unbalanced as the left channel is clear while the right channel

CS Matley, via the Internet

sounds dull with little treble information.

The lack of balance in the system sounds like a fault, and an instant upgrade could be had by getting it fixed — consult your dealer. As for your next step up the ladder, speakers seem the obvious choice, and if you like the Naim sound then the SBLs would be a good place to start. It might be informative to listen to some other options before parting with the readies. The Totem Model One, Rega XEL and Epos ES14 would all gel with your system and offer an alternative to the Naim theme. You should also get some serious equipment supports and cable. In a system like yours the preferred choice would be Mana and Naim NACA5.

Neighbours!

I have a rather old system comprising a pair of IMF ALS30 speakers, a Luxman L30 amplifier and a Sony CPD-502ES CD player. I plan to upgrade slowly initially by buying a pair of Monitor Audio Studio 20SEs, followed by the Krell KAV-300i and possibly the KA-300CD. But would it be more sensible to keep the Sony and add a DAC? My listening room is large but unfortunately the locals are not deaf!

Neale Watson, via the Internet

Not an easy one, this. Your system is made up of decent old gear, but it may be tricky getting it to work well with modern kit. A couple of years back, your Sony had something of a revival due to its remarkable response to the Trichord Clock 2 upgrade, which made it into a first-class transport.

However, it's probably time for a change and we would suggest that a bit of field-work is in order. Go out to a few dealers and listen to what they can do; with your apparent budget this should be quite an entertaining process and an education to boot. The system you mention looks pretty good but you won't know until you compare it with a couple of others. Finally, make a point to listen quietly in the dem room — it sounds like you'll have to at home!

It's cold out here

I currently have an Audiolab 8000A amplifier, Marantz CD-63 KI- Signature CD player, Sony STS-A3ES tuner, Sony MDS-JE500 MD recorder and Acoustic Energy AE109 speakers, with Nordost Black Night interconnect for CD, XLO Type150 for MD and shotgunned Nordost Flatline Gold speaker cables.

Although my system has speed, clarity and control, I find it lacks warmth. I have already planned to upgrade my amplifier to the Audiolab 8000Q/P. Will changing the interconnect bring more warmth but retain clarity? What interconnect would you recommend for my future 8000Q/P set-up? Will adding a separate DAC add warmth? If yes, what budget DAC do you recommend? I am also planning to upgrade my speakers some time next year. I have a budget of up to £700. What speakers would bring more warmth but keep the clarity and bass of the AE109s?

Christopher Tan, via the Internet

Not cosy enough for you, perchance. You may find that more sympathetic cables could do a lot of good; try a warmer interconnect such as Ixos 103 or van den Hul Source. If one of those seems to be helping, then try a mellow speaker cable such as Audioquest F-14.

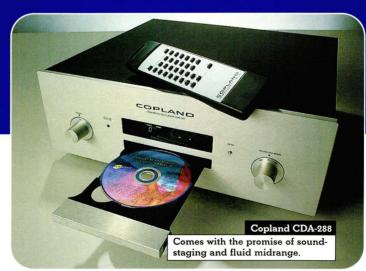
Further fine-tuning will also help (you do leave your amp and CD player switched on permanently, I hope). Stick a Townshend Seismic Sink under both amps and CD player and some RF clamps on your mains cables. Tweak some heat into the system, then worry about upgrading.

The c-j challenge

Your help is badly needed. I recently purchased a pair of Vandersteen 2Ce speakers to go with my conrad-johnson PF2L preamp and MF2100 power amp, partnered with a JVC XL-Z441TN CD. As it is the sound is dry, too laid back with a forward midrange, limited transparency and imaging, and bass is just not powerful enough. I am planning to buy a new CD player, possibly the conrad-johnson DV-2B CD player, but I am open to suggestions. I am looking for transparency and detail, a very good soundstage, three dimensionality, open and fluid midrange, and last but not least deep, powerful and tuneful bass (not exaggerated). I listen to dance music, female vocal, new age, jazz, and rock music. My budget for the CD player is up to US\$2,800. Primerose P. Sanchez, via the Internet

What a weird system; it's no surprise you're looking for a new CD player! The question is ,what can you get for 2.8 kilobucks? In real money that's £1,750, enough for something rather special like a Copland, Audio Research or even a

Wadia (depending on how much they go for in your country). Then there's the c-j you mention. You'll need to find a dealer who stocks your amps and speakers and have them play you a few options; all of the players above are capable of good results but more than likely one will fit in with your set-up better than the others. Go forth and listen!



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A convenient system!

Quite a few years back, I purchased an Audio Innovations 300 integrated valve amp on your Recommendation. I would like to say that this amp left a wonderful impression on me — I loved it — but I got rid it because I wasn't able to leave it on all the time. Teamed with a pair of ProAc Super Tablettes and a Linn Sondek it made the best system that I have owned (though a little more bass was desirable). But for convenience, I've now got a Parasound HD-650 amp, a pair of Mirage 360 speakers and a Denon CD player.

When finances are available, I'd like to upgrade one of the components. I am not sure if I should upgrade the amp or the speakers. Could you tell me what is currently available in terms of integrated Class A amps, and would you recommend picking up a second-hand Musical Fidelity A100? Or should I be considering a speaker upgrade? In a way, I am content with what I have, but I would like a change.

Henry Leong via the Internet

UK so we're a little in the dark as to how to advise you. It's tempting to say get your old system back and live with some warm-up time, but I guess it's too late. As it is you'll have to do a bit of listening in order to assess which component to change. On the other hand, if you like it as it is, why not spend some money on first-class stands, of Kimber Kable will perk up the sound no end. Check out our Directory (page 122) for specific product recommendations.



The hi-fi system equivalent of tonic wine.

NTS & TIP

BASS: HOW LOW CAN YOU GO?

Jimmy Hughes provides some helpful pointers for budding subwoofer owners

ome months back, a friend added a REL Q-100E subwoofer to his system, and very pleased with it he was too. Alas, like most of us he was pushed for space, and the REL occupied the centre spot where an equipment rack had been. So he decided to build a cabinet around the sub, to support his TV and video recorder.

Naturally, he was concerned that slightly enclosing the REL would adversely affect its sound, although the cabinet did not

Bionic bass

Your subwoofer may benefit from a degree of enclosure... impede the back or the front of the sub, only the sides and top. Even so, when first he listened to it, his fears seemed to be justified.

The bass was heavier and louder, making it more dominant and less integrated. The low frequencies were less controlled and too powerful. Luckily, correction was possible by reducing the sub's volume level. This done, the bass actually seemed to improve, sounding more focused and slightly deeper, with cleaner pitch definition and better integration with the main speaker system.

The equipment support cabinet acted as a bass reinforcement device, narrowing dispersion, which helps concentrate and focus the low frequencies. It's a little like using a reflector around a light bulb to give a more intense beam.

Because the sub's output level has been reduced, it's actually working less hard and is thus under less strain. So there's reduced cabinet resonance, and I guess it's this that makes the bass sound cleaner.

At home, I have two of the old Q-Bass subs (now replaced by the Q-50) and I use them reversed, fairly close to a rear wall to reinforce the bass. But I've also put a thin cardboard 'collar', some three inches deep, around the circumference of the bass units to narrow dispersion. This helps focus the bass more precisely, and stops it spreading.

Just play the sub(s) on their own, and see to how clearly you can hear low-frequency melodies. If the low frequencies sound shapeless and soggy there's something wrong; any change that gives more shape and articulation to the notes will almost certainly be judged a big improvement when you get the complete system going.

Of course, there is a danger that by enclosing the sub you'll create a strong resonant mode, leading to excessive bass output at particular frequencies. This will make the bass response uneven and inclined to boom on certain notes. However, problems like this are only likely to occur when the sub is excessively enclosed on three sides — say, put at the back of a very deep cabinet.

A moderate degree of enclosure will not do this and should usefully load the bass driver, solidifying and enhancing low frequency performance, as well as helping to improve focus. Bass may not be as obviously directional as the middle and high frequencies, but it does need to be focused; too wide a dispersion can lead to vague ill-defined lows.

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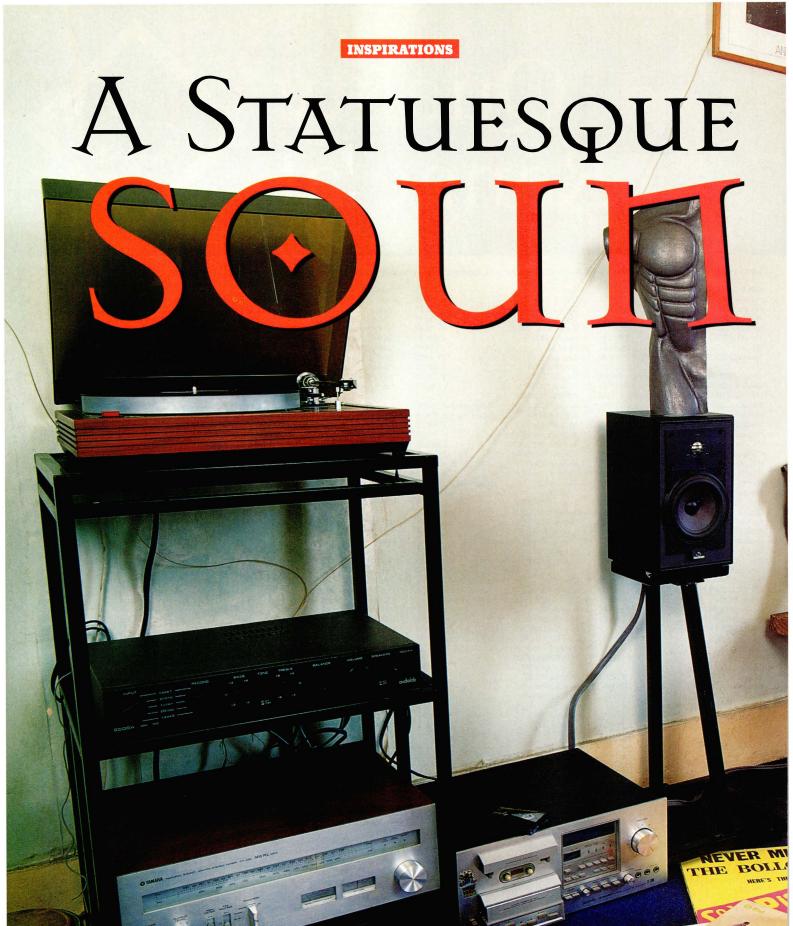
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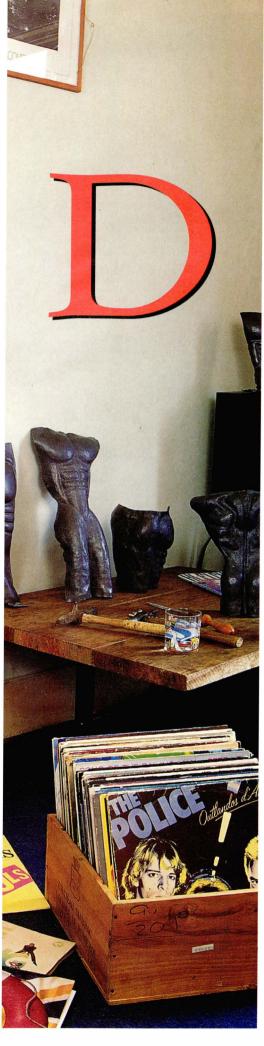
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58 NOVEMBER 1997 HI-FI CHOICE

Chico Tardetti's system may not seem conventional, but it is the result of an extended hi-fi odyssey.



Ever worried that you can't afford a great system? Phil Strongman visits a sculptor whose hi-fi rig's a cost-effective second-hand bargain.

culptor Chico Tardetti, the man behind this month's Inspirational system, had a baptism of fire on the hi-fi front. He refused to do national service in his native Italy. leading to the cancellation of numerous exhibitions and art commissions, and causing him to lose power of attorney over his family home. That meant he arrived in the UK almost penniless, forcing him to make a living from his other great passion — hi-fi. For over a year, when he wasn't hammering out post-modern sculptures from lead or steel, Chico was buying publications like Loot a day early and scouring them for hi-fi bargains that could be bought and then sold. Later, when luck improved, increased wealth gave him an excuse to hang on to some of the finer audio pieces he'd found. All a far cry from his first system, assembled at the age of 12 in his native Pompeii. That comprised a transformer, a car stereo and dashboard speakers. "It sounded awful," says Chico. "It could clear a room in seconds, like a fire alarm!"

Chico kept trying new combinations of budget hi-fi. His quest gained impetus from several bizarre sources, including a neighbour who was into black magic. "He was a clever man in some ways, although he

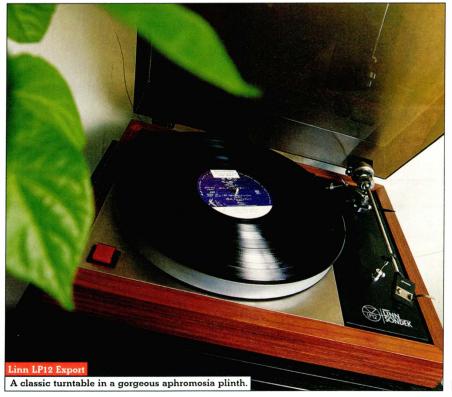
ended up killing himself, but whenever I went round there he never had any music on. There was always an eerie silence in his house... it made me appreciate musical sound a lot more."

A short history of hi-fi

Through a roundabout route, a rapid succession of Aiwa separates led Chico to a discovery — and love — of UK turntables. "British decks are the ultimate. The Aiwa stuff always sounded so much better with a British deck at the top."

A fling with a Connoisseur BD motor unit, with hand-built plinth and a Linn Basik arm, came to an end in 1993 after former affairs with various "budget turntables too numerous to mention". The new apple of his ear was a Rega Planar 3 complete with RB300 arm and Linn K9 cartridge.

At first, the Rega rig was hooked up to a Marantz PM-64 feeding a pair of Wharfdale Diamonds. "The Diamonds sounded strong at first, but after a few hours they tended to be too bass heavy, too compressed for my ears. They were replaced by some Gale 401s that were okay, but convinced me I'd have to spend a lot more money to get the sound I wanted from a big speaker. So I did invest, briefly, in a Meridian active system





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with an M1 control amp. They were these huge wedge-shaped speakers with their own individual amps under them. The amps were linked up to a Pink Triangle Little Pink preamp, and the only control was volume. It could go ridiculously loud without cracking up. A friend of mine had just been to see the Stones and he insisted on playing their Too Tough track with the gain near maximum. I was in a really solid three-storey house back then, but the foundations still seemed to shake. You could actually feel the floor move, but there was no distortion. My friend was stunned. He kept saying afterwards: 'My God, it's louder than the gig! It's louder than the gig!"

The Linn-man of the county

They were fine pieces of hi-fi, but the Meridians' ungainly, leatherette-clad form did not have much aesthetic appeal for a man whose forte is the visual arts. "Their pointed tops meant I couldn't even keep any of my sculptures on them," jokes Chico. "But despite their good dynamics, the Meridians sounded a bit nasal, to tell you the truth... a couple of months with them convinced me that sheer power wasn't necessarily the answer. My lounge is about 16 foot by 10 in size, so I decided that my next speakers would have to be smaller. But first I replaced the deck with a Linn."

And not any old Linn either, but the rare Sondek LP12 Export with its superb aphromosia wood surround, nearly twenty years old and still on fine form. "I totally fell in love with it. It was, is, beautiful. The colour and grooving of the wood and the sheer simplicity of its base... amazing... I got it in a swap for the Rega and the very next week a Japanese hi-fi dealer offered me a thousand pounds cash for it, but I couldn't sell it. The minute I laid eyes on it I thought I might keep it and once I'd heard it play, that decided it. I had to have it. It is just so fast... I play a lot of rock, r'n'b, stuff like that, and you need a fairly speedy deck to handle it. With the Linn you get that speed, plus it handles mid-band superbly, and it always gives you full, well-rounded notes and a good clear soundstage.

"I play the odd classical disc sometimes and they come out strongly too. Also the LP12 is well-insulated and well-isolated, which I need, since I've always lived in downtown areas. Where I am now, there are lorries or buses rumbling by. The Linn, and

the Target stand it's on, just soak up all of that. Some people customise them but I won't touch it. I could have put in a new power supply and stuff like that, but no... you don't mess around with an old classic. If it ain't broke, don't fix it, as they say. (Not sure whether Linn's marketing department would agree — Ed) I suppose it helps that the arm is a Grace G707 and the cartridge a Supex 900. "

Little boxes by the fireside

As all of us should know by now, a strong front-end alone does not guarantee sonic purity. Amps, speakers and cables all play a part — but the immediate problem was to fill the void left by the departed Meridians. "I'd heard some Celestion Threes, and liked them, but I wasn't sure if they could sustain the sound at higher levels. After all, they were only about £140 new — not that price is always a guide. I linked them up with some Linn K20 speaker cable and they sounded great. They can fill the room, but even when they're cranked up they never



sound oppressive; they're always very neutral and uncoloured."

Visually they're less intrusive — and of course their small black MDF boxes are ideal supports for Chico's smaller sculptures. "Though I always take artwork off them before I use them. I take the speaker grilles off too and I always try and switch equipment on a few hours early. Especially the Sondek and the Audiolab — they give you a lot more when they're warmed up."

The Audiolab is an 8000A integrated amp, again a bargain rescued from the hi-fi jungle. "Some DJ had received it as a present, but he hadn't even unpacked it; he wasn't really interested in it at all. He'd just bought a little mixing desk with built-in amp instead. So I offered him fifty pounds cash and he jumped at it. I'd had NADs before that, a 302E for a long time, but in comparison with the Audiolab they sound a bit hissy. The NAD's bottom end tended to boom slightly too, which some rock people like, but it's not something I go for. The Audiolab has a palpable soundstage and it manages to project a full, weighty bass, but not in an overpowering way... the lower end doesn't fall out of the speaker and splodge on the floor, which is the bass vibe some amps create."

The tuner is a large, ancient but smooth Yamaha CT-1010 which has great signal clarity and a smoothly weighted steel hunk of a tuner dial. "Just feel that, it's designed to fit the hand... it's a pleasure to tune in with that". It was one of the very first tuners to have the MPX filter system.

Mr. T's hi-fi is completed by a Pioneer CT-F900 cassette deck, purchased after he'd auditioned several Nakimichis. "They were all somewhat lightweight with the exception of their Dragon, of course; but I couldn't find a Dragon at the right price."

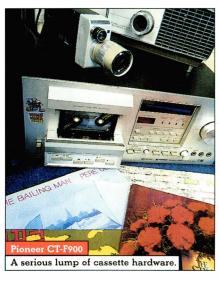
Living by numbers?

Van den Hul interconnects link up everything. but as yet do not make contact with a CD player. "I did have a Marantz CD-99 for a time, but for me it just wasn't the same as using the Linn. There just wasn't the crispness you get with vinyl. I might be tempted back into the field if I heard the right machine. Some of the DACs I've heard do improve sound, but the jury's still out on that one as far as I'm concerned. Besides, with things sounding the way they do now, I'm in no real hurry to change. Some systems would only last me a few weeks before I swapped components, but this one I've had for nearly three years. As far as I'm concerned, of all the combinations I've tried, this is the best one - for me."

And you can see his point; or rather, you can hear it. For this is a system to experience, especially for those who love their rock with a bit of pace and depth. Lou Reed's Kicks for example, from his 1976 Coney Island Baby album, sounds incredibly lifelike through it. When the musicians chat across the music, during the solo, you actually look around the room to see who's talking. Phil Collins' In The Air Tonight, with its spectacular drum opening, also gets a nearperfect showcase.

Signor Tardetti's system is a testament to what can be achieved in the second-hand market with only a few hundred pounds, a sharp eye and a bit of experience. Let's rock...

Chico Tardetti's work can be seen at 20th Century Design Classics, The Stables, Chalk Farm Road, London NW1



DOUBLE VISION

Can today's twin cassette decks challenge the sound quality of uniquelyendowed brethren? **Alvin Gold** (listening) and **Paul Miller** (lab test) find out.

here is one over-riding goal for cassette-deck reviews in *Hi-Fi Choice:* what do they sound like? Experience has taught us that when sound quality is the primary consideration, there is only one manufacturing paradigm: the single-transport, uni-directional deck. However, to think this way is to ignore the fact that numerous cassette-deck buyers are at least as interested in convenience features as they are in sound quality. And many single-transport cassette decks have very limited functions.

Let's think a little more closely about the kind of features offered by a twin-mechanism cassette recorder. It offers the apparently useful service of dumping the contents of one tape directly onto another, which seems like a good idea until you start wondering why you might want the (inevitably slightly inferior) copy. An auto-reverse facility can also deliver one from the tyranny of a C90's 45-minute tape side; with twin recording decks three hours becomes the maximum duration for unattended recordings, assuming C90s are used.

There have been no-compromise autoreverse decks in the past, notably from Nakamichi, and from time to time there have even been stabs at making low-compromise twin-cassette decks. These have always proved controversial, not least because the music business sees them as an incitement to blatant piracy.

Some cassette decks are offered on the premise of high sound quality; Yamaha's 'UK-tweaked' KX-580SE is a case in point. Inevitably, though, they will never equal most CD players. Even if they did, they'd still be at the mercy of the pre-recorded cassette industry, which, though it will protest to the contrary, has never taken on board the quality message. But at least 'audiophile' cassette decks profess to do something useful for their livings.

The question remains: has the twinmech cassette deck evolved to the point where it can offer a convincing blend of convenience and sound quality? Therein lies the objective of this test.

What we set out to do

We assembled five twin-mech cassette decks of a price that should indicate at least presentable sound quality; and pitted them against a similarly-priced, single-transport



non-auto-reverse deck to act as a soundquality yardstick. In addition to establishing whether there is parity of sound quality between single and twin-mech variants, we also looked for distinctions within the twindecks themselves.

The five double-decks have some basic features in common. They all have two mechanisms (not always completely independent internally, but that's another story), both of which can be used for playback, and at least one of which records. All have Dolby B and C noise reduction and HX Pro headroom extension circuitry, though tellingly none offers Dolby S noise reduction.

Each one can dub from one tape to another in real time, taking 90 minutes to dub both sides of a C90; or will dub at twice normal speed taking 45 minutes to accomplish the same task. Both methods involve some loss of sound quality; inevitably, the loss is greater at double speed .

Copying CDs onto tape is a favourite pastime for twin-deck owners, and many units offer automated facilities for this purpose, usually (but not always) in conjunction with a CD player from the same brand. These facilities may include: a routine to establish appropriate recording level, support for track-editing, and synchronised CD-to-tape recording starts. We assessed only tape-to-tape and CD-to-tape performance.

HOW THE TESTS WERE DONE

uring our listening tests we made recordings from a tame CD player, then replayed these off-tape and compared them to the originals. Tests concentrated on Type II (chrome bias) and Type IV (metal) tapes, because these are the toughest for any cassette deck to deal with, especially in respect to highf requency and noise capabilities.

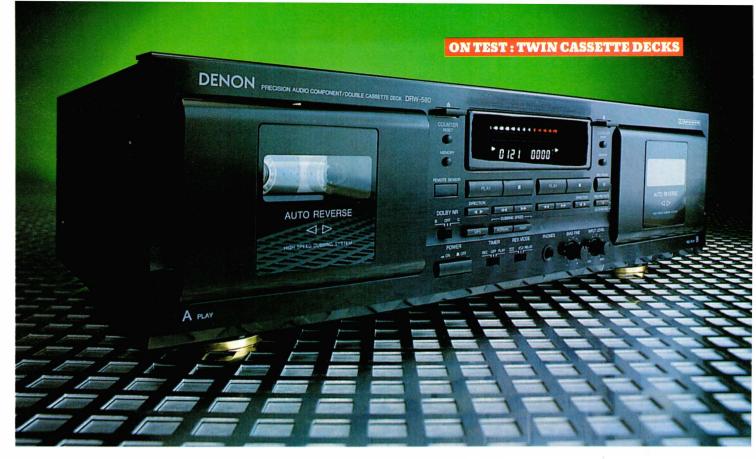
Type I (ferric) tapes are the most appropriate for our test samples in normal casual use, but their performance with high bias tapes defines their performance. Ancillary equipment for the tests included: Copland CDA 288 CD player, Roksan Caspian amplifier, Kelly KT3 loudspeakers and Sennheiser HD580 Precision headphones.

WHAT MUSIC DID WE USE?

Joni Mitchell: Cool Water from Chalk Mark in a Rainstorm; Geffen 924 172-2 Mahler: Symphony № 9 (3rd Movement); Jesús López-Cobos/Cincinnati Symphony Orchestra; Telarc 2CD-80426

JS Bach Prelude from Prelude & Fugue in B Flat Major; BWV866 Rosalyn Tureck; VAI Audio VAIA 1041

HI-FI CHOICE



DENON DRW-580

The Denon has twin auto-reverse-capable transport mechanisms, of which one is record-enabled and equipped with Dolby B and C noise reduction, and HX-Pro headroom extension circuitry. Transport features are tape dubbing at normal and double speed, and relay play (in which one tape plays when the other ends). Manual bias adjustment can help 'tune' the deck, but is by no means easy to perform without off-tape monitoring. The metering covers a wide 50dB operating range, and a headphone socket is fitted, but there is no volume control.

The control system itself is easy to understand, if rather cluttered in layout. The mechanism is a little noisy, both when engaging transport modes, and (more significantly) in play mode. On the plus side, tape dubbing is a one-button process, and if you're using a Denon CD player, discs can be dubbed with a single button-press. Added-value features include timer standby, track search (just one track away in either direction), multiplex (MPX) filter switching for radio recordings, and a remote-control sensor for use with Denon audio or AV remote-control amps. No handset is included with the deck.

A seven-stage display-dimmer is unusual

DENON DRW-580 - VERDICT SOUND ***** VALUE **** PRICE £199.99 Disappointingly prosaic performance all round, with suspect transport and modest electronics combining to make a strong case for single cassette decks instead. Hayden Laboratories Ltd, Hayden House, Chiltern Hill, Chalfont St Peter, Bucks SL9 9UG (01753) 888 447

for remembering its setting after being switched off, though to invoke it demands an arcane sequence of control activations.

As we did with the other decks, we tested the Denon primarily with TDK chrome (SA, actually a chrome-compatible super-ferric) and metal (MA) tapes, since these provide the greatest challenge for any tape recorder. However, in many cases a good ferric tape would be the most cost-effective choice in day-to-day use, and arguably it is better matched to the Denon and most of the other twins for all but the most quality-critical applications.

Sound quality

The Denon suffered from significant intermittent tape drop-out, ie a momentary loss of output, with both Type II (chrome bias) and Type IV (metals). In both cases these were new tapes that had been fast wound a few times to prepare them for use. Sound quality had a slightly muted quality: there was an obvious loss of openness and subtle detail, and a crowding of the stereo sound-stage — probably this was a flutter-related side effect.

This was confirmed partially by shallow, tinny-sounding percussion, another classic indicator. Recordings of small instrumental forces (Beethoven string quartets in this case) sounded obviously tape-like, with a subtle and unsettling modulation effect of each instrument on its neighbours.

Tape-to-tape dubbing performance was modest, with apparent Dolby mistracking using metals at normal dub speed, a loss of openness and of subtle detail. Midband sound quality was fairly impressive, however, and the bass sounded powerful. Highspeed dubs were very poor, and should be avoided for any sound-critical application. AG

THE LAB REPORT: DENON

Evidently this deck is optimised for Type II pseudochromes rather than premium ferrics which. despite lapping up oodles of bass (MOL = +5.9dB), are sufficiently over-biased to limit any treble headroom to just -4.6dB. NAD's machine suffers a similar compromise though the effect is more dramatic with the DRW-580: a -4dB loss at 10kHz with ferric tapes and decidedly muffled-sounding recordings unless the bias control is wound all the way back to the 9 o'clock position during recording. Current IEC Type II favourites like TDK SA and Maxell XLII perform ideally with the bias knob turned back one notch, providing a flat response to 17kHz (there's the faintest peak at 14kHz) and benefiting from a MOL/SAT balance of +5.4dB/-3.5dB respectively. In plain English, this means a strong bass with enough treble headroom to preserve powerful, percussive detail.

Once you've grasped its bias control, there's another tougher problem to deal with. Specifically, though the deck's absolute speed accuracy is very good (just +0.13 per cent re. 4.76cm/sec), its overall stability is a little 'fluffy' with evidence of very low-rate pitch variations alongside capstan wow and clumps of flutter at 41Hz and 93Hz. PMI



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HI-FI CHOICE NOVEMBER 1997 **63**



THE LAB REPORT: JVC

Due to being fractionally over-biased in the Type I position, recordings on ferric tape lead to a slightly prominent upper midrange, though the far treble is still usefully extended to 16kHz. Type II tapes are fundamentally under-biased, however. Without JVC's 'Compu-Cal' facility, IEC-compatible pseudochromes like Maxell's XLII are some +3dB up at 8kHz, falling to a not-insignificant peak of +1.7dB with tape-tuning engaged. JVC's meters are accurately aligned with the IEC 0dB point but don't get confused with the 0VU point marked slightly lower down on the same scale. Hiss is very low at -55.0dB and -58.5dB with Type I and II tapes respectively, falling to -69.8dB and -73.3dB with Dolby C.

If the MOL/SAT (overload) margins of JVC's heads are par for the course, then at least its tape mechanism(s) are more stable than the norm. There's no very-low-rate wow to disturb the stability of sustained notes, only a hint of capstan wobble at 4Hz amounting to 0.09 per cent.

Flutter occurs as a broad clump at +/-36Hz but the total spurious band energy from 10Hz-100Hz is still the lowest in this test at -18dB (NAD clocks-up - 16.8dB while the Kenwood hits -10.8dB). A very balanced overall result. PMI

	55%
AUDIBLE HISS	-5%
3 DYNAMIC RANGE	-11%
4 TREBLE OUTPUT	10%
5 DISTORTION	-45%
Better	5

JVC TD-W718

Here is a true twin-recording deck, in which both transports are capable of recording as well as playing back. This means that two tapes can be made simultaneously from a single-source CD. The deck will also record sequentially, allowing up to three hours uninterrupted recording from the radio using C90s. This good idea is spoiled by the remarkable omission of a timer operating facility, severely devaluing the benefits of this feature. What were they thinking of?

In other respects, this is a powerfully endowed deck. Auto tape calibration, under JVC's proprietary "Compu-Cal" tag, automatically adjusts sensitivity and equalisation, and retains separately the values found for tape groups ferric, chrome and metal. DDRP (Dynamics Detection Recording Processor) sets record levels automatically in co-operation with JVC DDRP CD players, but the system can be fooled, for example when peak levels happen to fall between sampling points.

One of the transports has a variable-play-back-speed control (+/-10 per cent), which is potentially useful for musicians who want to play along with a commercial recording. There are sockets for microphones and level-controlled headphones. A 'music scan' (track search) feature and blank skip head the list of convenience features.

In its ergonomics the JVC is on strong ground with its well-grouped controls, though some, such as for dubbing, are rather inconspicuous. Transport-mode engagement is extremely quiet, and tape play/record modes also run with less than the usual mechanical noise.

The tape counter reads out in minutes and seconds, but the times are unrelated to the tape start unless reset was pressed initially. One interesting omission is record bal-

ance, which reduces scope for more creative recording applications.

The lack of balance adjustment was also reflected in intermittent channel balance errors to the order of 2dB when making normal speed tape-to-tape recordings with chrome tape. A faulty sample?

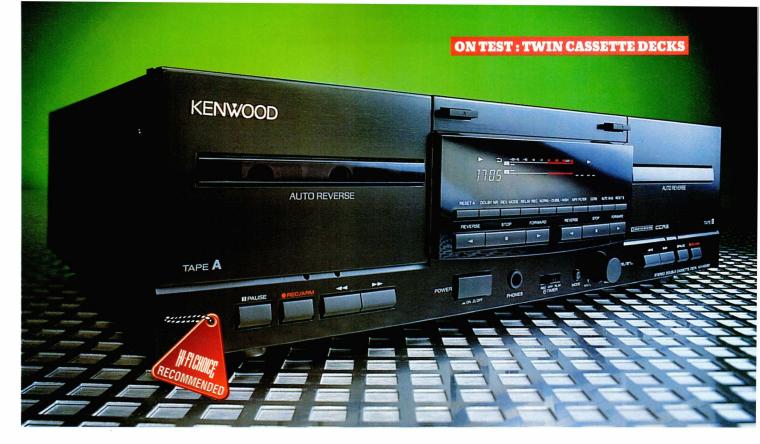
Sound quality

Sound quality is modestly encouraging for a £300 twin deck (it would equate to a £170-£180 single). Type II recordings from CD showed mild but noticeable losses of treble presence (possibly flutter related), dynamics and space, especially front to back. The soundstage sounded stable, but lacked differentiation, interest, and 'air', and voices were often less articulate than the source. Metal recordings sounded somewhat sharper and clearer, with minimal dropout, and pitch integrity was better than average.

Normal-speed dubbing performance was surprisingly good, and even high-speed dubs sounded reasonable, with only a mild loss of stability and some dropout being noticeable with all three tape groups.

Pre-recorded cassettes sounded reasonable enough, but they were no match for native recordings made using good-quality tape stock. ${\it AG}$

	JVC TD-W718 - VERDICT
	UND ★★★☆☆
	UCE £299.99
	Strong support for creative home recording (microphone sockets, play-speed adjust etc) is a major focus of this deck, but the lack of timer standby and balance controls are significant omissions. Musically it is one of the better (and costlier) twins.
\boxtimes	JVC UK Ltd, JVC Business Park, Priestley Way, London NW2 7BA



KENWOOD KX-W6080

The KX-W6080 is gargantuan, just like its sibling the KA-5090R amplifier (reviewed on p91). Its layout of controls is highly stylised, while its capabilities broadly parallel those of the JVC TD-W718. Both transports are capable of recording, which means that in addition to tape dubbing and sequential play, the Kenwood can make two sequential recordings. Hence up to three hours continuous recording is possible using C90s.

This implementation is more usable than on the JVC because timer standby has been included, so with a cheapo wall timer you can make absentee recordings off-air. However, this deck will not record on both decks simultaneously.

The user is not short-changed elsewhere. Headline gadgets include 'skip play' (track search), single-track repeat, rewind and play, dash and play (aka 'blank skip') and CCRS (Computer Controlled CD Recording System), which sets the recording levels from a compatible Kenwood CD player automatically, after sampling the disc to establish the highest signal level.

Tape tuning is limited to a slow-acting auto-bias adjustment, a half-way house that helps minimise distortion, but which is only fitted to Deck B. The Kenwood is not

SOUND

VALUE

PRICE

£199.95

On the whole, this is a more-than-viable £200's worth, despite being excessively large, having shambolic controls and feeling slightly flaky. Nevertheless, the features count is very strong, and performance exceeds the limited expectations at the price.

Kenwood Electronics UK Ltd, Kenwood House, Dwight Road, Wafford, Herts WD1 8EB

(01923) 816 444

designed to record on metals, and the meters cover a short 23dB. On the plus side, the tape counter includes a zero stop feature for each transport, and automatically synchronised recordings are possible from compatible Kenwood CD players, with selective track editing. The deck will also link into a Kenwood-brand system for full remote control operation.

Both transports suffer noisy mode engagement, but varying levels of play (and record)-mode noise. Deck A is reasonably quiet, but Deck B suffers an intrusive droning noise, and other chirrups in the fastwind mode. Ergonomics are marred by a long row of identical buttons to perform many tasks, plus obscure multi-function level-and-associated-mode controls.

Sound quality

Sound quality is surprisingly competent for a unit of this price, but the Kenwood has limited headroom, and bright-sounding source material should not be allowed to peak much above OVU on the meters. The deck sounds clean and open once bias has been set up: there is a rather glassy, sharp presentation with strong detail resolution to match, though the bass sometimes seemed shallow and resonant. I made a tonally-accurate Type-II-tape facsimile of Jennifer Warnes's *Big Noise*, *New York*, though bass was rather syrupy.

I noticed similar virtues when making normal-speed Type II tape-to-tape dubs, even though these tended to be somewhat brash and metallic, with a moderate loss of fine detail. High speed dubs resulted in an additional loss of treble, a squeezing effect on stereo imagery, and a further loss of stability, but these findings are about average for an inexpensive twin-mech machine. 46

THE LAB REPORT: KENWOOD

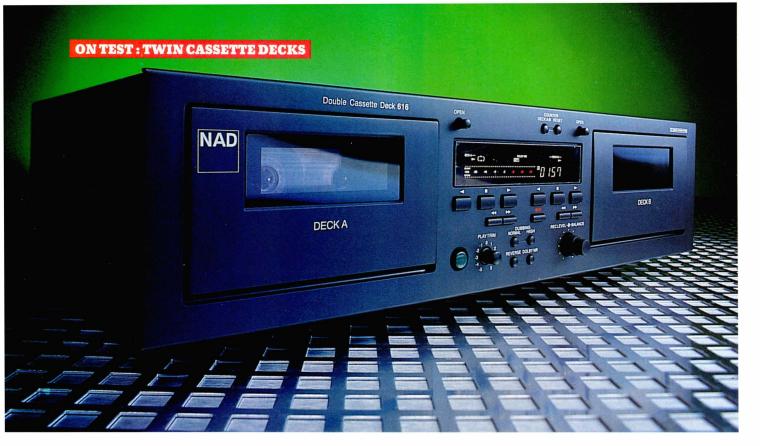
Squeezing two transport mechanisms into a budget recorder usually exacts a toll. Typically, the choice of (dual) record/playback heads ensures that costly metal tapes are easily out-performed by premium pseudochromes as the record heads simply cannot sustain high levels at the elevated, Type IV bias position. So it is with the KX-W6080 where distortion increases from 0.6 to 0.8 per cent with ferric/pseudochrome tapes respectively before leaping to 2.2 per cent with metal tapes, all else being equal. Furthermore, the huge +7.8dB MOL for ferric tapes (ably employed by the likes of TDK AR) is reduced to just +2.0dB with TDK MA or Sony Metal Master.

Sure enough, the deck is slightly over-biased in the Type I position and under-biased with Type II and IV tapes. This does exaggerate the differences between ferric and metal tapes, the latter seeing a rising HF that peaks at 10kHz (+2dB) before dropping away to give a -3dB point of 17kHz. Nevertheless, the fact remains that the widest dynamic range and lowest distortion are still achieved by sticking with good quality pseudochromes like TDK SA and Maxell XLII, rather than shelling-out unnecessary sums on metal tape. A truism that extends to virtually every other deck in our test, I might add. PMI





HI-FI CHOICE NOVEMBER 1997 65



THE LAB REPORT: NAD

It is possible to engineer a flat response from this recorder by tweaking the Play Trim facility to +3 to +4dB for ferric tapes, and between 0 to +1dB for pseudochromes, always assuming that your choice of tape adheres to the IEC specification. TDK's D and Maxell's UDII make two good choices for Type I and II respectively but if the Play Trim facility is set too low then expect a distinctly dull-sounding and lacklustre performance from your recordings.

This serves to highlight the poor set-up of NAD's 616 which, in its 'default' state, is so over-biased in the ferric position that its MOL reaches +7.8 dB while its SAT plummets to -5.9 dB. This suggests that while a strong bass line will just be ticking over, any accompanying percussion or brass may be plunged into compression. Tape hiss, meanwhile, at -52.8 dB, is still a few dB behind the better conventional decks in our test.

Otherwise, the over-biasing does reduce levels of bass/mid distortion to 0.5 and 0.35 per cent (ferric/pseudochrome, respectively) while the excellent speed stability of its transport(s) ensures that its recordings are, if nothing else, free from the ravages of wow and flutter.

1 SPEED STABILITY	45%
2 AUDIBLE HISS	-20%
3 DYNAMIC RANGE	-45%
4 TREBLE OUTPUT	-55%
5 DISTORTION	50%
Better 1 2 3	5 Worse

NADAIA

For those befuddled and bemused by the complications inherent in twin decks, here is an almost-perfect antidote: a twin player that even hi-fi reviewers like yours truly can understand. The control count is surprisingly low, though most of the usual and essential facilities are present, including Dolby B and C noise reduction and HX Pro. However, unlike some of its competitors, this deck records on only one of its twin transport mechanisms.

Tape dubbing is possible at either normal or double speeds — quality or convenience options, respectively. NAD's tapetuning feature 'play trim' even operates during dubbing to 'correct' frequency response errors due to azimuth differences between record and play decks, or because the source tape has become partially erased through heat or being left near a loudspeaker, for example. Play trim is a useful emollient measure, but it is also potentially hazardous, presenting another way to degrade recordings if it is administered without proper care.

There are some unfortunate simplifications, such as the single tape counter that must be switched between transports, the lack of any clear indication on the front panel that Deck A doesn't record, and the coaxial record-level and balance control which makes it too easy to mis-set balance inadvertently.

The record-level meters have a limited (though perfectly usable) 26dB dynamic range, but potentially more serious is the omission of a timer standby feature. Also there is no headphone socket, and no tapetuning aids — not even a manual bias adjuster. The most serious flaw, however, is that the Dolby circuit defaults to 'off' every time the power is switched off. This is cer-

tain to result in errors, especially as Dolby B is a prerequisite for the playback of commercially recorded material, and noise reduction of some form is pretty much mandatory when recording.

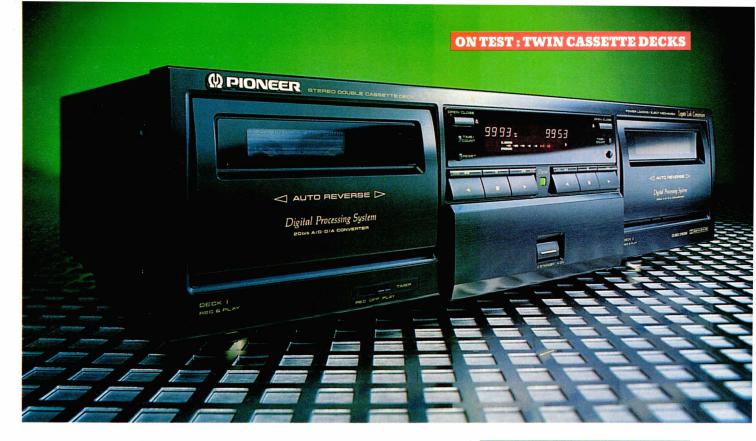
Sound quality

The two tape transports are mechanically quiet, and sound-quality is not without promise. Some masking of fine detail was noticed at lower levels, probably due to transport flutter; also there was some dropout with metals, a tape type with which the NAD copes uneasily. But piano transients are handled effectively, and dynamically the NAD is on firm ground, especially with metal tapes, despite some coarseness and granularity. Chrome-bias tapes generally sounded softer than others.

It was the NAD's performance with piano recordings, however, that was concerning: there was just a lack of solidity to the presentation. Some recordings sounded noisy and compressed, even with Dolby C, and the Play Trim control was mis-set on the test sample, and had to be adjusted to around the +3 mark for accurate record/playback tracking. High speed dubbing performance was strictly bottom-drawer, with severe muddle and losses of clarity, but the deck was modestly successful when dubbing at normal speed. AG

	NAD 616 - VERDICT
VA	UND ★★☆☆ LUE ★★☆☆☆ UCE £299.95
	This primitive deck lacks some basic features — the ability to remember the Dolby setting is the most spectacular own goal — and simply isn't set up to the standards one would expect at this price.
	The Audio Club, Adastra House, 401-405 Nether Street, London N3 1QSG (0181) 343 3240

66 NOVEMBER 1997 HI-FI CHOICE



PIONEER CT-W806DR

The CT-W806DR is a tour de force of technological sophistication, principally in its use of digital signal processors and digital filters to perform many of the functions usually handled by custom (analogue) processors. These functions include Dolby B and C noise reduction and HX Pro headroom extension, but their digital implementation obviates the amplification of electrical hiss commonly encountered when performing complex equalisation in the analogue domain. The digital electronics also allow recording from a digital source using an optical digital input, with no need to set the record level. The digital converter employs Pioneer's Legato Link digital filter.

The list of features is bewilderingly long, but the highlights are that the deck has twin record-capable mechanisms and timer standby, allowing relay (sequential) play and record with timer-controlled starts if required. There are microphone and headphone sockets, each with level controls, and options for dubbing and parallel recording. 'FLEX' (Frequency Level Expander) aims to restore the usual frequency-vs-level characteristic for tapes whose high-frequency content falls off prematurely because they have become partially erased. 'ALCA' is an auto-level control for analogue and digital sources that incor-

PIONDER CI-W806DR - VERDICT

SOUND

VALUE

PRICE

\$299.95

Exceptional (though uneven) electronics are let down
by a transport whose wow & flutter content makes
critical listening a trial. The instructions should be
burned to avoid terminal user confusion.

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

(01753) 789 789

porates an element of tape analysis; while BLE XD is a digitally-enhanced version of Pioneer's established bias, level and sensitivity auto-tape-tuning features. Phew!

Sound quality

In some ways, the new technology feels like work in progress, and assessing the deck proved frustrating, not least because it was clearly exceptional in some areas, yet poor in others. The good news should include strong digital-domain dubbing performance from digital sources, but I was unable to initiate a recording in the digital domain.

Even in the analogue domain, however, background noise was virtually absent, and dynamics were faithfully preserved, especially with metal tapes. Detail seemed strong too, but there was something a little too slick and easy about some of the recordings. With critical, densely-constructed material, the Pioneer sounded odd, with super-sharp transients, and little of the humdrum detail that invests music with a sense of reality and presence. Metal-tape performance, however, was clearly more open, vivid and detailed than when using chrome bias tapes.

Had the transports been up to the task this would have been an excellent, if uneven deck, but there were clear indications of wow and flutter, which led to uncertainty on piano transients and a characteristic grubbiness with high-frequency detail.

I was surprised to find that the CT-W806DR has no balance control, and that there was a degree of mild though uncorrectable channel imbalance when dubbing at either speed. This which was audible mainly as a shift in the sound-stage focus towards the left. Subject to the transport constraints, however, dubbing performance was good at both speeds. AG

THE LAB REPORT: PIONEER

For the full story of Pioneer's CT-W806DR, turn to my Oasis column on page 29. As far as this test is concerned, Pioneer's Digital Signal Processing provides some spectacular results. Not least is the apparent reduction in hiss from the usual 52-55dB anticipated from a ferric tape to a level of -78.4dB in this instance. Add Dolby C into the equation and hiss is reduced still further to -84.9dB. Sure enough, there's digital trickery at work, but the implication is that the CT-W806DR is one of the few decks able to make full use of high-MOL ferrics like TDK AR, extracting a potential dynamic range of 90dB! The other consequence of these results is that the bargraph readings for hiss and dynamic range are skewed firmly in Pioneer's favour.

Nevertheless, it's not all roses. Despite the fine electrical results, the overall performance of the deck is compromised by the very poor speed stability of its transport mechanism(s) — the worst in this test in fact. The deck runs 1.1 per cent slow (re. 4.76cm/sec) while suffering an extended series of flutter sidebands amounting to 0.1 per cent at 14Hz and 30Hz and 0.14 per cent at 50Hz. The high, low-rate wow, however, will probably exert the greatest subjective influence. So near, and yet so far. *PMi*



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HI-FI CHOICE NOVEMBER 1997 67



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YAMAHA KX-580SE

Our token single-transport deck comes as a relief after the complications of the dual decks models. The Yamaha lacks much of the front-panel furniture exhibited on the other models in varying abundance, and it took a mental effort to re-acclimatise myself to reversing tapes half way through recordings, and only being able to record in 45 minute segments (using C90s). On the other hand, you do get Dolby S in addition to B, C and HX Pro, fine-bias adjust, a tape tuning feature, and a NAD-like-but-more-accurately-adjusted 'play trim'.

The tape-tuning feature, however, is not a complete all-singing, all-dancing system. It limits itself to adjusting bias and sensitivity only, and the tape is not wound past the leader, which must, therefore, be done manually. A headphone socket is fitted along with a level control; and there are various repeat modes and a bi-directional intro-scan feature to play the first few seconds from each identifiable track.

The Yamaha's mechanism is not one of the quietest: transport modes slip in and out with strong clicks from the relays, and there is a muted, but high-pitched noise from the transport in play mode. Additionally, though

YAMAHA KX-580SE – VERDICT This is more like it: a single deck that triumphantly outperforms twin decks in every important performance parameter, and which is easier to use into the bargain. Yamaha Electronics UK Ltd, 200 Rickmansworth Rd, Watford, Herts WD1 7JS (01923) 233 166

I would applaud Yamaha's decision to put minor controls behind a flap, the control legends are invisible if the deck is placed much below eye level — an unnecessary irritant.

The unique selling point here is without doubt the 'Special Edition' facia legend, which indicates the presence of enhancedquality passive components as used in an increasing number of amplifiers and CD players, but which were until recently an extreme rarity in cassette decks.

Sound quality

The Yamaha sounds less than perfectly set up as standard: there is a perceptible lightening of tone with Type II and IV tapes with Dolby C and S alike, and recorded low frequencies lacked the fullness of their source counterparts. There was occasional dropout with metal tapes, and all tape groups suffered some loss of air and space when compared to the original. A smidgen of additional bias helped to counteract this effect.

So the Yamaha KX-580SE is neither perfect, nor even the closest approach to perfection available at the price. It is, however, as near as you get in this test, making it an easy group winner. On the whole, its stability and image focus are of a different and superior order to the rest. With appropriate source material, recordings sounded transparent, subtle and highly detailed, offering a three-dimensional halo of acoustic presence barely hinted at by other decks. With Dolby S, on a subjective evaluation, hiss levels were broadly comparable with those of the Pioneer (a tribute to the Pioneer's digital signal processing) but better than the rest. Even Dolby B sounded guieter and more refined than most of the twins. AG

THE LAB REPORT: YAMAHA

The output amplifiers fitted to Yamaha's KX-580SE have an inherent treble droop of -2.3dB at 20kHz that is 'superimposed' onto the sound of every playback. However, after auto-tuning, many premium ferrics (including TDK AR and Maxell UD-ICD) are left with a +0.5dB boost to upper mid/treble that helps brighten the overall sound of recordings. By contrast, before the application of Yamaha's 'auto-tuning' widget, recordings on premium pseudochromes like TDK SA or Maxell XLII will sound bright. Remembering to apply 'auto-tuning' before recording on these tapes will result in much smoother, better-balanced copies.

Tape-tuning is also critical to obtain the optimum MOL/SAT balance. A decent ferric tape will enjoy overload margins of +5.7dB through bass/mid and -0.7dB through treble frequencies, respectively. This is a very fine result, as is the low 0.4 per cent distortion at OdB (250nWb/m) which, incidentally, does coincide with the OdB point on its meters. Transport speed stability is pretty good with 0.08 per cent wow at 6Hz and 0.07 per cent flutter above 14Hz. Hiss is also 'average' at -53.5dB and -58.5dB for Type I/II tapes, respectively, but this drops to a very low -71.7dB and -76.0dB with Dolby S in tow. PMi



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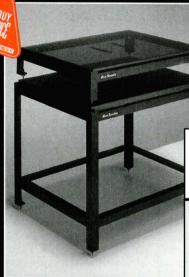
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Malcolm Steward, Hi-Fi Choice February 1996

"We're not talking about elusive subtleties here, but a patently obvious improvement. A concrete block could have heard the transformation..."

Rob Doorack, Listener Summer 1996



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CONCLUSIONS

e set out to answer a question: does it make sense to buy a twin cassette deck, or is it better to stick to single-transport decks, as traditionally recommended to those whose concerns are primarily centred on sound quality? On the basis of our test, the answer is unavoidable. In each case, the twin deck was undermined by myriad weaknesses, of which the most common were transport related. No matter how good a recording may be in terms of signal-to-noise ratio, distortion or frequency response, or any other static measure of musical performance, if the pitch of steady notes varies, it isn't good enough. A useful metaphor would be with cars, where



well-honed dynamic performance is completely pointless if the brakes can't cope.

Of course this is not the whole story, and some of the models tested were better than others. A couple of the twins were sufficiently capable all-round to be worth considering, and one, the **Kenwood**, has received a formal endorsement in the form of a Recommended tag. There can be no doubt that in sound-quality terms, at this price level, you're still better off with almost any single transport deck; but it will be a different story if you're interested in functionality.

The fact remains: with or without critical endorsement from organs such as this, dual cassette decks will continue to sell well because they provide a service that many people require, which cannot be performed by a single-mech cassette deck. These tasks include making long, uninterrupted recordings, either two or four times as long as those which can be captured on a single deck. The twin-deck manufacturers also seem to have realised that creative live



recording is not a completely dead activity, and two of the models tested (the **Pioneer** and the **JVC**) have microphone sockets. Again, an automotive analogy comes to our rescue: if you have a lot of boxes to carry around, an estate car is the preferred tool for the iob. Just be aware that you will not get

sports-car handling and performance.

Of the models tested, the **Denon DRW-580** is a disappointing, erratic performer that simply doesn't cut the mustard in this test, price notwithstanding. The **NAD 616** also falls by the wayside; the omission of a Dolby status memory is an unforgivably cheapskate omission (ironically one that Denon promulgated some years ago), but

formal Recommendation here. The Kenwood's transport section outperforms most of the other twins, its character is sharp (sometimes too sharp) and detailed.

The sole single-transport representative, the Yamaha KX-580SE, is another clear Recommendation. This is a transparent-sounding and detailed performer with a solid transport, though some will find the front panel layout annoying. In short then, single decks still hold the high ground when it comes to sound quality.



Best of the rest

One intriguing alternative to a twin cassette deck is to use two single cassette decks connected via an amplifier with two tape circuits and support for cross-dubbing. This configuration will facilitate pretty much anything a twin-deck could do, short of high-speed dubs, auto-reverse (possibly) and long, unattended recording. High-speed dubbing is best avoided anyway; real-time dubs invariably sound a lot better. Naturally you'd pay more for this kind of set-up, but not necessarily a fortune, and it can make sense to divide the budget



this is a comparatively crude deck anyway. The **Pioneer CT-W806** is a much more talented performer, which in many ways is irresistible. It is technologically sophisticated, and its capabilities are far in advance of its competitors. Only an audibly erratic transport pulls it up with a bump.

At £300, the **JVC TD-W718** is well worth considering, especially for those interested in live recording, but the lack of timer standby will rule it out for many.

Recommendations

Kenwood's KX-W6080 offers a level of musical attainment not a zillion miles removed from the JVC TD-W718. It has a more even (though not necessarily better) spread of features, in a package costing just £200, and it is the only twin deck to earn a

so that one deck has the highest possible performance for normal recording and playback. For the secondary deck, think in terms of the Aiwa AD-F450 (£120), probably unequalled at this price; primary deck candidates could include the JVC TD-R472 (with auto-reverse) at £200, or the Yamaha KX-490 at £199. Aiwa's AD-WX727 is a twin-deck alternative at £170.



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HI-FI CHOICE



Alvin Gold (listening tests) and Paul Miller (lab tests) give 12 budget amplifiers the rigorous Hi-Fi Choice review treatment.

rantic is the pace of life here at HFC Towers! We had barely put to bed the last group of midpriced integrated amplifiers (HFC 168) when work was starting on this month's test of 12 budget integrated amplifiers. In price they range from £130 to £300, which means that all qualify as starter amplifiers for inexpensive systems. A handful of the more expensive models on test have ambitions to be taken seriously as audiophile contenders.

One question arises with amplifiers such as these: how does one distinguish between them? Some have tone controls, others sport tacked-on features, another lot limit themselves to a minimalist complement of controls, say source selection, volume control and an on/off switch. Power ratings vary too, over a four-to-one range in the case of this month's test group. If you've done your homework you'll already know that one can't have too much power, and gadgets like tone controls tend to cause nervous tics among those who hand out learned advice from on high. Hey presto, a ranking order can suddenly be imposed on the apparent chaos. We know how to choose amplifiers: it is simply a matter of maximising power output and minimising the number of unnecessary gadgets. Problem solved.

Unfortunately, life is rarely so simple. First, the real-world power output of amplifiers rarely correlates to their printed specifications. This is partly because the specs are rarely stated in exactly the same terms by different manufacturers, but mainly because the power ratings tend to be given for ideal circumstances, that is, when driving a sine wave into a large value resistor of the stated value, rather than the more complex real-world picture of a reactive.

THE CAST LIST

MODEL	PRICE	PAGI
AMC 3025a	£129.95	p75
Creek 4330	£279.00	p89
Denon PMA-250SE	£159.99	p77
Kenwood KA-5090R	£299.95	p91
Magnum IA120	£265.00	p93
Marantz PM-57	£199.90	p83
Musical Fidelity E1	£199.00	p85
NAD 312	£199.95	p87
Pioneer A-204R	£159.95	p79
Rotel RA-931	£149.95	p81
Sony TA-F448BE	£249.99	p95
Yamaha AX-592	£279.95	p97

capacitative and resistive loudspeaker load, whose characteristics are constantly changing with the ebb and flow of the music signal. There is no room for a treatise on this here: it is enough to say that rated power output figures are very poor indicators of practically-achievable volume levels. In any case there is no guarantee that sound quality and power output are correlated. Worse, although there is a kind of inverse relationship between unnecessary gadgets like tone controls and sound quality, it is a very casual one indeed; and as you will read, some of the best amplifiers in this month's group are relatively wellfeatured. Now read on!

HOW THE TESTS WERE DONE

ur 12 amplifiers were subject to a full battery of tests, including a physical examination, unsighted panel-based listening tests in a high-grade system, hands-on listening using a range of speakers and source components, and a computerised measurement test programme. Each amplifier was warmed up prior to being auditioned. This represents the most searching battery of tests that any magazine uses to judge products.

Panel testing was conducted over two days, and included a number of repeats, with the panel not knowing the equipment's identity. Levels were equalised between tests. The system used for these tests included a Copland CDA-288 CD player (recently revised), Definitive Technology BP2002 loudspeakers, and Nordost cables. The hands-on listening included a number of loudspeakers: Tannoy Mercury M2s, B&W 805s, and an unnamed prototype two-way floorstanding speaker. Other source components used included a Roksan Caspian CD player, an Alphason record player with Goldring moving magnet cartridge, and Mana supports. A Roksan Caspian amplifier was used as a point of reference.

WHAT MUSIC DID WE USE?

Dohnányi Scherzo: Symphonic Minutes Op. 35, Matthias Bamert/BBC Philharmonic Orchestra on Chandos CHAN 9455. Liszt: Mephisto Waltz #1, Nojima on Reference Recordings RR-25CD Evan Dando with Juliana Hatfield: My Drug

Buddy from Rare on Air - Live Performances on Mammoth MR0074

Jennifer Warnes: Big Noise, New York from The Hunter on BMG/Private Music 261974 Plus various others for hands-on testing.

THE LISTENING PANEL

Our usual sincere thanks for the skills and valuable time contributed by our listening panel, industry luminaries one and all, who were David Inman (The Audio Marketing

Department), Alan O'Rourke (Ruark Loudspeakers), Roger Batchelor (Denon), Julian Maddock and Robin Marshall (Mission) and Alan Sircom (Hi-Fi Choice).







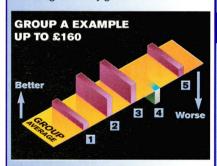




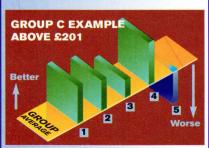


UNDERSTANDING OUR BAR-GRAPHS AND GROUP AVERAGES

here 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:







TEST INNOVATOR OF THE YEAR

Our Technical Editor, Paul Miller, has been awarded Test Innovator of the Year by Test magazine, the leading European journal of the test and measurement industry. This gong came in recognition of Paul's Jitter Measurement Suite, as used to test CD players for Hi-Fi Choice.



UNDERSTANDING OUR BAR-GRAPH MEASUREMENTS

he 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 and 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 audio band 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 RFIVarious 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.















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AMC 3025a

his 3025a is the lower-power version of the AMC 3050a, which was itself reviewed in our last look at budget integrated amplifiers (*HFC* 167). This little brother is rated at 30 Watts

into eight and four Ohms; its beefier sibling claims to raise 45 Watts into eight Ohms, and a significantly more powerful 80 Watts into four Ohms (manufacturer's figures). To paraphrase the 3050a review, the ghost of NAD is almost palpable. The amps have the same dark-grey facia colour, which is practically a NAD trademark, and sure enough AMC equipment (note the almost NAD-like name) turns out to be made in a NAD production plant.

There is no NAD-style soft clipping, but some of the remaining facilities have a familiar ring, including a removable pre- to power amp link at the back and tone controls which can be bypassed using the 'direct' position of the normal/mute/direct control. One feature, however, is very un-NAD like at this price, which is the provision of a remote control, albeit a very simple one which addresses only the volume control and the non-tape-related input selection.



There are inputs for phono (MM and MC), three line-level components and tape monitor. There is also a rear-channel switch to select between four and eight Ohm loads, in the former case to maximise Watts, in the latter to optimise current delivery. Given that there was no apparent shortage of power to drive virtually any of the loudspeakers tried, even in the four Ohm position, this was the setting used

Sound quality

for most of the listening.

The 3025a has a rather bland overall character, with strictly limited midband resolution, a shallow yet rich bass and a soft, recessed treble. All panelists mentioned these traits, apart from one who bucked the trend by being somewhat more enthusiastic.

Although it was marked down for its lack of positive virtues, no-one seemed to think it unpleasant in any way, which is probably worth bearing in mind when looking at its unimpressive overall scoring. "Bass rather uninteresting", wrote one of the Jennifer Warnes song. When playing My Drug Buddy by Lemonheads' Evan Dando with Juliana Hatfield, the AMC was dismissed as "a little too nice", with an acoustic guitar that was "just too smooth and lacking in sparkle". In the powerful

Liszt piano piece another

listener noticed that the sound appeared to emulsify during more complex passages.

My own listening with conventional passive speakers, including typical budget compacts like the Tannoy Mercury M2, suggested that although the sound never becomes catastrophically aggressive, it does sag and become congested when the amplifier is stressed. Ironically, it is easier to find these limits with budget speakers like the Mercury than with the big and unusually sensitive Definitive Technology BP2002 used for the panel tests, which even at moderately high volume levels barely raised a bead of sweat on any of the amplifiers tested.

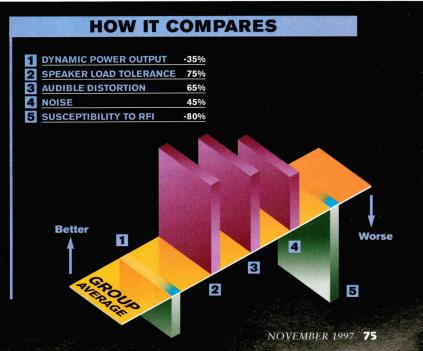
Conclusion

Whatever reservations one may have about this amplifier, the fact is that it offers a lot of usable power and some useful facilities, including a serviceable phono input and remote control, for a low price. The 3025a may sound soft and muddled in extremes, but it had a firm grip on music, and it never sounded offensive. Recommended. AG

THE LAB REPORT

Affordable it may be, but the 3025A performs much more like AMC's costlier 3050A than, say, the 3030A (*HFC* 167 and 168 respectively). The overall power output is a little lower at around 45W/8 Ohms but its tolerance of difficult speakers remains exceptionally good. Under dynamic conditions, this little amplifier will surprise most budget loudspeakers with its 56W/97W/142W/173W output into 8/4/2/1 Ohm loads respectively.

Furthermore, distortion stays remarkably consistent at 0.02 per cent right across the audioband and over a good 90 per cent of its dynamic range. The *nature* of this distortion, however, alters subtly from 2nd harmonic at low frequencies to a mix of 2nd and 3rd harmonics through the upper midrange and treble frequencies. In another remarkable parallel with the AMC 3050A, this amplifier also exhibits an astonishing 90.5dB S/N ratio at just 1W/8 Ohms — second only to the Yamaha in this survey and almost 10dB ahead of the Denon in this same group. The 3025A appears to be slightly more susceptible to spurious RF than the 3050A, but all things being equal I would have expected it to perform just like its (Recommended) bigger brother, albeit with fractionally less 'grunt'. PMI





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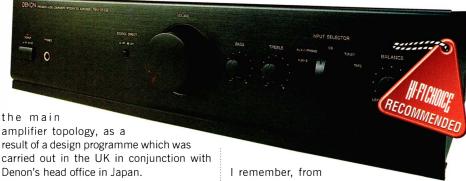
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he PMA-250SE replaces the now defunct PMA-250III, and is the junior of the PMA-350SE (Recommended HFC 162), which is a more powerful and expensive design with a minimalist control scheme. The PMA-250SE is clearly designed to attract customers who cannot be channelled towards the PMA-350SE, and the amp is equipped with tone controls, an extravagance that the necessarily limited parts budget in the amplifier can ill afford. If you can bear to manage without, it is best to use the Source Direct bypass switch.

There are few other unnecessary gadgets. You can connect headphones or a single pair of speakers, but there is no phono input as standard, and surprisingly there is no tape-monitor facility either. Five line inputs (including one tape circuit) are available, but a moving-magnet phono input can be retro-fitted by Denon for just £14.99, and the amp is also available pre-fitted in this form for £174.98.

Packaging is not exactly radical, but the necessarily lightweight build and rather plasticky control feel is at least balanced by good finish. Design improvements over the PMA-250III are claimed to include tweaks to the power supply, current delivery and to





Sound quality

The panel scored the PMA-250SE reasonably well (averaged over two sessions), and clearly enjoyed listening to it, but with certain reservations. On the plus side, it was felt to be lively and natural, well-integrated and open-sounding. The principal causes of complaint, such as there were, included rather flat stereo perspectives and some degree of congestion through more densely scored passages.

"Good attack and control" was a representative view following the Liszt presentation, "but the higher notes sound slightly forward and edgy". The Jennifer Warnes track was described as "open, detailed and underpinned by a bass line that flows well and is easy to follow" by one; and as "open, freesounding and clean" by another. Just one listener demurred with the comment that the clarity and detail inherent in the recording were not really apparent.

My hands-on testing generally confirmed the panel's findings; if anything it extended them by suggesting that the PMA-250SE reacts rather more to different loudspeaker loads than some of the competition (or, if earlier samples of the same amplifier). In the wrong combination, this PMA-250SE could sound rather uneven and opaque, and the amplifier is only moderately powerful. It would be quite easy to push it over the edge.

Nevertheless, the predominant impression left by the test programme was of a relaxed, easy-going and enjoyable amplifier. Fine detail is neither obscured nor emphasised, and the whole effect can be very easy and natural, especially with small instrumental forces, and at modest volume levels.

Conclusion

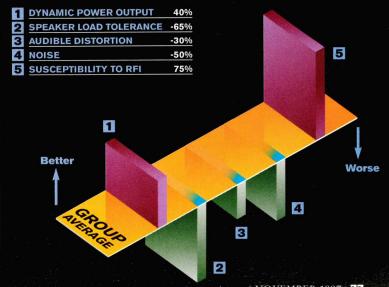
This is not an amplifier for every purpose. but the PMA-250SE works well when the volume control is not used too enthusiastically. It is advisable to think in terms of fairly sensitive speakers and medium-sized rooms. It is no powerhouse, nor was it meant to be. The tone controls have an unfortunate effect on the sound, depriving it of stereo focus and transparency, but if they are bypassed, the amplifier easily meets the requirements for Recommendation at the price. AG

THE LAB REPORT

Whatever the apparent merits of this amplifier, on the basis of my objective evidence, I feel I must temper the assertions made by Denon for its 'upgrade'. In particular, it claims "excellent load capability with 10A peak current rating" and "lower feedback provides greater stability and superior load matching". On the one hand, the PMA-250SE certainly beats its 30W/8 Ohm rating with some 55-59W/8 Ohms across the audioband (single-channel) and does, indeed, achieve an rms current rating of 9.3A into 1 0hm. Nevertheless, referring back four years to my review of the PMA-250III (issue 121) demonstrates that the latter model could deliver 14.1A under the same conditions. In fact, it was the PMA-250II (issue 80 — three and a half years earlier) that first had a current capacity of 9A!

Meanwhile, the increase in output impedance (0.047 Ohms to 0.17 Ohms) and distortion (0.0018 to 0.06 per cent), suggests this PMA-250SE evidently employs less overall feedback. Perhaps as a result, its speaker tolerance could be hampered by the steady increase in distortion with decreasing load (reaching 0.7 per cent into 1 0hm) and its fading output beyond 4 Ohms or so as the 81W/130W/106W/86W 8/4/2/1 Ohm figures, respectively, clearly demonstrate. The PMA-250, it would seem, is no spring chicken. PMi

HOW IT COMPARES



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Next7Y(HFC 11/97)

ioneer's inexpensive new A-204R is undercut only by the Rotel RA931 and AMC 3025a in this test, but boasts a specification including three line inputs and MM phono input, two tape circuits with tape monitor, plus tone and loudness controls and a worthwhile 'direct' switch to bypass the widgets. Also included is a remote system control. The A-204R has the excellent standards of finish expected of the marque, though the metalwork is fairly flimsy. Quoted power output is a relatively modest 25 Watts (eight Ohms, 0.1 per cent THD, 20Hz-20kHz), with a barely significant increase in output into four Ohms, and the price is just £160.

There is silicon intrigue under the hood in the Wide Range Linear Circuit, a "sophisticated feedback configuration" originally introduced in the A-400X (HFC 138), and which forms the basis of the circuit used in the A-300R Precision (HFC 162). The A-204R is also said to be capable of driving low impedance loads, though neither listening tests nor four-Ohm power-output specification lend much credence to this claim.

Sound quality

In keeping with our reviewing practice, this model was tested twice, the second time at





first time round. Indeed, one panel member declined to give a score on the second test run. On its first canter out of the stables the A-204R attracted an excellent set of scores, but on average its performance was probably marked down overall. Nonetheless the nature of listeners' comments, both positive and negative in tone, were similar throughout the two test runs.

Principal complaints were of the sound possessing "muddiness and confusion" (Dohnányi); of a "monotonous, arm's length" quality (Liszt); and of "indistinct vocals" (Jennifer Warnes). But these comments were in the minority, and the Pioneer was also praised for its overall balance and solid musical architecture, "The piano sounds natural, with a believable acoustic and ambient information, and good timing" said one; while another wrote of the "clarity of the guitar strings", and the way in which the "expressive quality of the vocals" came across (Lemonheads with Juliana Hatfield). Good control in the bass was also singled out for praise, especially in the Jennifer Warnes track, which can sound heavy and plodding given the opportunity.

Hands-on testing

failed to dent the Pioneer's reputation significantly, though real-life power output into compact, relatively insensitive speakers is perhaps more limited than was obvious using the high-sensitivity speakers employed for the panel tests. The Pioneer was sometimes a little edgy and had what is best described as a hollow coloration with material as varied as Bach on piano (Rosalyn Tureck) and the song Cool Water (Joni Mitchell).

In passing, it was intriguing to note that the (bipolar) A-204R performs somewhat more satisfactorily at the price than the (MOSFET) A-605R, a senior model from the same range (tested HFC 168).

Conclusion

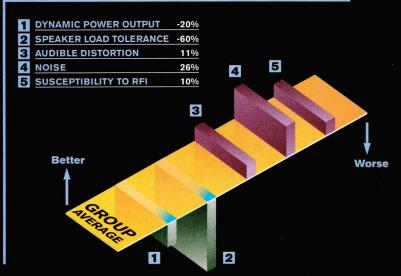
It's easy to pick holes in inexpensive amplifiers like this one, but at £160, the A-204R is a steal, partly because it is well equipped, but mainly because it just doesn't sound like a cheap amplifier, at least when used at sensible volume levels with compact speakers of, say, 88dB/Watts sensitivity or better in a medium-sized room. Recommended. AG

THE LAB REPORT

The high 800pF input capacitance suggests Pioneer is taking the 'slug any traces of RF' route to EMC compliance rather than utilising an amplifier topology that is inherently insensitive to RF in the first place. There remains some mild sensitivity to RF at the low frequency end of the spectrum (5-9MHz), but otherwise, the A-204R looks like a very conventional and thoroughly dependable mass-market budget amplifier. Power output is optimised for easy-going loudspeakers with a continuous 46-49W available into 8 Ohms, peaking at 64W under dynamic conditions. The output impedance is also a little high at 0.18 Ohms, so don't expect the crispest bass performance.

VI-limiting kicks in below 4 Ohms, ensuring that, volt-for-volt, the amplifier's output into sub-4-0hm loads is at significantly higher distortion than at, say, 8 Ohms. Power also tails away at 95W, 90W and 73W into 4, 2 and 1 Ohm loads respectively. Otherwise, the mix of low 0.0056-0.018 per cent distortion, very low -88.7dB (re. 1W/8 Ohm) noise, a healthy 11V input overload margin and fine 0.2dB channel balance error at -60dB, all suggest the A-204R offers good, reliable value for money even if it's unlikely to set the world alight. PMi

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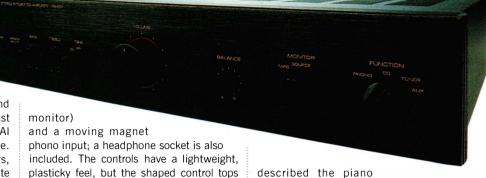
otel's amplifier range has presented an apparently unchanged face to the world for quite a few years, but under the skin things have been moving on. A sign on the back of the RA-931 attests

that it is made in China, and the company now boasts that it designs and makes its own toroidal transformers; last time I looked Rotel was firmly wedded to AI frame transformers in its budget range. Other components, including capacitors, have also been specified. However, despite all these changes, Rotel has chosen to stick with the admittedly neat aesthetics that have become a family feature.

The company has also elected to continue with a comparatively full specification, which includes tone controls (with a narrower than usual +/-6dB operating range, and a bypass switch), and switching for one of the two speaker circuits. The (nominally) main speaker pair, however, remains hardwired and cannot be switched off, and there is a small but significant benefit in bi-wiring to these terminals rather than using the switchable set or mixing the two.

The input complement consists of three line inputs, a single tape circuit (with tape





Sound quality

With an average score from the panel, the RA-931 was seen as an amplifier that broadly lived up to, but didn't transcend, its price limitations. It was said to have a musical character that is rather dry and lacking in subtlety, as well as a propensity to irritate thanks to an excessively sharp top end that allowed rim shots to ring out, yet which paradoxically sounded dull and forced at other times.

used for all but the volume control are wel-

come, and the amplifier gives every indica-

tion of being well built. Rated power output

is 35 Watts into eight Ohms and 45 Watts

into four Ohms, both 20Hz - 20kHz.

The amplifier was praised, however, for its good timing, and for the quality of its bass: "the left-hand playing sounds good mellow and sharp" wrote one of the Liszt Mephisto Waltz No.1, which is a testing recording even for amplifiers more exotic than this. The latter comment was partially confirmed by another panelist who felt that the Rotel sounded "strong on bass extension, but poor on dynamics". Another

sound overall as "dull and lifeless" with some deterioration in the louder passages (a point directly echoed by others). On My Drug Buddy from Lemonheads with Juliana Hatfield, the male vocal was variously thought to be "boxy" and "recessed", again with some "hardening on peaks".

This is indeed a dry and rather literalsounding amplifier, but in many ways a very credible one. Ultimately, however, it lacks a touch of common warmth and grace, the qualities that separate a fine simulacrum from something that gets up on its hind legs and sings. The main failing is undoubtedly in the upper midband and treble, which has plenty of presence, but lacks transparency and can sound rather edgy and mechanical.

Conclusion

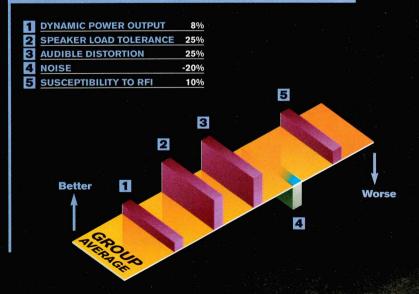
Here is an amplifier that promises much, and which is undeniably attractively priced and well-specified. For all the apparent bonuses, however, the RA-931 ultimately fails to deliver, thanks in particular to an unyielding mid/treble and an undistinguished bass. AG

THE LAB REPORT

This amplifier has an impressive pedigree, beginning with the RA-820AX, which I reviewed over seven years ago (HFC 80). This was superseded by the RA-930AX (HFC 104) and, latterly, by the RA-930BX (HFC 134). I mention this because the latest RA-931 bears very close comparison indeed. The 71W/8 Ohm dynamic output is identical, as is the 12A maximum current delivery, though evidence of VI-limiting at 2 Ohms becomes much stronger at 1 0hm where THD is already 0.2 per cent at a dynamic output of 30W, increasing uniformly to 1 per cent at 121W.

The low 0.023 Ohm output impedance is gratifying but, in common with its predecessors, the power bandwidth is limited. For, though the RA-931 has an entirely flat frequency response (within +0.0/-0.1dB between 20Hz-20kHz) and will sustain 57W/8 Ohms at mid-frequencies, this does sag to 50W at extremes of bass and treble. Distortion is also a little high, rising to > 0.1 per cent at HF, though its complement of 2nd and 4th-order harmonics may not be particularly disagreeable. Both the RA-930AX and 'BX shared these traits, I might add, though the newcomer's S/N ratio at 84.5dB places it squarely in between the performance of its forebears. PMI

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he design priorities for the PM-57 are apparent: to be reasonably bulletproof and extremely flexible. Clearly, it is meant to sound good too, but sound quality is not the only agenda here.

Described in the accompanying blurb as a 'soft line' amplifier, the PM-57 has a well-filled fascia, with large input selectors across the top (three line, two tape and MM phono), and matching indicator LEDs. Just below, on an inset panel, you'll find a separate record selector, which allows any source to be recorded while another is connected to the speakers, and therefore automatically provides a tape monitor facility for either of the two tape circuits. The record selector has additional switch positions allowing tape-to-tape dubbing in either direction, and an 'off' position, which yields a significant improvement in sound quality. Additional features include independent switching for two pairs of speakers, tone controls, tone defeat and loudness, plus of course balance and volume controls. The icing on the cake is a button-bound system remote-control handset, which additionally offers a 'mute' facility. Rear panel system control sockets are also fitted.

Clearly these features place the PM-57



alongside the Kenwood and Yamaha in this group for operational flexibility. Build quality and finish are excellent for the price. Rated power output is also reasonably generous, at 50 Watts per channel into eight Ohms, and 70 Watts into four Ohms (20Hz - 20kHz).

Sound quality

Scoring consistently well in two sessions, the panel reacted to this design favourably, but with little enthusiasm. One listener referred to "moody sound and lack of bite there isn't much going on at the top end, and it tends to shout in the midband". There was a consensus view that this is a smooth and powerful, if slightly coloured amplifier, but it does lack somewhat for ambience. "Uninvolving", wrote one of the Ravel excerpt; "safe and uninspiring" was the verdict on the Lemonheads' Evan Dando duet with Juliana Hatfield in My Drug Buddy.

The following comments were more representative: "good detail, sweet, expressive and musical, but slightly lacking in dynamics and flair". The latter comment referred to the Dohnányi, but in truth its tone was echoed by other panel members about each of the test tracks.

On the basis of hands-on listening I can

1 DYNAMIC POWER OUTPUT

agree with the panel. This is a smooth,

only

attractive-sounding amplifier, but it fails to respond with the requisite enthusiasm to changing tonal and dynamic qualities. Instead, it tends to homogenise, or at least reduce the distinctiveness, of some music, especially those styles characterised by their high octane content or dense, complex structure. This is never a displeasing amplifier, but there were times when it didn't really rock and roll.

More specifically, my contemporaneous listening notes talk of a metallic, clangy piano tone, a lack of individuality with some vocal tracks, a "one-note" bass, and a loss of stereo depth information, especially near the centre of the sound-stage.

Conclusion

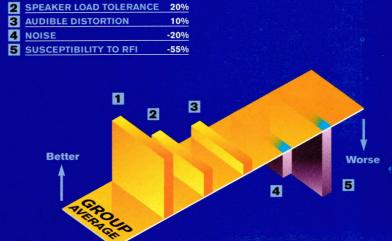
While it becomes rather anodyne when stretched, the Marantz PM-57 is rarely less than enjoyable at other times. Many listeners might well choose it on the basis of its extensive feature list, and comparatively compact packaging for such a wellequipped amplifier. AG

THE LAB REPORT

Marantz's amplifier range is populated with a mixture of highly-tuned audiophile amplifiers and a number of equally powerful but apparently less specialised designs. Judging by the lack of a fanfare to announce it, the PM-57 would appear to fall into the latter camp. There's certainly no disgrace in the PM-57's 66W/8 Ohm continuous and substantial 91W/8 Ohm dynamic output; and yet its invasive protection circuitry limits peak current to just 5.3A/1 Ohm (28W) for bursts longer than 10msec. Should the musical transient last no more than 5msec, then some 16.6A (276W) is permitted to escape! Stick to easy-going speakers for optimum results.

The PM-57's power bandwidth is very wide, though the high 0.22 Ohm output impedance is likely to impair bass performance with some speakers. This may well have been introduced to ensure the amplifier remains thoroughly stable into capacitive loads, particularly as the very low 0.0014 per cent distortion indicates that plenty of compensation (feedback) is at work. Incidentally, distortion increases to 0.018 per cent at higher (treble) frequencies and higher power outputs. Otherwise, the 83dB 1W/8 Ohm S/N ratio is par for the course, as are the 11V overload margin and safe, 37 kOhm input impedance. It won't spring any nasty surprises. PMI

HOW IT COMPARES



The Caspian System by Roksan



ROKSAN

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usical Fidelity has had simple sub-£200 amplifiers in its range for a long time; in fact, since the B1, which was designed to offer the power output and

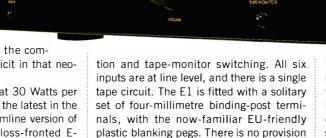
facilities of the A1 without the complication and expense implicit in that neo-Class A design.

The E1, which is rated at 30 Watts per channel into eight Ohms, is the latest in the line, and is dressed in a slimline version of the now-familiar, black-gloss-fronted Eseries casework, which means it looks and feels like a quality item.

Musical Fidelity is not forthcoming about circuit topologies, and has been no more revealing than usual with the E1. The basic power amplifier circuit is claimed to be tonally neutral, low in distortion and to have a high current delivery. Much work, says M-F, has been done to reduce asymmetry between channels. Output semiconductor devices, allegedly, are bipolar.

Apart from the power-on/off button, the only controls are for volume, source selec-





Sound quality

The panel score was average, with little spread of marking. There was almost complete unanimity about the sonic character of the E1, which was judged to have been struck clearly from the Musical Fidelity mould. The amplifier was described as warm, even a little overblown at times, with a generous soundstage presence, good if slightly sweetened tonality and a slightly indistinct, one-note bass line. The latter was evident in the left-hand line of the Liszt piano piece, and also in the fullsounding Jennifer Warnes track.

for headphones. Unlike other Musical

Fidelity products, the E1 is available in the

UK only from the Richer Sounds retail chain.

"Only marred by a slight over-emphasis on the upper bass", was a typical comment of the Liszt, though the same listener also noted that the E1 "makes music easy to listen to", while another wrote "it's 'get your baton out' time!" after the Dohnányi.

My own listening notes conclude that

the E1 will need to be matched

with systems of sympathetic persuasion. It's likely to tame excessively bright speakers, if the brightness is not indicative of some other problem.

There were times when the E1 seemed overblown, when its ambitions exceeded its reach, but there was real drama and depth here too, and an opulent tonality which worked well with small and large-scale chamber and orchestral music, female vocals and the like.

Conclusion

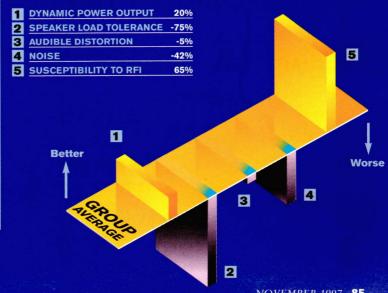
Musical Fidelity claims there is no "tone painting" with the E1 — that it simply tells the truth. In reality it's difficult to assess this claim. It sounds different to most other contenders here, though bears a familial musical resemblance to the NAD and Magnum designs. In general, reproduced rock music sounded a little short of adrenalin, while classical music was reproduced with an organic quality, a bold tonality and a sense of scale that left most of the rest behind. Ultimately, all depends on the nature of the system you erect around this amplifier, and the bottom line here is to listen carefully before buying — but do listen. Recommended. AG

THE LAB REPORT

This is something of a mixed bag from Musical Fidelity: an amplifier whose combination of a low 0.05 Ohm output impedance and gently contoured response (-0.6dB at 20kHz) might seem to promote a firm but sweet overall balance. Sadly, it doesn't seem quite to have worked out this way. Distortion, for example, is astonishingly low at 0.002 per cent through the midrange and yet, as the effect of feedback diminishes, this increases towards 0.04 per cent at the extremes of its range. The figures remain low, but the variation may be subjectively significant.

The E1 is no powerhouse, just achieving its 50W specification into 8 Ohms. Protection bites between 2 and 1 Ohm loads where the absolute current limit of 9.6A restricts the maximum voltage sustainable by the amplifier. This poses no problem into 'easier' impedances, allowing 71W/129W/162W into 8/4/2 Ohm loads respectively under dynamic conditions, but just momentary bursts of 93W into 1 Ohm. Musical Fidelity's bigger amplifiers are significantly gutsier, though this should not necessarily be a concession to budget: just turn to the NAD 312 for a contrary example. PMi

HOW IT COMPARES



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NAD 312

ere's the successor to NAD's semi-legendary 3020, the famous model that launched the concept of beer-budget esoterica as well as the NAD brand itself, many more years ago than your reporter has fingers left to count. The 312 also succeeds

the 302, which was EISA's European Amplifier of the Year 1993-1994.

The 312 appears to be a thoroughly sensible reworking of audiophile principles to which NAD has cleaved since day one. Flexibility is a NAD hallmark, with four linelevel inputs, a moving-magnet phono input and two tape circuits, one of which allows off-tape monitoring. The specification also stretches to tone controls, at which purists will turn up their noses. But NAD has always been consistent in the view that customers want this feature

In any case, the tone-control circuits can be bypassed — even in use their action is limited largely to the frequency extremes. Another favourite NAD feature is 'Soft Clipping', a kind of compression circuit to prevent things getting out of hand at high volume levels. Likewise the removable link between pre and power-amp sections,



which allow the preamplifier to be upgraded, or the internal poweramp to be supplemented for biamplified applications. A headphone socket has been "a nice big fitted for fans of personal listening. open window on the

A smattering of high-quality (so-called 'audiophile-grade') passive components are used internally, and signal switching is performed near the inputs, using long-rodactuated controls. As usual, the 312 is designed to drive loads both reasonable and unreasonable.

Sound quality

The NAD 312 put in a stonking performance and pleased the panel, who repaid the favour with a high average score. Some similarities with the Musical Fidelity were noted: both are warm, large-scale performers. One of the captive scribes noted that the NAD reproduced Dohnányi's orchestral piece "with a string section".

The Jennifer Warnes track was described as "atmospheric, with a soaring saxophone", and as "a sophisticated recording that reproduced well", though a third panel member, praising the NAD's euphony rather than its resolving ability, wrote that the song was "quite engaging once one adjusted to the slight detail loss".

The same listener felt that the NAD was

music", while a third track was felt to be "strong and powerful".

The NAD didn't escape criticism entirely. The Dohnányi scherzo was described as "brash" by one listener, and "atmospheric but hard-sounding" by another.

I had no such reservations in my own tests. The NAD was powerful beyond its official power rating, and worked consistently and confidently with the entire range of partnering speakers at my disposal. Just a hint of euphony in place of ultra-sharp analysis reminded me that this is, after all, a budget design punching above its weight.

Conclusion

The NAD 312 is an object lesson in combining the elements that make up a Best Buy. This amplifier will make music with a wide range of ancillaries; the phono input was a touch glutinous perhaps, but this will not affect most potential users.

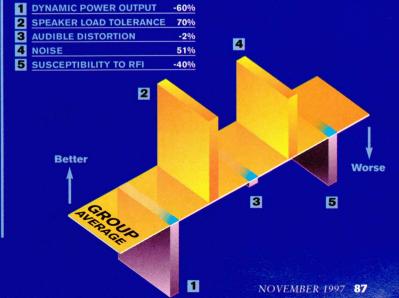
It approaches music-making with great consistency and attractive audio manners, and an almost tactile sense of presence. Buy with confidence! AG

THE LAB REPORT

Contrary to NAD's specification, the 312's load tolerance is traded for a reduction in the amplifier's dynamic headroom, that is the difference between the amplifier's continuous output into, say, 8 Ohms and what can be squeezed out under momentary conditions, typically 10msec. It all works out like this: the amplifier's continuous output into 8 Ohms is 39W, increasing to just 48W (+0.9dB) under dynamic conditions. On the other hand, this dynamic output increases from 48W to 83W, 125W and 158W into 8, 4, 2 and 1 Ohm loads respectively. This is exceedingly generous for what is, notionally, a '40W amplifier'. Do note, however, that with soft-clipping engaged, this drops to 26W, 49W, 88W and 143W into 8, 4, 2 and 1 Ohm respectively

The amplifier does betray some mild susceptibility to RF interference but this is probably only revealed by the very wide 90dB A-wtd S/N ratio. The 'average' amplifier is 5-6dB noisier than this which may, in turn, be sufficient to camouflage the effects of RF IMD. In a 'clean' environment, however, the 312 should sound bigger, beefier and more crisply detailed than its small frame might otherwise suggest. PMi

HOW IT COMPARES





(C100K)

Creek 4330

reek's new entrylevel 4330 takes over from the 4240SE, a seriously successful amplifier in its own right. The 4330 claims to use simi-

lar MOSFET output devices, but with a new 'high speed' drive circuit and, so they say, an enhanced power supply with multiple small reservoir capacitors — an unusual refinement at this price. The idea is to liberate the power amplifier to show what it is made of, as Creek puts it.

All active gain is now achieved in the power amp section, they claim, leaving the front end passive unless the optional phono stage (MM and MC) is specified. On paper it is only a moderately powerful amp with a 40 Watt rating into eight Ohms. However Creek claims that high current delivery allows a 370 Watt dynamic output into one Ohm loads on a peak basis.

As an optional extra there's a remote control with a 'non-scanning microprocessor' to maintain sound quality; like the phono circuit we did not test it here. The remote-controlled version costs £76 extra.

The unashamedly minimalist Creek front



panel limits itself to source

selection, volume control, a tape monitor switch and power on/off. The total input count is five including the tape circuit, all at line level. Headphones are not accommodated. A preamp-level line output is fitted. and could be used in a bi-amplified installation; the speaker terminals are Euro-friendly, though they are tapped for side entry of 4mm plugs.

One more point: the 4330 is tiny. Measuring just 420 by 60 by 230mm (WxHxD), it can be used on shallow shelves that would groan at the sight of a more conventionally proportioned amplifier. Bedsit land please take note!

Sound quality

Regrettably the Creek was not favoured on test, achieving a disappointing score in two presentations. The character of some comments suggests it was lucky to get off this lightly! There were consistent criticisms of the bass, which was felt to be shallow. lumpy and "woomping". The latter may not be in the dictionary, but it is an onomatopoeic description.

Timing was criticised consistently. Treble was marked down for sounding "synthetic" and "shrill", while the overall presentation was felt to be lacking in transparency. Jennifer Warnes's voice came across with a "brassy quality" according to one panelist; her voice was

described elsewhere as "veiled". It should not come as a surprise that there were also consistent criticisms of stereo performance. The Liszt piece, for example, was thought to

The lack of resolving power, stereo depth and cleanly-extended bass was apparent in most of the systems tried. Powerfully recorded bass lines really did "ring" through underdamped full-size speakers, but matters improved significantly with compact speakers like the Tannoy Mercury M2, which are more appropriate to the Creek's job description. The hard, ungracious treble, however, was always a factor, and words like "forward", "hard sounding" and "uninviting" spill out from the listening notes.

Conclusion

It's difficult to understand what's gone wrong here. The amplifier is apparently full of good thinking and common-sense engineering, but clearly it is musically deficient in the ways outlined above.

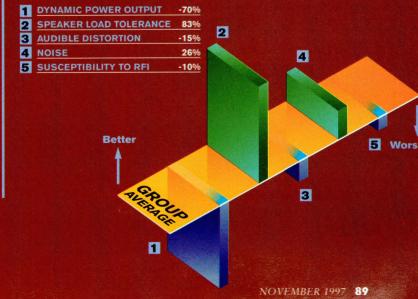
The hard-nosed quality, however, might suit some tastes more than a notionally more transparent amplifier, and perhaps there is something to be said for such a positive, outgoing quality, even if the subtleties have been sacrificed in the process. AG

THE LAB REPORT

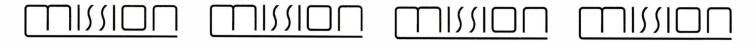
On paper, this 4330 is the least powerful in its group, providing just 40W into 8 Ohms. Nevertheless, Creek's latest MOSFET-based power amp combines low levels of noise (just -89.6dB re. 1W/8 Ohms) and low 0.0045 per cent distortion with a prodigious 19.6A maximum current output. So, though the amplifier might seem to be a mere '40-Watter', it's actually capable of 56W, 99W, 195W and 373W under dynamic conditions (<1 per cent THD) into 8, 4, 2 and 1 Ohm loads, respectively. The most 'argumentative' of loudspeakers should not give the 4330 pause for thought, particularly as these reserves of power are sourced from such a low 0.016 Ohm output impedance.

Meanwhile, the moderate 20 kOhm input impedance will be an easy enough load for most CD players to drive, though there remains a trace of RF susceptibility that could 'roughen' its performance with an unfortunate combination of CD player and/or electrical environment. PM

HOW IT COMPARES



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Kenwood KA-5090R

his is a vast amplifier, which could double as an overnight hold-all if it wasn't covered in controls and in need of a local mains power supply. It is also illuminated like the proverbial Christmas tree when powered up, though it can choose to be coy by hiding the bulk of its operational flexibility behind a front-panel flap. Power output is claimed to be 65 Watts per channel, 0.05 per cent THD, 20Hz - 20kHz.

At the heart of the amplifier is a clever rotary source selector that can be used as a 'listen' and 'record' selector using a 'rec out' toggle behind the flap. Chosen settings are retained between sessions. Switching is available for two pairs of speakers, and Kenwood has kept faith with 4mm binding-post speaker terminals, with the obligatory prise-out plastic caps. Tone and loudness controls are fitted, with a 'source direct' facility for purists, and a 30dB attenuation switch for answering the door/phone/call of nature without losing your volume setting.

The Kenwood is well-endowed with inputs and relay switches, including two tape circuits, three line-level inputs and a phono input switchable between moving magnet and moving coil settings. Bi-directional tape-dubbing and tape-monitoring





The technological highlight of this design is known as TRAITR (Thermally Reactive Advanced Instantaneous Transistor), a semiconductor substrate that incorporates an onboard heat-sensing mechanism which claims to allow continuous real-time biasing adjustments in response to signal dynamics. The idea is to reduce crossover and certain other distortions.

Sound quality

Like a number of the amplifiers tested here, the Kenwood appeared to reproduce a narrow perceived bandwidth that was dominated and led by the midband. There was no real lack of treble: indeed the amplifier sounded bright at times, but there was a significant loss of treble detail and resolving power. One panel member, recognising this attribute, memorably described the Kenwood as "bright and shiny". There is little wrong with the midband per se, and tracks like Lemonheads' My Drug Buddy, which has comparatively little intrinsic bass weight, attracted praise. The Kenwood's bass was more actively disliked when pushed, being described variously as "dull

thudding", for example with the Jennifer Warnes test track *Big Noise*, *New York*.

The most telling criticism, and one that was clearly represented in my own listening, was a loss of dynamic contrast. Everything seems to happen at much the same volume level, and in tone the music seemed often unvarying and monochromatic. In both respects the Kenwood lacked the freedom and range of expression associated with a truly first-rate amplifier.

Unsubtle it may have been, but the KA-5090R was perfectly capable of raising a storm with virtually all of the loudspeakers tried. It was just that the thin, slightly shambolic character of the sound made it unrewarding to do so.

Conclusion

With straightforward, melodic pop and rock, everything was fine; but once the music took on a tougher character, this amp began to sound two-dimensional and unvarying in character, and the spell was lost. Also, the sheer physical size of this amp may debar it from some interior décor schemes. AG

THE LAB REPORT

This unusual amplifier features an extremely extended bass response that's precisely flat to 2Hz, below which it's cut short by a 'brick-wall' DC servo. The effect of this at higher (bass) frequencies is anyone's guess. At higher frequencies, the KA-5090R has a sensible -3dB point of 67kHz, providing a gentle -0.45dB cut at 20kHz (the top of the audio range).

In terms of distortion, there's an increase in odd-order, crossover-like components at low powers and high frequencies, from 0.018 to 0.04 per cent, suggesting that a simple increase in bias rather than Kenwood's elaborate thermal compensation (TRAITR) might yield the sonic gains required. In relation to power output, though 100W/8 0hm seems generous enough, Kenwood's active protection circuitry limits maximum current output to 9.3-9.6A regardless of the load condition. Under dynamic conditions, this yields values of 132W/235W/174W (protection)/74W (protection) into 8, 4, 2 and 1 0hm loads respectively.

The A-wtd S/N ratio is surprisingly poor at 80.2dB (13dB behind the Yamaha!) though interestingly, the amplifier's inherent noise floor remains pretty much unchanged regardless of volume position; available gain determines the dynamic range. A very mixed package, by all accounts. PMI

HOW IT COMPARES 1 DYNAMIC POWER OUTPUT 48% 2 SPEAKER LOAD TOLERANCE -70% 3 AUDIBLE DISTORTION 28% 4 NOISE -55% 5 SUSCEPTIBILITY TO RFI 75% 8 Better Worse

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his amplifier is related to the IA-200, reviewed in *HFC* 162. That unit was described as a low-bias (Class B) variant of the Class A models which are Magnum's mainstay. Much the same applies here. The Darlington output stage is executed with discrete components, and the amplifier is fitted with what the maker describes as a new high-speed rectification stage and multiple local power supplies to speed and beef-up the amplifier's current delivery. Other components have been swapped for better quality types, reportedly. Power output is rated at 65 Watts into eight Ohms, and 90 Watts into four Ohms.

The most striking feature of this amplifier is the chromed front panel, which you are free to regard as being in the worst possible taste if you prefer. Build quality, however, appears to be good, and the exterior panel-



work is significantly solid. This is strictly a line-level amplifier, with a total of six inputs, including one tape circuit with off-tape monitoring. The latter, of course, can be used also as a straight line input, and is capable of delivering marginally superior sound quality.

Sound quality

With a high panelometer reading, the Magnum clearly impressed the jury. Reading through the comments, almost everyone acknowledged the IA-120's strong bass, which was felt to be solid, well integrated and tuneful, with little sign of the upper bass excess and shallow deep bass of some of the others, though one listener complained that the Jennifer Warnes track sounded "overblown and unbalanced".

There was clearly a feeling that leading edges were slightly grubby, however, and the Magnum lacked the clarity of some competitors. Perhaps this was the motivation behind one comment that the IA-120 "lacks refinement", and the same listener's criticism of an "ungraceful piano sound".

This was not the consensus view, however, which was of a bold, confident and fundamentally musical amplifier that was in charge of proceedings, and not about to be

blown off course with every difficult musical passage. In short, the IA120 is an easy amplifier to listen to — and listen through.

In the hands-on tests, the Magnum proved to be less than completely consistent. In general it contrived to sound bold and solid, with a strong sense of drive, but in some combinations it sounded slow and lacking in stereo focus, and a perceptibly sweetened treble sometimes impeded the resolution of fine detail. Undeniably it's an easy and enjoyable amplifier, and tends to perform at its best with relatively bright speakers. It can sound messy with darker, thicker-sounding enclosures — it needs some system synergy working in its favour.

Conclusion

HOW IT COMPARES

It would be unjust not to Recommend this amplifier. It is a bold and thoroughly capable design, and comes with the added benefit of a handy integral mirror. Essentially it sounds a little warm and loose, but it has a thoroughly musical manner that makes recordings sing out. At the same time, it is no all-purpose solution to amplifier requirements, so be sure to listen before you buy. 46

THE LAB REPORT

Despite this amplifier's chromed but utilitarian external appearance, its internal construction is reassuringly professional with a modestly-proportioned power supply feeding a bipolar power amp. It's probably the characteristic of these TIP35/TIP36 Darlingtons that accounts for much of the IA-120's 'character', including a dynamic power output that increases from 123W/147W into 8/4 Ohm loads but drops back to 108W/73W into 2/1 Ohm loads respectively. There are on the market more load-tolerant and, indeed, more *powerful* '65W' amplifiers than this, but the attraction of the IA-120 does not lie in brute strength.

A lone 2nd harmonic is joined by higher orders as distortion increases from 0.02 to 0.1 per cent across the audio range at 1W/8 Ohms, and then on up to 0.22 per cent as the volume is cranked up to two-thirds output. As a further sign of the IA-120's increasing stress at high frequency and power, its IM distortion climbs to a full 0.9 per cent. The pattern, however, is almost exclusively 2nd-order and likely to encourage a certain 'euphonic warmth' in most systems. This is fortunate because the IA-120 betrays some sensitivity to RFI up to 100MHz (where most CD players are 'active') and a limited sensitivity from 100-200MHz. Any deleterious effects of RFI, however, are likely to be masked by the prevailing tonal 'colour'. PMI

DYNAMIC POWER OUTPUT 40% SPEAKER LOAD TOLERANCE -80% AUDIBLE DISTORTION 17% NOISE 4% SUSCEPTIBILITY TO RFI -65% Better Worse

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Sony TA-F448BE

ased on the TA-F448E (HFC 157), the TA-F448BE Brooklands Edition has undergone a now well-established UKbased upgrading programme, which has been applied to selected Sony hi-fi components for the last few years. The changes listed include: an enhanced Torus (sic) toroidal transformer with reduced stray flux; larger power-supply reservoir capacitors in a lower-noise power-supply circuit; and improved earthing. Almost all of these changes may mean everything or nothing. depending on the skills of the designer. Unchanged is the attractive presentation which looks more expensively engineered than the price suggests, and the minimalist interface, with controls limited to an input selector, an over-size volume control, a tapemonitor switch and a speaker on/off switch.

Claimed power output is 55 Watts per channel (eight Ohms/1kHz), rising to 85 Watts into four Ohms. The Sony will accept inputs from a moving-magnet-equipped record deck, three line-level components and two tape decks, both with tape-monitoring facilities. Headphones can be connected, and bi-wire speaker terminals blanked-off 4mm binding posts — are fitted.





the TA-F448BE performed much better than the TA-F448E, though the overall score may have been a little generous in view of some comments from the panel. Indeed no less than three listeners compared it directly to the Yamaha AX-592 (the preceding model in the test) and found it wanting. For starters, it was deemed "less clear" and "not as easy to follow" in the Dohnányi. The Liszt was felt to be "not as even"; the Yamaha had attacked this tumultuous piece with more gusto and enthusiasm. One listener memorably described the Sony as like putting a "von Karajan" filter into the system, which I take to mean that he felt the amplifier sounded manipulative and over-controlled.

However, this rather bleak assessment over-states the case for the prosecution of what was also perceived to be a generally likeable and fairly neutral-sounding amplifier, in the panel and hands-on tests alike; and moreover, one that was consistent in its handling of dynamic and tonal nuances. Though sometimes criticised for "blandness", on the whole it did not squeeze individuality out of the music.

The Sony did lead me into trouble on odd occasions, such as when playing Grainger's Country Gardens (Rattle CBSO) level through a pair of

B&W 805s, which are comparatively insensitive. The piece started out well, but it is a grower, and when the orchestra was let off its leash, the sound soon became edgy and uncomfortable. Backing off a lickspit on the volume control resolved this problem, suggesting that the amplifier was being stretched beyond its limits. When it was kept on the rails, however, (and objectively the Sony is not lacking in power — it simply objects to being treated as a powerhouse) it performed well, with a lively, incisive and very clear account of the music, and a particularly well-lit mid and upper midrange in my tests.

Conclusion

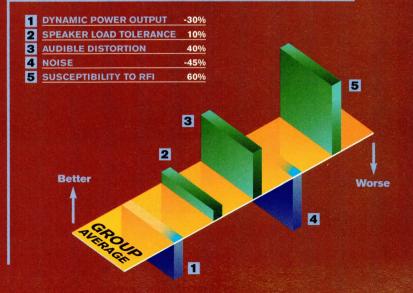
This new Sony clearly meets the requirements for our flag of Recommendation. It is presented as a leanly-carved and gimmickfree product that makes cool and finely disciplined music with a range of speakers. However its prodigious power output is not complemented by graceful behaviour in extreme circumstances, which are easy to provoke with certain musical styles and insensitive speakers. AG

THE LAB REPORT

This may look, feel and radiate as much heat as the TA-F448E amplifier reviewed in issue 157, but the intervening year has seen Sony's Brooklandsbased UK design team hard at work. The upshot is very interesting indeed. For example, at 64W/8 Ohms and 96W/4 Ohms, there's absolutely no increase in power. The amplifier is just as tolerant of difficult speakers with its dynamic delivery of 81W/136W/174W/163W into 8/4/2/1 Ohm loads respectively. However, there's clear evidence of some sort of erratic VI-limiting, possibly an intermittent protection, into 2 and 1 0hm loads where the THD profile is a trifle uneven. And the amplifier still betrays the instantaneous, almost violent clipping behaviour at high powers and high frequencies, which was first observed in issue 157.

Reduced noise and ground impedance are claimed while the board architecture has been revised to maintain stability while reducing feedback. The significance of this is twofold. The A-wtd S/N remains on the low side at 81.5dB (re. 1W/8 Ohms) while distortion has increased from typically 0.001-0.006 per cent to 0.011-0.016 per cent. Importantly, however, this tight band of distortion remains utterly consistent across the amplifier's full dynamic and audio range, a feature that can only bode well for sound quality. PMi

HOW IT COMPARES





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Yamaha AX-592

amaha's AX-592 is a big brute of an amplifier, inhabits a box almost as capacious and dominating as that of Kenwood's KA-5090R — but it has an excuse. Its claimed output is 100 Watts per channel between 20Hz-20kHz, into eight Ohms at 0.015 percent THD. Dynamic short-term power output is said to be high, and even though no four-Ohm figure is given this is easily the most powerful model in the group. It is also the second most expensive.

The AX-592 comes complete with a full system-remote-control handset. Three line inputs are fitted, and a phono input with an MM/MC switch near the input sockets. Independent source and listen selectors allow tape dubbing between the two tape circuits. The AX-592 is even equipped with a control socket for a Yamaha-branded turntable to allow full remote control, though most users will probably opt for a higherquality manual turntable. Tone controls are supplemented by a variable loudness knob, and there is a choice of not one, but two bypass switches. One bypasses the tone controls, loudness, balance and sub (high pass) filter for any of the inputs; another, labelled CD Direct, additionally bypasses the input selector. Two pairs of loudspeakers may be switched independently.





liked amplifiers, the AX-592 scored moderately well, though the comments belie this, suggesting an even higher score. On the whole the Yamaha attracted very few brickbats. The Jennifer Warnes track Big Noise, New York, for example, was described in these terms: "...one of the best of the day with natural vocals, the bass has power and extension, and timing is good". Another commented on the "good vocal quality, sharp rim shots, and the ability to hear into the mix". There was some criticism of a degree of politeness, or a lack of drive in the bass, and also a feeling of a loss of clarity. "Not the most transparent sound, but apart from being a bit heavy in the lower/mid, this amplifier is well-balanced, with natural vocals" was one sum-up comment. Another simply described the Yamaha's second presentation, towards the end of one day's listening, as "the best so far".

I obtained good results in hands-on listening too. It cut though the muddle and congestion that afflicted the B&W 805

some circumstances,

and it helped bring the Tannoy Mercury M2s to life. Dynamics, too, were strongly presented, but there was a relentlessness in the higher frequency region that tended to irritate in long-term listening, and bass lacked the physical quality and pace needed to drive along the music convincingly.

The only quirk is the way that output levels increase very quickly in the early part of the volume knob's rotation. Potentially this could have a significant effect for those listening on headphones or via speakers at low levels. This effect can help amps seem more responsive and powerful, but means that their volume setting is being used where channel balance is least consistent.

Conclusion

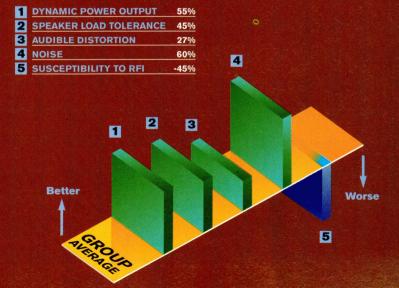
This amplifier misses Recommendation by a whisker, but remains worth considering as a good all-rounder which is a simply not quite competitive enough to shine at the price. AG

THE LAB REPORT

Tested with the 'CD Direct Amp' and 'Pure Direct' facilities engaged, this amplifier returned a state-of-the-art noise performance. Even with its unnecessarily high +45dB overall gain, leading to an input sensitivity of just 16mV for 1W/8 Ohms, the A-wtd S/N ratio remains some 10dB ahead of the norm at an incredible 93.7dB. At two-thirds output, the S/N ratio increases to 103dB, though the amplifier's input overload margin is reduced to just 2.65V — insufficient in the light of today's high output CD players. This margin does increase to 8.7V with the 'CD Direct Amp' switched out, even though the overall gain is reduced by only 0.3dB. The gain could easily be reduced by 10dB or more, allowing a more linear portion of the volume control track to be utilised.

In common with most amplifiers that run almost stone-cold, the Yamaha betrays evidence of odd-order crossover distortions at HF/low power, while unusually, there is a peculiar step-function to its dynamic output profile where THD increases by 8-10dB at the 50W level, almost regardless of load condition. Plenty of power on tap for a '100W amp' — this one's capable of delivering a speaker-thumping 134W/252W/408W/485W under dynamic conditions into 8, 4, 2 and 1 0hm loads respectively. PMh

HOW IT COMPARES



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Conclusions

was more than intrigued to discover that the best amplifiers of this group were in many ways the models with the fewest pretensions. Pioneer was awarded a Recommended swing-tag, for example, for a straightforward model. Unlike some of the others in this price range, it is essentially just another commercial amplifier with little more to recommend it than strong equipment levels and the promise of adequate sound qual-

ity. The NAD 312, the only Best Buy in this test, inherits a slightly different tradition. NAD was always a 'sound-first' supplier, with features played down, though tone controls have miraculously survived the pruning shears in this case.

There is not really a strong enough statistical base to draw conclusions, but it is at least possible to speculate that the added unit costs of producing a UK special, 'Special Edition' or other improved

model may not pay off when the alternative is a slightly senior, but unimproved model at the same price. The point here, of course, is that one should not judge a book by its cover. As was noted in the introduction, it really doesn't matter in the end if an amplifier has tone controls and loudness buttons, or whether it has fancy capacitors and specialised low feedback circuits. In the end, it is not what it is that counts. It is what it does.

GROUP A (UP TO £160)

AMC 3025a	£129.95
Denon PMA-250SE	£159.99
Pioneer A-204R	£159.95
Rotel RA-931	£149.95

As well as bearing an uncanny resemblance to a NAD, the AMC 3025a is the least expensive amplifier tested here, and one of the cheapest you can buy with any pretence of decent sound quality. Ostensibly it is a conventional product, but it turns out to be something of a powerhouse, easily outranking some of the more expensive models in speaker-driving ability, despite having only 30 Watts per channel on paper. Also, it boasts a phono input, with moving-coil compatibility no less. Admittedly, in absolute terms it has limited musical potential, and the phono stage is not the best part of the design. (It's hard to imagine a sensible system

that could include this amplifier and a moving coil cartridge, which is unlikely to cost much less than the amplifier itself.) But as ever, AMC can't be faulted on value for money.

The **Rotel RA-931** represents a new generation of amplifier, from a brand that practically invented the concept of a tweaked Far-Eastern amplifier, but which has been less pro-active



more recently. Rotel has been careful not to frighten the horses with the '931, which is virtually indistinguishable from previous-generation products. It is a good amplifier too, but ultimately a little too close in price to alternatives that performed even better on test.

Nevertheless, the Rotel is a well-built and attractive model, in every sense.

Costing just £10 more than the Rotel are models from Denon and Pioneer, the PMA-250SE and the A-204R respectively. The Denon PMA-250SE, as you might guess a Special Edition model, emerged from a joint UK/Japan design exercise alongside the '350SE. In many ways the '250SE is the straight guy of the two, the one that has been compromised for commercial acceptability, which is why it has tone controls, while the PMA-350SE doesn't. Not that this stops it doing well. But then, the Pioneer A-204R is about as far from being a specialised audiophile product as the Pioneer range allows, yet this is the one that came up smelling of roses in our tests, in relative terms outranking its own hightech cousin, the A-605R.

GROUP B (£161-£200)

Marantz PM-57	£199.90
Musical Fidelity E1	£199.00
NAD 312	£199.95

The Musical Fidelity E1 is not on general sale in the UK, but is available exclusively through the Richer Sounds retail group. The E1 is the successor, several time removed, to the B1. It boasts a newly developed circuit topology, and is claimed to be more tonally neutral than its predecessors. In fact, it sounds very different to most competitors, but this is no criticism, and

although it is a little fussy about partnering equipment, and doesn't appeal equally with all types of music, it can sound exceptionally spacious and refined. Anyway, since when were all kinds of music equal?



The **Marantz PM-57** was mildly disappointing. It is not a bad amplifier by any means, and

it will be possible to build affordable, enjoyable, musical systems based around it. Nevertheless, it was generally felt to be unremarkable at best, and seemed unable to get a grip on difficult music. Not so the NAD 312, which put in an outstanding performance all round, despite having only a modest specification on paper. It is a lively and detailed performer, but never sounds bright or cluttered: here is an amplifier that allows you to forget this it is an amplifier — it just goes with the musical flow.

GROUP C (OVER £201)

Creek 4330	£279.00
Kenwood KA-5090R	£299.95
Magnum IA-120	£265.00
Sony TA-F448BE	£249.99
Yamaha AX-592	£279.95

Moving up the price ladder, we hit a group of five models priced at £250-£300. The criteria for judgement must be tightened up here to allow for some talented existing competition (see *Best of the Rest*), and three of the models failed to achieve a Recommendation.

The Creek 4330, for example, was disappointing for its lack of transparency and resolu-

tion, and for its odd bass quality, though sympathetic system matching can help ameliorate these failings. This is a shame, not least because so much well-considered work has gone into the design, but also because it is extremely compact. The Yamaha AX-592 and



the **Kenwood KA-5090R** are perfect examples of a more corpulent trend. The Yamaha is the better of these two. Just missing a Recommendation by a whisker, its principal fail-

ing was a rather intrusive treble and some loss of drive in the grunt department. The Kenwood was less well-liked, and was described by some as a "midband special" — not the only one in these tests, it should be said.

The Sony TA-F448BE (B stands for Brooklands, Sony's UK base) is arguably the best-looking amplifier in this test, and although it exhibited some mild shortcomings, it performed well. A tidy and well-controlled amplifier. The Magnum IA-120 is more muscular and organic, if slightly less refined and detailed. Both are excellent amps on which some very capable systems could be built.

98 NOVEMBER 1997 HI-FI CHOICE

BEST BUY

ne model was awarded full Best Buy status. The NAD 312 is simply a fine all-round amplifier which performed well without excelling in any particular department. Suffice it to say that it was clean, detailed and insightful and it knows how to control a pair of speakers.



ECOMMEND

ive models are Recommended. In ascending price order, the AMC3025a is astonishingly inexpensive for so complete a performer, though readers should be aware that although power output is not an issue, its rather glossy, soft-centred sound quality may well be. The Denon PMA-250SE also veers towards euphony, but it is well worth its slightly higher price-ticket.

The Pioneer A-204R is an amplifier with few pretensions: just a sensible internal design, some useful features (remote control for example), and a low price. Arguably, it is superior to Pioneer's more expensive A-605R model.

The Magnum IA-120, the silver-fronted amplifier, is another very likeable design, still perceptibly on the euphonic side of the fence, but with a bold architectural quality and a strong sense of pace and timing.

Musical Fidelity's E1 earns a

Recommendation for an amplifier that can play outside its price class if partnered with appropriate loudspeakers. It doesn't really rock'n'roll like the Magnum, com-

Finally, the Sony TA-F448BE has done what its predecessor could not, it makes cool and finely disciplined music with plenty of grunt.

pensating with rich tonality.





ho could envisage buying an amplifier around £250 without at least considering the Arcam Alpha 7? At the same price, harman/kardon offer the muscular HK620, and there are others to consider too, including the naturalistic £300 Audio Innovations Alto, the Marantz PM-66SE at £230, and the £200 Cambridge





Audio A3i, which offers a masterclass in information retrieval.

Less expensive alternatives worth considering include another AMC, the £170 3050a, the £180 harman/kardon HK610,

and the Denon PMA-350SE at £200. Finally, just to show that AMC isn't untouchable at the bottom of the market, NAD has its own giant slayer in the shape of the £100 NAD 310.

Five Stars

Paul Messenger explains why you should visit an independent

Why use a specialist hi-fi dealer? The short answer is because he knows one hell of a lot more about hi-fi than you do. And if you've gone to the trouble of picking up a specialist magazine on the subject, you're obviously interested in something rather more than a mini system from the nearest electrical superstore.

You've probably bought this magazine for one of two reasons. You're looking for advice (presumably unbiased and good) on choosing and using your hi-fi system, and/or you're checking out the ads to decide where to go and buy it.

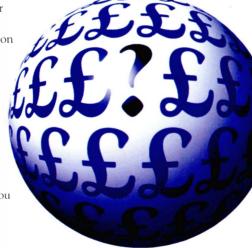
The independent specialist dealer doesn't know everything, and he doesn't know much about you, but if music's an important part of your life, he's the only guy around who's able (and hopefully willing) to help you choose the equipment which will give you the best long term satisfaction.

Power of the Press

Dealers sometimes moan to me about the power of the press, and the disproportionate influence of its 'Best Buy' and multistar ratings. Well, I've been in the press for twentysomething years, and still feel more ignorant than powerful.

The more I mess around with hi-fi gear, the more I become aware of our lack of real understanding of the subtleties involved, and the more I appreciate the importance of the dealer's skills and experience, in bringing together components so that the whole is greater than the sum of its parts.

We hacks get paid to write words, often about components in isolation, because



individual product reviews are still the staple diet of the press. They can sometimes provide a useful guide to the way a product performs, but only under the particular circumstances in which the review was conducted.

The hi-fi reviewer attempts, with varying degrees of success, to evaluate a particular component, and find something interesting (and hopefully positive) to say about it. That's about the end of it, and it's on to the next product.

The magazine prints the review, and that very process magically confers a measure of authority. Experienced hi-fi

enthusiasts, who read reviews over a period of years and try out various products themselves, soon start to realise the limitations of that approach. Some reviews are better than others, but none can get to grips with the real heart of the problem - whether a given product will improve your musical satisfaction, in your system and your room.

The Role of the Dealer

The dealer's role is very different, and potentially much more valuable. He has the chance to talk one-on-one. If he's good at his job, he'll use that opportunity to find out what you as an individual are looking (or listening) for.

His motivation is very different too. Sure he wants to make a sale. That's the lifeblood of any shop. But he also knows that if something he sells really does deliver long term satisfaction, there's a very good chance you'll come back again to see if he can repeat the trick some time in the future.

If you go into a shop and demand a particular CD player, on the basis that it got seven stars (out of five) in last month's magazines, the shop will probably simply take the line of least resistance and sell it to you. (Or switch-sell you to a similar price alternative, if he's fresh out of stock of that particular flavour-of-themonth.)

If you go in and say you're looking for a CD player, and want his advice on what to choose, things are liable to become more interesting. The onus is now on the dealer to show what he can do. His first task is to ask the right questions to try and get some idea of what you might be after.

Asking the questions is the easy bit. The real skill comes in using the information to come up with a shortlist of likely contenders, and then conducting a demonstration so that you have a real chance to play a central role in the

For Value

specialist dealer if you are searching for real hi-fi satisfaction

decision making process.

Putting together a successful hi-fi system might not be as difficult as it was twenty or thirty years ago, but it's just as easy to make a mess of things. Put the 'wrong' combination of components together and it'll still sound a lot better



than any cute little mini system package. It might even rate a five star review. But it won't match the potential of a carefully balanced and properly installed system, and it certainly won't cater for your own particular preferences and personality.

We British are notoriously undiscriminating consumers, at a mass market level at least. The majority of the population don't even bother to drive a car they're thinking of buying, never mind take the trouble to listen to hi-fi equipment.

The majority will therefore end up with hyperstore mediocrity, and hi-fi that's about as tasty as supermarket bread. But if music is an essential ingredient in your daily diet, you owe it to yourself to become a member of the discriminating minority.

You know full well that your music collection is as individual as your wardrobe, and just as precious too, so it's worth taking the time and trouble to search out the dealer and equipment that will make that collection come alive, and give you a new buzz every time you play your favourite discs.

The independent specialist may not beat the chain store on price, but he continues to thrive in a hostile environment because real hi-fi is so much more than a matter of price. The people who work in these shops are themselves enthusiasts, often with many years of experience in meeting customer's needs, and the very necessary expertise to ensure that the whole thing is properly set up to deliver the best results.

The better the hi-fi, the more important it is to get the fine details right at the installation end of things, but even the least expensive equipment can be made to sound a whole lot better if good care is taken over the fine details - the support furniture, the cabling, the positioning of speakers and so on.

Without expert assistance even high class hi-fi can give mediocre results. With it you'll stand a very good chance of ending up with something rather more than a consumer durable - something which will be a source of considerable pleasure and genuine emotional satisfaction for decades to come.

I agreed to write this signed piece, irrespective of the specific sponsors, because I believe the independent specialist dealer plays a vital role in giving customers long term hi-fi satisfaction.

Paul Messenger

The specialist Dealers listed here are professional and enthusiastic. Give your nearest a ring for a demonstration.

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value for money service facilities verdict



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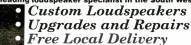
PRODUCT	STATUS	WAS	NOW	PRODUCT	STATUS	WAS	NOW
Arcam Xeta 1 AV Amp	new	999.90	499.90	LinnEkos	xd	1500.00	1125.00
Audiolab CDM/DA C	xd	2299.80	1499.00	Linn Klout	s/h	2400.00	1560.00
Aura VA100/II	xd	399.90	259.00	Linn Numerik	s/h	1500.00	999.00
Cyrus Disc/Dac	xd	1500.00	1225.00	Linn Keilidh	s/h	850.00	680.00
Cyrus Disc/Dac	new	1500.00	1325.00	Linn Keltik Yew	s/h	6000.00	3800.00
Cyrus IIIi	xd	59800	508.00	Linn Keltik Walnut	s/h	6000.00	3600.00
Cyrus P SX-R	xd	328.00	278.00	Linn Kremlin	s/h	2600.00	1560.00
Cyrus DAD3	xd	59800	508.00	Linn Kairn Phono	xd	1750.00	1299.00
Cyrus DAD3 Q	xd	898.00	763.00	Linn Kairn Phono	s/h	1750.00	1190.00
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Cyrus Power	xd	498.00	425.00	Marantz C D63SE	xd/new	349.00	269.00
Cyrus Pre	xd	648.00	55000	Mission 7311	new	129.90	99.00
Cyrus Pre - nc Renote Comma		64800	437.00	Mission 731 LE	new	149.00	119.00
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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.

Discover which products fall within your budget by using our Price Guide (starts on the next page). This listing is updated bi-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...

Read about the hi-fi equipment that we have reviewed in the Directory (starts after the Price Guide). 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.

3

Find your nearest hi-fi store in our Dealer Directory (starts on page 139) 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 CHITTING TO yourself can you draw meaningful conclusions about 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!

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Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX7R	6 6 6	30W 75W 100W 85W 70W 65W 50W 65W 50W	575 649 650 700 695 615 649 549 650 700
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR ### FOOT To COMPA Alchemist Forseti Integrated Audio Note Oto Line PP	6 6 6 6 6	30W 75W 100W 85W 70W 65W 50W 65W 50W	575 649 650 700 695 615 649 549 650 700
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR #701 to £10 Alchemist Forseti Integrated	6 6 6	30W 75W 100W 85W 70W 65W 50W 65W 50W	575 649 650 700 695 615 649 549 650 700 949 950 999
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR E701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702	6 6 6 6 6	30W 75W 100W 85W 70W 65W 50W 65W 50W 12W 100W 12W 100W 60W 70W	575 649 650 700 695 615 649 549 650 700 949 950 999 945 938
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX7R ### ### ### ### ### #### ###########	6 6 6 6 6	30W 75W 100W 85W 70W 65W 50W 65W 50W 12W 100W 12W 100W 70W 70W 50W	575 649 650 700 695 615 649 549 650 700 949 950 999 945 938 1,000 995
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR PROFITE OF THE STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM STORM	6 6 6	30W 75W 100W 85W 70W 65W 50W 66W 65W 100W 12W 100W 70W 70W 55W 70W	575 649 650 700 695 615 649 549 650 700 949 950 999 945 938 1,000 995 800 790
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX7R E701 to E10 Alchemist Foreti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super	6 6 6	30W 75W 100W 85W 70W 65W 50W 60W 50W 12W 100W 12W 100W 70W 70W 55W	575 649 650 700 695 615 649 549 650 700 949 950 999 945 938 1,000 995 800
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR EXTO 1 to E10 Alchemist Foreti 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 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/X HK680	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	30W 75W 100W 85W 70W 65W 65W 65W 100W 100W 70W 70W 70W 70W 70W 70W 70W 85W 85W	575 649 650 700 695 615 649 549 950 999 945 999 945 800 790 995 800 790 995 1,000
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX7R 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 LTD 0 LE Integrated Linn Majik (Phono)	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	30W 75W 100W 85W 50W 65W 50W 100W 12W 100W 12W 100W 50W 50W 50W 50W 50W 50W 50W 50W 50W	575 649 650 695 615 649 549 950 999 945 938 1,000 790 790 995 1,000 799 800
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX/R ### C701 to £10 Alchemist Forset 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 H/K HK680 LF D 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	30W 75W 100W 65W 50W 12W 100W 65W 50W 12W 100W 55W 50W 66W 32W 100W 55W 60W 55W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60W 85W 60	575 649 650 700 695 615 649 949 950 999 945 938 800 790 790 790 790 800 815 900
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Slak Electronics Storm 2 TEAC A-BXTR ST01 to \$10 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 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE		30W 75W 85W 70W 65W 50W 100W 12W 70W 70W 70W 50W 85W 70W 85W 85W 85W 85W 85W 85W 85W 85W 85W 85	575 649 650 700 695 615 649 650 700 899 945 800 995 800 790 995 1,000 995 1,000 995 800 790 800 815
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX/R Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Capland CSA8 Credo IMP702 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) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2		30W 75W 100W 65W 50W 12W 100W 55W 50W 12W 100W 55W 50W 55W 55W 55W 55W 55W 55W 55W	575 649 700 695 615 549 650 700 949 950 948 938 1,000 790 790 790 790 800 815 900 795 950
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Slak Electronics Storm 2 TEAC A-BXTR STOTE STOTE STORM 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) Magnum Class A SE Marantz PM-17 Meridian S51 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2 Minstrel Utra Linear Monrio MC-200S		30W 75W 85W 100W 65W 100W 65W 100W 12W 100W 55W 50W 55W 50W 55W 50W 55W 50W 55W 50W 55W 60W 55W 60W 60W 60W 60W 60W 60W 60W 60W 60W 60	575 649 700 695 615 649 549 949 945 950 999 1,000 995 1,000 790 790 800 815 900 895
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX7R 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 HK880 LFF 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07		30W 75W 65W 50W 60W 50W 60W 50W 60W 55W 60W 55W 60W 55W 60W 55W 60W 55SW 60W 55SW 60W 55SW 60W 55W 60W 55W 85W 85W 85W 85W 85W 85W 85W 85W 85	575 649 650 700 695 615 649 549 950 999 938 1,000 790 790 800 815 750 950 990 885 750 1,000
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR PROFITE STORM Audio Note Oto Line PP AVI S2000MI Capland CSA8 Credo IMP702 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LF0 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 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		30W 75W 85W 60W 12W 70W 85W 50W 85W 50W 85W 70W 12W 100W 12W 70W 85W 60W 55W 75W 85W 60W 75W 85W 60W 75W 85W 60W 33W 85W 60W 33W 30W 30W 30W 30W 30W 30W 30W 35W 35W 30W 30W 30W 30W 35W 35W 35W 30W 30W 30W 30W 35W 35W 30W 30W 30W 30W 30W 35W 35W 30W 30W 30W 30W 30W 35W 35W 30W 30W 30W 30W 30W 30W 30W 30W 30W 30	575 649 700 685 615 649 549 950 999 945 51,000 790 790 790 790 790 790 790 790 795 995 1,000 795 995 1,000 795 995 1,000 795 995 805 805 805 805 805 805 805 805 805 80
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Slate Electronics Storm 2 TEAC A-BX7R 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 LED 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 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		30W 75W 85W 70W 85W 50W 100W 100W 100W 100W 100W 100W 100	575 649 700 695 650 700 695 615 649 950 999 938 1,000 790 995 1,000 950 950 950 950 950 950 950 950 950
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Slak Electronics Storm 2 TEAC A-BXTR STOT 160 \$10 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 S1-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 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 TEAC AB-X10 THOLORY		30W 75W 85W 70W 85W 50W 12W 100W 70W 70W 70W 85W 70W 85W 70W 85W 60W 85W 60W 85W 60W 33W 85W 60W 33W 85W 60W 30W 80W 50W 100W 100W 100W 100W 100W	575 649 700 685 615 649 549 949 940 950 999 945 1,000 790 790 790 800 815 900 1,000 795 760 1,000 730
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Slak Electronics Storm 2 TEAC A-BXTR STOOL To STOOL To STOOL To STOOL To STOOL To STOOL To STOOL To STOOL To STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL TO STOOL		30W 75W 85W 70W 85W 50W 100W 100W 85W 70W 85W 70W 70W 86W 70W 70W 85W 70W 85W 85W 85W 85W 85W 85W 85W 85W 85W 80W 80W 80W 80W 80W 80W 80W 80W 80W 80	575 649 700 695 615 649 949 940 995 1,000 790 880 8815 990 1,000 795 1,000 799 990 885 760 1,000 799 991 1,000 895 760 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 995 1,000 9
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Slearne Phase 2 Stemfoort SF60 Alk Electronics Storm 2 TEAC A-BX7R 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 LF0 OLE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 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 TEAC AB-X10 Thule IA100 Unison Simply Two		30W 75W 85W 70W 85W 50W 12W 100W 70W 70W 70W 85W 70W 85W 70W 85W 60W 85W 60W 85W 60W 33W 85W 60W 33W 85W 60W 30W 80W 50W 100W 100W 100W 100W 100W	575 649 700 685 650 700 685 649 549 950 999 945 950 999 9800 815 990 8815 990 885 750 990 885 750 1,000 730 799 889 1,000
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearme Phase 2 Stemfoort SF60 Slak Electronics Storm 2 TEAC A-BXTR ST01 to \$10 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 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 2 Minstrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100 TEAC AB-X100 Unison Simply Two		30W 75W 85W 70W 85W 50W 100W 100W 85W 70W 65W 100W 100W 100W 100W 100W 100W 100W 10	575 649 700 695 615 649 949 940 995 945 938 1,000 790 815 990 815 990 875 760 1,000 799 849 1,000 949 1,199
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Slearne Phase 2 Stemfoort SF60 Slearne Phase 2 Stemfoort SF60 Alk Electronics Storm 2 TEAC A-BX7R **TOT to SIO 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 LF0 O LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 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 TEAC AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 Unison Simply Two **TOTALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10 THALE AB-X10		30W 75W 85W 50W 100W 155W 70W 30W 35W 50W 100W 155W 70W 26W 60W 12W 100W 25W 26W 60W 26W 26W 26W 26W 26W 26W 26W 26W 25W 25W 25W 25W 25W 20W 12W 85W 20W 12W 25W 25W 25W 26W 26W 25W 25W 25W 25W 25W 25W 25W 25W 25W 25	575 649 650 700 695 615 649 950 999 945 980 980 800 815 790 995 1,000 815 750 990 887 1,000 1,000 1,100 1,1200
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Sciom Shearne Phase 2 Stemfoort SF60 Slak Electronics Storm 2 TEAC A-BXTR ST01 to \$10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI \$2000MI 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) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 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 Pioner A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100 TEAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10 THAC AB-X10	6	30W 75W 85W 70W 85W 50W 12W 100W 70W 70W 70W 70W 70W 85W 70W 85W 60W 70W 85W 60W 85W 60W 33W 85W 60W 33W 33W 30W 55W 30W 50W 100W 100W 100W 12W 25W 26W 26W 100W 100W 12W 25W 26W 100W 100W 12W 25W 26W 100W 100W 100W 100W 100W 100W 100W 10	575 649 700 685 615 649 549 949 955 999 945 8800 790 799 800 795 1,000 795 760 1,000 795 760 1,000 799 849 1,099 1,099 1,099 1,090 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Shearne Phase 2 Stemfoort SF60 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2 Ministrel Ultra Linear Monrio MC-200S Naim Nait 3 R Pioneer A-07 Rega Elicit Shearne Phase 2 Reference Stemfoort SF100 TEAC AB-X10 Thule IA100 Unison Simply Two Line SE Audio Note Oto Line SE Audio Note Oto Line SE Audio Note Oto Line SE Eaudio Note Oto Line SE Eaudio Note Oto Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE Eaudio Note Soro Line SE		30W 75W 85W 70W 85W 50W 100W 100W 100W 70W 30W 75W 75W 30W 75W 75W 70W 60W 75W 30W 75W 30W 75W 26W 26W 26W 26W 100W 100W 100W 100W 100W 12W 25W 25W 25W 20W 12W 12W 12W 12W 12W 12W 12W 12W 12W 12	575 649 700 655 649 549 940 950 999 945 1,000 790 815 750 895 750 895 1,000 795 750 895 1,000 799 849 1,000 849 1,1000 949 1,1000 949 1,1200 1,500
Naim Nait 3 Orelle SA-100RX Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX7R **C701 to £10 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) Magnum Class A SE Marantz PM-17 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 TEAC AB-X10 Thule IA100 Unison Simply Two **Late Color Line SE Audio Note Oto Line SE Audio Note Oto Line SE Audio Note Soro Line SE Beam-Echo SA-50		30W 75W 85W 50W 100W 155W 70W 30W 35W 30W 30W 30W 100W 100W 12W 100W 25W 25W 25W 25W 25W 25W 25W 12W 12W 18W 850W 100W 100W 100W 100W 100W 100W 100W 1	575 649 650 700 695 615 649 950 999 950 998 1,000 995 1,000 815 750 950 950 950 950 950 950 950 950 950 9

**This pre/power combo gets behind the recording and hi-fi... it simply makes music!" **Alan Sircom, Hi-Fi Choice, November 1994 For more information or your nearest stockist, © (0181) 947 5047, or e-mail 73064.1710@compuserve.com **This pre/power combo gets behind the recording and hi-fi... it simply makes music!" **Alan Sircom, Hi-Fi Choice, November 1994 **For more information or your nearest stockist, © (0181) 947 5047, or e-mail 73064.1710@compuserve.com

Copland CSA28	0		1,299
Copland CTA401	0	25W	1,699
CR Dev Romulus V3	0	35W	1,198
CR Dev Remus V3	0	60W	1,989
Credo LIM 702			1,191
Credo LIM 703			1,249
EAR 834	0	40W	1,999
Graaf Venticinque	Θ	20W	1,995
Heybrook Signature II	0	120W	1,600
LFD Integrated 1	Θ	65W	1,099
Marantz PM-16	0	90W	1,700
Meracus Intrare	0	60W	1,095
Minstrel Partridge	0	26W	1,499
Monrio MC-205	0	80W	1,545
Musical Fidelity A1000	0	50W	1,500
Primare 301	0	80W	1,800
Rogers E-20a	0	17W	1,090
Rogers E-40a	0	42W	1,900
Sonic Frontiers Anthem Integrated	0	25W	1,295
Unison Simply Four P	Θ	24W	1,555
Unison Simply Four T	Θ	11W	1,595
Woodside ISA230 Line	Θ	30W	1,099
Woodside ISA230 Disc	0	30W	1,249
Over £200			200
Adyton Opera	0	50W	2,595
Audio Note Meishu Line		9W	2,750
Audio Note Ongaku	•	26W	6,00 0
Audio Research CA50	Θ		3,990
Cary CAD-300SEI	0	11W	3,495
EAR 859	0	13W	2,499
Electrocompaniet ECI-1	Θ	100W	2,195
Gamma Rhythm Ladis DA30	Θ	18W	2,499
Judio Bilos	22	30W	3,490
Jadis DA60	Θ	60W	5,750
Krell KAV300i	0	150W	2,550
Meracus Onesta	0	75W	
Pioneer A-09	0	45W	4,000
Tube Tech Unisis Sig. Int.	10	30W	
Tube Tech Synergy PPS	Θ	150W	6,900
Unican Desfermance One	-	0.51	
Unison Performance One	0	25W	4,500
Unison Performance One Unison Absolute 845	6		4,500 11,995



PREAMPS

6 – (etc) number of line-level inputs.

Ph – phono input fitted as standard
(may be an option on some other

models).			
Up to £50	00		
AMC CVT 1030A Art Audio Minuet	0	Ph	400 499
Audio Alchemy Vac-in-the-box Audio Analogue Bellini	9	Ph Ph	250 475
AudioInnov P1 AudioInnov L1	0	Ph	369 369
	East of the last		

Audio Note The M			350
Beam-Echo PP-21		Ph	499
Bryston BP1	0	Ph	438
Carver CT-24	0	Ph	499
CR Dev Themis		Ph	349
Creek P43	0		399
Creek P52	O		499
Crimson CS610C	0	Ph	450
EAR 834P		Ph	349
EAR 834L	0		449
Electrocompaniet ECP-1	100	Ph	495
Fase Evoluzione Phonodrive 1.0		Ph	445
Henley HMC50			200
Henley HMC100			450
LFD Mistral Linestage	6		449
LFD LSO Linestage	0		499
Lumley PP70	0		345
Lumley PP1	0		345
Magnum MP120	0		330
Magnum MP660	0		500
Magnum MP330	0		500
Moth 30 Passive	0		149
Moth 30 RIAA		Ph	249
Moth 30 Active	0		349
Musical Fidelity X10-D	0		120
Musical Fidelity X-LP		Ph	130
Musical Fidelity X-PRE	0		200
Musical Fidelity E20	0	Ph	400
Musical Fidelity F2	•	Ph	500
NAD 114	•	Ph	270
NAD 116	0	Ph	430
Naim Prefix			350
Naim NAC92	•		470
Rega EOS		Ph	398
Roksan Artaxerxes 10		Ph	395
Rose RV-23	€	Ph	450
Rotel RC970BX MkII	•		175
Talk Electronics Hurricane 1	0		500
Technics SU-C1000	3	Ph	350
Trilogy 905		1	375
Trilogy 904	100	Ph	375
Trilogy 900	0	Ph	499
Unison Simply Phono		Ph	500
£501 to £20	000		1
Adyton Chorus			1,995

Alchemist Kraken Pre	•		519
Alchemist Forseti Pre	0		919
Art Audio Headline	0		700
Art Audio VPL			741
Art Audio Conductor Phono			750
Art Audio VP1			952
Art Audio Conductor	0		1,250
Art Audio Conductor Export			2,000
Audio Note M1 Line			550
Audio Note M1 RIAA		Ph	550
Audio Note M2 Line			999
Audio Note Discovery			999
Audio Note M2RIAA		Ph	1,099
Audio Research LS7	0		1,750
Audio Research LS3	0		1,997
Audio Synthesis Pro Passion	0		595
Audio Synthesis Passion	0		695
Audio Synthesis Passion 6	0		1,195
Audio Synthesis Passion 8S	0		1,295
Audio Synthesis Passion 8M	0		1,695
Audiolab 8000C	6	Ph	550
Audiolab 8000PPA		Ph	900
Audiolab 8000Q	•		1,100
Aura CA-200		Ph	700
AVI S2000MP	0		949
Beam-Echo SP-21	0	Ph	1,116
Bryston .4	•		642

rston BP5 rston BP20	0 1	Ph	889 1,126	Trilogy 906 Trilogy 902		Ph	995 1,595	Arcam Alpha 8P Arcam Alpha 9P	50W	250 400	Magnum A50SE Meracus Ciere	200W	1,595 1,095
ton BP-25			1,126	Tron Retro	0		1,000	Arcam Delta 290P	70W 75W	400	Meridian 555	60W	750
ston 4B-ST PRO	0		1,756	Tron Nucleus Phono		Ph	2,000	Carver TFM-6CB	65W	399	Meridian 557	200W	1,400
SLP-74 PH-301	Θ.		1,495	Tron Nucleus Tube Tech Seer Line	0		2,000 935	Creek A43 Creek A52	50W	399 499	Michell Alecto Stereo Michell Alecto Mono	50W	1,150 1,989
rd CPA 1800	6		1,795 1,730	Tube Tech Mac Phono	0	Dh	1,150	Crimson CS620C	70W 50W	450	Michi RHB-05	100W 100W	1,100
rd CPA 4000 phono			1,790	Tube Tech Prophet	0	FII	1,970	Earmax Earmax Headphone	0.1W	375	Michi RHB-10	200W	2,000
cordant Exhilerant			900	Unison Mystery One	0		1,750	LFD Mistral Power	60W	449	Micromega Amp	100W	1,250
cordant Exquisite		8	1,950	Unison Phono One		Ph	1,995	LFD PAO Powerstage	50W	499 365	Monrio Cento Monrio HP1	135W	1,495 1,995
nrad-Johnson PV-10AL	6	Ph	995 1.295	Wilson Benesch Stage One Woodside SC27 Line	0	Ph	995 949	Magnum MF120 Marantz MA-500	85W 125W	250	Moth 60 Stereo	135W 60W	1,995 5 99
rad-Johnson PV-12AL	6		1,990	Woodside SC26 Line	•		1,557	Marantz MA-700	200W	400	Moth 30 Mono/100	100W	879
rad-Johnson EF-1			1,990	XTC PRE-1	0		1,250	Mission Cyrus XPA	50W	298	Muse Model 100	100W	1,490
nrad-Johnson PF-2			1,990	Yamaha CX-2	9	Ph	650	Mission Cyrus Power	50W	498	Musical Fidelity FX2	100W	800
oland CSA303 Oland CTA301 MkII			1,199 1.399	Advton Temper	U. F. I	M.S.S.	2,495	Moth 30 Series Power Moth 30 Mono/40	30W 40W	249 469	NAD 218THX NAD 208THX	200W	850 1,100
Dev Carmenta	0 F	Ph	659	Adyton Modus	0		2,495	Musical Fidelity X-CANS	0.1W	130	Naim NAP140	250W 45W	750
Dev Argento		Ph	699	Alchemist The Alchemist pre	U		4,995	Musical Fidelity E30	100W	500	Naim NAP180	60W	1,060
do CMP004			1,246	ATC SCA2			2,499	Musical Fidelity X-A50	50W	500	Naim NAP135	75W	1,655
do CMP005 isen DM-20		8	1,876 1,200	Audio Note M3Line Audio Research LS15			2,650 3,399	Myryad MA 120 NAD 912	60W	450 200	Naim NAP250 Papworth TVA50	70W	1,655 1,425
M 3 Start	0		1.000	Audio Research LS22	6		4,391	NAD 214	30W 80 W	370	Prime Design P-150	50W 150W	650
M 3A Start	ő		1,650	Audio Research LS5 MkIII	6		6,435	NAD 216THX	125W	470	Quad 77 Power	85W	600
A Enlightenment pre			695	Audio Research REF 1	0		9,900	Naim NAP90/3	30W	450	Quad 707	140W	800
A DSP500S			2,000	Boulder L3AE	0	Ph	2,100	Rotel RB970BX MkII	60W	225	Rega EXS	70W	598
avector L200 avector P100	Θ.	69	1,195 1,495	Boulder L5AE Boulder L5M	0		3,400 3,800	Rotel RB980BX Shearne 3.5	120W	450 469	Rega Exon Roksan ROK-S1.5	125W	1,196 1,495
avector L100	6		1,495	Boulder Lom Boulder 2010	0		25,000	Talk Electronics Tornado 1	35W 50W	459	Rose RP-190 (Dual Mode)	70W 75W	550
max Earmax Pre	6		1,895	Cary SLP-94L	6		2,095	Technics SE-A1000	70W	400	Rotel RB990BX	200W	625
Vista S	6		760	Cary SLP-98L	0		2,295	£501 to £20	000	A STATE OF THE	Shearne Phase 3	50W	619
A Vista HD	0		880	Chord CPA 2200	0		2,298	Alchemist Kraken pwr	55W	529	Shearne Phase 3 Reference	50W	729
A Prisma ctrocompaniet EC-4.5	6	Ph	880 1,200	Chord CPA 2800 Chord CPA 3200	0	Ph	3,090 3,352	Alchemist Forseti Pwr AMC CVT 2100A	150W	1,309 600	Shearne Phase 5 Mono Sonic Frontiers Anthem Amp 1	100W	1,500 1,195
ctrocompaniet EC-4R	6		1,495	Chord CPA 4000	0		6,025	Art Audio Quintet	80W 15W	1,393	Sonographe SA250	40W 125W	995
osure XIX			800	Conrad-Johnson PF-R	6		2,490	Art Audio Quintet SE MB	-W	1,500	Sonographe SA400	220W	1,395
osure XVII		Ph	850	Conrad-Johnson PV-12A	0	Ph		Art Audio Concerto	50W	1,669	Sumo Ulysses III	60W	629
se Evoluzione Controlsource 2.0 se Evoluzione Controlsource 1.0		Ph	625 1.395	Conrad-Johnson Premier 15 Conrad-Johnson Premier 14		Ph	3,995	Audio Analogue Donizetti AudioInnov Series 800	60W	575 999	Sumo Polaris III Sumo Model Five	120W	950 1.975
den Tube Audio SEP-1	6		890	Conrad-Johnson Premier 14 Conrad-Johnson Art	6		3,995 14,995	AudioInnov Series 800 AudioInnov First Audio	25W 7.5W	1,749	Sumo Model Five Sumo Andromeda III	60W 240W	1,975
af WFB Two	0		1,195	CAT SL1 Sig. Mk2	9	Ph	6,500	AudioInnov Series 1000	50W	1,799	Talk Electronics Tornado 2	65W	600
naf WFB One			1,895	CR Dev Kastor	0		2,995	Audio Note The P	40W	550	Talk Electronics Tornado 3	100W	750
nley HMC200			750	Credo LPR 001			2,815	Audio Note PO	9W	599	Talk Electronics Tornado 4	110W	1,100
lis DPL2 DMC1 Phonostage	Θ.		1,790 949	DNM 3C Primus DNM 3C Twin	0		2,550	Audio Note P1 Audio Note P1SE	12W 12W	750 999	Technics SE-A2000 Thorens TTA-2000	100W	1,100 599
D LS1 Linestage	6	Ph	999	DNM 3C Six	0		5,050	Audio Note P2	20W	1.000	Thule PA200	30W 200W	1,798
MC2 Phonostage		Ph	1,499	EAR 802MC	6	Ph	2,599	Audio Note P2SE	18W	1,499	Trilogy 948	50W	1,895
LS2 Linestage	0		1,599	EAR G88	0	Ph	9,999	Audio Note Conqueror	8W	1,599	Tube Tech Unisis Sig. Pwr	30W	1,900
D LSB Linestage n Wakonda	6		1,999	EAR P52			15,999	Audio Synthesis Desire	100W	1,695	Woodside SA240 Woodside MA100	40W	1,199 1,733
n Kairn	6		750 1,400	Gamma Era Phono Gamma Era Ref	0	Ph	2,499	Audiolab 8000P Audiolab 8000M	100W 125W	750 800	Woodside STA50	100W 50W	1,733
nley LV1.5	0		895	Gamma Era Sig	0	Ph	19,999	Aura PA-100	100W	700	XTC POW-1	200W	2,000
mley LV1	0		1,150	Graaf GM13.5B	0		3,950	Aura PA-200	110W	1,200	Yamaha MX-2	150W	750
mley PV1.5			1,700	Jadis DP60L	0		2,800	Aura PA-200 C	100W	1,250	Over £2		
nley PV1 rantz AC-500		Ph Ph	1,700 700	Jadis DPL Jadis DPMC	0	DL	3,190 3,190	AVI S2000MM Bryston 2B-LP	150W 75W	1,399 750	Adyton Cordis 1.6 Adyton Cordis 3B	120W	3,495 12,995
rantz EC-500	0	-"	900	Jadis JPL	6	Pn	4,720	Bryston 3B-ST PRO	150W	1,160	Alchemist The Alchemist pwr	280W 220W	3,995
tisse Atom	0		1,000	Jadis JPP200			4,998	Bryston 3B-ST	150W	1,160	Alchemist The Alchemist mono	55W	8,995
racus Ingredi	0		925	Jadis JP30MC	•	Ph	5,978	Bryston THX3B	150W	1,262	Art Audio Tempo	30W	2,499
ridian 501 ridian 562	6 F	Ph	695 765	Jadis JPS2 Jadis JP80MC	0		7,900	Bryston 7B-ST PRO	500W	1,545 1,756	Art Audio Quintet SE Art Audio Maestro	-W	2,500 3,524
ridian 562V			995	Krell KRC3	6	Ph	11,989 3,250	Bryston 4B-ST Bryston 7B-ST	300W 500W	1,756	ATC SPA2-150	100W 200W	2,500
ridian 502	0		1,295	Krell KRC-HR	0		6,949	Bryston THX4B	300W	1,850	AudioInnov Ser 1000SE	50W	2,499
chell Argo	0		730	LFD Disc Preamp			4,499	Bryston THX7B	500W	1,886	AudioInnov Second Audio	15W	3,299
chi RHC-10			795	Marantz Model 7	0	Ph	3,500	Carver TFM-15CB	100W	599	Audio Note P3	9W	2,150
chi RHQ-10 Chi RHA-10		Ph	1,150 1,150	Mark Levinson 25S Mark Levinson 38		Ph	2,950 3,995	Carver A-500X Carver A-760X	250W 380W	949 1,299	Audio Note Quest Audio Note Yubi	9W 18W	2,750 3,850
cromega Tempo P	0		1,150	Matisse Fantasy	0		2,500	Cary SLA-70 II	380W 30W	1,495	Audio Note Conquest	18W	4,450
ssion Cyrus Pre		Ph	648	Matisse Reference	6		3,500	Chord SPM 400	100W	1,325	Audio Note Tomei	30W	8,500
nrio ADN	F	Ph	625	Meracus Pretare	0		2,195	Chord SPM 600	130W	1,720	Audio Note Neiro	7W	11,360
nrio PLUR1-L	0		960	Naim NAC82 Naim NAC52	0		2,160	Conrad-Johnson MV-55 Copland CTA501	50W	1,995 1,750	Audio Note Ankoru Audio Research D130	60W	14,500 2,299
se Model 3 sical Fidelity F25	6 F	Ph	1,990 1,500	Naim NAC52 Roksan ROK-L1.5	6		3,350 2,250	CR Dev Amphion	30W 12W	1,750	Audio Research VT60	130W 60W	2,299
118			1,000	Sonic Frontiers Line 2	a a		2,995	Credo PMP 804	12.11	1,876	Audio Research D300	300W	4,678
m NAC92R	6		630	Sonic Frontiers Line 3			4,995	Creek A52SE	80W	599	Audio Research VT100	100W	4,995
m NAC72	0		725	Tesserac TAP-A	0		5,300	Crimson CS630C	100W	800	Audio Research D400 MkII	400W	6,850
m NAC102 d 77 Pre	0		1,050 850	Trilogy 918 Unison Dream	0	-	2,775	Densen DM-30 DNM PA Start	100W 45W	1,200 1,000	Audio Research VT130 SE Audio Research VT150 SE	130W 150W	8,500 17,000
d // Pre a Hal		Ph Ph	998	Woodside SC26 Line & Phono	6		11,995 2,233	DNM PA1 Start	45W 45W	1,650	Beam-Echo DL7-35	30W	3,525
san ROK-L2.5	0		1,250			-		DPA Enlightenment pwr	100W	995	Boulder 102AE	100W	2,800
e RV-23S	0 F	Ph	525					Earmax Earmax Power	25W	1,895	Boulder 500AE	150W	5,000
arne Phase 6 Pre arne Phase 1 Pre Ref	0		899 1,399	111				ECA Lectern S ECA Lectern HD	50W 50W	880 1,480	Bryston THX8B Carv CAD-300SE	150W 12W	2,385 3,795
ic Frontiers SFP-1	3		1,399		1			Electrocompaniet AW60FTT	60W	1,480	Cary CAD-805	12W 50W	8,495
ic Frontiers SFP-1 Sig			1,495		11.	/		Exposure XVIII Super	70W	850	Chord SPM 800	160W	2,265
ic Frontiers Anthem Pre 1		Ph	1,495	-//	1	-		Fase Evoluzione Powersource 2.0	65W	860	Chord SPM 1000B	200W	2,785
ic Frontiers Line 1			1,995	THE RESERVED				Fase Evoluzione Powersource 1.0 Golden Tube Audio SE-40	100W	1,670 1,000	Chord SPM 1200C Chord SPM 1400B mono	315W	3,840 7,830
ographe SC26 no Athena II Line	0		995 767				E Y	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII	40W 8W	1,490	Chord SPM 1400B mono	380W 415W	12.900
no Athena IIB/II LS	0		987					Golden Tube Audio SE-100	100W	1,995	Conrad-Johnson MF-2200	200W	2,290
no Athena III	0		987					Jadis DA5	40W	1,997	Conrad-Johnson MF-2300A	250W	2,990
no Artemis uP	0		1,595					Lexicon 212	120W	1,850	Conrad-Johnson Premier 11A	70W	3,500
Electronics Hurricane 2	0		650					LFD PA1 Powerstage	60W	999	Conrad-Johnson Premier 12	140W	6,900
Electronics Hurricane 3	0		900 1,100	1775 NO 1871 E-198		TO SERVICE SERVICE		LFD PA2 Powerstage LFD PA2M Powerstage	75W 90W	1,599 1,999	Conrad-Johnson Premier 8XS Conrad-Johnson Premier 8A	150W	17,000 17,000
k Electronics Unericons 4	6 6	Ph	700	POWER AM	PS	WEIGHT !	a Principal	Linn LK100	90W 50W	650	CAT JL1	275W 200W	15,500
			1,500	KEY				Linn LK240	120W	750	Copland CTA505	67W	2,099
hnics SU-C2000 serac TAADA	0						The Real Property lies			1,200	CR Dev Artemis		4,995
hnics SU-C2000 serac TAADA serac TALA	0		1,500	'20W' = output nower	er cl	ann	a I	Linn AV5105	100W			35W	
k Electronics Hurricane 4 hnics SU-C2000 serac TAADA serac TALA serac TAHA	6		1,800	'20W' — output power p			el	Lynwood Ruby	120W	985	Credo LPO 804	35W	2,456
nnics SU-C2000 serac TAADA serac TALA	6			'20W' — output power p into nominal load of 8 Up to \$50	Ohms		el					35W	

HI-FI CHOICE NOVEMBER 1997 111



DNM PA3	50W	2,500
DNM PA3S	23W	3,750
DPA DAP500S Dynavector HX75	250W	3,000
Dynavector HX1.2	75W	2,195 3,995
EAR 861	130W	3,995
EAR 509 Mk II	32W 100W	3,699
EAR 519	100W	4.699
EAR 549	200W	6,499
Electrocompaniet AW100DMB	100W	2,095
Electrocompaniet AW250DMB	250W	3,995
Electrocompaniet AW180MB	180W	4,595
Exposure IV	80W	2,199
Exposure XVI	125W	4,000
Gamma Rhythm Ref Gamma Aeon	35W	3,999 4,999
Gamma Space Ref	20W 18W	7,999
Gamma Aeon Sig	90W	78,600
Graaf 5050	50W	2,150
Graaf GM100	100W	4,490
Graaf GM200	200W	8,000
Jadis DA8	80W	3,333
Jadis DA7	100W	5,290
Jadis JA30 Jadis JA300B	30W	5,980
Jadis JA300B	10W	9,000
Jadis JA200	60W	9,912 15,518
Jadis JA500	160W 400W	21,500
Krell KAV500/2	100W	3,485
Krell FPB200	200W	6,490
Krell FPB300	300W	9,500
Krell FPB600	600W	12,900
Krell KAS2	200W	20,000
Lexicon 225	250W	2,500
Lexicon 501	500W	5,000
Linn Klout Lumley ST70	80W	2,400
Lumley M125	70W 120W	2,225 3,750
Lumley M250	250W	7,500
Magnum Class A mono	180W	2,450
Magnum A200SE	275W	3,750
Marantz Model 8	35W	3,500
Marantz Model 9	70W	4,000
Mark Levinson 331 Mark Levinson 332	100W	4,495 6.495
Mark Levinson 333	200W 300W	8.495
Mark Levinson 33H	150W	19,395
Matisse Ref Monoblocks	180W	8,000
Meracus Tentare	75W	2,245
Meracus Cantare	-W	8,995
Muse Model 160 Ser. II	160W	2,290
Muse Model 150	125W	2,690
Muse Model 175 Ser. II Muse Model 300 Ser. II	175W	3,490 3,990
Musical Fidelity F16	300W 200W	2,500
Musical Fidelity F19	300W	4,000
Papworth M100	100W	2,645
Papworth M200	200W	3,825
Roksan ROK-M1.5	160W	2,250
Shearne Phase 1 Pwr Ref	100W	2,199
Sonic Frontiers Power 1	55W	2,495 4,995
Sonic Frontiers Power 2 Sonic Frontiers Power 3	110W	9,995
Sumo Model Ten/M	220W 240W	4,200
Sunfire Sunfire	300W	2,500
Tesserac TAMP-60	60W	7,350
Trilogy 958	100W	3,395
Tube Tech Genesis Sig.	100W	4,700
Tube Tech Synergy DMA	150W	6,400
Unison Smart 845	24W	3,250
Unison Palladio	32W	11,995
	DATE:	The second second

1./	-
	ND SOUND

AMPLIFIERS/RECEIVERS

'20W' -	output po	wer per	front
channel	into nomi	nal load	of 8 Ohms.

AMC 2445	45W	200
Arcam Xeta One	60W	1,000
Audio Research SDA1		4,391
Bryston THX3B	150W	1,262
Bryston THX4B	300W	1,850
Bryston THX7B	500W	1,886
Bryston 5B-ST PRO	150W	1,892
Bryston THX5B	150W	2,062
Bryston 8B-ST PRO	150W	2,195

Bryston 8B-ST	150W		2.195
Bryston THX8B	150W		2,385
Carver AV-505	80W		899
Carver AV-705X	125W		1.299
Carver AV-753X	250W		1.549
Chord SPM 1600	250W		4,700
Chord SPM 1800	250W		4.700
Chord SPM 2000	200W		4.890
Chord SPM 3000B	315W		7,960
Denon AVC-1800	70W		550
Denon POA-T2	120W		800
Denon POA-T3	120W		800
Denon AVC-3800	90W		1,700
Denon AVP-A1	-W		3,000
H/K AVI100	30W		250
H/K AVI150	55W		350
H/K AVI200 II	65W		400
H/K AVI250	100W		1,250
H/K Citation 7.1	130W		2,500
JVC AX-V4	60W		200
JVC AX-V6BK	50W		230
JVC AX-V8BK	75W		350
Krell KAV500/3	100W		3,985
Krell KAV500/4	100W		4,485
Krell KAV500/5	100W		4,985
Lexicon 312	120W	291	2,750
Lexicon 412	120W		3,250
Magnum MF500	125W		1,445
Marantz MM-500	55W		400
Marantz PM-711AV	65W	E.	450
Mission AV-Master			650
NAD 316	50W		450
NAD 916	30W		500
Onkyo ASV 620	120W		700
Parasound 806 Parasound 1206	80W		1,495
Pioneer VSA 805S	135W	200	2,195 450
Rotel RB956AX	80W		350
Rotel RSP960AX	30W	100	400
Sansui AV-7100	30W 75W		250
Sony TA-VE700	90W		350
Sony TA VE 800G	100W		400
Sony TA VA 8ES	120W		700
Sunfire Cinema Grand	200W		2.600
TEAC AV-H500	80W		380
Yamaha DSP-A492	65W	18	250
Yamaha DSP-A592	70W		330
Yamaha DSP-A1092	80W		850
Yamaha DSP-A990	60W		900
Yamaha DSP-A2070	80W		1,100
Yamaha DSP-A3090	80W		1,500
		100	



SURROUND SOUND PROCESSORS

O – number of inputs. AC-3 — includes AC-3 decoding for compatibility with Dolby's digital home cinema format.

		95	N. K.
AMC Pro7	0		200
Arcam Xeta 2	O		650
Audio Research SDPI			3,293
H/K ADP303	0		600
H/K Citation 7.0	O		3,500
Lexicon DC-1 Pro-Logic			2,000
Lexicon DC-1 THX			3.000
Lexicon DC-1 AC-3	200		4,000
Marantz AV-1030	19.10		330
Marantz AV-1040	6		400
Marantz DP-870	0		600
Meridian 565 AC-3	0		2,700
NAD 117			470
Naim AV1	0		1,680
Onkyo SR 211PRO	•		340
Onkyo ED 901	0		700
Parasound PSP 1500	0	in!	1,569
Pioneer SP-D07	0		800
Sanyo HT D47			200
Sony SDP E300	0		230
Sony SDP-EP9ES	0		600
Technics SH-AV500	•		280
Yamaha DSP-E492	0		250
Yamaha DDP-2			349
Yamaha DSP-E580	0		450

o 700

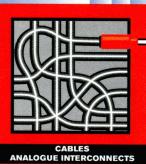
Yamaha DSP-E1000



KEY

output power per front channel into nominal load of 8 Ohms.

Aiwa AV-X100	60W	400
CarverCT-26V	DUVV	699
Carver HTR-880	85W	849
Carver HR-895	100W	1.099
Denon AVR-600RD	50W	300
Goodmans Delta 801	30W	200
Grundig R14DPL	40W	230
H/K AVR10	30W	300
H/K AVR25	65W	600
H/K AVR70	75W	1,000
H/K AVR80	95W	1,500
JVC RX320VBK	30W	250
JVC RX-416VBK	50W	270
JVC RX-616RBK	60W	350
Kenwood KR-V5090	50W	230
Kenwood KR-V6090	100W	280
Kenwood KR-V8090	110W	400
Kenwood KR-V9090	120W	500
Kenwood KR-V888D	120W	1,000
Kenwood KR-V990D	120W	1,300
Marantz SR-370	80W	300
Marantz SR-770	80W	700
Marantz SR-96	110W	1,300
Mission M Time	100W	2,000
NAD 713	60W	400
NAD 917		550
NAD 716	80W	600
Onkyo TXSV 434	65W	400
Onkyo TXSV 424 Onkyo TXSV 525R	50W	450 600
Onkyo TXSV 525R	60W	600
Onkyo TXSV 636	80W 85W	800
Onkyo TXSV 727R	80W	800
Onkyo TXDS 838	100W	1.300
Onkyo TXSV 828THX	100W	1.300
Onkyo TXSV 919THX	110W	2,000
Onkyo TXSV 939THX	120W	3.000
Philips FR731	35W	250
Philips FR751	50W	300
Pioneer VSX-405RDS	. 50W	250
Pioneer VSX-505RDS	50W	300
Sansui RZ-5110AV	50W	190
Sherwood RV-4050R	35W	140
Sony STRD E405	50W	280
TEAC AG-V6200	90W	400
Technics SA-EX300	40W	250
Technics SA-EX500	60W	350
Technics SA-EX700	60W	450
Technics SA-TX50	120W	1,000
Yamaha RX-V392RDS	50W	250
Yamaha RX-V592RDS	70W	400



⊕ – stranded construction.
solid-core construction.
Prices for interconnects are
for a one-metre terminated pair.

Apertura Model	В
Apertura Model	A
Art Yam Church	5000
Audio Note AN-A	

Audio Note AN-C	0
Audio Note AN-S Audio Note AN-V	6
Audio Note AN-Vx Audioquest Jade	0
Audioquest Turquoise 2 Audioquest Topaz 2	6
Audioquest Ruby 2 Audioquest Quartz	0
Audioquest Opal Audioquest Emerald	0
Audioquest Lapis	0
Audioquest Diamond Cable Talk Improved 2/CD	0
Cable Talk Advanced 2 Cable Talk Monitor 2	0
Cable Talk Improved 2/T Cable Talk Studio 2	0
Cable Talk Professional 2 Cable Talk Broadcast 2	0
Cable Talk Reference 2 Cable Talk Signature 2 Gold	0
Cambridge Atlantic Cambridge Arctic	0
Cambridge Pacific Cambridge Studio Reference	0
Cardas Audio 300B-Microtwin	0
Cardas Audio Quadlink-Five Cardas Audio Cardas Cross	0
Cardas Audio Hexlink-Five C Cardas Audio Hexlink Golden-5 C	0
Cardas Audio Golden Cross Connections Ultra	0
Connections Midas Connections HD	0
DNM-Reson TCC75 DPA Slink	
DPA White Slink	
DPA Black Slink Expressive Tech IC-1	0
Gamma Wow Balance Goertz Interconnect	0
GT Audio Intercon Henley HSP10	0
Henley HSP50 Henley HSP100	0
Henley HSP200 Heybrook Black Flash	0
Ixos 104 Ixos 103	6
Ixos 102 Ixos 101	0
lxos 100.X03 Kimber PBJ	0
Kimber KC1	0
Kimber Silver Streak Kimber KCAG	6
Kimber KCTG Kronos Konnekt 3	0
Kronos Konnekt 2 Kronos Konnekt 1	6
LAT International IC-50 LAT International IC-80	0
LAT International IC-100-D LAT International IC-200 Mk II	0
Lieder Chanson Lieder Lek	0
Lieder Het Lied	0
Lieder Song Lieder Maas	0
Lieder Rijn Lieder Waal	0
Lumley Silver 12/2 Lumley Silver 14/4	0
Moth Leyline Black Moth Leyline Grey	0
Nordost Magic Nordost Black Knight	0
Nordost Blue Angel Nordost Blue Heaven	6
Nordost Red Dawn Nordost SPM	0
Ortofon 7N interconnect	0
QED P2 Gold QED Incon P2 Screened	0
QED Incon P1 Screened Roksan ROK-Intercon	0
Siltech MC2-12 Siltech MC4-24S	0
Siltech FTM-3S Silver Sounds SS2	0
Silver Sounds SS1 Silver Tone Ex-Static	0
Silver Tone Sci-Fi	0

	6		35.00
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	()		40.00 60.00 80.00
	0		120.00 189.00
	0		249.00 399.00
	0		549 .00 26 .00
	0		35.00 50.00
	()		50.00 65.00
	•		85.00 100.00
ld	0		150.00 300.00
	0		10.00 20.00
ice twin	0		30.00 40.00 115.00
ve ss	0		200.00 360.00
C len-5 C	0		530.00 600.00
s	0		700.00 28.00
	•		39.00 46.00
		•	34.00 41.00
		•	75.00 245.00
	0		70 0.00 799 .00
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	0 0		20.00 35.00 65.00
	0	•	95.00 49.95
	•		20.00 45.00
	•		60.00 100.00
	0		150.00 68.00
	0		96.00 180.00
	•		390.00 720.00
	•	•	49.00 99.00
	0		199.00 37.00 60.00
D Mk II	•	•	89.00
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	0		620.00 1,000.00
	0		1,400.00 115.00
	0		175.00 100.00
	©		30.00
	0		55.00 90.00 135.00
	0		260.00 825 .00
	0		250.00 20.00
	0		23.00 26.00
	•		75.00 308.00
	0		40 0.00 73 0.00
	0		99.00 199.00
	0		35.00 95.00 46.18
	0		52.06 76.83
	0		102.57 15.00
	0		25.00 35.00
	0		49.00 65.00
	TEI		

Silver Tome Ex-Static
Silver Tome Ex-Static
Silver Tome Sci-Fi
SME S2LB-4
SME S3LB-4
SME 4900A
SME 5900A
Sonic Link Bonus
Sonic Link Red
Sonic Link Red
Sonic Link Black
Sonic Link Black
Sonic Link Black
Sonic Link Black

260.00 469.00 515.00 18.00

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Sonic Link Brown Sonic Link Violet Sonic Link Blue Nickel Sonic Link Wermillion Sonic Link Red earth Sonic Link Blue earth ChordCo Chrysalis ChordCo Cobra ChordCo Siren Sonic Link Blue earth	Art Yam Church M2000 Art Yam Church 5000 Audio Note AN-D Audio Note AN-B Audio Note AN-SP Audio Note AN-SP Audioquest Type 2 Audioquest Type 2 Audioquest Type 6		470.00 795.00 4.50 16.50 29.50 150.00 450.00 3.60 7.50	Silver Tone Silver-Voice Silver Tone Silver-Voice Ultra Sonie Link AST50 Sonie Link AST50 Sonie Link AST200 Sonie Link AST200x2 Sonie Link S300 Sonie Link S300x2 Sonie Link S900x2 Sonie Link S600x2	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	55.00 85.00 1.95 3.00 5.95 10.00 18.00 35.00 50.00 70.00	Shure M70BX Stanton 500AL II Stanton 500EL Stanton 50BL/X Stanton 680AL/X Stanton 680EL/X Sumiko Oyster Sumiko Black Pearl Sumiko Black Pearl Sumiko Blue Point	MM MM MM MM MM MM		38 34 37 56 70 30 50 70
ChordCo Chameleon	Audioquest Indigo 2 Audioquest Crystal Audioquest Forest Audioquest Argent Audioquest Clear 3 Bandridge LC7409 Bandridge LC4110 Bandridge LC3210 Bandridge LC3210 Bandridge LC3219 Bandridge LC3220		12.00 18.00 65.00 95.00 150.00 4.00 28.00 40.00 75.00 90.00	Sonic Link RE3.1 Sonic Link RE3.4 ChordCo Myth ChordCo Legend Transparent Cable Musichord Transparent Cable The Wave Transparent Cable Music Wav Vampire Wire SC-384 Vampire Wire SC-554 Vampire Wire ST-1 Vampire Wire SC-1108	re Spkr 👙	330.00 5.95 15.00 11.00 23.00 25.00 11.00 15.00 30.00 30.00	Audio Note IO2 Audio Note Soara Audio Note IO1V Audio Note IO2V Audio Note IO2V Audio Note IO1td Audio Technica AT-OC9 Audio Technica ART-1 Benz-Micro The Glider Benz-Micro M090 Benz-Micro L040 Benz-Micro L040 Benz-Micro H200	мм	MC MC MC MC MC MC MC	139 795 1,095 1,695 4,500 245 944 650 700 700
Vampire Wire St. 412.00 Van Den Hul Source HB 50.00 XLO Type 150 XLO Type 0.1	Bandridge LC3310 Bandridge LC3240 Cable Talk The Flat One Cable Talk The Flat One Cable Talk Talk 3.1 Cable Talk Talk 3.1 Cable Talk Talk 3.1 Biwire Cable Talk Talk 4.1 Cable Talk Concert 2.1 Cable Talk Talk 4.1 Cable Talk Talk 4.1 Cable Talk Talk 4.1 Biwire Cable Talk Talk 4.1 Biwire Cable Talk Talk 4.1 Biwire Cable Talk Talk 4.1 Biwire Cable Talk Talk 4.1 Biwire Cable Talk Talk 4.1 Biwire Cable Talk Concert 2.1 Biwire	0 0 0 0 0 0 0 0 0	95.00 125.00 2.00 2.00 2.25 4.00 5.00 7.00 9.00 13.00	Vampire Wire ST-III Vampire Wire ST-III VALO Pro 625 XLO Pro 600	8		Benz-Micro Reference Benz-Micro Reference Ruby Benz-Micro Ruby Open Air Clearaudio Aurum-Alpha Clearaudio Aurum-Beta Clearaudio Aurum-Beta/S Clearaudio Gamma-S Clearaudio Gamma-S Clearaudio Gamma-S Clearaudio Accurate Clearaudio Insider Demon DL304 Dynavector 10X4II	MM MM MM	MC MC MC MC MC MC	1,100 1,500 1,600 135 195 265 745 1,595 2,950 5,500 200
DIGITAL INTERCONNECTS KEY Prices for interconnects are for a one-metre terminated pair.	Cardas Audio 3008-Microtwin SC Cardas Audio Quadlink-Five SC Cardas Audio Cross SC Cardas Audio Hexlink-Five SC Cardas Audio Hexlink-Five SC Cardas Audio Hexlink Golden5 SC Cardas Audio Golden Cross SC DNM-Reson LSC8 DPA Black Straten Electrocompaniet EC-K2 Gale XL189 Gale XL185	0 0 0 0	35.00 59.00 99.00 109.00 175.00 239.00 6.95 11.95 100.00 30.00 1.00 2.00	CARTRI KEY MM - moving-ma MC - moving-coil	gnet type.		Dynavector 23RS Dynavector 17D2 Dynavector XX-1L Dynavector XX-1L Dynavector XX-1 Dynavector Te-Kaitora Goldring Eroica LX Goldring Eroica Goldring 1042 Goldring Elite Goldring Excel VX Grado Prestige Silver Grado Prestige Gold	MM	MC MC MC MC MC MC MC	375 450 998 998 1,698 110 110 220 495 119
Apertura Model B Apertura Model A S Apertura Model A S Art Yam Church 5000 Audioquest Digital/video 1 Audioquest Optilink X Audioquest Optilink X Audioquest Optilink Pro Audioquest Optilink Pro Audioquest Optilink Z Cable Talk Digital 2 Cardas Audio Lightning S S S S S S S S S S S S S S S S S S S	Cale X150-2 Gamma Wonder Line Goertz M1 Goertz M2 GT Audio Speaker Ixos 607 Ixos 605 Ixos 606 Kimber 4PR Kimber 4YC Kimber 4TC Kimber 8TC	000000000000000000000000000000000000000	2.50 60.00 10.00 20.00 50.00 2.00 3.00 8.00 8.00 12.00 19.68	Audio Note 101 Audio Technica AT-91 Audio Technica AT-95 Audio Technica AT-110E Benz-Micro MC20EII Denon DL110 Denon DL100 Denon DL103 Goldring Elan Goldring Elektra		70 90	Grado Signature Junior Grado Signature BMZ Grado Signature MCZ Grado Signature TLZ Grado Signature XTZ Koetsu Red T Koetsu Red K Sig Koetsu Urushi Koetsu Signature Koetsu Signature Koetsu Gold PR Liam KS	MM MM MM	MC MC	150 250 375 650 975 1,550 1,998 2,297 3,218 5,498
DPA Opti-link	Kimber 4AG Kimber 8AG LAT International SS 800 LAT International BIWIRE LAT International SS 1000 Lieder Pad Lieder Bel Canto Lieder Spoor Lieder Straat 1,080.00 Lieder Weg	© © © © © © © ©	40.00 394.00 656.00 21.00 27.00 42.50 460.00 500.00 660.00	Goldring 1005 Goldring 1012GX Goldring 1012GX Grado ZTE+1 Grado ZCE+1 Grado Prestige Black Grado Prestige Green Grado Prestige Blue Grado ZE1+ Grado Prestige Blue Grado Prestige Red Wham Tracer I	MM MM MM MM MM MM MM MM MM	59 79 99 27 37 48 49 59 69 83 99 98	Linn Klyde 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 Wham Tracer II	MM MM MM MM MM	MC MC MC	500 1,000 259 299 339 379 479 999 649 995 310
GED Digiflex 20.00 QED Optiflex 25.00 Roksan ROK-Intercon 3 45.00 Siltsch HF-6 145.00 Sonic Link Blue/black 0.00 Sonic Link Green 60.00 Sonic Link Green Earth 150.00 ChordCe Codac 33.00 ChordCe Prodac 50.00 Transparent Cable PDL 199.00 Trichord Pulsewire 75D 75.00 Irichord Pulsewire 110D 145.00	1,400.00 Linn K400 Linn K400 Linn K600 Lumley Silver 12/2 Lumley Silver 14/4 Mission Duet Mission Quartet bi-wire Main MACA 5 Mordost Octava Nordost 4-Flat Nordost Blue Haaven	***************************************	4.00 10.00 15.00 35.00 40.00 1.90 3.90 5.50 3.00 10.00	Ortofon VMS2 Ortofon OM 5E Ortofon OM 10 Ortofon S10 Ortofon OM DJ Ortofon S20 Ortofon OM 20 Ortofon MC1 Turbo Ortofon Concorde DJ Ortofon MC1 Osuper Ortofon MC10 Super Ortofon MC10 Super	MM MM MM MM MM MM MM MM	14 20 30 38 50 65 70	Wham Tracer III N'ham Tracer IV Ortofon MC3 Turbo Ortofon MC35 Super II Ortofon MC25E Ortofon MC25E Ortofon MC10 Supreme Ortofon MC10 Supreme Ortofon SPU Chassic Ortofon SPU Supreme Ortofon SPU Supreme Ortofon SPU Supreme	MM	MC MC MC MC MC MC MC	410 660 130 130 130 180 250 300 350 425 450
Vampire Wire DI/1	Nordost Red Dawn Nordost SPM O'rtofan SPK100 O'rtofan SPK200 O'rtofan SPK300 Pursonic 7845 Pursonic 7891 QED Qudos Micro QED Qudos Micro QED Qudos Bi-Wire QED Profile 3 QED Profile 344 QED Profile Silver 12		100.00 325.00 3.00 5.00 8.00 2.00 3.00 1.25 4.50 6.50 9.00	Pickering TE-15 Pickering VE-15 Pickering T-E Pickering V15-DJ Pickering TL-E Pickering TL-2E Pickering XV15-625E Pickering XV15-150-DJ Pickering XV15-757S Pickering XV15-825DJ	MM MM MM MM MM MM MM MM MM	20 25 25 28 35 45 50 50 55 60	Ortofon MC2000II Ortofon MC Rohmann Ortofon MC3000 II Ortofon MC5000 Ortofon MC7500 Pickering TL-3003 Pickering XLZ-4500 Pickering TL-4004 Pickering XLZ-7500 Pickering XLZ-7500 Pickering TLZ-7500-S R850n Mica	MM MM MM MM	MC MC MC MC	750 ,000 ,100 ,100 ,500 ,000 145 150 175 200 200 200 150
SPEAKER CABLES KEY Price per mono metre unterminated. Apertura Silver 82.50	Rega REGA Roksan ROK-Speaker Sittech LS2-45 Sittech LS2-45 Sittech LS4-120 Sittech LS4-120 Sittech Sounds 10 Gauge Sitver Sounds 8 Gauge Sitver Sounds 8 Gauge Sitver Tone Sitver-Sonic Sitver Tone Sitver-Sonic HC	0 0 0 0 0 0 0 0 0	2.00 6.00 109.00 240.00 549.00 15.00 35.00 75.00 10.00 15.00	Pickering XV15-1800S Pickering TL3S Pickering XEV-3001E Pickering XL2-3500 Pickering TL-4-S Rega Blas Rega RB78 Rega Super Bias Rega Super Bias Shure SC35C Shure ME95ED	MM MM MM MM MM MM MM MM	70 80 95 100 100 39 39 59 85 29 38	Reson Aciore Reson Reca Reson Etile Reson Lare Roksan Corus Black Roksan Shiraz Stanton 890AL/X Sunniko BPS Transfiguration Spirit Transfiguration Temper	MM MM	MC MC MC MC MC	199 225 299 899 130 970 118 250

Onkyo K 611 Sony CDP-CE315 Sony CDP-XE510 180 180 Trichord Digital J'box 100 = 1010 MM Van Den Hul MM-2 299 Den Hul DDT-II Pinneer CT-W803RS 300 Sony CDP-C325M TEAC CD-P1800 3-H 130 Alchemist Forseti Pioneer CT-95 3-H 000 Audio Alchemy ACD Pro 1.395 M010 1,150 an Den Hul MC-ONE Super MC TEAC PD-H500 **1**10 240 Sony TC-WE805S 1,349 1,700 250 TEAC PD-D2200 250 120 Audio Research CD2 1010 4 100 Van Den Hul The Frog MC MC MC Audiomeca Talisman Audiomeca Talisman SE 3-H Technics SL-PG380A 1010 2,150 Van Den Hul Grasshopper IIISLA Van Den Hul Grasshopper IIIGLN 2,200 Sony TC-KAGES 550 1010 2.300 2 999 TEAC W-850R TEAC V-1030 Technics SL-PG580A 160 250 Cary CD-301 3-H Technics St -PD687 160 2,495 1010 MC MC MC Den Hul Grasshopper IIICMN 3,000 450 Technics SL-PD887 = 180 **Copland CD277** 1010 1 800 Van Den Hul Grasshopper IIICHN TFAC V-6030S 3-H 550 650 3,400 Technics SL-PS670A 200 1010 Den Hul Grasshopper IVGLA 3,450 TEAC V-8030S Krell KPS30i 1010 5,490 Technics RS-TR474 Yamaha CDX-390 220 MC MC MC 1,068 Marantz CD-17KI Wilson Benesch Hybrid Yamaha CDC-565 170 1,300 1010 1,586 1.850 Technics RS-TR575 280 Marantz CD-23 4 000 Wilson Renesch Analog Yamaha CDC-665 **11**0 Mark Levinson 39 5,995 1010 250 Yamaha KX-580SE Yamaha CDX-590 1010 230 Yamaha KX-W592 Meracus Imago Player 4.495 **10**10 Yamaha KX-690 3-H 400 Aiwa DX-C100M 500 Meridian 800 1010 Audio Alchemy ACD II **1**010 490 Micromega Solo **1**0 2,750 cal Fidelity FCD Aura CD100 10 Naim CDS Carver SDA-400 **1**0 299 3 940 Orelle CD100eV
Pink Triangle Litaural
Primare 302
Roksan Attessa-DP3P 469 1010 1.149 Denon DCM-260 300 1010 **III**10 1010 1.800 **Grundig CDC14** 300 H/K FL8300 300 Sonic Frontiers SFCD-1 **1**1010 1010 3,495 CASSETTE DECKS Kenwood DP-R7080 Kenwood DP-9090 XTC CDP-1 300 1.250 **10**10 **57010** 300 1010 - Autoreverse — no need to CD PLAYERS remove and turn round the tape. ntz CD-67SF 3-H - 3 heads, i.e. separate record 400 – multiplayer, can be loaded Marantz CC-870 1010 and replay heads. with more than one disc. sical Fidelity E60 1010 - electrical (coaxial) digital output al Fidelity A2 Many players also include an NAD 513 290 optical (Toslink) output. NAD 515 350 **II**110 Denon DRW-580 200 NAD 517 400 NX 7210 Aiwa XC-300 AMC CD9 Onkyo DX 7210 Onkyo C721 Onkyo DXC 320 130 Goodmans Delta 801 290 380 **1**010 120 150 III)10 JVC TD-W218BK JVC TD-X372BK CD TRANSPORTS 170 AMC CD6 250 250 1010 Onkyo CM 716 450 AMC CDM7 FT010 200 200 Cambridge CD4
Cambridge CD4SE 1010 - electrical (coaxial) digital Pioneer PD-F805 JVC TD-W318BK 330 200 250 Kenwood KX-W4080 Kenwood KX-3080 output. mbridge CD6 non DCD-625 10010 160 Many players also include an 200 1010 Denon DCD-715 **10**10 235 optical (Toslink) output. Kenwood KX-5080S 200 el RCD-965B) 300 375 240 50 Rotel RCD-970BX Marantz SD-555 200 Eclipse CD30 200 150 Onkyo K 185 Eclipse CD50 60 Pioneer CT-S250 CDP-XA2ES cam Delta 250 Sony CDP-CX200 Audio Alchemy DDS III
Audio Alchemy DDS Pro
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Audio Synthesis Transcend Pioneer CT-W205F 160 Grundig CDII 380 700 170 Pioneer CT-W505R Pioneer CT-S450S 180 200 1010 500 350 1,550 Sony CDP-TEAC CD-5 1010 JVC XL-V120BK 110 3,290 naha CDX-890 Sony TC-KE200 120 350 JVC XL-V184BK 120 1 395 Sony TC-WE405 Sony TC-KE400S 150 140 180 JVC XL-F116BM **Audiomeca** Damnation 999 Sony TC-WE505 TEAC W-416 180 100 Acurus ACD11 Audiomeca Damnation SE Audiomeca Kreatura SE 1,100 JVC XL-F216BK **10**10 200 597 mist Nexus 1010 TEAC V-610 100 rcam Alpha 8 Judiolab 8000CD III)10 110 TEAC W-780R TEAC R-560 170 III10 Kenwood DP-2080 130 180 100 100 100 100 895 Conrad-Johnson DR-1 DPA Enlightenment Dry 10010 10010 10010 1,795 Kenwood DP-R3090 140 TEAC R-H500 200 Creek CD42 599 Kenwood DP-R4090 725 Technics RS-TR373 DCD-3000 Jadis JD3 Jadis JD2 200 **DPA** Renaissance int CD 950 Kenwood DP-R6090 Kenwood DP-4090 200 230 150 M10 1010 1010 4 990 200 150 = Yamaha KX-390 Fase Evoluzione Laserdrive 1 0 995 1010 12,500 Yamaha KX-W392 180 Marantz CD-46 Marantz CC-38 Krall KPS-20t 1010 8.490 rantz CD-17 Mark Levinson 37 1010 3,995 200 230 Marantz CD-48 1010 1010 Aiwa AD-F850 230 Micromega Stage 4 3-H **II** 10 600 Marantz CD-57 Mark Levinson 31 5 9.295 Micromega Stage 5 10 750 Meracus Imago 3,995 250 250 200 Marantz CD-67II 1010 Carver TDR-1550 629 1010 1010 Marantz CC-47 1010 1010 598 898 Micromega Drive 3 Micromega Data Monrio Bitmatch 750 10010 NAD 510 2,250 1010 250 120 310 250 Monrio Privilege Myryad MC100 Naim CD3 100 10 100 10 Philips CD711 875 Muse Model 5 Orelle CD100eTl 1010 700 1,800 Philips CD751 1010 699 150 III)10 Orelle CD100eT2 Philips CDC751 Pioneer PD-104 180 130 799 1010 250 Orelle CD-100eSA 999 III)10 Pink Triangle Numeral Quad 77 Bus 1010 Marantz SD-57 249 PS Audio Lambda AT&T 700 Pioneer PD-M603 1010 200 230 270 1010 200 NAD 614 ksan Caspian Sonic Frontiers SFT-1 2,295 Pioneer PD-F605 Pioneer PD-F25 230 **10**10 230 = 230 Onkyo TA 6210 TEAC VRDS-9 10 700 2.500 Rotel RCD-930AX 180 1010 Onkyo TARW 211 Onkyo TARW 311 Onkyo TA 6310 270 320 330 Technics SL-P2000 1,000 Sony CDP-M205 1010 Theta Digital Data III NTSC/PAL 5 455 110 1010 Sony CDP-XE210 120 Onkyo KR 609 350 Sony CDP-M305 Sony CDP-XE310 chord Digital Turntable Onkyo KW 606 370 Trichord Digital Jukebox 25 599

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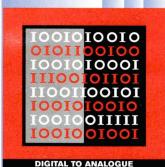
Trichord Digital Jukebox 50

Onkyo MD 122

MD

DAT 010



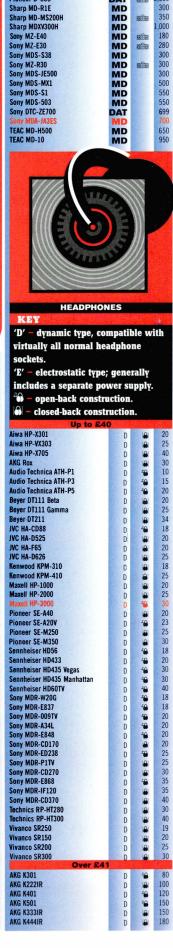


DIGITAL TO ANALO CONVERTERS (DA	
AMC CDM7DAC	100
AMC DAC8	130
AMC CDM7VAC	200
Arcam Black Box 50	480
Arcam Black Box 500	750
Audio Alchemy DAC Man	150
Audio Alchemy DDE v1.2	596
Audio Alchemy DDEv3.0	699
Audio Note DAC1	675
Audio Note DAC2	1,099
Audio Note DAC3	1,750
Audio Research DAC5	2,148
Audio Research DAC5	2,335
Audio Research DAC3	4,195
Audio Research DAC3	4,555
Audio Synthesis DAX-2	2,195
Audiolab 8000DAC	900
Audiomeca Elixir	799
Audiomeca Ambrosia	1,850
Boulder 2020	25,000
Cambridge Dacmagic 2 Mk II	150
Chord DSC1100	2,575
Chord DSC1500	3,850
Conrad-Johnson D/A-3	1,195
Conrad-Johnson D/A-2b	1,990
Denon DCD-425	150
DPA Little Bit 3	325
DPA Renaissance DAC	570
DPA Enlightenment DAC	825
DPA SX128	2,000
DPA SX256	4,000
DPA SX512	8,000
Jadis JS3	2,129
Jadis JS1	8,068
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LFD DAC3	3,000
Linn Numerik	1,500
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Mark Levinson 35	7,995
Mark Levinson 30.5	15,950

Meracus Auriga

Meracus Flagrare

	stockist.
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Micromega Dialog	2.000
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Musical Fidelity X-DAC	300
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TEAC D-700	600
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Theta Digital Pro Prime II	1,800
Theta Digital Pro Basic III	2,990
Theta Digital Gen V SE	4,300
Theta Digital Casablanca LS	5,910
Thorens TDA-2000	700
Trichord Pulsar Ser One	1,395
Wadia 12	1,530
Wadia 15	3,790
Wadia 64.4	4,750
Wadia 16	7,395
Wadia 7 Wadia 9	9,995
	12,790
Woodside DVAC-18	1,499



		MATERIAL PROPERTY.	en con	Marin Comment
700	AKG K290S	D	IΔI	250
000	AKG K1000	D	an an	700
300	Audio Technica ATH910PRO		101	90
000	Beyer DT311	D	101	57
		D		69
300	Beyer DT411	D	4	\$800000
350	Beyer DT331	D	-	82
000	Beyer DT431	D	40	98
180	Beyer IRH890	D	40	117
280	Beyer DT511	D		117
300	Beyer DT531	D	IA	135
300	Beyer DT770 Pro	D	10	152
300	Beyer DT100	D	10	152
00	Beyer DT801	D	40	172
550	Bever DT990 Pro	D	40	187
50	Beyer DT811	D	40	200
599	Beyer IRS890	D	40	222
700	Bever DT901	D	10	222
550	Beyer DT911	D	40	235
950	Denon AH-D210		IA.	45
300	Denon AH-D350	D	iQ!	65
	Denon AH-D550	D	IAI	80
	Denon AH-D650	D	101	95
	Denon AH-D750	D		130
	Denon AH-D950	D	101	150
		D	(A)	
	Grado SR40	D		45
	Grado SR60	D	*	79
	Grado SR80	D	*	100
	Grado SR125	D	50	150
	Grado SR225	D	49	200
	Grado SR325	D	€	300
7	Grado RS1	D	50	695
	Jecklin Float Model 1	D	*	79
132	Jecklin Float Model 2	D	4	99
33	Jecklin Float ELS	E	70	399
12.0	JVC HA-D727	D	10	43
	JVC HA-D910	D		65
	JVC HA-D1000	D	10	250
	JVC HA-F25	D	101	699
	Precide Ergo Model 1	D	40	120
n	Precide Ergo Model 2	D	40	140
	Sennheiser HD445	D	40	45
	Sennheiser IS 380	D	I	55
	Sennheiser HD455	D	40	55
	Sennheiser HD465	D	40	65
	Sennheiser HD475	D	40	80
	Sennheiser HD25 SP		IA	90
	Sennheiser HD535	D	10	105
	Sennheiser IS450	D		120
	Sennheiser HD545 Ref	D	40	
		D	*	125
20	Sennheiser HD250II	D	IA	150
25	Sennheiser HDC 451-1	D	*	150
40	Sennheiser HD565 Ovat'n	D	*	150
30	Sennheiser HD265 Linear	D		150
10	Sennheiser HD25-13	D		160
15	Sennheiser HD25	D	10	160
20	Sennheiser HD 580 P'cision	D	-	200
20	Sennheiser HD600	D	50	250
25	Sennheiser Lucas		10	280
34	Sennheiser IS850	D	20	859
18	Sennheiser HE60/HEV70	E	40	998
20	Sennheiser Orpheus	E	40	9,652
20	Sony MDR-IF50K	D	40	50
25	Sony MDR-IF120K	D	10	50
18	Sony MDR-CD470	D		50
25	Sony MDR-E888	D	40	55
20	Sony MDR-CD570	D	IAI	70
25	Sony MDR-IF320RK-MK2	D	IAI	80
30	Sony MDR-CD770	D	IA	100
	Sony MDR-NC5	D	40	100
20 23	Sony MDR-D77	D		130
25	Sony MDR-NC20	D	10	150
30	Sony MDR-NC10		40	150
18		D		
10	Sony MDR-CD1700	D	IQ.	200
20	Sony MDR-CD1700 Stax SR-0001	D	10 10	
20		D E	10 20	200
30	Stax SR-0001	D E E	10 10	200 280
30 30	Stax SR-0001 Stax SR-Lambda Nova C	D E E	# <u>#</u>	200 280 370
30 30 40	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S	D E E E		200 280 370 449 450
30 30 40 18	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega	D E E E	10 10 10 10 10 10	200 280 370 449
30 30 40 18 18	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega Stax SR-Omega Ref	D E E E E	100 Hz	200 280 370 449 450 1,695
30 30 40 18 18 20	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega	D E E E E E	#0 #0 #0 #0 #0 #0	200 280 370 449 450 1,695 1,700
30 30 40 18 18 20 20	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega Stax SR-Omega Ref Technics RP-HT400	D E E E E E D		200 280 370 449 450 1,695 1,700 50
30 30 40 18 18 20 20 20	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega Stax SR-Omega Ref Technics RP-HT400 Technics RP-HT600	D E E E E D D D		200 280 370 449 450 1,695 1,700 50 60
30 30 40 18 18 20 20 20 20	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega Stax SR-Omega Ref Technics RP-HT400 Technics RP-HT600 Technics RP-HT700 Vivanco IR5700	D E E E E E D D D D D		200 280 370 449 450 1,695 1,700 50 60 70
30 30 40 18 18 20 20 20 20 25	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega Stax SR-Omega Ref Technics RP-HT400 Technics RP-HT600 Technics RP-HT700	D E E E E E D D D D D D		280 370 449 450 1,695 1,700 50 60 70
30 40 18 18 20 20 20 20 25 25	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega Stax SR-Omega Ref Technics RP-HT400 Technics RP-HT400 Technics RP-HT700 Vivanco IR5700 Vivanco IR5000 Vivanco SR850	D E E E E E D D D D D D D		280 370 449 450 1,695 1,700 50 60 70 50 50
30 30 40 18 18 20 20 20 20 20 25 25 30	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega Stax SR-Omega Ref Technics RP-HT400 Technics RP-HT600 Technics RP-HT700 Vivanco IR5700 Vivanco IR5700 Vivanco SR850 Vivanco SR850	E E E D D D D D D D D		280 370 449 450 1,695 1,700 50 60 70 50 50 50
30 30 40 18 18 20 20 20 20 25 25 30 35	Stax SR-0001 Stax SR-Lambda Nova C Stax Lambda Nova Basic Stax SR-Lambda Nova S Stax Omega Stax SR-Omega Ref Technics RP-HT400 Technics RP-HT600 Technics RP-HT700 Vivanco IR5700 Vivanco IR5000 Vivanco SR850 Vivanco SR850 Vivanco SR850	D E E E E E D D D D D D D D D D D D D D		280 280 370 449 450 1,695 1,700 50 60 70 50 50 50 60 60
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DIGITAL RECORDERS

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- Portable

MD -

Kenwood DM-7090 Meridian CDR

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EQUIPMENT SUPPORTS	
& SPEAKER STANDS	
Alphason NCI	47
Alphason RS1	49
Alphason NCII	84
Alphason Titan S	125
Apolio AZ6	80
Arcici Q-1	299
Arcici Q-2	299
Atacama BD21	55
Atacama BD17	55
Atacama BD25	60
Atacama SE16	65
Atacama SE12	65
Atacama SX500	67 70
Atacama F2 Atacama F1	70
Atacama SX600	70
Atacama SL200	70
Atacama SE24	70
Atacama SE20	70
Atacama SX700	73
Atacama SL300	73
Atacama TP600	75
Atacama TP500	75
Atacama SE615	75
Atacama SE515	75
Atacama SE415	75
Atacama SL400	76
Atacama SE1000S	80
AYF Towar	40
Chord CEL 01	387
Credo STD 001	284
Custom Design CD 500	35 35
Custom Design AS 130 Custom Design Tri 100	50
Custom Design RS 200	50
Custom Design R/S300	70
Custom Design Tri 300	85
Custom Design SCS 24	85
Custom Design C 20	109
Custom Design H1	275
Deadrock 903	60
Deadrock 902	60
Deadrock 901	60
Dynaudio Trophy	120
Dynaudio Master	200
Dynaudio Ultima	290
Harbeth HL-Stands	249
Heybrook Stand-ULT	55
Heybrook Stand-S6	59
Heybrook Stand-S4	59

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Alphason R17/17
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Audiophile Base 01
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Audiophile Furniture Base
Audiophile S4T120P
Custom Design CD-1
Custom Design WMB
Custom Design G5
Custom Design CD-3
Custom Design Aspect 650
Custom Design Aspect 850
Custom Design Aspect 500AV
Deadrock 701
Deadrock 802
Deadrock 703
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Frameworks H175
Frameworks FS1
Frameworks FT2
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Frameworks H900
Frameworks H500/H175
Heybrook Stand-Signtaure
Impulse Iso-plate
JPW MS2 JPW MS3
JPW MS1
JPW 3 Tier JPW 5 Tier
Kudos Audio Corinthian
Linn K3000
Mana Sound Frame
Mana Mini Table
Mana Power supply table
Mana Reference flat top
Mana Sound Shelf
Mana Sound Base
Mana Sound Stage
Mana Sound Table
Mana Ref Shelf
Mana Reference Table
Mana 2 Tier Amp stand
Mana 3 Tier Amp Stand
Mana 4 Tier Amp Stand
Mana 5 Tier Amp Stand
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### 388 Projekt C3ii ### 404 Projekt C3i ### 404 Projekt C4 ### 190 Projekt C3i #### 45 Projekt C3ii #### 45 Projekt C3ii #### 45 Projekt C3ii #### 80 Quadraspire Q4 mini shelf #### 100 Quadraspire Q4 shelf #### 100 Quadraspire Q4 shelf #### 125 Quadraspire AV shelf #### 125 Quadraspire AV shelf #### 125 Quadraspire AV table #### 150 Quadraspire AV table #### 150 Quadraspire AV table #### 150 Quadraspire AV table ##### 150 Quadraspire AV table ##### 150 Quadraspire AV table ####################################			
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### 45 Projekt D3ii ### 55 Projekt C Multi ### 80 Quadraspire Q4 mini shelf ### 100 Quadraspire Q4 mini shelf ### 100 Quadraspire Q4 shelf ### 125 Quadraspire Q4 mini table ### 125 Quadraspire Q4 mini table ### 150 Quadraspire Q4 mini table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table #### 150 Quadraspire Q4 table #### 150 Quadraspire Q4 table #### 150 Quadraspire Q4 table #### 150 Quadraspire Q4 table #### 150 Quadraspire Q4 table #### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q4 table ### 150 Quadraspire Q5 table ### 150 Quadraspire Q5 table ### 150 Quadraspire Q5 table ### 150 Quadraspire Q5 table ### 150 Quadraspire Q5 table #		249	Projekt C4
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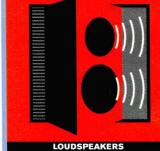
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ل − floorstander; larger models requiring no separate stand. stand mount; smaller models designed to be raised above the floor. → wall mount; designed to be hung on the wall or mounted in-wall.



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anticore Minaret	9	ō	690	UKD-Opera Operetta II	0	0	770	JBL L40	4		1.00
eridian A500	7	0	750	UKD-Opera Opera Platea	¥1	0	795	JBL PS15	#		1,00
ission 752f	<u>+1</u>	ō	578	Wharfedale MFM7	和	0		JBL L80	7		1.25
ission 735i	<u>+</u>	0	650	£801 to £			000	IBL L90	#		1,50
ssion 753f	<u></u> ★ I	0	798	Acoustic Energy AE2-II	0	0	1,095	Jordan Watts JH1 + 1	¥	0	99
-A Studio 2SE	0	0	600	Alon Alon Petite	0	ō	999	JPW Ruby 4	Ŧ		1.00
A 700 PMC	2	0	600	Alon Alon I	Ŧ		1,500	KEF Q75	五	0	99
-A 702PMC	9	0	700	Ambience Mod. 4.0	0		1,185	KEF Ref. Model One	和		1.19
-A 703PMC	±1	0	800	Apertura Prima	#1	0	920	Keswick Torino	<u>±</u>	0	89
ordaunt-Short MS50i		o	550	Apertura Agora	0		1,095	Keswick Figaro Evolution	0	0	89
us Tec Falcon	± 1	0	575	Apertura Nova	#		1,295	Keswick Milano	Ŧ		1,09
aim Intro	- ±	.0	660	ATC SCM10	0	0	999	Keswick Amber	#1	0	1,39
eat Mystique	±1	0	575	Audio Note AN-J/D	9	0	930	Linn Tukan Aktiv	0		1,0
eat Petite II	<u>B</u>	0	745	Audio Note AN-K/SPx	<u>D</u>	0	1,060	Linn Keilidh Aktiv	#		1,2
rigin Live Resolution	9	0	732	Audio Note AN-E/B	±1	0	1,299	L Voice Auditorium	¥		1,30
rigin Live Victory	¥	0	750	Audio Note AN-J/SPx	0		1,415	Lowther Accolade 2	Ŧ		1,19
entachord B	9	0	519	Audio Physic Step	0		1,299	Lumley L/M3.5	¥		1,0
entachord Pentode	± 1	0	729	Audiovector 2X	±	0	850	Magneplanar SMG-C SE	Ŧ		99
olk RT12	± 1	0	600	Audiovector 3X	±1	0	1,500	Magneplanar MG-0,6 SE	Ŧ		1,37
olkRT16 olkLS50	± 1	0	799	AVI Positron	±1	0	899	Meridian Argent 1	0	0	99
roac Tablette 50	<u>+</u>	0	800 599	B&O Beolab 4000 B&W P5	Ŧ		1.100	Mission 754f	#		1,29
roac Studio 100		0	699	B&W DM604	*	0	875	M-A Studio 12	#		1,00
omenade SP4	<u>∓</u> 1	0	650	B&W P6	*		1,000	M-A 705PMC	± I		1,40
LN Classic One		0	800	B&W Matrix 805 V	Ŧ	0	1,095	Mordaunt-Short Perf 820	± 1	9000-	1,49
uad 10L	0	0	600	Bandor Trident	9 9	0	1,095 846	Mus Tec Condor Mus Tec Hawk	#	0	84
ogers C6/20	2	0	533	Bandor Mora		0	1,260	Mus Tec Eagle	¥		1,25
ogers LS3/5A	B	0	699	Bandor Bandora	Ŧ	0	1,260	Naim Credo	#		1,50
ogers Studio5	9	0	699	Bose A'mass AM7	和	0	900	NHT VT-1.2	业		1,06
ogers C6/25	<u>+</u>	0	763	Boston VR40	± <u>i</u>	0	1,000	Origin Live Soveriegn	业	0	95
oksan ROKone 1	9	0	595	Castle Harlech	<u>+</u> 1	0	849	Pink Triangle Ventrical	± 1	0	99
oksanOjan 3	<u>+</u>	ō	795	Castle Howard S2	∓ 1	0	1,199	Polk LS70	4	0	1,20
oyd The Sorcerer	9	0	595	Celestion A1	9	0	899	Polk RT20p	和		1,50
oyd Abbot	- 1	ō	665	Celestion A2	4		1.499	Proac Tablette 50 SIG		0	89
uark Templar II	±1	ō	599	Cerwin-Vega AL-1000	7		1,100	Proac Response 1 SC	-		1,19
ark Sceptre	9	0	599	Cerwin-Vega 1515	7		1,300	Proac Studio 150	Ŧ		1.39
ıark Talisman II	<u>≠</u>	0	749	Chario Academy 1	1		1,300	Prof Monitor Co LB1	<u>o</u>	0	93
ark Prologue One	<u>+</u>	0	799	Clements Reference 1	<u> </u>	0	995	Prof Monitor Co AB1	0		1,49
Acoustics SD3R	9	0	649	Dali 850	Ŧ		1,100	QLN Signature	0		1.00
lverado Raider	9	0	695	Def Tech BP8B	¥		1,000	QLN Signature HDII	0		1,20

QLN Prestige QLN Sig. Splittield Rega XEL RMS Revelation S 1 Rogers Studio 7 Rogers CG/28 Roksan Ojan 3X Royd The Albion Ruark Broadsword II Ruark Paladin Shahinian Super Elf Shahinian Compass Sonus Faber Minuetto Sonus Faber Minuetto Sonus Faber Minuetto Spendor 2040 Spendor SP2/3E Spendor SP2/3E Spendor SP1/2E Tannay Definition D300 TDL Studio 1M Technics SB-M1000 Totem Model One Triangle Antal UKD-Opera Callas II UKD-Opera Callas Gold UKD-Opera Callas Gold UKD-Opera Callas Gold UKD-Opera Callas Gold UKD-Opera Divina II Vandersteen 2Ce Visonik LB1	**************************************	□ 1,500 □ 1,500 □ 1,500 □ 1,040 □ 1,299 □ 1,270 □ 899 □ 1,050 □ 1,395 □ 1,395 □ 1,395 □ 1,395 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195 □ 1,195
Acoustic Energy AE1 Sig Acoustic Energy AE2 Sig Alon Alon II Ambience Mod 3.2	표 급 급	□ 1,695 □ 2,695 □ 2,300 □ 1,780
Apertura Tanagra Apertura Tanagra Sig.	和	1,895 2,295
ATC SCM20 ATC SCM20 Tower	<u>∓</u> 1	1,5992,099
Audio Note AN-E/D Audio Note AN-E/SPx Audio Physic Spark 2	9 9	1,520 2,250
Audio Physic Tempo Audiovector 5	∓ ∓ □	□ 1,749 □ 1,999 □ 2,500
Avalon Monitor B&O Beolab 6000	∓	2,995 1,550
B&O Beolab 8000 B&O Beolab Penta 3	和	2,100 2,650
B&W Matrix 804 B&W Matrix 803s2 B&W Matrix 802s3	和 和	□ 1.695 □ 2,495 □ 2,995
Bose 901 V1 Boston Lynfield 300L	9	1,650 2,000
Bravura Virtuoso Carver AL-111P	和 파	□ 2,995 □ 1,999
Cary SP-301 Celestion A3	和	2,295 2,399
Celestion Kingston Chord LS5/12A	급 주	2,500 1,593
Chord CEL 201 Chord CEL 202	±1 □	2,130 2,375
Chord CEL 301 Clements Reference 7 Credo SPB 003	취 취 취	2,840 1,995 1,820
Credo SPB 009 Dali Grand Coupe	和 和	2,453 2,500
Def Tech BP2002 Dynaudio Contour 1.8	<u>∓</u> 1	2,400 1,842
Dynaudio Crafft ECA Servo A.2	∓	2,598 2,450
ELS Res'ch Vision Epos ES25 Gamma Epoch Ref Five	和 平 平	2,800 1,655 2,999
Hales Revelation Three Hales Concept Two	和 和	2,200 2,250
Harbeth HL-S8 Helius Syrius II	和	□ 1,999 □ 2,395
Helius Syrius I Horning Aristophane	和 和	2,850 2,600
Impulse Lali Jamo Concert 11 JBL L100	和	□ 1,850 □ 2,000
Jordan Watts JH2K KEF Ref. Model Two	和 和	□ 1,750 □ 2,820 □ 1,599
KEF Ref. Model Three Linn Kaber Passive	∓1 ∓1	1,999 2,000
Linn Kaber Aktiv Lowther Fidelio	∓1 ∓1	□ 2,640 □ 1,999
Lowther Academy Lowther Bel Canto	和 和	□ 2,399□ 2,699
Lumley L/M2 Mk3 Magneplanar MG-10 SE Magneplanar MG-1,5 SE	취 취 취	2,995 1,650 1,780
Magneplanar MG-2,7 SE Manticore Matisse	和 和	2,650 1,890
Martin-Logan Aerius i Meridian M60	<u> </u>	□ 2,299 □ 2,150
M-A Studio 20SE Mordaunt-Short Perf 860 Mordaunt-Short Perf 880	±1 ±1	2,200 1,895 2,795
Naim SBL Active Naim SBL Passive	和	2,795 1,830 1,970
Neolith NEO 1 NHT VT-2	∓	2,999 1,600

- 1500

Origin Live Conqueror Paragon Jubilee	业	□ 1,650 □ 1,995
Pentachord P'column	和	□ 1,649
olk LS90 Posselt Albatross	和	1,700 2,500
oac Response 2S oac Studio 250	<u> </u>	2,000 2,249
roac Response 2.5	<u>≠</u> 1	2,700
rof Monitor Co IB1S LN Reference	± □	2,099 2,000
QLN Reference HDII Rehdeko RK115	Ŧ	2,500
ogers LS5/9	<u> </u>	1,531
logers Studio 9 wark Crusader II	±1	□ 1,549 □ 1,599
Ruark Equinox Ruark Accolade	2	1,849
D Acoustics SD5	± ± ±	0 1,549
D Acoustics SD1E Bhahinian Arc	和	2,9951,875
Shahinian Obelisk Silverado Silverado 1	<u>+</u>	2,695 1,995
Sonus Faber Minima Amator	<u> </u>	□ 1,566
Sound-Lab Quantum Spendor SP7/1	和	□ 2,150 □ 1,990
Spendor SP100 Tannoy Definition D500	#	2,099 1,999
Tannoy Stirling TW	±	2,200
Tannoy Definition D700 TDL Studio Monitor-m	±1	2,500 2,449
Totem Mann-2	<u>n</u>	2,795
Triangle Zays Triangle Altinis	和	□ 1,750 □ 2,250
friangle Extan JKD-Opera Caruso II	和	2,950 2,350
Acoustic Energy AE5	₩ ±	7,995
Alon Alon IV Alon Alon V Mk2	和	3,500 5,000
Alon Adriana Alon Phalanx	9	9,000
Andread Mod 5.0	和	□ 19,000 □ 9,550
Apertura Athena Apertura Atlante	和	□ 4,395 □ 6,995
ATC SCM20A	<u> </u>	3,049
ATC SCM50 ATC SCM100	和	3,750 4,499
ATC SCM50A ATC SCM100A	±1	5,250 5,999
ATC SCM200A	± I	□ 12,999
ATC SCM300A Audio Note AN-JSE Silver	±1	□ 14,999 □ 7,900
Audio Note AN-ESE Silver Audio Physic Virgo 2	±1	9,600 3,399
Audio Physic Avanti 2	¥	6,699
Audio Physic Caldera Audio Physic Medea	和	□ 10,599 □ 24,999
Audiovector 6 Avalon Avatar	和	□ 4,600 □ 4,495
Avalon Arcus	±	6,000
Avalon Eclipse Avalon Radian	和	6,49510,995
Avalon Osiris B&W Matrix 801s3	±	72,000
B&W Silver Signature	<u>+</u>	□ 3,995 □ 5,500
B&W Nautilus Bandor Bandoline	± 1	□ 35,000 □ 3,290
Bandor Bandora/Mora	±	3,290
Boston Lynfield 500L Bravura Virtuoso Silver	和	□ 4,449 □ 3,195
Bravura Virtuoso Gold Bravura Accelerando	±1	□ 3,395 □ 6,600
Chario Academy 3 Junior	± I	6,000
Chario Academy 3 Credo SPB 012	和	9,000 3,147
Credo SDL 001	±	5,677
Dali Grand Def Tech BP2000	和	□ 4,000 □ 3,600
Dynaudio Contour 2.8 Dynaudio Contour 3.3	和	3,198 4,815
	+1	4,846
	11	5,924
Dynaudio Confidence 5	和	□ 14,566
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista	和	□ 14,566 □ 3,900
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista ELS Res'ch Illusion Mkll Fase Evoluzione Aria	표 취 취	□ 14,566 □ 3,900 □ 9,000 □ 3,100
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista ELS Res'ch Illusion Mkll Fase Evoluzione Aria Genesis 400	는 보 보 보 보	□ 14,566 □ 3,900 □ 9,000 □ 3,100 □ 4,000
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vist ELS Res'ch Illusion MkII Fase Evoluzione Aria Genesis 400 Genesis V Genesis 300	**************************************	□ 14,566 □ 3,900 □ 9,000 □ 3,100 □ 4,000 □ 15,000 □ 27,500
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista ELS Res'ch Illusion MkII Fase Evoluzione Aria Genesis 40 Genesis V Genesis 300 Hales Concept Three Hales Concept Five	한 보 보 한	□ 14,566 □ 3,900 □ 9,000 □ 3,100 □ 4,000 □ 15,000 □ 27,500 □ 4,350 □ 6,350
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista ELS Res'ch Illusion MkII Fase Evoluzione Aria Genesis 400 Genesis V Genesis 300 Hales Concept Three Hales Concept Five Horning Agathon	***************************************	□ 14,566 □ 3,900 □ 9,000 □ 3,100 □ 4,000 □ 15,000 □ 27,500 □ 4,350 □ 6,350 □ 3,555
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista ELS Res'ch Illusion Mkll Fase Evoluzione Aria Genesis 40 Genesis 300 Genesis 300 Hales Concept Three Hales Concept Trive Horning Agathon Impulse Ta'us Intinity Sigma	**************************************	□ 14,566 □ 3,900 □ 9,000 □ 3,100 □ 4,000 □ 15,000 □ 27,500 □ 4,350 □ 6,350 □ 3,555 □ 3,100 □ 5,995
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista ELS Res'ch Illusion MkII Fase Evoluzione Aria Genesis 400 Genesis V Genesis 300 Hales Concept Three Hales Concept Five Horning Agathon Impulse Ta'us Infinity Sigma Infinity Epsilon	***************************************	□ 14,566 □ 3,900 □ 9,000 □ 3,100 □ 4,000 □ 15,000 □ 27,500 □ 4,350 □ 6,350 □ 3,555 □ 3,100
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista ELS Res'ch Illusion MkII Fase Evoluzione Aria Genesis 400 Genesis 300 Genesis 300 Hales Concept Three Hales Concept Trive Horning Agathon Impulse Ta'us Infinity Sigma Infinity Epsilon Jamo Oriel JBL 52600	əəəəəəəəəəəə	□ 14,566 □ 3,900 □ 9,000 □ 4,000 □ 15,000 □ 27,500 □ 4,350 □ 6,350 □ 3,555 □ 3,100 □ 5,995 □ 9,995 □ 7,000 □ 3,500
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista ELS Res'ch Vista ELS Res'ch Illusion MkII Fase Evoluzione Aria Genesis 400 Genesis V Genesis 300 Hales Concept Three Hales Concept Five Horning Agathon Impulse Ta'us Infinity Sigma Infinity Epsilon Jamo Oriel JBL S2600 JBL S3100 Jordan Watts JH5K	ㅋㅋㅋ ፡ㅋㅋㅋㅋㅋㅋㅋㅋㅋ	□ 14,566 □ 3,900 □ 9,000 □ 3,100 □ 4,000 □ 15,000 □ 4,350 □ 4,350 □ 3,555 □ 3,100 □ 5,995 □ 7,000 □ 4,350 □ 3,500 □ 4,350 □ 3,500 □ 3,500 □ 4,000 □ 3,500
Dynaudio Confidence 5 Dynaudio Consequence ELS Res'ch Vista ELS Res'ch Illusion MkII Fase Evoluzione Aria Genesis 400 Genesis 300 Hales Concept Three Hales Concept Tive Horning Agathon Impulse Ta'us Infinity Sigma Infinity Epsilon Jamo Oriel JBL S2600 JBL S3100	ㅋㅋㅋ ፡ㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋ	□ 14,566 □ 3,900 □ 9,000 □ 3,100 □ 4,000 □ 15,000 □ 27,500 □ 4,350 □ 6,355 □ 3,100 □ 5,995 □ 7,000 □ 3,550 □ 4,000
	ㅋㅋㅋ ፡ㅋㅋㅋㅋㅋㅋㅋㅋㅋ	□ 14,56 □ 3,90 □ 9,00 □ 3,10 □ 15,00 □ 15,00 □ 4,35 □ 4,35 □ 3,55 □ 3,10 □ 5,99 □ 7,00 □ 3,59 □ 7,00 □ 3,50 □ 7,57

Linn Keltik Aktiv	+1	6,000
L Voice Air Scout	#	D 19,500
L Voice Air Partner S	4	□ 37,200
Lowther Delphic	+	3,099
Lowther Opus One	#	D 4,999
Lumley L/M 2 Sig. Mk3	#	4,500
Magneplanar MG-3.5SE	#	3,800
Magneplanar MG-20 SE P	#	□ 10,300
Magneplanar MG-20 SE A	4	11,000
Martin-Logan SL3 Martin-Logan CLS IIz	和	3,499 4,555
Martin-Logan Re-Quest	和	
Martin-Logan Monolith S	7	5,875 7,440
Martin-Logan Monolith IIIP	7	8,550
Martin-Logan Monolith IIIXPB	7	11,900
Meridian DSP5000	#	3,295
Meridian DSP5500	+1	5,950
Meridian DSP6000	#1	9,400
M-A Studio 50	#1	4,000
M-A Studio 60	#	6,000
Naim DBL Active	#1	7,414
Neolith NEO 2	9	3,499
Neolith NEO 3	#	4,999
NHT Model 3.3	中	□ 3,500 □ 3,490
Paragon Regent Proac Response 3.5	#	□ 3,490 □ 4,250
Proac Response 4	7	□ 12,000
Prof Monitor Co MB1P	3	4,370
Prof Monitor Co BB5/P	-	6.270
QLN Artec 1600	Ŧ	4,500
Quad ESL63	#	3,450
Rehdeko RK125	9	3,200
Rehdeko RK145	9	4,800
Rehdeko RK175	#	■ 8,800
Shahinian Hawk	#	4,995
Shahinian Diapason	和	8,895
Shun Mook Bella Voce Sonus Faber Electa Amator	和	5,500 3,293
Sonus Faber Extrema	i	3,2936,500
Sound-Lab Dynastat	¥]	3,790
Sound-Lab Aura	+1	6,490
Sound-Lab Pristine III+	#	7,990
Sound-Lab A-3	+1	□ 11,990
Sound-Lab Ultimate II	#	□ 13,950
Sound-Lab A-1	+	□ 13,990
Sound-Lab Ultimate III	#	□ 18,950
Sound-Lab Ultimate I	#	□ 23,950
Spendor SP9/1	#	3,450
Tannoy Edinburgh TW	+	3,250
Tannoy Definition D900	#	3,999
Tannoy GRF Memory TW Tannoy Westminster TW	¥	4,000
Tannoy Canterbury 15 TW	#1	6,600 7,720
Tannoy Westminster Royal	7	14.920
TDL Ref Standard-m	#	4,999
Triangle Nemo Altiar	취	4,250
Wilson Audio Cub	#	5,495
Wilson Audio WATT 5	9	8,750
Wilson Audio WITT	9	8,888
Wilson Benesch Actor	+	3,800
Wilson Benesch ACT1 spkr	#1	6,400
ESSELECTIVE SERVICE	THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER	CO. ST. ST. ST. ST.
		Prode Uni



magnetically shielded; allows positioning close to TV sets. THX - THX approved by Lucasfilm for use in Home THX installations.

Acoustic Energy AE107C	n	150
Allison Black Gold Centre	n	99
B&W CC3	0	150
B&W CC6	n	230
B&W Matrix HTM	Ω	500
Bandor Voice	Ω	317
Boston CR1	n	100
Boston Centre 6	n	130
Boston Micro 90 Cntr	n	180
Boston Centre 7	n	200
Boston CR2	n	200
Boston VR10	0	250
Boston VR12	0	300
Roston VP14	0 675	400

			_
Castle Keep	0		249
Celestion CC1	0		89
Celestion CSC	0		129
Celestion Centre 2	n		149
Celestion C1i	0		150
Cerwin-Vega CC-240	n		80
Cerwin-Vega CC-250	n		100
Dali SC5	U		220
Def Tech C1jr	U		275
Def Tech CIB	0		395
Def Tech CLR1000B Def Tech CLR2002	0		595 595
Def Tech CLR2000	0		845
Dynaudio Audience CC	0		425
Dynaudio Contour CC	0		850
Gale Centre 1	n		80
Gale Centre 2	n		120
GLL Arena AV Centre	n		100
Infinity SM Video	U		175
Infinity Centre	O		650
Jamo Centre 30 Jamo Centre 50.II	0		60 80
Jamo Centre 40	0		100
Jamo Centre 100 II	0		130
Jamo Centre 18	0		150
Jamo Centre 160	0		180
Jamo Centre 200	n		200
Jamo Concert Centre	O		500
JBL MR Centre	n		100
JBL TLX103	0		100
JBL SC305	0		150
JBL LX Centre	0		150 350
JBL L Centre JPW Mini Monitor	0		40
JPW Gold Monitor	0		50
JPW CC40	0		80
JPW CC50	n		90
JPW CC60	0		100
JPW CC70	U		130
KEF Model 80C KEF Q95C	0		129 199
KEF Model 100	0		359
KEF Model 200C	0		699
Kenwood CS-6	n		150
Keswick Centrali	n		359
Linn AV5120	n		650
Martin-Logan Logos	U		1,998
Meridian M60C Meridian M60C	0		1,125
Meridian DSP5000C	0		1,125
	0		1,750 3.095
Meridian DSP5500C Meridian DSP6000C	0		3,095 4,900
Meridian DSP5500C Meridian DSP6000C M&K S-85C	n		3,095 4,900 400
Meridian DSP5500C Meridian DSP6000C M&K S-85C M&K S-125C	0000		3,095 4,900 400 600
Meridian DSP5500C Meridian DSP6000C M&K S-85C M&K S-125C M&K S-150C (THX)	00000	THX	3,095 4,900 400 600 800
Meridian DSP5500C Meridian DSP6000C M&K S-85C M&K S-125C M&K S-150C (THX) Mission 73C	000000	THX)	3,095 4,900 400 600 800 150
Meridian DSP5500C Meridian DSP6000C M&K S-85C M&K S-125C M&K S-150C (THX)	00000	THX	3,095 4,900 400 600 800
Meridian DSP5500C Meridian DSP6000C M&K S-85C M&K S-125C M&K S-150C (THX) Mission 73C Mission 73C	000000	(TEX)	3,095 4,900 400 600 800 150 248
Meridian DSP5500C Meridian DSP6000C M&K S-85C M&K S-125C M&K S-125C M&K S-150C (THX) Mission 73C Mission 73C M-A CC300 M-A CC300 M-A CC70	0000000	(THX)	3.095 4,900 400 600 800 150 248 300 500 600
Meridian DSP5500C Meridian DSP6000C M&K S-85C M&K S-150C M&K S-125C M&K S-150C (THX) Mission 73C Mission 75C M-A CC300 M-A CC300 M-A CC70 Mordaunt-Short VS-100C	0000000000	THX)	3,095 4,900 400 600 800 150 248 300 500 600 100
Meridian DSP5500C Meridian DSP6000C Meridian DSP6000C M&K S-125C M&K S-125C M&K S-150C (THX) Mission 73C Mission 75C M-A CC300 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi	00000000000	(HX)	3,095 4,900 400 600 800 150 248 300 500 600 100 180
Meridian DSP5500C Meridian DSP6000C Mex S-85C M&K S-150C M&K S-125C M&K S-150C (THX) Mission 73C Mission 73C M-A CC300 M-A CC300 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin	0000000000000	THE	3,095 4,900 400 600 800 150 248 300 500 600 100 180 200
Meridian DSP5500C Meridian DSP6000C M&K S-85C M&K S-150C M&K S-150C (THX) Mission 73C Mission 73C M-A CC300 M-A CC300 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey	00000000000000	(THX)	3,095 4,900 400 600 800 150 248 300 500 600 100 180 200 250
Meridian DSP5500C Meridian DSP6000C Meridian DSP6000C M&K S-150C M&K S-125C M&K S-125C M&K S-150C (THX) Mission 73C Mission 73C M-A CC300 M-A CC300 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC		(THX)	3,095 4,900 400 600 800 150 248 300 500 600 100 180 200 250 170
Meridian DSP5500C Meridian DSP6000C M&K S-85C M&K S-150C M&K S-150C (THX) Mission 73C Mission 73C M-A CC300 M-A CC300 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey	00000000000000	THX	3,095 4,900 400 600 800 150 248 300 500 600 100 180 200 250
Meridian DSP5500C Meridian DSP6000C Mex S-85C M&K S-85C M&K S-150C M&K S-125C M&K S-150C (THX) Mission 73C Mission 73C M-A CC300 M-A CC300 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101		THX	3,095 4,900 400 600 800 150 248 300 500 600 100 180 200 250 170 299 120 120
Meridian DSP5500C Meridian DSP6000C Meridian DSP6000C M&K S-5C M&K S-125C M&K S-125C M&K S-150C (THX) Mission 73C Mission 73C Mission 75C M-A CC300 M-A CC300 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200		(IEX)	3,095 4,900 400 600 800 150 248 300 500 600 100 180 200 250 170 299 120 170
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C M&K S-5C M&K S-150C M&K S-150C M&K S-150C Mission 73C Mission 73C M-A CC300 M-A CC300 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C		T-X	3,095 4,900 400 600 800 150 248 300 500 600 100 180 250 170 299 120 120 170 180
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C M&K S-85C M&K S-150C M&K S-150C M&K S-150C M*Sision 73C Mission 73C M-A CC300 M-A CC300 M-A CC900 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS101 Polk CS101 Polk CS101 Polk AB705C Polk RM2500C		11-1 2	3,095 4,900 400 600 800 150 248 300 500 600 100 180 200 250 170 299 120 120 170 180 249
Meridian DSP5500C Meridian DSP6000C Meridian DSP6000C M&K S-5C M&K S-125C M&K S-125C M&K S-150C (THX) Mission 73C Mission 73C Mission 75C M-A CC300 M-A CC300 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C Polk RM2500C Polk RM2500C		(IEX)	3,095 4,900 400 600 800 150 248 300 500 600 100 250 170 299 120 120 170 180 249 250
Meridian DSP5500C Meridian DSP6000C Meridian DSP6000C M&K S-SC M&K S-150C M&K S-150C M&K S-150C Mission 73C Mission 73C M-A CC300 M-A CC300 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C Polk RM2500C Polk CS250 Polk CS250 Polk CS350		THX	3,095 4,900 400 600 800 150 248 300 500 600 100 180 250 170 299 120 170 180 249 250 450
Meridian DSP5500C Meridian DSP6000C Meridian DSP6000C M&K S-5C M&K S-125C M&K S-125C M&K S-150C (THX) Mission 73C Mission 73C Mission 75C M-A CC300 M-A CC300 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C Polk RM2500C Polk RM2500C		(TEX)	3,095 4,900 400 600 800 150 248 300 500 600 100 250 170 299 120 120 170 180 249 250
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C M&K S-85C M&K S-150C M&K S-150C M&K S-150C M*S C-150C M*SSion 73C Mission 73C M-A CC300 M-A CC300 M-A CC900 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk CS200 Polk RM2500C Polk CS250 Polk CS250 Polk CS350 Proac Response CC One			3,095 4,900 400 600 800 150 248 300 500 600 100 180 200 250 170 299 120 120 170 180 249 250 450 599
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C M&K S-SC M&K S-150C M&K S-150C M&K S-150C (THX) Mission 73C M-6 C300 M-7 C200 M-7 C200 M-7 C200 M-7 C200 M-7 C200 M-7 C200 M-7 C200 M-7 Mordaunt-Short VS-100C Mordaunt-Short VS-100C Mordaunt-Short MSC Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS101 Polk CS200 Polk RM2500C Polk RM2500C Polk RM2500C Polk CS250 Polk CR350 Proac Response CC One Revolver The Ricochet Ctr Richard Allen Centre Richard Allen Centre			3,095 4,900 600 800 150 248 300 500 100 250 170 299 120 120 120 120 120 120 49 250 49 99
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C Mex S-SC M&K S-150C M&K S-150C M&K S-150C Mission 73C Mission 73C Mission 73C Mission 75C M-A CC300 M-A CC900 M-A CC90 M-A CC90 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Merlin Mus Tec Osprey NAD 808CC NTT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C Polk CR350 Polk CS250 Polk CS250 Polk CS350 Porac Response CC One Revolver The Ricochet Ctr Richard Allen Centre Plus Richard Allen Centre Plus Richard Allen Centre Pols Richard Allen Centre Pols Richard Allen Centre Pols Richard Allen Dimension Ctr Pod		(TEX	3,095 4,900 600 800 150 248 300 600 600 100 250 250 250 120 120 170 180 249 250 450 49 99 99
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C MeX S-85C M&K S-150C M&K S-150C M&K S-150C Mission 73C Mission 73C Mission 73C Mission 73C M-A CC300 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C Polk RM2500C Polk AB705C Polk CS250 Polk CS350 Praca Response CC One Revolver The Ricochet Ctr Richard Allen Centre Richard Allen Centre plus Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Magnum Ctr Pod		(T=)X	3,095 4,900 600 800 248 300 600 100 120 120 120 120 120 120 120 450 450 599 49 99 149 249
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C M&K S-SC M&K S-150C M&K S-150C M&K S-150C (THX) Mission 73C M-6 C300 M-7 C200 M-7 C200 M-7 C200 M-7 C200 M-7 C200 M-7 C200 M-7 C200 M-7 Mordaunt-Short VS-100C Mordaunt-Short VS-100C Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk RM2500C Polk RM2500C Polk RM2500C Polk RM2500C Polk CS250 Polk RM2500C Polk CS250 Proac Response CC One Revolver The Ricochet Ctr Richard Allen Centre Richard Allen Centre Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Allen Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod Richard Magnum Ctr Pod		(1-1)	3,095 4,900 600 800 150 248 300 600 600 100 250 250 250 120 120 170 180 249 250 450 49 99 99
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C MeX S-85C M&K S-150C M&K S-150C M&K S-150C Mission 73C Mission 73C Mission 73C M-A CC300 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NHT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C Polk RM2500C Polk RM2500C Polk CS250 Polk CS350 Proac Response CC One Revolver The Ricochet Ctr Richard Allen Centre plus Richard Allen Centre plus Richard Allen Centre plus Richard Allen Centre plus Richard Allen Centre plus Richard Allen Dimension Ctr Pod Royd AV77 Ruark Dialogue One Solid C100		11	3,095 4,900 600 800 150 248 300 500 100 120 250 170 299 120 120 120 120 120 120 49 250 49 99 149 249 249 249 249 249 249 249 249 249 2
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C Mex S-SC M&K S-150C M&K S-150C M&K S-150C Mission 73C Mission 73C Mission 73C Mission 75C M-A CC300 M-A CC300 M-A CC900 M-A CC70 Mordaunt-Short WS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NTT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C Polk CR350 Polk CS250 Polk CS250 Polk CS350 Porac Response CC One Revolver The Ricochet Ctr Richard Allen Centre Plus Richard Allen Centre Plus Richard Allen Centre Plus Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Alle			3,095 4,900 600 800 150 2248 300 500 660 100 120 220 220 220 220 120 120 120 12
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C MeX S-SC M&K S-150C M&K S-150C M&K S-150C Mission 73C Mission 73C Mission 73C Mission 75C M-A CC300 M-A CC900 M-A CC900 M-A CC70 Mordaunt-Short WS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NTT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C Polk CR350 Polk CS250 Polk CS250 Polk CS350 Pola CS350 Porac Response CC One Revolver The Ricochet Ctr Richard Allen Centre Plus Richard Allen Centre Plus Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard Allen Centre Richard A		(12)	3,095 4,900 600 800 150 248 300 600 600 100 250 250 250 250 250 249 250 49 99 99 99 99 99 99 99 99 99 99 99 99
Meridian DSP5500C Meridian DSP5000C Meridian DSP6000C MeX S-85C M&K S-150C M&K S-150C M&K S-150C Mission 73C Mission 73C Mission 73C Mission 73C Mission 75C M-A CC300 M-A CC900 M-A CC70 Mordaunt-Short VS-100C Mordaunt-Short MSCi Mus Tec Merlin Mus Tec Osprey NAD 808CC NTT AudioCenter-1 Polk M3 C Polk CS101 Polk CS200 Polk AB705C Polk RM2500C Polk RM2500C Polk RM2500C Polk CS350 Porac Response CC One Revolver The Ricochet Ctr Richard Allen Centre plus Richard Allen Dimension Ctr Pod Richard Allen Dimension Ctr Pod Royd AV77 Ruark Dialogue One Solid C100 Sony SS-CN15 Sony SS-CN15 Sony SS-CN35 Sony SS-CN35 Sony SS-CN35		(III)	3,095 4,900 600 800 248 300 500 600 100 250 170 120 120 120 120 120 450 450 599 120 450 450 99 120 450 450 49 99 129 49 99 129 120 120 120 120 120 120 120 120 120 120
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Ω — magnetically shielded; allows positioning close to TV sets. THX - THX approved by Lucasfilm for use in Home THX installations.

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B&W SCM8	THX	
Boston VRS Micro		170
Boston CRX		200
Boston VRS		299
Boston VRS Pro	THX	
Celestion Little 1		99
Celestion MP1		199
Cerwin-Vega SA-140		100
Cerwin-Vega SA-150		140
Dali SS5		220
Def Tech BP1X		395
Def Tech BP2X		595
Def Tech BPX		1,095
Dynaudio Audience 5		398
H/K Citation 7.3	THX	1,/50
Infinity Quadrapole Jamo Surround 40		500
Jamo Surround 40		60
Jamo Surround 100 II	4	70
		90
Jamo Cornet 35		120
Jamo Surround 160 Jamo Surround 200		130 170
Jamo Surround 300		200
		280
Jamo Surround One JBL LX Surround	THX	550 180
JPW Satellites		80
KEF Model AV2		
Kenwood RS-05	THX	539 80
Kenwood CM-5ES		80
Kenwood RS-550		100
Kenwood CM-7ES		100
Kenwood Omni 7		170
Martin-Logan Stylos	B15 - B345	2.872
Mission 73		100
Mordaunt-Short VS-100R		90
Mus Tec Kestrel SE		345
NAD 805RC		150
NHT HDP-1		299
Polk RM2000 II		350
Polk RT f/x		350
Polk LS f/x Surround		449
Revolver The Ricochet Rear		80
Richard Allen Satellites		99
Richard Allen Dimension Cubes		139
Sony SS-SR15		40
Sony SS-SR35		100
Sony SS-SR65ES	ME STE	170
Tannoy Profile Plus 628		149
Triangle SAT II		250
Wharfedale Modus Cube		60
Yamaha NS-E60		80
Yamaha NS-E105		110
		302

SUBWOOFERS

active; includes a dedicated power amplifier. THX - THX approved by Lucasfilm for use in Home THX installations.

	B000	10000
Aiwa TS-W9	0	170
Allison Mini Ref Sub		210
Alon Poseidon	0	15,000
AMC B1-20	0	350
Audio Physic Terra	0	3,499
B&W AS6	0	500
B&W Matrix 800ASW		3 1,500
Boston CR400	0	300
Boston VR500	0	450
Boston VR2000		3 800
Celestion CS135		139
Celestion CSW MkII	0	329
Celestion S1i	0	349
Cerwin-Vega HT-10D		200
Cerwin-Vega HT-12D		250
Credo SDC 001	0	3,054
GLL LE Bass	0	350

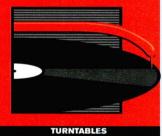
Hales Concept Zero H/K Citation 7.4 Infinity SSW-10 Jamo 860SW Jamo SW303E			2,950
Jamo 860SW	0	THX	875
			500
Janio Saasose	0		220
Jamo SW400E	0		330
Jamo SW505E	0		400
Jamo Sub One Jamo SW600e	0		530
JBL CM6	0		200
JBL PSW800	0		275
JBL Sub 10	0		300
IBL PSW1000 IBL PSW1200	0		325 375
JPW Subwoofer	0		130
JPW SW60	0		350
JPW SW120 KEF Model 20B	0		500
KEF Model 30B	0	270	349 499
KEF Model AV1	0	THX	2,499
Kenwood SW500 Keswick Alto			250
Linn AV5150	0		1,299 2,850
L Voice RW24			11,500
Meridian Sub 1			1,500
Meridian M2500 M&K VX-7MkII	0		1,595
M&K V-75 MKII	0		450 650
M&K V-125 (THX)	0	THX	800
M&K MX-70	0		900
M&K MX-150 M&K MX-200	0	THX	1,500
M&K MX-300	0	THX	2,500
M&K MX-5000	0	THX	2,900
Mission 73AS Mission 75AS	0		450 548
Mordaunt-Short T2000	0		500
Mus Tec Sub	0		650
Muse Model 22	0		1,890
Muse Model 18 Neat Gravitas	0		3,790 1,095
NHT SW2Pi			609
Polk PSW50	0		350
Polk PSW150 Polk PSW300	0	100	500
REL Q50	0		750 375
REL Q-100E	0		495
REL Strata II	0		575
REL Storm REL Stadium II	0		695 995
REL Stentor II	0		1,795
REL Studio II	0		3,995
Revolver The Recoil Richard Allen Gold Sub			100
Richard Allen Dim'n Active	0		499
Richard Allen Magnum Active	0		699
Rogers AB33 Rogers AB1			379
Roksan Ojan 3S			549 795
Sequence FW120			249
Solid PB100	0		350
Sony SA-W101 Sunfire True Sub	0		1,600
Tannoy 625ALFie	0		599
TDL Nucleus SBR			200
Triangle SATIII	0		650
Velodyne VA-68XII Velodyne VA-79XII	0		399 499
Velodyne VA-810XII	0		599
Velodyne VA-1012XII	0		699
Velodyne VA-1215XII Velodyne FSR-12	0		1.099
Velodyne FSR-15	0		1,099
Velodyne F-1800II	0		1,999
Wharfedale Modus Sub Bass Wharfedale Modus Powered Sub	-		180 350
Whartedale Modus Powered Sub Wilson Audio Puppy 5.1	0		8,450
Wilson Audio Whow III	0		12,500
Yamaha YST-SW40	0		140
Yamaha YST-SW80 Yamaha YST-SW150	0		180 280
Yamaha YST-SW300	0		350
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Air Tangent 10B		#	7,77
Air Tangent Ref. Sig.		#	11,000
Audio Note AN-ARM 1	0		169
Audio Note AN-Os	0		79
Audio Note AN-1s	0		99
Audiomeca SL5		#	2,500
Clearaudio TQ-1 Improved			1,950
Dynavector 507	0		1,995
Graham 1.5 Basic	9		1,695
Graham Mk 2.0	0		2,650
Helius Orion 4 Copper	0		549
Helius Cyalene 2 Kuzma Stogi	0		1,495
Kuzma Stogi Reference	0		750 1,250
Linn Akito	(a)		500
Linn Ekos	0		1.500
Manticore Musician II	9		599
Manticore Magician II	0		895
Manticore Magician 12	0		995
Moth Mk !	0		109
Moth MKIII Stainless	0		146
Moth Mk III Tungsten	0		174
Moth Moth 900	0		598
Naim ARO	0		1,040
N'ham Space	0		450
N'ham Paragon 3		#	550
N'ham Paragon 2		#	800
N'ham Mentor	0		800
N'ham Paragon 1		#	1,600
Rega RB300	0		109
Rega RB900	0		598
Roksan Tabriz	(a)(b)(c)(d)		320
Roksan Tabriz Zi	0		420
Roksan Artemiz	0		895
SME 3009 Ser II Imp	0		309
SME 3009 S2 Ser II Imp	0		338
SME Series II 3009-R	0		514
SME Series II 3010-R	0		526
SME Series II 3012-R	0		565
SME 309	9		668
SME 310	0		705
SME 312	0		802
SME Series IV	9		983
SME Series V	0		1,461
Townshend Excalibur	9		1,499
Wheaton Music Tri-Planar 4i	0		3,000
Wheaton Music Tri-Planar 5i Wilson Benesch ACT1 Std	0		3,250
Wilson Benesch ACT2	0		950 1,350
Zeta AS	9		469
Zeta VDH	0		549
	9		

Wheaton Music Tri-Planar 4i Wheaton Music Tri-Planar 5i	9	3,000 3,250
Wilson Benesch ACT1 Std	0	950
Wilson Benesch ACT2 Zeta AS	0	1,350 469
Zeta VDH	9	549
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TUNERS		
KEY	18.	1 98
'P20' - (etc.) number (ts.
RDS - Radio Data Sy		
receives text information	on on st	ation,

RDS - Radio Data System;							
receives text informa	tion on	station,					
programme type etc.							
		1 100					
AMC T7	P30	130					
Arcam Alpha 7	P24	230					
Arcam Alpha 8	P24	280					
Arcam Delta 280	P20	399					
Audiolab 8000T	P39	800					
Aura TU80	P30	350					
AVI S2000MT	P16	599					
AVI S2000MT2		RDS 799					
Carver TX-8R	P20	469					
Creek T43	P68	399					
Day Sequerra FM Ref		5,937					
Day Sequerra S B'dcast Mon		14,640					
Denon TU-260L	P20	120					
Denon TU-215RD		RDS 150					
Denon TU-425RD		RDS 200					
Grundig T12		RDS 170					
H/K TU930	P30	150					
H/K TU950		RDS 200					
Kenwood KT-2080	Marine T	RDS 130					
Kenwood KT-3080		RDS 180					
Linn Kudos	P50	775					
Linn Kremlin	P80	2,600					
Magnum Dynalab FT11		550					
Magnum Dynalab FT-101A		825					
Magnum Dynalab Etude		1,250					
Magnum Dynalab 108		4,500					

READEL CO. A. C. C. C. C. C. C. C. C. C. C. C. C. C.	B5000000	650000	Mark Committee
Marantz ST-57	P59	RDS	150
Marantz ST-65	P59	RDS	200
Marantz ST-17	P60	RDS	600
Meridian 504	P30		695
Meridian 604	P30		1,350
Michi RHT-10	P16		895
Micromega Minium FM Mk2	P39		329
Micromega Tuner	P39		750
Mission Cyrus FM7	P29		400
Musical Fidelity E50	P20		300
NAD 412	P24		190
NAD 414RDS	P30	RDS	250
NAD 710	P24		270
NAD 712	P24		330
Naim NATO3			595
Naim NATO2			1,080
Naim NATO1			1,730
Onkyo T 4210RDS	P30	RDS	180
Onkyo T 409	P30		230
Onkyo T 411RDS Pioneer F-204RDS	P30	RDS	260
Pioneer F-204RDS	P30	RDS	140
Pioneer F-504RDS	P40	RDS	250
Quad 77FM	P40	RDS	700
Rega Radio	P25	RDS	229
Roksan Caspian	P50		495
Rotel RT-935AX	P20		160
Rotel RT-990BX	P16		500
Sony ST-SE200	P30		100
Sony ST-SE300	P30	RDS	120
Sony ST-SE500	P30	RDS	140
Sony ST-SE700	P30	RDS	180
Sony ST-SA3ES	P30	RDS	250
TEAC T-R400	P20		120
TEAC T-H500	P30	RDS	170
TEAC TB-X10	P20	RDS	400
Technics ST-GT350L	P30		150
Technics ST-GT550L	P39	RDS	200
Technics ST-GT650L	P39	RDS	250
Thorens TRT-2000	P59	RDS	499
Yamaha TX-480L	P40		100
Yamaha TX-492RDS	P40	RDS	130
Yamaha TX-590RDS	P40	RDS	180



TURNTABLES KEY (a) arm included. To cartridge included. Up to £500

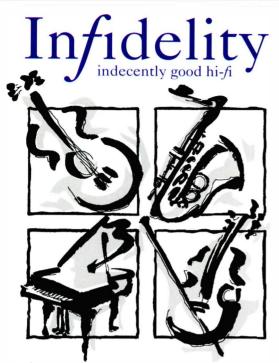
Audio note An-II I			34
Dual CS435-1	0	-	15
Dual CS455	0	-	19
Dual 505-4 UK	O !	-	25
Eclipse TT430	O 1	-	7
Genexxa Lab-710	01	-	6
Genexxa Lab-810	0	-	7
Grundig TT1	0	-	18
Kenwood KD-492F	01	-	10
Michell Mycro			43
Moth Alamo	01		19
Moth Kanoot Mkl Arm	0		279
Moth Kanoot Mk3 Arm	01		329
NAD 533	0	-	22
N'ham Interspace			500
Pioneer PL-J2500-C	01	-	80
Pioneer PL-990	01	-	130
Pro-Ject 0.5/OM10	01	-	160
Pro-Ject 1/510	01	-	200
Pro-Ject 2/520	O 1		300
Pro-Ject 6/MC15	O t	-	451
Rega Planar 78	01		214
Rega Planar 2	⊙ !		214
Rega Planar 3	⊙ !		274
Roksan Radius			470
Sherwood PM8550	01	-	130
Sony PS-LX150H	01	-	90
Sony PS-LX300H	01	-	150
Systemdek I/920			136
Systemdek IIX/900	01		230
Systemdek I/920/Moth	01		235
Systemdek IIXE/900Ap			388
Systemdek 960			500
Systemdek 2X2			500
Technics SL-BD20	01	T	160
Technics SL-BD22	0	-	180

Thorens TD-280 IV/UK 210 01 Thorens TD-318 III TP50 Audio Note AN-TT 2 Audio Note AN-TT 3 1.995 Audiomeca J1 Basis 2001 1.895 0 3,500 2,750 Basis Ovation II
Basis Debut Gold Std III
Basis Debut Gold Vacuum 4,800 7,200 9,250 Clearaudio Evolution 1,790 01 3,900 **⊙**! 695 Kuzma Stabi Reference 3,750 Linn LP12 Basik Linn LP12 Lingo Manticore Mantra 97
Manticore Mantra
Manticore Magister
Marantz TT-1000 595 895 4,400 6,000 Michell Orbe N'ham Graphic 1,200 N'ham HyperSpacedeck N'ham Mentor N'ham Anna Log 1,500 2,600 5,500 Oracle Paris
Oracle Delphi
Oracle Delphi 15th Anniv
Pink Triangle Tarantella
Pink Triangle Anniversary 1.100 3,370 3,800 579 850 1,598 675 1,295 Pro-Ject 6/Sumiko 01 01 01 Rega Planar 9 Reson RS1 Roksan TMS SME Model 20/2 2,750 3,403 01 4,836 10,675 SME Model 30/2 SME Model 30/2A Stratosphere ST1 12,135 6,500 01 Thorens TD-146 VI TP50 01 550 0 Thorens TD-520 SME 1.050 Townshend MkIII Rock 1,499 01 Well Tempered Classic Well Tempered Super Well Tempered Reference 01 2,980 01 3,900 5,300

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products
that we have
reviewed.
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summary
of test results!



3,333



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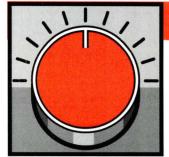
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Hi-Fi CHOICE

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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 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

he amplifier sits at the heart of the system, processing the outputs related. Some of the finest amplifiers available have outputs as low as from the various music sources as necessary and then driving 12 Watts, but team them with high-efficiency loudspeakers and you can

Power output is equally no indication of sound quality.



LINE INPUTS: Amount of input sockets for non-vinyl sources such as CD players, tuners and cassette decks.

MM PHONO INPUT: If an amp has a vinyl phono input for moving magnet (normal output) cartridges.

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 original review appeared.

IMIEGRAL		AMPLIFIERS	UTS W	1/1/1/	PUT	'RO, "	VKFT "	"(W KIV	EDMBED
	rice(£)	Comments	MC PHONO INI PUTS INI	ν/ • • • • • • • • • • • • • • • • • • •	0 /	POWE, VIROL	47	FACTSBACK RECEIV WT(W)	ISSUE NUM NUMBER
Alchemist Maxim	319	Vivid and colourful sounding amp that's just too bold and brassy	5					30	1737
Alchemist Nemesis	700	Good if ultimately undistinguished amplifier whose strengths include warmth, authority and distinctive aesthetics	6				Bar.	80	1/3/
AMC 3025a	130	Surprisingly potent and easy on the ear, if not especially analytical. Classic bargain basement material in fact.	4		•		•	30	
AMC 3050a	170	Tremendous value for money, and a full, big, if rather uninformative sound	4					45	
AMC CVT3030a	400	Beer-budget valve amp, with quintessentially valve-like virtues (euphony with dynamics) and vices (system dependency, nois	-					30	
Arcam Alpha 7	250	Decent, if slightly system-fussy amplifier that generally pulls all the right strings	5	•				40	
Arcam Alpha 8	350	Enjoyably soft-centred amp, won't frighten the animals. Upgradeable via preamp output, and R/C (not supplied)	5	•			•	50	1853
Arcam 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	1033
Audio Innovations Alto	300	Probably because of a lack of deep bass, this stylish amp sounds open, natural and relaxed	6					35	1540
	56,000	A single-ended, zero negative feedback triode, line-level amplifier and a half. Probably the best amplifier in the world	3					26	1040
Audio Note Oto SE	1,200	Transparent, dynamic, clear and subtle, but limited power	4					24	
Audiolab 8000A	550		5	•	•		•	60	1581
	-	The 8000A remains a highly disciplined and mature-sounding amp	6					60	1740
Audiolab 8000S	750	Informative in every sense, only a slight lack of bite detracts. Perhaps Audiolab's best yet!	5					70	1541
Aura VA100 II	350	Big and smooth, yet slightly disjointed sound was equally familiar	4	•				60	1341
Cambridge Audio A3i	200	Maximum information design, with plenty of usable and reasonably refined power. A snip	5					60	
Copland CSA8	945	Sophisticated yet transparent, this is one of those amplifiers that sounds good even when the gloss has worn off	4					60	1410
Copland CSA14	1,199	Great sound and looks, but watch out for high capacitance cables	5	•				40	1416
Creek 4330	279	Compact, even pretty, but sounds dark and uninviting, with coarse treble and woompy bass This area con count county when extended but within its limits it is open detailed and likeable.	5					30	
Denon PMA-250SE	160 200	This amp can sound rough when extended, but within its limits it is open, detailed and likeable	5	180			•	50	1856
Denon PMA-350SE	-	Reinvented in the minimalist tradition, the new SE model is a control freak, but can sound wonderful	-					All Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co	1836
Denon PMA-425R	230	Well-equipped and generally enjoyable but slightly ragged performer. You can do better	3	•		•	•	45	1000
Denon PMA-725R:	350	Warm, bold, up-front presentation, but musically unexciting	5	•		•	•	97	1802
Densen Beat B-100	600	Low feedback amp with passive internal preamp gives a bold, pacey and thoroughly involving sound. Phono option listed	5					60	1855
DPA Renaissance	595	DPA's first integrated amp is typically innovative, but a little too 'crisp 'n dry' for our tastes	5	•	-		•	40	1582
EMF Audio Sequel	450	Relaxed and restrained design from Mike Creek	5	•			•	50	
Exposure XX Super	700	Rather transistorised, unexciting sound. Good coherence and rhythm. Best played loud	6					55	1743
Gamma Acoustics Gemini	699	Genuine single-ended triode design, but low power, mundane sound and poor build	3					12	1416
Harman/Kardon HK610	180	Lively and friendly sound, but could prove too exciting for the faint hearted	6	•			•	30	1465
Harman/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
Harman/Kardon HK640	400	Breezy, nimble sounding amp, lacks grip and fortitude — it can sound artificial and insubstantial	6				•	55	1542
JoLida 202	695	Well-built and technically accomplished, affordable valve integrated with subtle and refined, if not quite gripping sonic performan	-					40	
JVC AX-V4	200	Respectable performance for a Pro-Logic AV amplifier. Lacks resolution and sparkle, though	5	•		•	•	63	1805
JVC AX-R5	200	Versatile, and lots of even-handed, articulate detail; but let down by superficiality	5	•		•	•	45	1466
Kenwood KA-3020SE	200	Not a brilliant phono stage, but this is a lively, exuberant sounding amp via CD	5	•			•	50	1130
Kenwood KA-5090R	300	Large, well equipped and high tech integrated, but TRAITR output still gives a harsh, unsubtle performance	5	•	•	•	•	65	
Krell Digital KAV-300i	2,550	EISA Award winner with balanced inputs and AV friendly outlook, sound is confident and three-dimensional (Statements)	5					150	1825
LFD Integrated Zero	549	Lively and brisk, but at the same time cold and unsympathetic	6					50	1584
Linn Majik (Phono)	800	The cornerstone of Linn's modular hi-fi system is innovative, but sounds vague and confused	5	•	•		•	33	1013
Magnum IA120	265	Mirror finish amplifier with a bold, colourful delivery, but needs careful system matching to avoid loss of focus and clarity	6				•	65	
Magnum IA170	330	Gives a realistic sense of instruments playing within a very believable acoustic, preserves colour and dynamics well	6				•	96	1260
Magnum IA-200	495	Sweet, valve-flavoured solid state amplifier flatters where it doesn't cast light. Note: power output listed is peak	7			8		100	1860
Magnum Class A	690	Lashings of rich and compelling music, but the Class A trades lushness for accuracy	4	•	•			60	
Marantz PM-57	200	Well equipped but ultimately anodyne amplifier which lacks for nothing but star quality	5	•		•	•	50	
Marantz 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	•		•	•	50	
Marantz PM66 KI-Signature	400	An amplifier that knows how to rock and roll with holographic detail and stereo, but prefers small/medium scale acoustic materi	al 5	•		•	•	50	
Micromega Minium Amp	350	Excellent musical performance but doesn't like high levels or low impedance speakers	6	•		•	•	40	1806
Mission Cyrus IIIi	500	Beautifully presented, but mid-dominated balance and other anomalies were not liked. Upgradeable using PSX unit PSU	6	•		•		50	1854
Mission Cyrus SL	398	Sharp, articulate amplifier, and superb, outgoing midband with lean though well-extended bass — and build quality to die fo	r 6	100				50	
Musical Fidelity A2	499	Lucid, transparent midband and a full upper bass are provided by this highly proficient A1 replacement	5	•				25	1862
Musical Fidelity A220	700	Powerful, authoritative and well turned-out amplifier that is easy to match with comparably priced speakers and source componer	its. 5	•				50	
Musical Fidelity E1	199	Vivid, richly flavoured tonality and realistically scaled imagery distinguish this new entry level Richer Sounds special	6					30	
Myryad MI 120	530	Despite an ultra-modern appearance, the old-fashioned cold, dry transistor sound	5			•	•	60	1747
MAD 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
NAD 312	200	Another great budget price NAD, and a worthy all-round successor to the 302	6				•	25	
NAD 314	260	Lively if coloured presentation that is musically engaging and easy on the ear	6	-		- 100	•	-	1807

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INTEGRAT	ED	AMPLIFIERS	MM PHON	C PHO O INP	REMOT NO INT	E CONI	POWE NE SOL ROL	POUTPU CKET	TCTSBACK RECEIV T(W)	ISSUE NO NUMBER
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Naim Nait 3	575	Distinctive and highly musical sounding integrated amp. Perhaps too distinctive for some tastes		5					30	1748
Prelle SA-100	449	A musically rewarding amplifier that grows on you. Trace of coarseness in treble		5					50	174
ioneer A-204R	160	The A-204R makes no special claims beyond being well equipped and cheap, but it displayed unexpected talent on test		5					25	
Pioneer A-300R	200	Its bright and breezy sound is a natural tonic to those of us worn down by the ongoing stress of life		5	•			•	50	1469
Pioneer A-400X	300	On second audition, this amp was tonally unchanged but less compelling		6	•	•		•	50	154
Pioneer A-300R Precision	400	Sophisticated, breathed-on variant of the A-300R. Not an obvious winner, but will slowly win you over with its subtle ch	arms	5				•	35	186
Pioneer A-605R	400	Intriguing technology, but execution is certainly impeded by excessive gadget count		5	•		•	•	80	
Prime Design A-100	650	Dynamic but somewhat aggressive powerhouse with limited stereo interest (either MM or MC phono)		4	•	•			100	
	-			5					40	126
ro-ject Model 7	300	A minimalist amplifier brimming with good intent, but too quirky for its own good. Either MM or MC		100					No.	120
luad 77 Integrated	700	Compact and sophisticated Quad system amp, limited range of inputs when used with 'foreign' components (optional system re	mote)	3					84	
lega Elex	398	Minimalist amplifier derived from Elicit, is a little uninspiring, though at least it is not badly behaved		4					50	186
loksan Caspian	695	Well-built, open and articulate amplifier, which is also consistent from system to system, and well built		6					70	
lose Scion	615	Unique two-box integrated gives real subtlety and low level resolution, but the sound lacks scale and weight		5	•	•			65	
otel RA-931	150	Rather dry and unforgiving sound from this internally well specified and attractively priced amplifier		4	•			•	35	
	-		_	6				•	60	154
otel RA970BX	250	Lively, fresh and perky with plenty of power, but not so clever with complex recordings		-				200	-	154
ony TA-F246E	200	Relaxed quality that seduces with its guile and subtlety, MM input is a bit laconic but CD is very tidy and composed		3	•		8-	•	40	147
ony TA-F448BE	250	Classic minimalist interface is matched to carefully considered circuit to broadly satisfactory effect - but keep the volume in	check	5	•			•	55	
alk Electronics Storm 1	500	Good soundstaging and strong detail are provided by this unassuming and not especially powerful model		6		211			50	186
EAC A-BX7R	700		200	5			•		50	186
	-	Characterful balance mars an otherwise meticulously designed amplifier. Includes a balanced input, optional MM/MC st	age	200					-	1000
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	187
loodside ISA230 Disc	1,249	Smooth and inoffensive valve amplifier, though it lacks the sparkle and euphony required for a truly entertaining sound		3	•				30	
amaha AX-592	280	Fine, middle ranking amplifier, with a detailed, dynamic midband, and some performance falloff at the frequency extremes	8	5	•	•	•	•	100	18
reamplifiers		STATE THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF				Biological Control				
curus RL11	899	Well-featured US preamp with plenty of grunt and depth when used with the A150 power amp (Sessions)		6						162
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	100		-							102
MC CVT1030A	400	Budget valve preamp, modest build and a bit noisy, with fair sound		6	•			•		
idio Innovations L1	369	Reviewed with S800 Anniversary — explicitly detailed, conveys the message of the music as a whole		4						130
idiolab 8000C	550	Distinctive, stark neutrality that will not appeal to all. Good value engineering		5	•	•		•		
diolab 8000Q	1,100	Tested with 8000M monoblocks		6			•	•		130
ra CA200	700	Flexible, well designed – can sound slightly aggressive, but it's fast, clean and dynamic, and makes compelling listening		10						
nrad-Johnson PV-10A	1,295			4					BIC B	156
		Beautiful imaging, superb detail, plenty of gain on the phono input; classy build too. Tested in Sessions	_							-
pland CTA-301MkII	1,399	Sweet sounding – but never gets bogged down in audio treacle		4	•					1630
rus Pre	650	Tested with Cyrus Power. High-tech design, punchy, light-footed character with a sense of substance and natural warmt	1	5	•					
nsen DM-20	1,200	Stylish Danish preamp with a pair of huge knobs and effortless resolution and a slightly dark balance (Statements)	1	6						
R 802MC	2,599	Tested with 509 Mk II - see comments in power amp section		4	•	•				
CA Vista	760			5						130
		Wind up the volume and blow a breath of fresh music into your system (tested with Lectern)								1304
posure XVII	849	Superbly rhythmical; maybe a bit overpowering in the midband. Tested in Sessions with XVIII Super		5	•	•				
dis JP-30MC	5,978	French tubes, JP-30MC has beautiful build, nostalgic styling and delightful midrange. (tested with JA30)		5	•			1		
D Mistral Linestage	499	Strong ergonomics, generally decent sound, but a little lacking in detail		6						
eridian 501	695	Tight, positive sound, but dispassionate; intense at high levels. Tested with 555		5	•			•		1303
eridian 562V	995		-	9	•					1000
NAME AND ADDRESS OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN PARTY OF T	100	Transparent and capable preamp, also features six digital inputs	- 8	lane -						
eridian 502	1,295	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentation (Statements)		7			•			
oth 30 Passive	149	Modular system gives cracking results. Passive preamp and power amp warrant Best Buy (tested with 30/Stereo 60)		4						
oth 30 Active Line Stage	349	Excellent sounding ultra-simple miniature preamp		4						1
	-	Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp (tested in Stateme	- 6	5			•			
			111(3)							
isical Fidelity F2	500	Subtle, sweet-sounding preamp with strong presence		5		•				
D 114	270	Beer-budget preamp, sounds focused, detailed and consistent		6	•	•		•		
im NAC92R	599	Upgradeable preamp uses proprietary socketry, etc. See NAP90 power amp for comments		5			•			
ad 77 Pre	100	Sophisticated design with 2-way remote control console; open colourful sound and very flexible	- 6	4	•				N. 1	
Market Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	-		- 6	6						
ga Hal	-	Dedicated to Exon power amps – passive line stages	- 20	-						
se RV-23	100	You can pay more to get a more transparent sound, but it's hard to criticise at the price	- 60	3	•			2		
tel RC970BX MkII	175	Confident, consistent sound. reviewed (in Sessions) with RB970BXMkll power amps	- 60	5				•		
mo Athena IIB	767	Tested with Polaris III. Big, natural and tidy-sounding with very natural reproduction of acoustic and electric instruments		6						1305
k Hurricane 2L	-	Design of integrity which gets to the heart, if not the soul, of the music	- 20	6						
Mark Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the C	-		- 10				•			100
orens TTP2000F	-	Glamorous, shoebox-format, minimalist pre with fine detail and some granularity		3						
odside SC26 Phono	2,233	Synergistic with STA35, with a cool, controlled sound, good focus and transparency (tested with STA35)		5				4/1		
wer amplifiers										
irus A150	899	Tested with RL11 preamp. Powerful remote-control US combo with a slightly forward inclination		1				1	50	1624
hemist Kraken/Pwr	-	Hardly accurate, but entertaining nevertheless		1				200	60	
			-	1				-	80	
C CVT2100A	-	Astonishing value valve/MOSFET hybrid with KT88 output, but lacks the magic of the best valves	-	-				Tree of	OU	100
am Alpha 9P	400	Clear, colourful and well-disciplined, the Arcam is a strong all-rounder that can compete with conviction	- 10	1		Si.				
Audio Quintet	1,393	Switchable triode, ultralinear output stage. In triode mode, these are 15 of the sweetest Watts around. Surprisingly gutsy		1					15	
a PA100	100	Can sound slightly aggressive, but it's fast, clean and dynamic, and makes compelling listening		1		1		1	00	
liolab 8000M	-	Strong, controlled sound; confident bass, but colourless. Tested with 8000Q	-	1				-	25	1301
-			- 50	-				100	SOLVE BODY	200
	-	Ranks as 'must try' American cultural item (tested in Statements). Tube design	-	1				-	35	1179
CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	2,099	Grown-up amplifier with a refined, yet never over-civilised air	- 20	1				tion to	67	1630
us Power	498	Tested with Cyrus Pre. Punchy, light footed character with a sense of substance and natural warmth (bridgeable)		1					50	
	-	Fluid, valve-like power amp with effortless resolution and a slightly dark balance (Statements)	-	2			6/1	1	00	
	100	519	B301	1				-	00	
	-	Combining sonic strengths of transistors and valves, this amp warrants attention (tested with 802)		1				-	-	1000
Andrew Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	-	Tested with Vista. Wind up the volume and blow a breath of fresh music into your system		1				200	50	1302
osure XVIII Super	849	Slight dullness and hardness, but great 'boogie factor'		1					70	
in IA 20	5,980	French tubes, JP-30MC has beautiful build, nostalgic styling and delightful midrange (tested with £5,978 JP30)		1				2	30	
is JA-30	0,500									

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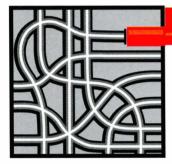
*	POWER	AMPLIFIERS	(CONTINUED)
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POWER A	MP	LIFIERS (CONTINUED)	MM PHONO PHONO NE INPUTS	MEADPHONE SOCKET NOTE CONTROL NOVE SOCKET	CK NUMBER NUMBLE
Product	Price(£)	Comments		V V V V	VV
Meridian 555	750	By providing an open window on the music, this amp is wide open to RF and low level IM distortions	1	60	1303 145
Meridian 557	1,400	Hefty British lump with balanced inputs and a transparent, nimble sound with no shortage of power (Statements)	1	200	162
Michell Alecto	1,150	Open, well focused imagery with natural, refined textures	1	50	165
Moth 60 Watt Stereo	599	Miniature power amp lacks control and finesse, not comfortable with difficult speaker loads	1	60	165
Moth 30 Series Monobloks	879	Tested with Active Preamp. While demonstrating solid, even balance it proved adept at delivering vital musical qualities	1	100	158
Muse Model 160	2,290	Transparent muscle amp with minimal character and a natural performer in both scale and tone (tested in Statements)	1	160	166
Musical Fidelity FX2	800	Quality build and imposing presentation is married to strong power yield, tonal colour and finesse	1	100	165
Myryad MA120	450	Based in M120 integrated — see for comments, but sounds significantly better when bi-amped with M120	1	60	165
NAD 214	370	A little lightweight, but detailed, consistent sound quality, and excellent value for money	1	80	y 165
Naim NAP90	450	Power amp from a Nait integrated with some improvements	1	30	165
Quad 77 Power	600	Open, bold and colourful, with mild compression	1	85	169
Rega Exon	2,194	Monoblock, priced each, dedicated for Hal preamp. Bold, outgoing, in-command kind of sound	1	125	165
Rotel RB-970BX MkII	225	Tested with RC970BX MkII in Sessions (see preamp section)	1	60	144
Rotel RB-980BX	475	Tames enthusiastically recorded material with a laid-back and occasionally smeared sound (tested with RC980BX)	1	120	155
Sumo Polaris III	950	Tested with Athena IIB. Big, natural and tidy-sounding with very natural reproduction of acoustic and electric instrument	ts 1	164	1305 145
Talk Tornado 2	599	Good, but slightly retiring sound which lacks the authority to stand out in a crowd	1	65	165
Thorens TTA2000	599	Low power shoe-box format, but gutsy and surprisingly subtle and articulate	1	30	165

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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 10 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.

- Digital interconnects connect CD transports to DACs, and are 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



ETRICAL: A twisted pair of conductors COAXIAL: A central 'hot' conductor and a shield that carries the

STRANDED: Multiple strands with no intervening insulation

SOLID CORE: Single or multiple, individually insulated strands COPPER: Material used for conductor. SILVER: Material used for conductor.

DIG CABLE TYPE: 0 - optical digital, E - electrical digital.

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

CABLES

OIG CABLE TYPE SIVER TYPE SYMMETRICAL COAXIAL STRANDED SOLID CORE COPPER SILVER Analogue Interconnects 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 1687 131 Neutral but lacking in subtle texture and unable to distinguish fine detail **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 ineffectual sound quality • 1688 . 131 Bandridge SG AL4720 13 4N OF copper, full smooth balance but a little plodding and relentless, lacks panache . 1688 131 Bandridge SG+ AL4820 25 4N OF copper, distinctly teutonic, thrusting detail forward but still plodding and relentless . . . 1688 131 **Bandridge ProfiGold PG301** 65 A perfect cable for enlivening a system, but too cold for most systems . . 160 Cable Talk Studio 2 65 A first-class performer from tonal, dynamic and rhythmic standpoints . 160 A **Cambridge Audio Studio Ref** 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! 108 **Chord Solid** 99 Thin but very stiff with excellent resolution of subtle timbral detail and fine dynamics . 108 A **Connections Midas HD** 39 Canary yellow cable with excellent plugs and an open sound. Slight treble glare 160 **DNM TCC75** 34 Price for 0.75m length. High resolution cable, but best in short runs due to higher than average series impedance 1690 131 41 Slightly bright and zingy sound with flat soundstaging and hollow sounding bass, vocals and strings sound convincing though • • 1690 131 **DPA White Slink** 75 Highly expressive, very easy on the ear and attractively detailed though not entirely characterless at high frequencies . 1691 131 **DPA Black Slink** 1 220 Initially dark and meaty but becoming lucid and transparent with running in. Quad geometry, Gore-tex dielectric . . . 1691 131 lxos 104 Open and detailed presentation, full bass and silky if overly smooth treble 131 20 R **Ixos** 103 40 Even-handed and generous sound, bass has a well-rounded, bouncy quality • . . 1692 131 lxos 102 60 A bit bright and undynamic, this cable is nevertheless a good all-rounder, whose faults are largely subtractive . . 160 xos 101 100 A cable with personality, its veiled and shut in quality brings an earthiness to vocals and rhythm guitar alike • • 1693 131 1694 131 ▲ LFD Spirolink I 35 Price for 0.7m length. Dynamic but smoothly detailed performance, but gives the impression of looking down on the music

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CABLES (CO	NTINUED)	PICAL COA.	STRAN	DED C	ORE COPP	DIG CAR	E TYPE	MBER NU	'n
Product P	rice(£) Comments		V	V	M		V	V	
FD Spirolink II	70	Price for 0.7m length. Strong and confident sound enhancing bass depth and subtlety, concentrates on the meat of the musi							1694	l
.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	•			•			1695	Н
inn Phono to Phono	47	Encourages a delicate performance underpinned by a strong and authoritative bass		•	•				1695	+
Monster Interlink 200	20	Colourful in an appealing rather than contrived sense, bass is slightly over-blown, large and ingratiating sound stage	•		•					
Monster Interlink 300	30	Richer, smoother more civilised sound than 200 with improved articulation and reduced sibilance	•		•					
Monster Interlink 400	40	Compromised by a grainy top end, treble and vocal range sound particularly sharp and untidy	•		•					
Monster Interlink 500	50	Sounds rather good, providing a livelier and more interesting account of music than most sub £100 cables	•		•					i
Monster Interlink 800	80	Not as bright or aggressive as the 400 but treble is strangely lumpy, muted and manipulated - odd cable	•		•				1697	i
Monster Interlink Reference 2	100	Easy on the ear but rather contrived, slightly clanky treble fails to integrate with the smoother but splodgy midband			•				1697	į
Noth Ley Line Black	100	Offers a full and big sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy	•		•	31	•			
Noth Ley Line Grey	200	Detailed enough but there's a sense of distance between the music and the listener, vox are coarse rather than liquid	•		•				371.	
lordost Black Knight	55	Flat black cable that is distinctive but slightly coloured – but not in a wholly negative manner	•		•					Ì
Panasonic RP-CA910	50	Uncongested and even handed balance if slightly flat imagewise, retains impact but has a vaguely untransparent quality		•	•					To the last
ilvertone Ex-Static	35	Pleasantly unfatiguing and competitively priced cable that lacks detail and insight		•	•					
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 temp	0		•		•		1699	Ì
ara Labs Prism 11	45	Very compatible cable that wins through with a naturally balanced and realistically dynamic sound. 6N purity copper	•			•			1699	
ara Labs Prism 22	56	Delivers a fresh and detailed sound with clear and bright treble giving it a free, quick and dynamic character		•		•			1700	
ara 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	•			• (
ara Labs Prism 33	90	A pedestrian cable that sounds lively but muddled. Quite dynamic, quite rich, quite smooth but also quite indistinct		•		•			170 0	
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	112	•	•				1701	
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		•		•			1701	
an den Hul Source HB	50	Price for 0.8m length. Hybrid carbon-fibre/copper cable that is a paragon of naturalness. Airy and well controlled		•	•					
an 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		•	•				1702	
an den Hul The Second	225	Wonderfully open and relaxing but also intimately detailed, slightly softens percussive dynamics	•		•		•		1702	
LO Type 150	50	A restrained but useful cable for taming lively CD players, dynamics lack freedom, treble lacks clarity		•	•				1703	
LO Type 0.1	180	Unusual but highly expressive and detailed with a hint of graininess on powerful vocals				•			1703	
Digital Interconnects										ı
udio Note AN-V	110	Ostensibly an analogue cable but gives a meaty and natural performance when used for digital duty	•			•	•		1704	4
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		•	•			E		
landridge AL4900G	40	Lacks deep rounded bass and treble is coloured with a spittiness, a little rough and ready			•		C- BOOK	-	1705	
Chord Codac	32	A connection with a stranded inner core and a sound that lacks integration		•	•	3	•	E		
hord Prodac	50	Price for 0.6m length. Lively detailed treble, drives music along confidently with no hint of fizz		•		•		-	1706	
PA Opti-link	20	Very similar to Bandridge AL560; sound is lacklustre						0		
PA Digi-link	28	Can seem slightly impassive but there's no avoiding its exceptionally detailed sound		9	•	2000		E	.707	
xos 105	25	Extended but soft-edged treble that's mercifully free of fatigueing colourations, plenty of weight, smooth vox		•		• (-	1707	
imber Kable Opti-link	50	Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most						0	. 700	4
FD Digilink Copper	30	Slightly grainy highly compatible cable with coherent and forward dynamic quality		•		4		ALC: UNITED BY	1708	
Noth Leyline Datalink	140	A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive						E	7	
ED Digiflex	20	A top performance, low-loss 750hm coax with a very open, almost liquid quality			•			E	1700	
iltech HF-6	150	Sounds detailed, very clean and very extended, but bass is less well resolved - a treat for high-end systems						10000	1709	-
onicLink Green	60	Spacious, positive and engaging if a bit over crisp at times, very compelling however				• (A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH		
an den Hul MC Videolink 75		An AV-cum-digital cable that nearly beats QED's Digiflex, but emphasises sibilants						E		4
an den Hul The First	120	Exceptionally natural albeit slightly dark or cautious compared to some, plenty of subtle information and beautiful integration		•				C	1710	
oudspeaker Cables	4 50	Supplied in linear non-polarized lengths that should be twisted into starce pairs. Sounds rather grippy and forward					4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			ĺ
udio Note AN-D	4.50	Supplied in linear, non-polarised lengths that should be twisted into stereo pairs. Sounds rather grippy and forward							1711	-
udio Note AN-B	16.50							-	1711	-
udio Note AN-L	29.50	, , , , , , , , , , , , , , , , , , , ,	•				•			1
udio Note AN-SP	125	A calm and civilised presentation, very quiet in the way it reveals subtle low level detail. Great poise and clarity	•	861			•			
udioquest F-14 udioquest Type 4	1.95	Ideal for laying under carpets, F-14 encourages a slightly warm and vibrant sound								
	4.95	Four 18-gauge OFHC copper conductors wound in a Litz-type fashion increases capacitance but restrains the cable's 'bite'		PR		000 C	BEAL	Sec.		ø



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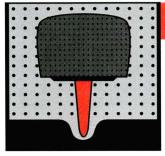
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CONNECTIONS

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CABLES (CONTINUED)

CABLES (COI	NTINUED)	METRICAL COAXIAL	SANDED COR	OIG CABO COPPER SILVER	BACK NUMBER	'M
		Comments	-41 -41	V V \	E EH EH	V V	
Audioquest Crystal	18	Neutral balance is spoiled by some graininess and smearing	•				1
Bandridge SF LC1070	42p	Basic figure 8 bellwire, lightweight balance and a softness that dilutes even the strongest bass	•	•	•	1713	-
Bandridge SF LC1259	1	Fresh and open, bubbly and naturally colourful soundstage that's neither forced or unduly edgy. Treble is slightly messy	•			1713	-
Bandridge Highflex LC2604	3.50	Substantial 6mm2 conductor produces weighty but ploddy music that lacks transparency	•	•	•	1714	-
Bandridge LC7409	3.85	Detailed and up-beat cable. A bit too steely for classical strings		•	•	1800	1
Cable Talk Talk 3.1	2.25	Quite well-balanced but tends to lose bass lines in complex music	•	•	•		1
Cable Talk 4.1	4.25	Smooth and cultured sound that lacks fine detail and is a bit too restrained		•	•	1800	ı
Chord Myth	5.95	Light and airy tonality may please, but bass is recessed and detail not outstanding	•		•		1
DNM LSC350	6.95	Majors on midband and lower treble lucidity at the expense of bass and extreme treble extension	•		•		
DNM LSCB500	5.95	High impedance can influence the treble response, but this was a winner on sound per pound. Bi-wire	8-1			1716	
DPA Black Sixteen	90	Unflappable resolution of fine musical details, there's no dampening of dynamics, simply oodles of taut information	•			1717	
Gale XL189	0.99	Slightly bright and not that subtle, but a perfectly acceptable cable for any starter system	•	•			
Gale XL315	2	A little lacking in detail but plenty of life and excellent value		•		1800	
Gale XL160-2	2.50	Rhythmic and bouncy-sounding bi-wire cable. Can be slightly manipulative		•	•	1800	
Goertz M2	20	Remarkably detailed, smooth, neutral and with excellent bass; check amplifier compatibility	•		•		
Heybrook Heywire	4	This well-meaning facsimile of earlier ribbon cables ends up sounding lumpy and uneven			•		
lxos 603	2	Big and expansive-sounding cable, full and engaging while retaining a high degree of neutrality		•	•	1718	
Ixos 604	5	Midrange is detailed and surprisingly smooth but treble is hard and synthetic and the bass no better		•	•	1719	
Kimber 4TC	19.68	A well-balanced cable with good performance in all areas		•	•		
Kimber 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		•	•		
Mission Quartet	7.90	Mixed, inoffensive sound, adds guttural resonance to vocals and could be generally more coherent. Bi-wire			•	1722	
Monster Cable XP	1.50	XP offers plenty of slightly soft bass and a slightly rounded treble, a relaxed cable whose indiscretions are not bothersom	e	• •	•	1723	
Naim 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		•	•		
Nordost Octava	2.95	Fair bass but confused treble and some coloration	•		• •		
Ortofon SPK100	3	Grey-sounding and strips instruments of their natural richness and resonance, a bit bass shy too		•	•		
Ortofon SPK300	8	Tremendously open and atmospheric with robust full blooded bass, and dynamic too if slightly bright at times	100		• •		
Puresonic 7845	1.95	Big, weighty sound — but too messy and bloated for its own good		•	•	1800	
Puresonic 7891	2.85	Chunky cable design, shame about the sound quality	•	•	•	1800	
QED Qudos	2.50	Despite high-tech design and excellent Air-Loc plugs, the music failed to gel	100	•	•	1800	
QED Profile	9	Good midrange and treble balance, but bass is rather slack and detail not outstanding	\$E. 8				
QED Profile 8	5	Sophisticated flat cable that lacks decent bass and get up and go		•	•	1800	
Silver Sounds 12 gauge	12	Basic 'homemade' construction gives fairly neutral sound, though not outstandingly competitive	•	•	•		
Sonic Link S300	18	Happiest with simple music; tends to smudge detail in complex pieces	•	•	•		
SonicLink AST50	1.95	It may look like bell-wire, but AST50 sounds detailed, ordered and balanced		•	•	1800	-
Transparent Audio Musichoro	11.42	Sweet, open and refined treble, a bit of breathy exuberance and can sound slightly lackadaisical		•	•	1728	
Transparent Audio Wave	22.84	Very close to the sound of 'no cable', one of the very best. Slightly softens treble detail	•	•	•	1728	-
Tech+Link 0FC79	1	Bargain basement cable that sounds cosy, but suffers from a wobbly bass		•	•	1800	_
van den Hul The Clearwater		Despite its evocative title, the Clearwater turns out to be a disappointingly murky-sounding cable		•	• •		
van den Hul CS122	19	Smooth and articulate with superb focus and control, its sheer coherence makes it a winner (tested in Sessions)		•	• •		
van den Hul The Magnum	31	Touted as vdH's most prestigious twinlead cable, Magnum sounds soft and old fashioned		•	• •		
van den Hul The Wind	35	'The Wind' kicks up a storm with its lush midrange and bone-crunching bass!		•	• •		
van den Hul Revolution	64	Silver-plated OFC combined with carbon fibre prompts a sombre character with an easy and relaxed treble		•	• •	1726	-
XLO Pro Type 625	4	Lively but natural and relaxed-sounding but a hint of congestion at frequency extremes		•	• •	1726	1
XLO Pro 600	16.60	Basically neutral tonality but can become aggressive and two-dimensional		•	•		



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 carbidge with a normal output suitable for all inyl disc amplifier inputs. MC: Moving coil cartridge with a low output only suitable for high-

sensitivity vinyl disc amplifier inputs REPLACEABLE STYLUS: Most MM cartridges have a stylus that can be removed and replaced.

OUTPUT (MV): Cartridge output in millivolts. MASS (g): Cartridge mass can affect ann choice. FACTSBACK NUMBER: The Factsback reference for ordering a fax

ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

CAPTRINGES

CARTRID	GES		MEPLACE	ABLE ST	OUTPUT (CTSBAL MAS (MV)	SK NUM S(g)	E NUMBER
Product	Price(£)	Comment		V	V	V	V	$\mathbf{\nabla} \cdot \mathbf{\nabla}$
Audio Note Io IIV	1,695	One of the best, giving an extraordinarily relaxing midrange clarity. Needs a transformer		•		0.1		100
Audio Technica AT-95E	19	Clear and dynamic, though richly balanced	0			2.8		48
Audio Technica ART-1	944	This is a delicate and very fluid-sounding MC that tracks well		•		0.4	9	72
Denon DL110	70	A fine all-rounder, this high output MC model is likely to perform well				1.0	6	48
Denon DL160	90	Although listeners just preferred the 110, its brother here survived lab tests and is still 'thoroughly competent'	100	•		0.1	6	43
Denon DL103	100	Good performance in bass and good 'life'. Is seriously let down by its spherical stylus which kills subtle detail		•		0.1	6	103
Denon DL304	200	Uncoloured, detailed, tracks superbly. Top notch altogether and a bargain too	1					103

CAPTRIDO	:FG	S (CONTINUED)	REPLACE MM	ABLE STV	PACTS PUTPUT M PLUS (MV)	BACK NUM	SUE NUL MBER
		Comment	NA	<i>™</i> (.	-03. ·19	, (y)	· · · · · · · · · · · · · · · · · · ·
Dynavector Karat 17D2 mk2		Clean and controlled sound with taut, tuneful bass. Detailed and musically cogent			0.15	5.3	
Dynavector XX-1L	998	Very clear, very detailed; a response lift around 20kHz seems to do no harm		•	0.25	- 120	
Dynavector XX-1	998	Good, but not immensely competitive at the price, and not helped by comparison with the low output version		•	2.0	-	
Goldring Elan	19	A lightweight and frisky-sounding MM apparently based on Nagaoka MM4 body	•		• 5.0	- 100	
Goldring 1012GX	79	Slightly harsh but plenty of life and detail. Some high frequency colouration apparent	•		• 6.5	-	
Goldring 1022GX	99	As with 1012, a touch harsh; detail and transient purity improved			• 6.5	-	
Goldring Eroica LX	110	Not the most subtle cartridge in the world: can sound edgy at times, but lively and informative		•	0.5	-	
Goldring 1042	120	Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively though			• 6.5	100	
Goldring Elite	220	The basics are right, and it will cheerfully tackle any source material, but its sound has a certain dirtiness		•	0.5	-	
Grado Prestige Gold	150	Rich sounding with an unusually refined top-end for a moving magnet-type cartridge	•		• 4	-	
Linn K9	125	Linn improved this model by beefing up the Basik's bodywork and adding a super stylus	•		• 4.5	Marie I	
London Decca Maroon	259	Now manufactured under the London brand name, this Decca cartridge is as iconoclastic as ever	•		5.0	6	
London Decca S Gold	339	Immediate and detailed, but coloured, nonlinear with a questionable effect on records	•		5.0	-	
Lyra Lydian	649	Superbly capable all-round musical performer that improves markedly when its body cover is removed		•	0.3	7	
Lyra Clavis Da Capo	995	A stable tracker, and one of the finest cartridges we've heard		•	0.1	7	
Ortofon 510/P	38	For the price, a good blend of virtues — weight, clarity and neutrality	•		• 3.0	5	
Ortofon 520/P	65	Sensitive to load capacitance, the 520/P has a lively, effervescent sound	•	B 1	• 3.0	5	
Ortofon MC10 Super	100	"What a delightfully sweet-sounding cartridge this is" we said	8	•	0.3	7	
Ortofon MC3 Turbo	130	The 3 Turbo is bright, cheerful and bouncy, but unsubtle — take it as it comes		•	3.3	4	
Ortofon MC15 Super II	130	A good all-rounder, with outstanding resolution, if slightly bright and close up	100	•	0.35	7	
Ortofon MC25E	180	An excellent upgrade for a mid-price turntable		•	0.5	11	
Ortofon MC25FL	249	A bit too stark and honest, but faithful to what's on the LP		•	0.5	11	
Ortofon MC30 Supreme	525	Highly detailed and even-sounding cartridge that has a special affinity with female vocal recordings	100	•	0.5	10.7	1
Ortofon MC3000II	1,100	A real eye-opener. Nothing to criticise anywhere, one of the very best		•	0.12	10	
Ortofon MC5000	1,500	Limited tracking ability, bright and forward sound, but good stereo		•	0.12	10	
Rega Bias	39	Difficult to mount in some arms due to its shallow build, the Bias offers a gentle, refined sound	•		• 5	4	
Rega Elys	85	Clearly superior to the Bias, the Elys is more detailed, accurate and convincing	•		• 5.0	5	
Roksan Corus Black	130	Recognisably related to the Corus Blue, but smoother and more civilised	•		• 6.5	5	9
van den Hul MM-1	250	If woody midrange could be tamed, imaging and security would pull it through	•		• 5.5	6	
van den Hul DDT-II	699	Outstanding stereo imaging and neutral balance are appealing, but rhythmically the DDT-II is a bit lazy		•	0.35	7.6	
van den Hul MC-10	799	A neutral, balanced performer, gives fine depth and focus and a firm, extended bass	8	•	0.4	6	
van 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		•	0.4	6	
van den Hul MC-Two	1,349	MC-Two rewards with a highly detailed yet fluid and musically convincing portrayal		•	0.4	6	
van den Hul G' hopper IIIGLA	2,999	Undoubtedly one of the finest cartridges available, it has tremendous bandwidth, energy and finesse		•	0.4	6	
Wilson benesch Matrix	786	Extraordinarily well balanced cartridge: neutral and detailed yet lively and rhythmically assertive		•	0.58	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 mechanical compromise. Useful facilities include tape monitor switching and Dolby S.



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-PRO:** 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 for any 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.

			DOLBY COLBY HA	TWIN 3.40 N	AUTO CALIBRA	FACTSBACK	SUE NUME NUM.	_
CASSETTE Product	Price(£)	Comments	arc ars	PRO "EAD	TEAD CHSE	10N 014S	W. "	E
Aiwa AD-F450	120	Basic but well-designed budget deck, astonishing value; only the poor metering gives the game away	•			•	1513	13
Aiwa AD-WX727	170	High-class twin for those who want bells, whistles - and music		•		•	1377	14
Denon DRM-550	160	There are some technical limitations, but this remains a fine sounding deck, and excellent value		•		•	81.	15
Denon DRW-580	200	Twin deck: OK for casual use, but will quickly pall with more quality critical applications		•		•		17
Denon DRS-640	200	Draw-loading deck, with simple facilities and smooth, well-adjusted sound		•	•	•	1591	14
Denon DRM-650S	230	An all-round improvement on predecessors, offers a wide-ranging, disciplined sound. Dolby S is not the best fe	eature •	•		• •		16
Denon DRM-740	270	Breathed-on DRM-710, with good external treatment, offers good, if somewhat detached sonics	•	•	•	•	1514	13
Denon DRS-810	310	Draw-loading deck, carefully designed yet lacking in subtlety on audition	•	•	•			12
Harman/Kardon TD420	250	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
JVC TD-R472	200	Excellent auto-reverse deck which doesn't suffer the usual disadvantages and is very sharply priced	•	•		•		15
JVC TD-V562BK	220	Ultra-sophisticated transport at a silly price; sound quality is stable but slightly opaque	•	•		•		12
JVC TD-V662BK	270	Assured, clean and agile sounding recorder, if not quite the most refined in its class	•	•		• •	1380	14
JVC TD-W718	300	Twin deck. Good for creative live recording, but no timer standby. Respectable though not earth-shattering perfo	rmance •	•		•	100	17

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			no.			AUTO ADI	ACTSRA	So.	
CASSET	TE DE	CKS (CONTINUED)	LBY C DOLBY	HX PRO	TWIN !	TOREVERSE	STABLE BIAS	UMBER NUMB	EA
Product	Price(£)	Comments	V	V	V V	V			\mathbf{V}
Kenwood KX-W6080	200	Modestly decent sounding twin deck, with some transport instability and ragged bass. The features list is also stro	ng •		•		•		171
NAD 613	230	Rough and ready, but enjoyable sound, though marred by mechanical motor noise	•		•		•		158
NAD 614	270	Solid, workmanlike and ungimmicky player with a sound to match, a little pricey by the standards of its class	•		•				164
NAD 616	300	Primitive twin deck with basic features. No Dolby setting memory, transports are too unstable for serious quality first u	se.		•				171
Onkyo K-611	460	Cute drawer loading mini-size component with 3-heads and dual capstan transport	•		•			1384	146
Pioneer CT-W806DR	300	Had it not been for the iffy transport quality, this ultra-sophisticated twin would have been recommended.	•		•	• •	•		171
Pioneer CT-S830S	500	High-class mechanism, if lacking in battleship externals, and superb sound	•	•	•			1385	146
Sony TC-KE600S	300	Mild setting-up problems notwithstanding, this UK-tweaked design has a smooth, open and un-cassette-like soun	d •	•	•				158
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			•		•		164
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	•		•				158
Yamaha KX-490	199	Electrifyingly transparent and capable deck whose only flaw is a trace of audible wow and flutter	•		•		• •		158
Yamaha KX-580SE	250	Subtle, engaging and transparent sounding deck, with a lightweight tonality, but good stability and strong detail	•	•	•				171

Players brought to you in association with

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

II CD players offer a basic selection of facilities, and some can keep you entertained for hours as you programme in disc names and track orders. All but the excessively inexpensive feature remote control. Most CD players can be upgraded by adding an outboard DAC (see 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

Best buy Recommended

players are usually two-box affairs.

ELECTRICAL DIGITAL OUTPUT: For electrical connection to an outboard DAC

AES/EBU ELEC DIG OUTPUT: Balanced digital output to be used

with similarly equipped DACs.

OPTICAL DIGITAL OUTPUT: For optical connection to an outboard DAC.

AT&T OPT DIG OUTPUT: High-speed optical output to be used with similarly equipped DACs. BAL ANALOGUE OUTPUT: Balanced analogue output for

iers equipped with balanced inputs. HEADPHONE SOCKET: For can users.

VARIABLE OUTPUT: Remotely adjustable, volume

controlled output

MULTI-DISC: Equipped with a carousel or multi-tray system for continuous play of multiple discs. DAC TYPE: Digital to analogue convertor: BS - Philips

Bitstream, MB – multibit, Hyb – hybrid of multibit and bitstream technologies, 1bit - single bit types such as MASH, bitstream, PWM, etc.

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CD PLAYE	RS	ELEC DIGITAL OUTPUT	01600	OUTE	VALOGUE O S OUTPUT	DUTPUT	JABLE OUT	FACTSBACK N MULTI-DISC TVP	SSUE NO UMBER	M
	Price(£		V		·, ·	·	7 7	V V V		
chemist Nexus APD32A	597	Refined treble, constrained yet capable bass and attractive all-round presentation distinguish this player from the crowd	•					Hyb		200
curus ACD11	899	First-rate if costly player from the US, which combines a delightful transparency with an uncontrived naturalness	•					1bit		
rcam Alpha 7	320	Very detailed for a budget player with a slick and free sense of dynamics, needs careful ancillary matching	•					Hyb	1872	2
rcam Alpha 8	520	Refined, intricately detailed but a little cautious, this should be broadly compatible with a variety of amps	•					BS	1873	,
udio Innovations Alto	399	Refreshing piece of audio sculpture belies inconsistent audio behaviour	•					BS	1635	5
udiolab 8000CD	1,000	Developed according to the Green Cross Code of digital audio with an elegant but safe musical presentation	•					BS	1874	ı
udio Research CD1	3,290	Suspends disbelief with a frighteningly real yet obviously coloured sound. A rare proposition among CD players	•	•	•	•		BS	1875	-8
VI S2000MC Reference	1.399	Lean, dry, high resolution player, built to outlast most of us, and a fine performer in a sympathetic system	•					MB		-
ambridge Audio CD4	150	Basic appearance and sluggish track access/track search belies its up and at 'em sound quality	•				•	Hyb	1268	3
ambridge Audio CD4SE	200	Among the best players we have encountered at the price, considerably more refined and convincing than CD4	•					BS	1877	-
ambridge Audio CD6	250	A sharp, lively and articulate player, a real thoroughbred in fact, perhaps too sharp and lively for some systems	•					BS		1
opland 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	•		•			MB	1880)
enon DCD-625	200	DCD-615 replacement is generously equipped but lacks sophisticated sound of its forebear	•				•	MB	1269)
enon DCD-825	240	Despite extensive revisions, this latest player still sounds like a typical 18-bit Denon, which is no bad thing!	•		•		•	MB	1531	i
en n DCD-1015	350	Excellent, mid-range player – fast, fluid and lean	•	•	•		•	MB	1599)
enon DCD-3000	1.000	Sings with the temperament of a huge orchestra under the baton of a timid conductor, but very agreeable at that	•		•			MB	1881	i
clipse 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		Ì
arman/Kardon HD710	200	A player of integrity, but can sound a bit hard and rough when extended, and is somewhat amplifier fussy	•				•	1bit		1
arman/Kardon HD730	300	Competitive at the price, with a coloured but dynamic and outgoing sound supported by a raft of user features	•				•	BS		1
eybrook Signature	989	Coarse, edgy and sometimes inconsistent sound, which is incompatible with the ambitious specification and engineering	•					MB		1
C XL-V284BK	140	Featuring a new set of bitstream innards, this flexible player has a refined, if occasionally unpredictable sound	•		•		•	1bit	1270)
/C XL-Z574	250	Strong resolving power and good midband and dynamics, but slightly raw and thin			•		•	1bit		
/C XL-Z674BK	300	Even-handed, but glosses over the most intimate moments	•		•		•	Service Marine	1637	,
enwood DP-3080	170	Bold, dynamic and outgoing sound, though somewhat aggressive. Poor build quality and finish			•		•	1bit		
enwood DP-7090	400	A lively and compelling performer with an even-handed and coherent disposition	•		•			MB	1885	5
rell KPS 20i	9,990	Forthright, edge-of-the-seat sound with outstanding bass performance (tested in Statements)	•	•	•	•		MB	-	-
inn Mimik	875	Useful multi-room features matched to strong bass, but poor imagery and transparency	•					Hyb	-	-
larantz CD63MkII KI Sig	500	It's the quintessential sound of Marantz – warm, open, and smooth almost to a fault	•		•		•	Hyb		
larantz CD-67	270	Dynamic, authoritative, and wide tonal response, but also shut-in and mid-forward balance	•		•		•	• 1 bit		
larantz CD-67SE	350	Refined, enjoyable player, though ultimately a little soft-centred	•		•		•	BS		
larantz CD-17	800	Fabulous packaging and an excellent all round performer: smooth, detailed and consistent	•					BS	1763	3
leracus Tanto	1,395	Believable tonal colours and textures, refinement takes preference over dynamics — but it's not cheap	•					DS		Ī
leridian 508 (20-bit)	1,685	Combines a delicate mid and treble with rich, opulent bass and has impressive low-level resolution	•		•			BS	1886	;
licromega Minium	400	Dynamically weak and some roughness offsets the pleasing tonal balance, articulate mid and strong bass	•					1 bit		1
licromega Stage 6	960	Lucid, open sound quality with some dynamic limitations with certain discs. Upgradeable from lesser Stage models	•					BS		I

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Product Monrio Privilege	Price(£) 995	Costly and well-engineered, but ultimately rather heavy-handed and dull, if refined player	•			PHONES OUTPUT	PLABLE OUTPU	FACTSBACK NO.	
Musical Fidelity A2	499	Warm (too warm), attractive and open player, a great improvement on (related) E60	•		•			BS	
Musical Fidelity E60	299	This entry-level player lacks proper stereo localisation and clarity	•		•				
Musical Fidelity FCD	1,500	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	•					BS	188
NAD 512	250	Simple, well-focused presentation, and articulate with it, though hard-nosed quality is not everyone's cup of tea	•					1 bit BS	162
NAD 514 Naim Audio CD3	370 1,000	Boisterous sound, but undeniably attractive The idiosyncratically packaged CD3 is solid and highly articulate. Always has its feet on the ground though					•	MB	163 176
Naim Audio CD2	2,000	Provides bags of detail with a solid stereo focus but not all the romanticism we know to be possible						MB	189
Onkyo DX-7210	260	Well-bred CD player features an unusual digital filter, is smooth and cultured without appearing grey or boring	•		•		•	BS	127
Onkyo DX-7510	400	Strongly flavoured, assertive sound	•		•		•	BS	164
Drelle CD-100EA	649	Excellent imagery, timing and transparency, and readily upgraded or reconfigured	•	•	•			MB	
Philips CD-721	130	Surprisingly well-sorted, articulate if slightly glossy and attractively presented sound. Captive signal lead						1 bit	
Pioneer PD-204	150	Generally easy on the ear, but can bite back, especially with complex high-frequency music content. Well endowed					• •		100
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!	•		•			BS 1bit	189 164
Pioneer PD-S505 Precision	460	Too much legato — literally — in sound, but a very smooth performer Assured, fluid-sounding player, with great spatial coherence	•				•	1 bit	104
Quad 77	900	A true thoroughbred combining a penetrating insight into detail with poise rarely found at the price						Hyb	189
Roksan DP3P	1,495	Dramatic and compelling, classical listeners should be ready to 'air conduct' when auditioning this player	•					BS	189
Roksan Caspian	895	Solid, articulate, and fundamentally well-engineered player, but with some subtle low-level limitations	•					Hyb	
Rotel RCD-970BX	375	A combination of solid build, useful facilities and an attention grabbing sound make this a winner	•				11	BS	189
Sherwood CD-4030R	180	$Easy \ on \ the \ ear, smooth-sounding \ player, \ with \ limits \ set \ by \ the \ slightly \ soft, compressed \ quality-and \ messy \ facia$			•		•	BS	
Sherwood CD1	1,100		•		•			BS	189
Sony CDP-XE900E	300	Refined and analytical disc scavenging tool, but there are some distinctive colourations making auditioning vital			•			BS	101
Sony CDP-XA2ES Sony CDP-X3000S	350 500	Strong willed, heavyweight sound; not for the feint hearted			•		•	BS	164
Teac 3450SE	200	Shoebox format player, with looks to die for, and switchable digital filters to tweak the already excellent sound For once a budget player where the gadgets take second place to respectable, budget amplifier-friendly sonics						1 bit	
eac CD-5	350	Bright, breezy and up-beat — but short in the trouser department	•					BS	164
eac VRDS-7	599	Although bold and outgoing, this player can sound both intrusive yet lacking in fine detail	•		•			BS	176
eac VRDS-10SE	850	Superbly built and presented, but rather leaden bass, with an over-prominent and not ideally refined mid/top	•		•			BS	
leac VRDS-25	1,300	A solid player in all respects combining powerful sound with state-of-the-art technology	•		•			MB	190
echnics SL-PG480A	140	Full driving sound, but somewhat uneven in balance with a unsubtle, slightly harsh top end						The second second	
echnics SL-PS770A	250	A mellow-sounding player that never quite rouses from its slumber to really tackle the music at hand	•		•		•	BS	127
richord Genesis	549	Breathed-on Pioneer is warm and mellifluous, but ultimately lacks drive and authority.	•				•		
richord Revelation /amaha CDX-490	799	Well-ordered and clean sound that may be a little too refined for some, images well	•					1 bit	
amaha CD-X890	170 350	Big, blowsy sound, is undermined by lack of precision and focus Clearly a quality product in every sense, the Yamaha provides a spacious, refined and tuneful account of the music	•		•			1 Dit	
TRANSPORTS	330	clearly a quality product in every sense, the familiaria provides a spacious, refined and tuneral account of the music							
Arcam Delta 250	800	Arcam's best effort yet is a new design based on Philips CDM9 transport. Specification includes Sync Lock facility	•		•		•		149
Audiolab 8000CDM	1,400	Super-slick transport and basically very honest sound, but lacking the last degree of fine detail	•	•	•			-	
udiomeca Kreatura SE	1,400	Superb combo for those who like the sound of valves (tested with Elixir DAC in Sessions)	•		•			MB	
ludiomeca Mephisto	2,350	Tested with Trichord Pulsar, the duo provides a highly composed and tactile sound	•		•			-	132
inn Karik	1,850		•		•			-	132
Meridian 500	1,245		•		•			-	110
Mission Discmaster	1,900		•	•	•				110
PS Audio Lambda	2,250 1,295		•					1 bit	110
Poksan Attessa ATT DD2	1,233	Superb quality engineering is mated to tidy and composed sound (tested with D-T1)	•					Tull	132
Roksan Attessa ATT-DP3	-	Tested with D-700, low resolution sound is warm, bubbly and entertaining	•		•				
eac VRDS-T1	550 900		-				11	-	149
eac VRDS-T1 eac P-700	550	Uses a Philips CDM-9 Pro mechanism and works a treat with more lively DACs	•	1000		March Street			
eac VRDS-T1 eac P-700 heta Data Basic II	550 900		•		•		D. BOOK BOOK	-	
eac VRDS-T1 eac P-700 heta Data Basic II horens TCD2000 richord Digital Turntable	550 900 2,397 999 699	Uses a Philips CDM-9 Pro mechanism and 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	NO.		•				
eac VRDS-T1 eac P-700 theta Data Basic II thorens TCD2000 trichord Digital Turntable Vadia 8	550 900 2,397 999	Uses a Philips CDM-9 Pro mechanism and 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	•	•	100 TO 111	•		-	149
eac VRDS-T1 eac P-700 heta Data Basic II horens TCD2000 richord Digital Turntable Vadia 8	550 900 2,397 999 699 3,195	Uses a Philips CDM-9 Pro mechanism and 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	•	•	•	•			
eac VRDS-T1 eac P-700 heta Data Basic II horens TCD2000 richord Digital Turntable Vadia 8 DACS urcam Black Box 50	550 900 2,397 999 699 3,195	Uses a Philips CDM-9 Pro mechanism and 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	•	•	•	•		Hyb	150
eac VRDS-T1 eac P-700 heta Data Basic II horens TCD2000 richord Digital Turntable Vadia 8 DACS urcam Black Box 50 urcam Black Box 50	550 900 2,397 999 699 3,195 480 750	Uses a Philips CDM-9 Pro mechanism and 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	•	•	•	•		Hyb BS	
eac VRDS-T1 eac P-700 heta Data Basic II horens TCD2000 richord Digital Turntable ladia 8 DACS rcam Black Box 50 rcam Black Box 50 udio Note DAC1	550 900 2,397 999 699 3,195	Uses a Philips CDM-9 Pro mechanism and 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	•	•	•			Hyb	150
eac VRDS-T1 eac P-700 heta Data Basic II horens TCD2000 richord Digital Turntable ladia 8 DACS rcam Black Box 50 rcam Black Box 500 udio Note DAC1 udiolab 8000DAC	550 900 2,397 999 699 3,195 480 750 675	Uses a Philips CDM-9 Pro mechanism and 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	•	•	•			Hyb BS MB	150
eac VRDS-T1 eac P-700 heta Data Basic II horens TCD2000 richord Digital Turntable fadia 8 DACS ream Black Box 50 ream Black Box 500 udio Note DAC1 udiolab 8000DAC udiomeca Elixir	550 900 2,397 999 699 3,195 480 750 675 900	Uses a Philips CDM-9 Pro mechanism and 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	•	•	•			Hyb BS MB BS	150
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Teac VRDS-T1 Teac P-700 Theta Data Basic II Thorens TCD2000 Trichord Digital Turntable Wadia 8 DACS Arcam Black Box 50 Audio Note DAC1 Audiolab 8000DAC Audiomeca Elixir DPA PDM256 Linn Numerik Meridian 563 Mission Dacmaster PS Audio UltraLink 2 HDCD PS Audio Ref Link Roksan Attessa ATT-DA2/DS5	550 900 2,397 999 699 3,195 480 750 675 900 799 3,650 1,500 795 1,900 2,590 4,550 1,145	Uses a Philips CDM-9 Pro mechanism and 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 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 bit 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 the most detailed or refined but capable of good excitement with the right material	•	•	•	•		Hyb BS MB BS BS BS MB DS MB MB	1322 1100 1100 1100 106
eac VRDS-T1 eac P-700 heta Data Basic II horens TCD2000 richord Digital Turntable Vadia 8 DACS urcam Black Box 50 urcam Black Box 50 udio Note DAC1 udiolab 8000DAC udiolab 8000DAC udiomeca Elixir JPA PDM256 .inn Numerik feridian 563 Aission Dacmaster S Audio UltraLink 2 HDCD S Audio Ref Link toksan Attessa ATT-DA2/DS5 eac D-T1	550 900 2,397 999 699 3,195 480 750 675 900 799 3,650 1,500 795 1,900 2,590 4,550 51,145 500	Uses a Philips CDM-9 Pro mechanism and 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 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 bit 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 the most detailed or refined but capable of good excitement with the right material Teamed with VRDS-T1 for test, this superb quality unit is tidy and composed	•	•	•	•		Hyb BS MB BS BS BS MB DS MB MB	132 110 110
eac VRDS-T1 eac P-700 Theta Data Basic II Thorens TCD2000 Trichord Digital Turntable Vadia 8 DACS Tream Black Box 50 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Black Box 500 Tream Bla	550 900 2,397 999 699 3,195 480 750 675 900 799 3,650 1,500 795 1,900 2,590 4,550 1,145	Uses a Philips CDM-9 Pro mechanism and 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 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 bit 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 the most detailed or refined but capable of good excitement with the right material	•	•	•			Hyb BS MB BS BS BS MB DS MB MB	1322 1100 1100 1100 106







Digital Recorders

igital recorders come in a variety of different guises, but have vet to make much of an impact on the domestic market. At present there are three types to choose from: DAT (digital audio tape), MD (MiniDisc), 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

rpe of recorder, see above for descriptions DAC TYPE: Digital to analogue convertor: BS - Philips Bitstream, MB - multibit, Hyb - hybrid of multibit and bitstream technologies, 1bit - 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

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	REC	ORDERS	FORMAT)	AOC T	PTICAL PORTA	CTRICAL IN/OUT	ACTSB. IN/OU PUTS	ACK NOTPUTS	SSUE NUMBER
Product	Price(£)	Comments	TAX BELLEVILLE		V	V	V	V	\vee
Pioneer D-05	900	Second generation 96kHz DAT recorder can offer startling realism with the right software - ie first generation	DAT	BS	BS		•	•	1652 152
Pioneer PDR-05	1,000	CD recorder that uses domestic blanks only (limited to 62 minutes), write once but excellent sound quality	CD-F	R BS	BS		•	•	1652 152
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 150
Sony MDA-JA3ES	700	Full-width MD recorder that makes a decent job of recordings but is less impressive with pre-recorded material	MD	BS	BS		•	•	1216 152



Brought to you in association with **Headphones**

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.



TYPE: Operating principle: D - dynamic, E - electrostatic.
SUPRA-AURAL: Style where a flat pad presses on the outer ear. IRAL: 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** (Ω): Load offered to the headphone amplifier. All else

being equal, the lower the impedance the louder the sound for a given

amplifier output

3.5MM JACK ADAPTOR: Can be used with mini-jack-equipped nts such as personal stereos

FACTSBACK NUMBER: The Factsback reference for

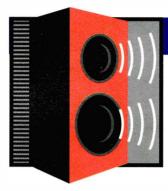
ordering a fax copy of the review. Use the contents page to find the Factsback information page. ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

	HEADPHO	N	ES	SUPRA. TYPE	RCUR AURA	MAURA.	CLOSEL N BACK	WEI BACK	SMM JAL PEDANO SHT(0)	FACTSBA K 4044 E(Q)	ICK NU.	SSUE NUMER	BER
	Product F	Price(£) Comments		4	A			V	V	V	V	VA.
R	AKG K1000	700	One of the best dynamics on the market, hooks directly into speaker outputs	D		•	•		270	120			99
R	Audio Technica ATH910PRO	90	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	Ď.	•		•	350	600			157
	Beyer DT311	57	Uncharacteristically tight, unrefined sound quality from this otherwise well engineered 'phone	D	•		•		124	40	•	1098	133
B	Beyer DT331	82	Tonally bright and deficient in bass, but exceptionally comfortable, articulate, detailed and refined	D	-	•	•		210	40	•	1801	157
	Beyer DT411	69	A reasonable but not very thrilling headphone that doesn't really offer enough at the price	D	•		•		120	250			111
1	Beyer DT531	135	A good buy for serious, heavy-duty music making	D		•	•		245	250			144
A	Beyer DT911	235	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 competent 'phone with integrity, but little panache or charisma. Hard headband causes brain strain	D		•		•	200	35	•	1801	157
	Grado SR-80	100	Clear, open and dynamic with pedantically open mid-band. Crude physical design, rough frequency extremes	D	•		•		60	8	•	1801	157
4	Grado SR225	200	Warn, darkly-coloured tonally and ultimately lacking in clarity, but true to the spirit of the music if not the letter	D			•		200	32		1883	163
B	Jecklin Float Model 1	79	While very unusual in appearance, the Floats give remarkable sound quality and openness at a reasonable price	D		•	•		400	200			5 5
	Jecklin Float Model 2	99	Helmet shaped, but open sounding and comfortable in the long term, despite lack of adjustment	D		•	•		400	200			63
	JVC HA-D910	65	Broadly acceptable if unexciting design with low level losses and some colourations	D	•			•	220	32	•		121
	Kenwood KH-1000	20	First step-up from a true mini: a near miniature which is cheap, comfortable and inoffensive	D	•		•		30	32	•		121
	Maxell HP-3000	30	Solid, smooth-sounding supra-aural headphone, but congested and undynamic. Includes in-lead controls	D			•		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			•		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
1	Sennheiser HD455	55	Inoffensive, if nondescript sound, modular, but can become dislodged from head	D			•		185	60	•	1801	157
A	Sennheiser HD565 Ovation	150	Wide bandwidth design which is refined, expressive and extremely comfortable	D		•			255	150	•	1801	157
	Sennheiser HE-60/HEV70/UK	998	Very nearly a superb electrostatic, with an achingly 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

Som FACTSBACK SSUE NU MPCOANCE(S) POAP NUMBER MECCATC. ISSUE NUMBER CIACUMAURAL BACK BACK PE BACK **HEADPHONES (CONTINUED)** Sony MDR-CD1700 Astonishingly detailed, uncoloured and free of the usual artefacts from a sealed back headphone. Tremendous value 325 Stax Lambda Nova Basic 449 Refined, articulate, yet with real presence – and a notable bargain by electrostatic standards 347 1801 157 D 255 Technics RP-HT700 Well-finished but physically crass and grubby sounding . 1801 157 A Vivanco SR650 Unusually comfortable 'phone with excellent detail resolution but aggressive, thanks to tweeter resonance D 175 Vivanco SR750 Cossetting physical design, attractive sound an pricing, though suffers overhang and lacks ultimate dynamics D 188 1801 157

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Hi-Fi Loudspeakers

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265



149

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.

120 Infra-red phones that work well but suffer from the limitations of the medium ie compression and hiss (Sessions)

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 for a given electrical input) against the bass extension (how low it goes), for the given box size.

D

Subwoofers augment the bass and come in passive and amplified active form. They are less sensitive to placement than regular speakers.



Vivanco IR7100

SIZE WxHxD (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 (O). 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

renroduce 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 conv 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 LOUE	JSP	EAREKS	FLOORSTANDE HXD(CM)	CR OD	EOANCE WW)	(2)	FREE S	ACE	ACK NU WALL	SSUE NO MBER
Product F	Price(£)	Comments		V		V				
Acoustic Energy AE109	350	Lots of mass-loaded twin-driver speaker for the money, especially for loud, driving bass	18,90,25	•	88	4	25	•		1904
Acoustic Energy AE120	500	Attractive presentation and good sonic headroom, but a heavy, uneven overall balance, and a difficult amp load too	18,98,28	•	89	4	25	•		
ATC SCM20	1,599	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	•		190
Audio Note AN-J/D	930	Light damping and local unevenness add some colouration, but don't spoil the 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	•	•	134
Audiovector 3X	1,500	Superior time coherence, a wide dynamic range and exception bass/mid balance	19,32,98	•	89	8	20	•		134
8&W DM302	150	Highly competent and neutral all rounder; clever Prism enclosure	19,32,22		88	4	45		•	177
B&W DM601	200	Great main driver for the price, entertaining dynamics	20.5,35.5,23		88	6	30	•		177
B&W DM602	300	Prefers tall stands and space, but offers impressive midband dynamics and musical tension	24,49,31		90	8	30		•	165
B&W 305	350	Ridged paper cone gives lively sound, clever box, but a little uneven	22,87,31	•	89	4	40	•		190
B&W 603	500	Squat floorstander with decent dynamics and well-judged, restrained balance; bass could go deeper	23.5,88,29		89	7	45	•		
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	•		
B&W CDM1	600	Gorgeous stand-mount delivers unusually good bass for its size	22,38,28		88	6	30	•		181
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&W Nautilus	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	•		
Bose 401	500	Cheaply built but distinctively styled, the 401 suffers from heavy midband	30,30,76	•	-	4	28			
Cadence ES	3,500	Hybrid electrostatic/dynamic design from India that excels with classical material (Statements)	33,108,37	•	91	8	35	•		179
Ca le Isis	230	A great miniature at a very competitive price. Sound is lightweight but very coherent, with a fine overall balance	17, 35.5,21		87	8	45		•	
Castle Severn	539	Light and bright, but sound is open and communicative. Looks good too	23,77,20		88	8	47		•	165
Castle Avon	700	Lovely box and lovely voices from carbon-fibre composite cone	22,91,28	•	85	8	22	•		190
Castle Harlech	849	Handsome big-sounding floorstander, great value and dynamic midrange	20,96,33	•	88	8	28	•		182
Castle Howard S2	1,200	Ably fills the gap between Chester and Winchester; has a rich, laid-back balance	26,104,41	•	90	8	40	•		107
Celestion A1	899	Rich, warm and laid-back, but a true quality sound; lovely build	24,41,35		88	6	25	•		191
Cerwin-Vega VS10	350	Not all that refined but ballsy as heck, these rock boxes have no shortage of gung-ho	33,70,29	•	95	6	37	•		175
Chario Syntar 100	250	Pretty with a pleasantly easygoing balance, but not the most communicative or exciting sound around	18,32,27		87	6	45	•		
Dali 104B	370	Lively, rich sounding and communicative. Shame about bland styling and dull balance	22,86,27	•	93	4	28	•		165
Dynaudio Contour 1.8	1,842	Wonderful voice-band delicacy and loads of deep bass from a very elegant and compact box	21,95,29	•	85	4	20	•		
Electrofluidics Sonolith 2.2x	5.999	Polymer concrete cabinet with aluminium cones produces world class imaging and very serious bass (Statements)	38.95.42.5	•	86	4	n/a	•		
Epos ES12	500	High quality luxury stand-mount has great midband and stereo imaging	20,38,25		85	8	45	•		182
Epos ES14	675	Substantial stand-mount delivers delightful midrange focus and delicacy with good bass control	23,49,29		87	8	25	•		
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	•		162
Epos ES25	1,655	Handsome floorstander with a rather uneven and bass heavy balance	24,90,35	•	88	6	22	•		134
Faraday Siren	445	High mass concrete cabinet is let down by imbalance of ageing driver combination	25.27.46		90	4	48	•		



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	III I I LOUL	JOF	PEAKERS (CONTINUED)	(CM)	IMP VITY(dB, VER	W)	(3)	FREE (HZ)	PACE	WALL	MBER
	Printed by the supplication of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	rice(£)	Comments	FLOORSTAND	V	V	V	FREE (Hz)	Ù	V	SUE NUI MBER
(Gale 2i	140	Unspectacular sound and appearance fail to help this solid little miniature stand out from the crowd	22,40,27		88	7	40		•	
(GLL Imagio IC130	530	Lots of speaker for the money, but sound is decidedly dull and shut in	22,112,29	•	88	4	20	•		1824
	Harbeth BBC LS3/5A	699	Still a classic miniature, though not to every taste, and none the better for the recent update	19,30,18		82	10	80	•		
ı	Heybrook Prima	139	Fine pace and timing, but balance is forward and bass is tight	20,29,18		87	6	50		•	
	Heybrook Heylette	269	Attractive traditional-style near-miniature has fine bass-to-mid integrity, but dull and shut-in top end	19.5,30,20		89	6	45	•		
į	Heybrook Heylios	389	Great all-round performance in a pretty package at a sharp price	24,36,27		87	6	25	•	1	
	Heybrook Heylo	439	Good vocal reproduction, but sounds thin and bass seems an afterthought	23,73,19	•	88	8	30	•		1658
I	Heybrook Quartet	649	Solidly large bookshelf model with good sensitivity and a lively, forward sound	24,41,22		90	8	48	•		
	Heybrook Sextet	1,299	Coherent and highly analytical, partly due to distinct upper-mid forwardness	27,90,20	•	88	8	25	•		
ĺ	Infinity Reference 1i	150	Although not to our tastes, this is a competent speaker, and decent material value	20,34,20		89	6	50	•	0	1403
I	Jamo BX100A	350	A cracking output for their size, these rock boxes can be a bit bright but have decent bass	31.5,54,28		91	8	40	•		1758
Į	Jamo Classic 8	400	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
Į	Jamo 477A	500	Very prettily styled, but build and sound quality are disappointing at the price	19,77,28	•	88	4	40	•		1549
	Jamo 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
į	IBL LX2	250	Lively and invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm	22,40,27		87	8	40	•		
ĺ	IBL 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
ĺ	IBL L40	1,000	Classic, large, stand-mount 3-way is full of vim and vigour, with a superb sense of balance	30,65,31		88	4	23	•	1	
	IBL L90	1,500	A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude	24,94,35		91	6	23	•		1348
	Jordan Watts JH400	565	Piano-finish hexagon has controversial sound, with uneven balance but delightful mid	28,38,21		86	8	50		•	
i	JPW Mini Monitor	60	Ultra-cheap miniature works well in a limited way	18,27,17.5		86	8	50		•	1781
ř	JPW Gold Monitor	80	More informative than Mini Monitor - but fiercer too	18,27,17.5		86	8	50		•	1782
	JPW ML510	140	Lots of good-quality speaker for the price, but not an ideal match for cheap budget components	20,34,22		88	5	50	•		
٠	JPW MS1010	400	A seriously substantial speaker for the price, and an obvious choice for those who like their music loud	22.5,115,40	•	91	6	25	•		
	JPW Ruby 1	400	Very pretty but pricey luxury metal-cone miniature has good, if slightly edgy balance	19,32,21		87	6	CONT.	100	-	1572
	KEF Coda 7	130	Lovely open voice reproduction, but bass could be tauter; build tougher	18,30,23		88	6	100		600	1783
	KEF Coda 8	190	Outstandingly well-balanced, bass is deep but a little vague	20,32.5,29		86	6	57			1784
	KEF Coda 9	300	Uneven budget 3-way floorstander with poor bass definition	20,86,28	•	89	6	-	•		1785
i	KEF RDM One	500	Cute and tiny, nice midband but lack of bass warmth and weight	23,30,24		88	6	No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Street, Original Property and Name of Stree	-	•	
	KEF Reference Model 2	1,599	Classy, large floorstander that has massive headroom and clean mid-to-treble, but limited deep bass for size	23,103,34	•	89	4	-	-	-	
	Keswick Audio Aria II	329	Confident and dynamic sound, if a little crude and shut in	21,42,24		89	8	20	•	100	1405
	Keswick Audio Torino	900	Good value, lively contender with distinctive shape and styling. Goes loud and deep but could be smoother	18-26, 93,28	•	90	4	1000	-	1000	1400
	Linn Keilidh Passive	750	Stunning timing and coherence, and awesome bass drive	20,83,28	•	87	4	200	Service of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the las	-	1552
	Linn Kaber Passive	2,000	Dry, bright balance emphasises dynamics and transients, but can sound unforgiving	20,90,28	•	87	4	-	-	•	1002
	Living Voice Airscout	19,500	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	100	100	222	B000	1000	-	
	Living Voice Air Partner S	37,200	Outstanding transparency and dynamics from remarkably solid and fast mega horn	64,160,90	200	108	-	-	200	•	
	Meridian DSP6000	9,400	Sophisticated digital design, with a wide-ranging, refined and detailed sound. Has on-board amplification	28,133,43	•	-	-	35	100	BARTON TO STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF	1226
	Mission 731 PRO	140	Cautious balance makes a fine match with budget equipment. A classy baby for smaller rooms	17.5,31.5,20		89	8	-	-	•	1220
	Mission 733i	330	New tweeter gives this floorstander a more open sound; a good all-rounder that doesn't sound as big as it looks	20.5,88,30	•	200	8	-	B000	100	
	Mission 753 Freedom	798		21,90,31		89	4	1000	-		
	Mission 754 Freedom 5	1,298	Great styling. New, more restrained tweeter reveals fine midband dynamics Tall but exceptionally elegant floorstander gives fine midband projection; goes loud but limited deep bass for size	22,111,31	•	200		1000	1000		
ł	Monitor Audio Monitor 3	400	An exceptionally discreet floorstander; sonically uneven, it's capable of fine results if used in a sympathetic system	16,91,21	•	88	200	1000	200	100	8
		-		22,35,26		-	-	1000	-	•	1661
	Monitor Audio MA700 PMC	600	Good-looking luxury compact with all-metal diaphragms, lovely midrange, but occasionally edgy			89	8	1000	(8000)	-	-
	Monitor Audio MA703 PMC	800	Lovely but pricey floorstander has up-front, coherent 'shiny' sound	20,89,27	•	-	-	-	-	200	1826
	Monitor 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	•	-	-	-	-	-	1349
	Mordaunt-Short MS10i	140	Up front, bouncy and a whole lot of fun	18.5,30.5,2	J	86	100	-	-	•	1789
	Mordaunt-Short MS30i	275	Slightly shut-in and coloured quality is compensated by fine bass and impressive communication	25,43,28		90	200	-	1000	-	1662
	Mordaunt-Short Perf 860	1,895	Although a very neutral loudspeaker it can, with the right ancillaries, pack a serious punch (Statements)	26,86,35	•	-	-	-	-	-	1367
	Musical Technology Kestrel	1	Brighter and drier-sounding than the standard Kestrel (and not the better for it)	20,84,19	•	100	-	-	-	-	1000
	Musical Technology Harrier	400	Very pretty package, good measured performance and even sound. Sensitivity is low, and dynamics limp	25,80,23	•	100	100	100	200	-	1663
	Naim Intro	660	Great dynamic range and info retrieval, but thin, lacks warmth	24,89,27	•	1200	000	7100	207	-	1050
	Naim SBL Passive	1,970	Lively and punchy – smoother but more upfront than before	27,89,27	•	-	- Bernard	Salari Property	The Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the Park and the P	100	1352
	Neat Mystique	575	Elegant compact floorstander has good all-round sound and value	20,85,18	•	-	-			-	1827
	Neat Petite II	745	Compact design now utilising ribbon tweeter with a fine sense of timing and surprising musicality (tested in Sessions)	20,30,18		86		-	-	•	
	Neat Petite II/Gravitas	2,000	Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound	23,105,40	•	-	-	-	-	-	
	NHT SuperOne	358	A fine compromise between size and performance, though sensitivity and loudness capability is modest	18.5,29.5,23		85	-	-	680	-	200
	Origin Live Conqueror	1,650	Chunky floorstanding 3-way has lovely cabinetwork and lively sound, but limited deep bass	24,94,27	•	No.	No.	-	-	-	
	Pink Triangle Ventrical	999	If you are after Quad Electrostatic-type transparency but can't afford the price (Sessions)	15,80,32		1000	11	-	•	-	
	PMC TB1	410	Superb transparency, subtle laid-back sound, well worth seeking out	20,40,31		87	100	-	-		1830
	PMC LB1	935	Delightful smoothness and transparency, though bass and treble are both limited	18,53,25		89	Sec.	-	100	-	
	PMC AB1	1,496	Lovely panel-like transparency, slightly shut-in balance, needs a big room	26,79,43		89	-	-	-		
	Polk LS50	800	No enthusiast tweaks here, but powerful and beautiful balance	27,83,29	•	-	-	Name and Address of the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Ow	- Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of		1155
	Polk RT16	800	Bass rich, lively and powerful, but suspect top end; big and not very pretty	22,105,39	•	91	4	22	•		1831
	Polk LS70	1,200	High sensitivity, but balance has too much midbass boom; mid-top is laid back	31,94,37	•	90	8	22	•		1084
	Proac Response 2.5	2,700	For aspirant high-enders looking for seriously good conventional boxes, this speaker should be first port of call	22,107,25	•	86	8	30	•		1457
	QLN Qubic 222	400	Ugly but good value floorstander with loads of bass and a smooth balance	21,87,29	•	88	6	25	•		1832
	QLN Signature	1,000	Attractive pyramidal stand-mount with heavy, laid- back balance but remarkably unboxy sound; superb stereo	27,37,36	•	83		-	-		
	Quad ESL-63	3,450	Classic electrostatic lacks punch, but has strengths some can't live without	66,93,27	•	86	8	34	•		
	Rega Kyte	198	Has splendid timing and coherence, sounds very explicit and informative	19,31,19	2	87	-	-	185.1	•	
	Rega EL8	298	Kyle drivers in compact floorstander gives more bass but less coherence	17,72,20	•	-	-	-	-	•	
	Rega ELA Mk II	498	Pretty and smooth, the latest incarnation has a superb midband and excellent communicative skills	30,80,20		-	-	-	-	-	1578
				Company of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the las	100	Marin .	-	- Barrier	- Bellen	-	-
	Rega XEL	1,040	Looks and sounds great: balance bright but even, with delightful coherence and timing	20,82,30		89	6	40			1083

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		PEAKERS (CONTINUED)	FLOORSTAND YXO(CM)	ER	EDANCE W)	(15)	FREE S	AGE W	ISSUE N NUMBER
roduct I	Price(£)	Comments		V	M	V	V	FACTSBACI OSE TO WI SPACE	
evolver Beretta	100	Great bass for the price, a bit crude further up	19,35,22		87	8	45		1790
evolver Colt	139	A good all-rounder, if a little bland, and excellent value for money	30,19,22		88	6	48	•	1407
evolver 250	250	A nice price for a floorstander, but over-bright sound balance has potentially fatiguing consequences	21,85.5,25	•	87	8	22	•	
evolver 260	350	A no-nonsense presenter of rock with plenty of dynamics, not too refined (tested in Sessions)	21.5,91.6,30	•	89	6	40	•	173
MS Revelation Series 1	1,300	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	100	•	1408
ogers dB101	250	Style par excellence, this shapely sub-miniature is fast and agile but lightweight and forward: great voices; lacks bass	20,26,20		88	6	45		
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	•	82	12	45	•	1354
ogers Studio 5	699	Luxury finish bookshelf-size model has genuine monitoring capabilities	25,25,48		89	8	40	•	1556
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	•	88	6	20	•	
oksan ROKone	595	Large stand-mount is musically very communicative if a little coloured	21,45,33		89	6	30		1834
oksan Ojan 3 Black	795	Squat, stylish and black, great bass extension and somewhat uneven balance	28,76,46	•	88	8	20	•	1082
oksan OJ3X Black	995	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	•	1167
oyd Doublet	450	Great value compact floorstander; lively and very informative, if a little uneven	18,93,19	•	90	4	28	•	1835
oyd The Sorcerer	595		20,31,18		86	8	35	•	100
oyd Abbot	100	Extremely musical and communicative speaker that's fun to listen to. Aesthetics could use improving though			-	-	-		
RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVERED TO THE RECOVE	665	Dynamic and fine transient qualities are hampered by a rather coloured mid-forward balance	20,81,30	•	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 Crusader	1,600	Elegant luxury 3-way with wonderfully even-handed, if rather laid-back balance	24,94,31	•	85	6	22	•	
uark Equinox	1,849	The primary strength of this speaker is its ability to remove itself from the picture	25,88,34	•	88	6	45	•	122
D Acoustics SD3R	649	New SD3 has the agility and charm of a quality miniature, good bass and low sensitivity	20,38,30		87	8	25	•	
D Acoustics SD5	1,549	Bass suspect but forward midband is delightfully smooth. Has ribbon tweeter	20,110,30	•	88	8	30	•	108
D 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		86	8	45		
hahinian 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 capabilities (Statements)	22.5,36,34		87	8	45	24	
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		•	175
pendor 2030	599	Discreet slimline floorstander with delicately coherent, laid-back sound	18,89,27	•	87	8	30	•	1830
ingent Monitor 5	80	An uneven performer best suited to small rooms and generous volume levels	17.5,27,18		83	8	55		
ingent Monitor 9	150	Budget floorstander that can motor when the music demands with a solid bass but occasionally raw treble	9.5,75.5,22.5	•	90	6	45	•	
nnoy Mercury M2	140	A fine all-rounder with big box and deep bass for the price; could be sweeter and tighter	20.5,38,28		87	8	25	•	2007
nnoy Profile 631	150	Balanced, open, unboxy and quite lively, but lacks muscle	19,34,15		87	6	60	•	1616
nnoy Profile 631SE	170	Very refined midband; maybe too laid-back for some	13-19,34,16		86	7	45		1791
nnoy Mercury M3	230	Good-looking fine value floorstander is very neutral and evenhanded, with fine midband but weak dynamics and drive	Name of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last o	•	87	7	20	•	
nnoy Profile 633	300	Impressive bass and balance from very compact floorstander. Upper midband could be cleaner	29,75,28	•	89	85	20	•	1665
nnoy Profile 635	450		17-29,85,27	•	90	6	22	•	1665
	550		17-29.84.27		90	3	20	•	100.
nnoy Profile 637	-	Good value package but a rather heavy, thick, big-bass sound		•	1000	No.	200		
nnoy D300	1,000	Gorgeous-looking compact floorstander. And a fine all-round performer too	16-24,85,23	•	87	6	26	•	105
nnoy D500	1,999	Plenty of muscle and stereo, but short of poise and delicacy. Hard work for amps	31,93,34	•	91	6	20	•	135
nnoy Westminster TW	6,600	These awesome horn-loaded speakers are remarkably controlled and impressive	large	•	99	8	38	- EV	
OL Near Field Monitor	120	Despite low price, this is an unimpressive performer, poor low frequency resolution and analysis being main flaws	18,30,17		87	8	50	•	1043
DL RTL2	280	Spacious, weighty and enveloping sound if you can accept the laid-back balance	20,73,22		87	8	25	•	141:
DL RTL3	400	Bargain-price floorstander has rich, heavy and bright sound with a good scale	20,90,37	•	90	8	25	•	
OL T-Line 3	750	Plenty of bass and treble, but broad midband is rather repressed	20,97,38	•	86	8	20	•	
OL Studio 1m	899	Transmission line helps bring the best from metal cone driver	23,77,34	N.	86	8	20	•	-
echnics 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	•	1413
echnics SB-M500	450	This model offers a clean, open sound, offset by midbass, heavy balance and low sensitivity	25,78,37	•	100	8	25	•	166
tem Model One	1,195	Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size	17,31,23		87	4	28	•	
andersteen 2Ce	1,395	Elegant staggered baffle contributes to a refreshing freedom from boxiness	41,101,27	•	88	7	23	•	
harfedale Diamond 7.2	140	A good-hearted, lively and up-front performer that's a little lacking in subtlety and smoothness	19,29.5,23		88	4	45	•	
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	•	91	8	30	•	141
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	•	1758
harfedale MFM-3	350	Smooth broad midband gives fine voice rendition; bass could be better	22,89,28	•	87	8	40	•	
ilson benesch ACT1	6,400	Stylish, technically advanced and sonically as clean as a whistle, this is truly a high-end loudspeaker (Statements)	23,108, 37	•	89	6	40	•	185
/P AI	199	Cute metal cased micro-miniature is quite coloured but great fun	14,22,12	73	88	8	30	•	200
UBWOOFERS	133	Outo moral odobo minuto minutaturo io danto cononica par Ricar Inn	11,22,12		00	0	00		
&W AS6	500	Good material value with a fair amount of low bass from 100W active design	45,51,45.5	•			30		173
	500	Good material value with a fair amount of low bass from 100W active design	52,19,34	-	0.0	8			1/30
elestion CS135	139	Compact hideaway passive sub lacks deep bass for high sensitivity speakers		•	86	0	45		- 1000
omo SW600	530	Has some neat styling touches and remote control but deep bass is limited (active)	38,41,53	•			30		1736
EF Model 30B	500	Commendably discreet with good sense of timing but limited extension (active)	38.5,37,43	•			45		1736
EF AV1	2,500	Works well, looks great, shakes the windows but costs a lot and is bulky	56,43,50	•	BEG IV		45		
						- 0	40	-	
ving Voice RW24	11,500	The only horn subwoofer on the UK market brings new meaning to low frequency energy, speed and resolution	146,84,59	•	104	8	40		



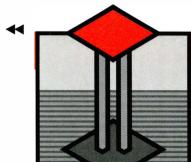
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Stands & Supports

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.



KEY

HEIGHT (CM): Height of stand or equipment shelf.

TOP PLATE SIZE (CM): Dimensions of top plate on speaker stand or equipment support.

FILLABLE: Some speaker stands can be filled with sand and/or

lead to increase mass, which affects sound.

WELDED: The better stands and supports are welded rather than botted together.

NUMBER OF SHELVES: The amount of bers on an equipment

rack or support.

SHELF TYPE: Material that shelves are made of on an equipment rack. Wood generally means MDF.

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.

STANDS &	S	UPPORTS	PLATE SIZE	CM) FILLAL	MBER OF SI WELDED	SHELVES	BACK NUN	SUE NU MBER
	ice(£) Comments		V	VV	V	V	V
Equipment Supports Audiophile Furniture Base	480	Easy to set up, well-ordered sound	40			4	Wood	1633
Custom Design Classic Four	270	Glass-shelved stand with octagonal wooden uprights with upward facing spikes isolating the top shelf, adjustable shelf height	81	46.37		4	Glass	2007
Fi-Rax R4	250	Lively, exuberant sound, slightly weak bass	01	40,57		5	Glass	-
Frameworks H500/H175	404	Two-shelf stand and isolation platform combo in tubular steel that made a spectacular impression on audition	70	52,34			Glass	-
Mana Acoustics Ref. Table	350	King of its type, angle iron, chipboard and glass combined to make a significant difference to sound quality	7.0	J2,04		B 500	Glass	No.
Mana 5 Tier Sound Table	600	Infinitely upgradeable. Persuasive and thrilling glass and angle iron design that adds speed and bandwidth to components upon	+				Glass	-
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	200
Quadraspire Q4	200	Easy to live with, and tonally neutral	30	00,40		4	-	-
Sound Organisation Z038	130	Too lively and lacking order – but cheap	50	84,40	•	100	Wood	100
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		B00	Wood	20010
Soundstyle Select 6105	280	Respectable sonics, structurally solid and smart	50	40,00		5	Glass	100
Name and Address of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner of the Owner o	320	Veneered shelves clamped between tubular uprights that delivers with classical material	82	48.27		4	Wood	2000
Stands Unique Sound Tower	249	Wooden uprights combine with glass shelves to provide a fresh, forward sound, but bass could be quicker	81	72.42		5	Glass	100
Target B5	175	Free of colorations, fine grip and good value	O1	12,72	•	-	Wood	Barrie
Speaker Stands	1/5	The of colorations, line gip and good value				0	Hood	100
Alphason NC I	45	Filled single-column design without threaded spike holes that's appropriate for non-critical applications	40-60	16.16				137
Alphason NCII	80	Tall, slim and elegant, though sound and value are unexceptional	1000	17.17	Section 1			107
Alphason Titan	120	Excels in the midband and allows voices to come across in a detailed an d expressive fashion	-	100				137
Apollo AZ6	80	Fine engineering value, but sound unexceptional and top-plate small	66	(COND. (CO.) (C.)		100111		10,
Atacama BD21	55	Good-looking and good value but doesn't match the SE24's sound quality	56	15,17	BOOK BOOK			
Atacama SE24	70	Stands out from the budget crowd because of the consistency and overall quality of the performance	61	19.5.17	Marie Marie			137
AVF Tower 400	35	Ridiculously cheap and much better than no stand at all	54	17.20				107
Ixos Deadrock 903	50	Smooth and tonally even but short on definition. Deep bass is soft which doesn't help timing	60	17,20				137
Gale Reference 600	60	Smooth sounding with impressive bass well suited to less civilised speakers						137
Kudos S50	100	Better sound than the budget stands, particularly at the bottom end	60	15,21				101
Kudos S100	270	The best all-round stand around Probably	63	15.21				
Mana Soundframes	125	For use under floorstanders and equipment racks, these make music effortless and natural, can be stacked for greater effect	5	10,21				137
Partington New Merlin	60	Although light in weight, the stand's performance seemed remarkably muscular but musical rendering lacked a little precision				-	100	137
Partington Discovery	80	The depth and substance of the presentation truly added to the convincing nature of the system's portrayal						137
Partington Trophy	100	Four-column design with damped top and base plates, sound is tight and cogent with smoothly integrated detail						137
Revolver RS1	70	A good blend of performance and appearance for the price	53	18,18				
RMS/Stands Unique Vivus	550	Pricey carbon fibres give ultra-clean sound with exceptional voices	50	N/A				
Soundstyle 124	100	Big, shiny and solid, with fine midband projection	65	17.16	•			
Stands Unique HP	220	Real wood disguises high performance tuned technology	59	22,23				
Target R1	280	Truly high-mass four-pillar design with superb weight and speed, giving music delicious attack and outstanding imagery	53	15.21				137
Target TR60	68	Lively, dynamic midrange and detailed treble from a less-than audiophile oriented twin column design	60	15,15	The same of	100	-	137



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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.



EFFECTIVE MASS: This relates to cartridge compliance. Generally high mass arms are suitable for low compliance cartridges and

PARALLEL TRACKING: An arm which allows the cartridge to

track the disc in a linearfashion

PIVOTED: Arms which allow the cartridge to describe an arc as they traverse the record.

UNI-PIVOT: Pivoted arms with a bearing that allows movement in

two planes EFFECTIVE LENGTH (cm): Length of arm from bearing to

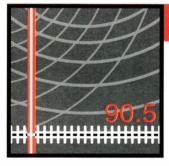
cartridge mounting

ADJUSTABLE HEIGHT: Important for accurate cartridge set-up.

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TONEARMS

TONEAR	MS		EFECTIVE MANUSATERACE ISSUE NUM EFECTIVE MASS PROCED PROTITION FEIGHT RESERVED.						
Product	Price(£)	Comments			48.46	AA AA			
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 brightness	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	Targeted at the Xerxes, this is a good alternative to the Rega arm in many cases — a touch bright though	Low	•	240	91			
SME Series 300-309	657	Beautifully made and finished: fully adjustable and a highly neutral performer	Low	•	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.



WAVEBANDS: Only the FM (VHF) bands give stereo hi-fi sound, though AM (MW & LW) are useful for receiving certain ions 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

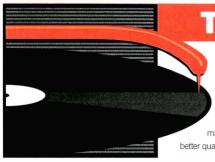
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Tunare

Tuners			WAVEBANDS PRES	SIGNA REMO	STREN	TARY TUN IGTH METE TROL	CTSBAC. ING KNI	K NUMBL	NUM	g_{ER}
Product	Price(£)	Comments		V	1	VARA.	A	AND		M
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			•			120
Audiolab 8000T	750	Unusual combination of fine sound quality and RF performance (inc AM), and superb ergonomics	FM,M,L	39		(• I	254	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	•		1	•		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		•	•	1	254	142
Magnum Dynalab FT101	825	Although fairly expensive given its minimum set of facilities, its excellent sound provided ample compensation	FM							72
Micromega Tuner	700	Has digital output but even without the Micromega DAC, this provides exceptional sound quality. Looks good too	FM	39		•	•	1	810	157
Mission Cyrus FM7	400	Open, generous soundstaging gives the music plenty of foundation, if a touch shut-in at the top	FM	29		•	•	• 1	254	142
Musical Fidelity E50	300	Sounds involving if coloured and with a subjectively larger-than-life presentation	FM	20				1	810	157
Naim NAT01	1,645	There may be better sounding tuners in the world, but we have yet to hear one	FM					1	254	142
Pioneer F-504RDS	250	Cable-friendly with advanced RDS and excellent RF performance, slightly disappointing sound	FM,M	40	•		• (•		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 perform at its best	FM,M.L	30	•	1	•	• 1	810	157
Technics ST-GT350L	150	Decent RF performance is offset by sound quality more typical of a mini/midi system	FM,M,L	30		•		• 1	254	142
Thorens TRT2000	450	Not exactly neutral sounding, it nonetheless makes listening fun	FM,M	59	•	•		• 1	810	157

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Turntables

pecialist turntables are what high fidelity sound is all about. CD players may offer silent backgrounds 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

MANUAL: 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

structural interference.

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.

SUPPLIED WITH CARTRIDGE: Most turntables do not come supplied with a needle.

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TURNTAB	LES		MANUAL	SUSPENIAL SUPPENIAL SUPERIOR SUPERIOR SUBCERTASS	LED WITH CA. DNIC PSU	SBACK ISSUE NUMBERINGE
	Price(£) Comments			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 14
DNM Rota 2	4,800	Tonally slightly bleached, but extracts detail like few others. Works well on own table		33/45	•	• 1328 14
Dual 505-4 UK	200	Consistent sounding and well isolated turntable. It is slightly lacking in oomph	85	33/45	•	• • 10
Kuzma Stabi/PS	1,200	(Tested with Stogi Reference) Solid oak plinth; sound is very clear, detailed and extended	•	33/45	• •	• 9
Linn LP12 Basik	1,050	Trails the full LP12 significantly, but pace, rhythm, timing etc still top rank	•	33	•	• 10
Linn LP12 Lingo	1,750	The classic reference is improved by the Lingo, but charming character remains		33/45	• •	9
Michell Gyrodec	765	Sweet and natural-sounding player, well matched to Rega RB300 arm		33/45	• •	5
Moth Kanoot	329	Rather coarse-sounding deck that requires decent isolation and comes with a Rega RB300 arm	•	33/45		• 16
Notts Analogue Spacedeck/Ar	m1,125	No frills, just a first-rate, outstandingly natural-sounding deck that will last forever	•	33/45	•	• 15
Pink Triangle Anniversary	1,980	Possibly the most detailed, clear and neutral-sounding deck around. Likeness to master tape is uncanny	•	33/45	• •	9
Pro-ject 2	299	Remarkably effective at the price with decent timing and a generally well defined sound		33/45		• • 16
Pro-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		33/45	• •	• 13
Rega Planar 2	214	A remarkable product at the price, surprisingly articulate and confident	•	33/45		• 4
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		• 16
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	•	15
Reson RS1	675	Supplied set-up and ready-tuned, this unconventional deck is packed with mid-band detail	•	33/45	•	• 15
Rivelin Eclipse	1,100	Tested with SME 309. Tends to simplify things and add a slightly ragged edge to the proceedings	•	33/45		1328 14
Roksan Radius 3/Tabriz zi	890	Elegant-looking turntable with a tidy, ordered sound. Bright and breezy if a shade lightweight		33/45		15
SME Model 20A	4,631	Supplied with Series V arm. Engineered to last a lifetime, giving excellent stereo and detail retrieval	•	33/45/78		• 11
Systemdek I/920/Moth	235	The motor is derivative of the Rega Planar 2 with a Moth arm. Up-tempo, even bright at times but never lacks enthusiasm		33/45	•	• • 11
Systemdek 2X2	499	Neutral, flexible and dynamic deck that begs to be used with a good arm and cartridge		33/45	•	15
Thorens TD166 VI/UK/RB	300	Refined and solid sound with well-focused imagery; suitable for use with good MM and budget MC cartridges		33/45	•	• • 10
Thorens TD2001	700	Balances convenience and sound well, but deck lacks detail and bass could be better controlled		● 33/45	•	• 15
Well Tempered Record Playe	r!,800	Intriguing and challenging. Musically it is not ideal, but has a limpid quality and a lack of artificiality that sets standard	ls (-		1180 13
Wilson-benesch TT/Act 2 arm	-	Carbon fibre is extensively used in this neutral and well-resolved turntable with its fabulous unipivot tonearm (Statemen	-	33/45		• 1775 15

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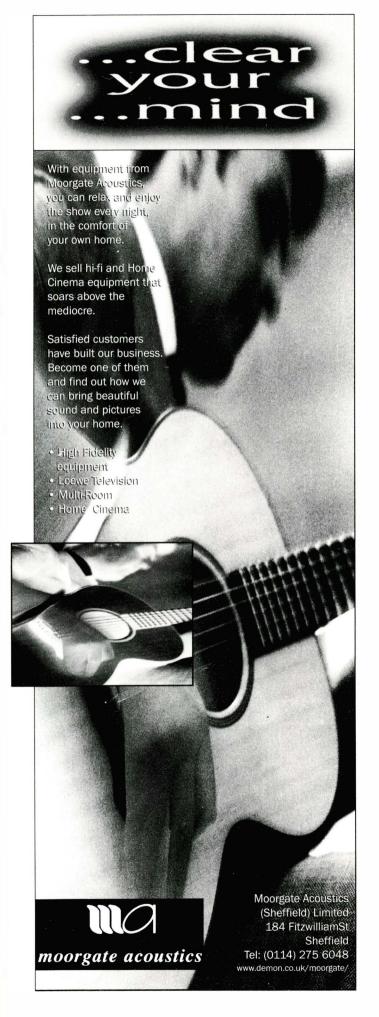
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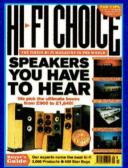
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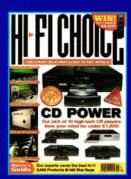
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Computer screen-savers aren't always a waste of time... the B&W variety are intrinsic to better-sounding speakers! **David Vivian** reports.

Vivian Scene

've been thinking about the amount of time I spend staring at computer screen-savers every day, and wondering whether I'm chewing too much eye candy. I actually look forward to those pretty swirling patterns and cute animations that kick in when I don't know what to write next. Please don't take them away. Not After Dark 4.0; especially not that 'Bad Dog' routine where a deranged mutt skids around the screen ripping open folders and chomping chunks out of the menu bars. It's too much mindless fun. Quality non-productivity.

But you know how it is when a deadline's looming: any excuse to gaze blankly into the middle distance. If you're going to read any further here, I'll have to snap out of it.

I'm sure of this. If I worked at Bowers & Wilkins research and development centre in Steyning, West Sussex, I wouldn't get anything done. One possible reason is that I don't know a bean about cutting-edge, laserassisted loudspeaker design. Not a sausage. But even if I did manage to con my way behind one of the company's high-res 21inch monitors, with their mountains of VRAM and 3D graphics accelerator cards, I'd be transfixed instantly by the startlingly weird (yet strangely beautiful) animations of speaker cones behaving badly - or, indeed, like model citizens if the designers have done their sums right. Which, at B&W, seems to be most of the time. Believe me, these babies make After Dark look like Etch-a-Sketch.

And there's more. During my recent visit to Steyning, I was led through the R&D department's house of fun. Standing in the middle of an anechoic chamber was surreal — my ears were suffocating. I watched naked drive units being wobbled at absurdly low frequencies; I poked around the insides of long defunct enclosures with wires hanging out of the apertures absented by their drivers (odd attraction, this). And I goggled at lots of multi-layered graphs.

If I had any lingering notions that speakers are designed in comfortably-furnished rooms littered with assorted enclosures, drive units, crossovers and empty bottles of Veuve Clicquot, they were soon snuffed out. The researchers at B&W have sensitive ears but they can tell if something's going to sound any good simply by studying a squiggly line. It's physics. That's it. So if you've ever wondered why today's B&W designs, whatever their price or sonic nuances, always do well in *Hi-Fi Choice*'s blind listening tests, now

you know. Science and the best screen-savers in the business. And Kevlar; we'll come to that in a moment. Still didn't understand the advanced stuff, though.

But I did take away something valuable from the visit: a pair of CDM7s, the new £1,000 floorstanding derivative of the justly acclaimed CDM1. In the smaller of my two main systems — currently Denon-based — I already use the baby £400 CDM2s, and I love them to bits, not least for their imaging abilities and fast, powerful bass. I had no doubt that the '7s would build on the qualities I appreciated in the '2s. It would be tougher following the less expensive (£650) but significantly bigger Mission 735 is I reviewed in this column a couple of issues ago.

Quality not quantity

Mission-style size-statements have never been up B&W's street. Or, come to that, the ruse of doubling-up drive units to achieve more radiating area. For £1k floorstanders, the '7s are quite petite: slim, elegant and not all that deep. They are heavy, though, and exquisitely finished in real cherry-wood



This loudspeaker is proof that graphs work!

veneer. The '7 is a '1 with more welly; they share diffraction-quelling rounded cabinet edges and a sloping upper baffle to time-align the 25mm alloy dome tweeter with the 165mm Kevlar bass/mid unit.

• Kevlar, of course, has become a staple B&W cone material in recent years. Why? Well, the light, stiffweave randomises the way bending waves move from the voice coil to the edge of the cone, reducing the standing waves you get with plastic cones. What the '7 brings to the party is an additional 165mm Cobex bass driver, more cabinet volume and weight, an extra 16Hz of bass extension (down to 30Hz at-6dB, they claim), 90 rather than 87dB sensitivity, allegedly, and power handling of 150 Watts rather than 120. It should go louder and deeper.

B&W's goal has remained consistent: faithfulness to musical accuracy, communication and pleasure. Ear-splitting sound-pressure levels and nauseating bass aren't the company's bag.

First up some funky jazz fusion from Steps Ahead. This sounded simply terrific: dynamic yet beautifully integrated. Sax in particular came across powerfully with great attack and presence. Yet the soundstage was big, expansive and appropriately glamourous with a great sense of stereo and production effects laid bare. The upper octaves were very well detailed and transparent.

Moving on to the blues and John Hammond, the '7s again impressed with their immediacy, attack and sheer balls. Mouth organ was palpable while guitar had a beautifully warm and natural timbre. But the speakers did it all without denuding the depth and subtlety of the music. It's a rare talent, this: a polished, graceful presentation that doesn't get in the way of explicit, necktingling musicianship. The B&Ws also lapped up Rickie Lee Jones and the wonderful *Danny's All-Star Joint*, music with startling life and authority. Taut, twangy bass; effortless volume on the B&Ws.

So there you have it. Pretty computer-generated patterns aren't a waste of time, and the CDM7s are living proof: fast, rhythmic and involving, yet able to resolve spatial information beyond the wildest dreams of the bigger, beefier Missions. Both work beautifully in my small room and the Missions still sound bigger and more effortless. But the '7s provide even easier access to the emotional power of the music.

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