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EDITORIAL

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Hi-FiChoice is the UK hi-fi magazine Sound Association (EISA) Every year EISA honours the finest hi-fi and home cinema products throughout Europe .

EDITOR'S NOTEBOOK

Who needs Star Wars? Jason Kennedy's more excited about the imminent launch of SACD hardware.

ony has done it. After a late start the company looks like it will be the first to offer a new high-density medium to the audio market. The 6 April Tokyo announcement of a 21 May launch for a complete SACD replay system means that DVD-A will suffer an early blow in this high-end format war.

At Sony's European press conference in Milan I heard the best SACD demonstration yet, using the forthcoming SCD-1 medium launching machine as a source. There was one major difference with this demo, however - that was the absence of surround channels. The SCD-1 is a two-channel stereo player with no digital output and thus no multi-channel capability. Sony's reasoning is that SACD is being launched as a highend format for the audiophile. The high price of this flagship (10,000DM/£3,400 or ¥500,000/£2,600, depending on where you buy) means that only the well-heeled audio maniac will be able to afford it. But given the high quality, multi-channel potential of the medium, it seems unlikely that anyone would buy a two channel player.

Its stereo performance, however, was indeed excellent and the amplification and loudspeakers that Sony has developed for this project are clearly very fine, but with fewer than 20 titles at launch and 10 per month promised thereafter, the appeal looks like it will be rather limited.

But come the Autumn and a European launch, I'll be one of those camped outside the doors of Sony UK waiting for a review sample. Let's hope they get some decent software together in time. (See Update for further details of the SCD-1.)

One of the main proponents of the competing DVD-A format, Pioneer, doesn't expect to launch until the summer in Japan, with product to appear about six months later in Europe. Pioneer will launch a high-end player at around £4,000 for which a digital preamplifier with roommatching technology has been developed, there will also be another player at a more accessible price in the vicinity of £1,200. Both machines will be universal A and V players for both music and movies.

Technics also has plans for a universal DVD-A player to be launched - with luck, this October. It will offer two-channel playback at 24-bit/192kHz and six-channel surround at the 24/96 standard. Price looks likely to be in the vicinity of £1,000.

So if fortune smiles on us we should be able to get an SACD vs DVD-A clash together for our January 2000 issue (which should be Y2K-safe - it comes out in December!)

Sony's partner in developing SACD, Philips, has yet to announce its plans for hardware introduction, but we expect to hear more relatively soon. On paper, the two formats look comparable; SA promises a few extra kilohertz of high frequency extension and signal to noise ratios are similar. What will make or break either medium is the degree of support provided by the software industry, and SA appears to have the edge here with its potential for CDP-friendly hybrid discs. Sony even claims that such discs will sound better than conventional CDs because of the DSD encoding process.

Universal DVD-A players, on the other hand, have the advantage of a substantial existing catalogue of video titles - not much use to the audio nut, perhaps, but a strong temptation for anyone thinking of getting a top-notch DVD-V player.

TIME FOR THE SCIENCE BIT

A month or so ago we set Paul Miller on the unpredictable path that led to the CD-R blank media review on page 56. At the time, we had no idea what to expect. Would there be any detectable difference between blank discs? And if some could be heard, would Paul be able to measure them? It turns out that, as with all other digital issues, when it comes to music it's not just a matter of 1s and Os.

THIS MONTH'S EDITOR'S CHOICE

One of the more unusual finds this month was the Veritas H3, a new speaker from a new company that uses the latest variant on a classic drive unit, the Lowther. Paul clearly appreciated its communication skills and failed to notice that it's perhaps not the most elegant of designs. He must have been smitten.



Mumedy

Audio Note meanwhile has broken the valve amp mould by producing a pretty, compact range that







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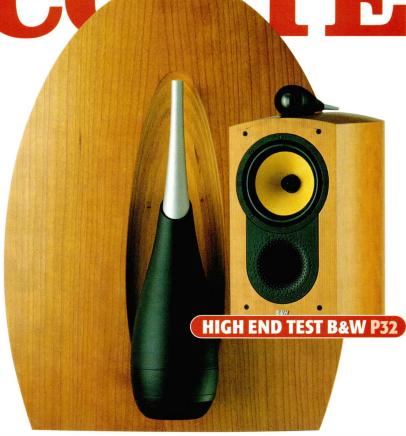
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PAUL MESSENGER

Paul takes a look at B&W's new 600 series and finds content taking precedence over style.

PHIL STRONGMAN

More rare records are brought to you on Gold CD and virgin vinyl, courtesy of our Phil.

JIMMY HUGHES

The modern mains supply is a dirty, noisy thing – Jimmy does a spot of spring cleaning.

PAUL MILLER'S **OASIS OF SANITY**

Paul's back with a vengeance on the subject he loves the most. This month it's digital to analogue conversion.

DAVID VIVIAN

A brave new world? David thinks he may not want to go where the technology leads.

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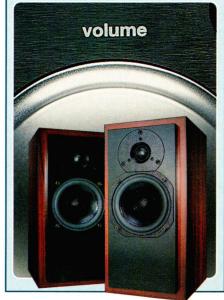
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WIN ATC ANNIVERSARY AMPLIFIER AND SPEAKER **COMBINATION WORTH £2,550!**



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NEWS & VIEWS

Lock up your preamps - Tim Bowern's hunting down the hottest hi-fi stories.

NEWS IN BRIEF

PIONEER has unleashed the UK's first DVD-based system to be prepackaged in a 'super-mini' format. The NS-DV1 (below) is cut from the same cloth as Pioneer's NS-5 and NS-7 systems, and consists of a DVD player with 24-bit/96kHz DAC, an RDS tuner and a multi-channel amp, in one low-slung box. A detached display unit, touch-panel remote, five satellite speakers (5x30 Watts) and a



ROCKY MOUNTAIN TRADERS has

launched a professional-style CD labeller kit called PressIT. The package includes label design software for a Pentium-equipped PC, together with software templates for most major Mac and PC drawing packages, and a selection of blank labels for discs and jewel cases. A label applicator is also included in the £20 price. It could be just the thing for anyone considering a CD-recorder after reading this month's cover story! **2** (0171) 631 0707

THE DESIGN COUNCIL has unveiled details of several more hi-fi products selected to appear among the Millennium Products in the Greenwich Dome. B&W's stunning Nautilus 801 speaker will be there, honoured for its innovative design", while 1... Limited's Digital Loudspeaker Technology (Choice 182/187) is hailed for its unique approach. TAG McLaren is also present, but currently only for its motorsport technology - no sign of any hi-fi gear...

2 (0171) 420 5200



IXOS has added two interconnects to its three-core Gamma Geometry cable range. The Ixos 1000 Gamma Studio Connect weighs in at £90 per metre pair and features silver-plated oxygen-free copper (SP-OFC) conductors extruded in Teflon, with a SP-OFC braid screen and PVC outer jacket. The £70 lxos 1001 Gamma Master Connect (above) boasts a similar spec, but replaces the PVC jacket with woven nylon and omits the silver plating on the braid screen. **2** (01494) 441736

VIVANCO'S range of headphones has been joined by two new models. The SR 900 is a closed back design at £60, described as having a particular penchant for rock and pop, while the SR

B&W launch frenzy



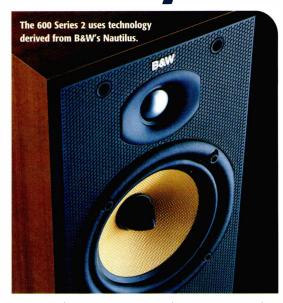
B&W's entire 600 Series has been upgraded, with comprehensive improvements to existing models and the launch of two all-new speakers.

The 600 Series 2 range is the most affordable yet to use technology derived from B&W's Nautilus concept, applied to great effect in the Nautilus 800 Series. Each speaker's 26mm aluminium dome tweeter features a tapered tube, used to absorb unwanted energy radiated from the rear of the diaphragm, with flat ring suspension replacing the conventional roll surround.

Kevlar is still employed for the mid/bass cones, but stiffer spiders are used in their suspension for improved control. Floorstanders have dedicated bass drivers with Kevlar-reinforced paper cone technology, developed for the Nautilus 800 Series. Changes have also been made to crossover design, with new air-cored inductors and plastic film capacitors in the tweeter filter sections.

The 600 Series 2 starts with the DM601 S2, a £200 standmounter with a 16.5cm mid/bass driver. Next comes the DM602 S2, a larger standmounter with an 18cm mid/bass unit at £300. The DM603 S2 is the entry-level floorstander, employing an 18cm mid/bass driver with an additional 18cm bass unit, while the DM604 S2, with a pair of dedicated 18cm bass drivers, is £850 – £150 cheaper than the speaker it replaces.

The DM605 S2 is a new model at £1,400, using the same driver layout featured in the DM 604 S2, but with the addition of active bass via a built-in 130 Watt amp. The remaining speakers cater for surround sound



set-ups - the CC6 S2 centre speaker costs £200, and the brand-new LCR6 S2 is a £350 multi-purpose speaker designed to be used to be used either horizontally or vertically without affecting performance.

All models are in the shops now – and expect the UK's first review of the DM603 S2 in the September issue of Hi-Fi Choice.

B&W 2 (01903) 750750

Vinyl Classics



A new 'affordable' turntable has been introduced by Pro-ject, the Czech Republic's very own vinyl vanguard.

The Classic sports a substantial MDF plinth, finished in piano black or cherry veneer, above which sits an 8mm thick glass platter, complete with record clamp. It comes bundled with an Ortofon 510 cartridge and Pro-ject's new 9 tonearm at a total price of £450. The deck is also available without the arm at £360, while the arm alone would set you back £350.

Also new from Pro-ject is the 6.9, a package which pits the well-regarded Pro-ject 6 turntable with a 9 tonearm, an acrylic platter and an Ortofon MC25fl cartridge. Price is £550 for the lot. Henley Designs 2 (01491) 834700



Balancing Act



Balanced Audio Technology has announced details of a new high-end valve-based preamp. The VK-50 is derived from the company's dual

mono VK-5i design and uses the same 'Unistage' circuit topololgy for an exceptionally short and pure signal path. But it incorporates no less than 12 '6922' valves instead of the older model's six.

Other developments include the use of 'Vishay Bulk Metal Foil' resistors in place of the standard metal film types, and a new volume attenuator featuring 140 steps of 0.5dB for extreme accuracy. Much attention has also been applied to the preamp's user interface, with a number of user-definable gain and display parameters, together with the option of comprehensive remote control. A total of five XLR-type inputs are provided, and the VK-5i costs £4,395 with remote, or £3,995 without. Zentek Music 2 (01892) 616383

• The VK-5i uses twice as many '6922' valves as its predecessor.



SACD is go



Sony will be the first manufacturer to bring an SACD player to the market when it launches the SCD-1 in the Japanese market on 21 May. The

player will retail at ¥500,000 (£2,500).

The first player on the market for the new medium has one surprise up its sleeve, however: a dedication to two-channel stereo playback. There is no facility for multi-channel operation, said to be one of the major advantages of the new high density discs.

Accompanying the player is a complete amplification and loudspeaker system designed to make the most of the format's wide bandwidth and signal-to-noise ratio. These consist of a TA-E1 analogue preamp and TA-N1 MOS-FET power amp, both with linear phase circuitry,

Merakulous **Speakers!**

Rockport Technologies claims to have created "the ultimate two-way loudspeaker". The Merak is a standmounter supplied with its own dedicated stand, all for the not inconsiderable sum of £13,995 per pair.

The speaker is housed in a cabinet made from a 54mm sandwich of high tensile glass-reinforced resin and mineral-filled epoxy core. Cabinet geometry is designed to reduce internal standing waves and diffraction modes, and the alleged result is a construction so inert it makes no discernible contribution to sound at any frequency or volume.

The mid/bass unit is sourced from Danish Audiotechnology, hand-picked for its freedom from dynamic compression, while the Dynaudio Esotar tweeter is described by Rockport as the most advanced soft dome unit available. The crossover for each speaker is built on a half-inch thick aluminium base and recessed into the stand. Any audiophile looking for a money-no-object standmounting speaker should call the number below for details. Absolute Analogue 2 (01425) 654488





O Sony's SCD-1: incorporates a number of anti-piracy measures.

and the SS-1E US designed speakers which claim bandwidth up to 100kHz. The SS-TW100ED super tweeter from this design is available separately. Prices are of the 'if you need to ask...' variety

At launch Sony Music will release 13 SACD titles to be followed at a rate of ten a month thereafter. The format incorporates a number of powerful anti-piracy measures including invisible watermarking – discs without this will be rejected by players – and content encryption.

Discs can be produced in single or double high density layer versions or as hybrid CD/SACD dual layer types so they can played on both types of machine. Sony UK 2 (01932) 816000



VC's DV



JVC has announced details of two new DVD players set to join its range.

The XV-D701 is the more costly of the two, priced at about £500, and JVC makes particular claims about the quality of its sound. Apparently, it delivers "an exceptionally wide dynamic range," and a Dolby Digital decoder is built-in. The XV-505, in the region of £400, does not have the integral decoder.

Both players feature JVC's 'Video Fine Processor', a picture filtering system that's claimed to make images as smooth and sharp as the original film. They're in the shops now.

JVC 2 (0181) 450 3282

Nucleus family grows



TDL has spawned a big brother for its entrylevel Nucleus family - a new range-topping, floorstanding speaker called the Nucleus 4.

At 90.5cm tall, it packs in a pair of 13cm mid/bass

drive units to give more bass, greater power handling and an increased sensitivity of 90dB. A 19mm soft dome tweeter handles treble, and there's a choice of three finishes: black ash, rosewood and cherry.

The speakers cost £300 per pair - check out the September issue of Choice for a full comparative review. TDL 2 (01628) 850111



O NEWS IN BRIEF

950 is a half-open model at £70, apparently more suitable for classical and jazz. Both headphones feature velvet ear cushions and ergonomicallyshaped ear pads for comfort. @ (0171) 286 8961

CHORD ELECTRONICS is the latest company to use a celebrity to promote its products. Apparently, contemporary composer David Arnold has taken delivery of a Chord SPA 1032 amp for his studio at Sir George Martin's Air Lyndhurst recording complex. This follows PMC's gratuitous use of the PMC-owning Robbie Williams in recent full-page advertising, together with Technics' blatant ploy of giving free turntables to zeitgeist-influencing bands like Cornershop and Asian Dub Foundation. Who's next, we wonder -TAG McLaren and Elvis Costello? **2** (01622) 721444

ONE FOR ALL has launched a range of indoor antennas suitable for FM radio reception, as well as UHF/VHF TV signals. The SV-9010 (£15), SV-9100 (£20) and SV-9110 (£30) are available now, the last two incorporating built-in signal amplifiers which give them "the highest signal gain on the market". @ (0121) 454 9707

DIGITAL ONE, the national commercial digital radio operator, began test transmissions across central London from Crystal Palace on April 16. Further transmitters around the UK will go live at the rate of one a week between now and the launch of the Digital One multiplex during the last quarter of 1999. The multiplex plans to launch seven digital-only national commercial stations, along with simulcasts of Classic FM, Talk Radio and Virgin. **2** (0171) 344 2718

BEAUHORN has

upgraded its top-ofthe-range Virtuoso Reference hornloaded speaker (right). It now incorporates a new phase plug, the alleged result of which is smoother, better integrated performance through the midrange and treble The speaker now costs £4,130. **2** (01424) 813888



THE JAPANESE ELECTRONICS industry is forecast to grow in 1999, according to a report published by the Electronics Industry Association of Japan The turnaround is expected due to an anticipated recovery in the Asian and Japanese markets, and relatively strong European markets. Production in the consumer electronic equipment sector is forecast to see a 0.6 per cent increase from 1998, owing to the continued expansion of the digital AV market. **2** (0171) 799 9811

NCT Audio Products has developed a special MTV speaker to join its range of Gekko Flat speakers. It sports an "unconventional shape", designed to appeal to fans of the music-based TV station, and features a series of printed grills created by MTV graphic artists. **2** (01954) 205502

NEWS & VIEWS

4 NEWS IN BRIEF

KEF'S in-wall speaker range continues to grow with the arrival of the Ci Series Reference 2000, a three-way design

priced at £700 per speaker. It features a pair of 16cm bass drivers together with the same 16cm Uni-Q mid/treble combination unit featured in the Reference Series Model 4 @ (01622) 672261



WRAPTURE is a new "gift wrapping solution" for anyone giving a CD as a gift. It consists of a cardboard sleeve into which the disc slots, with a detachable wrap-around card, gift tag and seal. It's available in a variety of designs from branches of Tower Records, Selfridges and Army & Navy stores.

2 (0171) 470 8837

DIGITAL COMPACT CLASSICS has

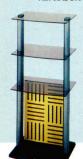
obtained the rights to more than 60 hours of unreleased Frank Sinatra material. The company has an exceptional reputation for audiophile standard recordings, and each release will be available in both 24 carat gold CD and 180g vinyl formats. Call Vivante for detail

2 (0181) 977 6600

SMC is set to launch the Opal 25iSE, a substantial single-ended, class 'A' integrated amp priced at £1,975. In the pursuit of a valve-type sound, a "unique" drive technology is used to emulate classic valve circuit topology using solid state devices. Independent signal staging negates the need for overall negative feedback to obtain bandwidth, and SMC claims it can maintain a high level of definition even at extremely low volume. Six inputs are provided, five line-level and one phono, and power is conservatively rated at 20 Watts per channel. More Opal products are to follow. **2** (01709) 579010

MATSUSHITA (Panasonic) and Toshiba have announced the development of a content protection framework for DVD-Audio. It includes encryption, which allows only one copy of a disc to be made per recorder, and watermarking, which will allow recordings to be traced back to their original source. If the system is agreed and implemented within the music industry, it will remove the final hurdle holding back the full-scale production of DVD-A, due to begin any moment now. @ (01344) 862444

ALPHASON'S AKROS range of hi-fi



supports now includes models for mini and micro-sized systems and components. The supports use rigid tension rods concealed in brushed aluminium struts, with toughened safety glass shelves. Built-in 'letterbox' CD storage completes a sharp-looking package. **2** (01942) 678000

TEAC control



TEAC claims to have brought high-end technology down to budget prices with its new A-E2000 amplifier. This £180 integrated design

incorporates what the company calls a Unifactor circuit, a DC reservoir that is said to hold more energy than 60 large capacitors and draws current in a far more even fashion than usual. This reservoir supplies a switch mode power supply which in turn provides a regulated supply for the amplifier.

The A-E2000 delivers 50 Watts a side via DC-coupled and servo-controlled circuitry, cascaded and independent feedback and inputs that are switched on both signal and ground lines. Designer Peter Hawkins has also taken a novel approach to amplifier protection, monitoring just 0.0008 per cent of the output leaving



the rest unsullied yet ensuring nothing nasty comes out. In other respects this TEAC looks much like a budget amp – there are defeatable tone controls and six line inputs, while the output into four Ohms is 70 Watts. However, the metal fascia, two pre-outputs and power input and 'heavy duty' binding posts suggest a more ambitious design than the price would suggest. TEAC UK 2 (01923) 819630

/amaha: new for 1999



A CD player, two CD multiplayers, a DVD player and a

MiniDisc recorder are among the new products Yamaha is adding to its line-up.

The CDX-393 MkII slots into the existing CD player range at £130, with a strong range of functions including an optical digital output, three display illumination levels and comprehensive programme and tape edit modes. The more affordable of the multiplayers is the CDC-575 'at £180. It, too, has plenty of features, and incorporates the 'PlayXchange' system which lets you swap discs while one still plays. The CDC-675 adds a few extra facilities, including a headphone socket, for an extra £50.

The DVD-S795 is a £530 machine complete with 24bit/96kHz audio and 10-bit video DACs, a built-in Dolby



O Yamaha: boosting its line-up with new CD and MD players.

Digital decoder and several sound/vision optimising modes. On the MiniDisc front, the MDX-595 recorder slots in at £230 with a versatile array of edit functions.

Other products available now from Yamaha on the home cinema side include the RX-V395 (£200) and RV-V395RDS (£250) receivers, the NS-P300 speakers package (£200) and three subwoofers – the YST-SW45 (£140), YST-SW90 (£180) and YST-SW160 (£280). Yamaha 2 (01923) 233166

New from 1



JBL is set to unleash four new speakers – one standmounter, two floorstanders and a centre speaker. The standmounter is the Ti 200, a two-

featuring a 17cm bass driver and 11.5cm midrange unit.

Top of the range is the £650 Ti 600, another three-way floorstander which adds a 17cm bass driver to the Ti 400's spec. For those putting together a multi-channel system, the Ti 100 Center crams in two 13cm mid/bass drivers at £200.

All four speakers feature a 25mm dome tweeter unit made of titanium. Each bass and midrange unit sports a coated paper cone, with a high power voice coil and a chassis engineered from mineral loaded polypropylene. Cabinets are fashioned from MDF and finished in wood veneer. For a full review of the Ti 200, check out the September issue of Choice. Gamepath 2 (01908) 317707

O JBL's Ti 600 three-way floorstander.

MT in at the deep end

British brand Musical Technology has

professional monitor range at £500. It features an

extensively-damped, 45 litre enclosure fashioned

plumbed greater depths with the launch of

two subwoofers. The PMS 45 is the more



way design using a 17cm mid/bass driver and priced at £400 per pair. The £550 Ti 400 is the first floorstander,



same crossover and integral 150 Watt amp, and come equipped with balanced and unbalanced line-level inputs, plus connection at speaker level. They also offer a dedicated 5.1 channel input, bypassing the crossover when used with suitable equipment. Musical Technology

☎ (01656) 842000

O Musical Technology gets deeper and down.



Viennese Waltz



A new four-strong range of speakers from Austrian outfit Vienna Acoustics is

hoping to bring the sound of music to British living rooms.

The line-up starts with the Haydn at £650, a two-way standmounter with a 25mm silk dome tweeter and a 14cm mid/bass driver, housed in a 34.5cm high wood-finished cabinet. Next comes the Bach at £1,000, an 86.5cm high floorstander featuring the same tweeter with an 18cm mid/bass unit.

The 94cm high Mozart slots in at £1,500, sporting a more advanced 28mm silk dome tweeter and twin 14cm mid/bass drivers, and the range is topped by the Beethoven − • Viennese slice: the a towering £2,500 floorstander that cab's got the cream. packs two 18cm bass units, a pair of

14cm midrange drivers and a 28mm tweeter. All are available in black or beech finishes, with a rosewood option available at a premium.

So, that's four different speakers, each named after a revered classical composer? Ah... Vienna. Henley Designs 2 (01491) 834700



Caspian. See?



Roksan's highly-regarded Caspian range has entered the multi-channel arena with the Caspian 5-Channel A/V Power Amplifier.

Priced at £995, this self-explanatory product delivers 80 Watts of power to each of five speakers, or 140 Watts into two. It can be slotted into an existing system or linked with the forthcoming Caspian Digital Surround Sound Processor to forge a high quality audio/visual amp partnership. Among the gubbins under the lid is a low noise, low leakage toroidal transformer.

Roksan is the latest British manufacturer traditionally involved with high quality two-channel hi-fi components to begin launching multi-channel products, following the likes of Arcam, Cyrus, Myryad and TAG McLaren. It's a trend that reflects the increasing influence of home cinema in the UK audio market, and also the growing profile of multi-channel music on DVD. According to a Roksan spokesman, it makes simple business sense: "We're entering a boom in the hi-fi industry, led by home entertainment [home cinema/surround sound]. Any company serious about its future has to look at this area – we actually started development two years ago." Roksan 2 (07000) 765726





PAUL MESSENGER

What do you want, style or content?

or the past three and a half years, B&W's 600 series loudspeakers have been high up the UK hi-fi sales charts. Well, the rave-reviewed and multi-award winning 601, 602 and 603 have been. (The 604 was kept well away from most UK reviewers, so never had the same impact.)

More details of the 600's new S2 replacements are found elsewhere in these news pages, but the background and context is worth further exploration. The changes seem logical, well thought through, and actually sounded rather convincing in the A/B dem we were given of 603S2 versus 603.

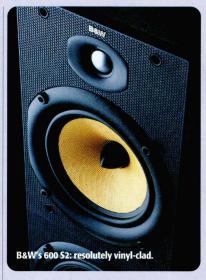
When I reviewed the original 600s, I was conscious that the tweeter wasn't the nicest sounding around. One reason for this was explained at the press conference. The 'perforated doughnut' shaped ring in front of the metal diaphragm was fitted to focus and thus increase the tweeter output in a forward direction, but the down side is some compromise in the off-axis smoothness.

The tweeter which is the key feature of the S2 range has a more powerful magnet and can therefore omit the ring modifier, which should improve the smoothness. The tweeter's new rear loading tube and better components in the crossover feed should also help the top end sound cleaner.

What did surprise me was that so little attention appears to have been paid to the cosmetics. In 1996 the 600s weren't exactly in the vanguard of loudspeaker style. In 1999 the almost identical looking S2s seem decidedly staid and dowdy, especially compared with what some of the competition is offering.

The new five-strong range carries price tags of £199, £299, £549, £849 and £1,399, and if vinyl finish is still pretty much the norm for the two cheaper, stand-mount models, it's getting unusual these days to find it above £500, never mind up at £1,400. Not only are the S2s resolutely vinyl-clad, they also seem to have ignored the widespread trend towards slimmer speakers. As a fashion statement, Series 2 is a disappointment.

But that may be to misunderstand them and where B&W sees them. If you want style and lounge-friendly decor, B&W has the P-series or the CDMs, for example, to fit the bill. If you want slimline styling on a budget, the 300 series offers that. The 600s are about providing best performance at minimum cost, so vinyl finish is inevitable and fashion doesn't get a look in.



Slimline boxes might appeal to the houseproud, but a slim baffle restricts the size of the main driver, and that in turn will limit the bass, the dynamics and headroom, the sensitivity, and loudness capability. How small a main driver can you have without compromising fidelity? It's a debate with no clear answer and plenty of conflicting views.

Clearly B&W is reluctant to drop below the 120mm cone used in the 601S2, just as it continues to use a cast alloy frame at an unusually low price. And history seems to be on B&W's side. It's been making models which broadly follow the 601S2 and 602S2 formulae for more than two decades. Turn up the first Hi-Fi Choice: Loudspeakers from 1976, and you'll find a B&W DM4 which has a lot in common with the 602S2. They're not identical, of course, but the parallels are too obvious to be mere coincidence. The fact that the price has roughly doubled over that 24-year span shows how effectively speakers have beaten inflation, although it's only fair to point out that real wood veneer was the only game in town back in 1976.

It's sobering that, despite the detail refinements, which have improved power handling in particular, the plot remains much the same. For a good overall balance, there does seem to be a naturally 'correct' size of speaker for any given room volume. I've pretty well worked out the formula which links bass driver size and sensitivity in my 4.3x2.6x5.5m room. The the room itself is the unpredictable factor, beyond the basic dimension-based room modes. Some simply seem to soak up up more bass energy than others depending, presumably, on how they are built.

NEWS & VIEWS

PREVIOUSLY UNHEARD

Phil Strongman digs out rare and classic tracks appearing on CD or virgin vinyl for the first time. Go strut your funky stuff...





SPACE GOATS Tribadelica

Space Goats are the unsung heroes of Glastonbury, Newbury and many other fests, squats and sit-ins. Despite being fronted by the charismatically strange Pok - the smoking woman's Marc Bolan they remain underground, often literally. This 1992-1998 collection has been expertly remastered by ex-Sex Pistols and Afrika Bambaataa producer Dave Goodman and shows what Goat fans always claimed they had - a touch of musical genius. Touch The Land rings like a bell while Inamorata, their lost concept album, is chocka with mixes that swell like tides, melodies to die for and lyrics that make Ogden's Nut Gone Flake look like a car advert. Imagine the Small Faces, Jethro Tull and Donovan jamming after a meal of magic mushrooms. The new hippie chic? Inside their 'rainbow dream' they really mean it, maaan. A genuinely weird stereophonic trip.

Mandala (0181) 761 3288 🗘 🗘 🗘 🗘

VAN MORRISON Blowin' Your Mind

The 1967 solo debut from the man from Them, Ireland's own original rhythm 'n' booze merchant. *Brown Eyed Girl* and

Midnight Special are amongst the breezy self-penned gems. There's CD and vinyl of this, the former sounds a tiny bit crisper but the mid-price CD has five bonus tracks. You pays yer money...

Epic CD/Simply Vinyl LP

KING AND HERINGMAN WITH CHARLES DANIELS Airs de Cour

As I'm sure we're all aware, poetic love songs were where it was at in Louis XIII's court. This disc is a recreation, by Catherine King and Jacob Heringman, of those odes. They are aided by Charles Daniels on lute, and very beautiful it is too. Think Cocteau Twins go 17th century ambient. Recorded by Linn, where even the temps are stars. Linn

VARIOUS Dave Godin's Deep Soul Treasures Vol. 2

Dave G, who's written more words on soul and resurrected more careers than anyone else alive, picks another 25 heartbreakers from the 1964-1971 golden age. The audio quality is damn good as he's tracked down original master tapes (unlike many who simply settle for copies of copies) to bring us the sublime keyboards on the Soul Children's *Sweeter He Is* and the quivering guitar on Ben E King's *It's All Over*. Makes swingbeat look deeply shallow.

SQUEEZE East Side Story

East Side is full of 1981's trends — rockabilly shuffles, soul parodies, power pop — yet remains timeless, perhaps because of the sheer quality of the songs — aided by the Roger Bechirian-Elvis Costello production, of course. Did the country style Labelled With Love lead Costello into C&W? Mobile Fidelity

- from Vivante (0181) 977 6600









All phono-thing

The latest crop to emerge from Musical Fidelity's ever fertile product farm is especially for vinyl obsessives. The X-LP² is described as

the world's first monoblock phono stage — it splits the amplification for each channel into two separate boxes, improving the isolation of delicate audio signals from unwanted interference.

Musical Fidelity claims exceptional accuracy from the X-LP2's RIAA equalisation, a bass boost/treble attenuation function performed by all phono stages — it produces a flat response by mirroring the bass cut/treble boost applied during disc mastering. An outstanding signal-to-noise ratio and ultra-low distortion are also claimed.

Both moving magnet and moving coil cartridges are catered for, with a selection of four input impedances for the latter. Each set also comes with a separate X-PSU power supply and an X-Cite mount for placement purposes. The X-LP² will be available from August, priced at £499; it could be just the thing for listening to the stunning selection of turntables and cartridges we're featuring next month's issue.

Musical Fidelity 2 (0181) 900 2866

Nakamichi joins DVD race



Nakamichi's return to the UK market continues with the launch of its first ever DVD player. The DVD-10 is an £800 machine with

integral Dolby Digital decoder and a 24-bit/96kHz compatible DAC. A high precision twin-focus laser pick-up contributes to, in Nakamichi's own terms, 'an unbelievably high-fidelity performance with CD', while comprehensive on-screen displays help the user optimise his/her own speaker configuration.

On the video side, the DVD-10 uses a 10-bit DAC – 8-bit digital video data at a 13.5MHz sampling rate is converted to a 10-bit word length and oversampled to 27MHz for 'exceptional clarity and detail'. The player is in the shops now.

BBG Distribution 2 (0181) 863 9117

O Nakamichi's DVD-10 offers 'exceptional clarity'.







JIMMY HUGHES

Jimmy's after something new to help clean up his acts

ust connect The Conductor by Matisse to a spare input on your amplifier and you'll get a noticeable improvement in clarity and cleanness. It's as simple as that.

Magic? Not quite. The Conductor is designed to absorb high-frequency noise present on your amplifier's ground rail. Matisse principally targets the noise produced by CD players and other digital components. But the modern world is a 'dirty' place and the atmosphere is heavily contaminated with RF noise, so every little helps.

The unit itself comes in a small heavilyfinned package, looking not unlike a tiny power amp. However, it doesn't get warm, although

"Once experienced, the Conductor is difficult to live without. The enhanced clarity, transparency and resolution are highly addictive. I made a few adjustments elsewhere to sweeten up the sound, thereby getting the very best of both worlds."

the heatsinks look pretty cool. No circuit details are given and, because the innards are potted in epoxy resin then sealed into the aluminium casework, it's difficult to tell what's inside. But work it certainly does; you can really hear the difference.

Subjectively, The Conductor cleans up the sound, reducing high-frequency hash and graininess. The music sounds clearer, more transparent and more crisply focused, with less glare. A two-position switch alters the

frequency at which The Conductor operates, allowing you to tailor it

to your system.

After many comparisons, I settled on position two, which seemed to give better instrumental separation and

slightly firmer low frequencies. Position one was marginally warmer and a shade more diffused — although either setting was cleaner and better focused than the sound without the unit.

Although The Conductor produced a worthwhile improvement connected to my amplifier, it proved even more effective when attached to a spare socket on the Meridian 518 digital processor I use between CD transport and DAC. This makes sense. After all, it's better to kill noise at source than try

So, if your CD player has a spare phono socket (analogue or digital), try The Conductor here too. It might even be worth using more than one Conductor - say, on the amplifier, and on the CD player. Using two Conductors you'd have the option of setting the frequency switch to different positions, thus dealing much more effectively with RF noise.

Matisse suggests that, after the unit has been fully run-in, you might want to make fine adjustments to your system. Because The Conductor enhances resolution, you'll be able to hear the effect of subtle changes that would probably have been masked before. But this works both ways.

In my system, the upside was a cleaner more sharply delineated presentation, greater dynamics, and superior fine detail; the downside was a more forceful 'projected' sound, which sometimes made the music seem less sweet and beguiling. The extra clarity brought with it a slight increase in tonal hardness. Nevertheless, once experienced, The Conductor is difficult to live without. The enhanced clarity, transparency and

> resolution are highly addictive. I made a few adjustments elsewhere to sweeten up the sound, thereby getting the very best of both worlds. At £349.99, it's certainly well worth trying.

GT Audio 2 (01895) 833099

The Esopower

mains board:

socket and see.

AND FOR THE MAINS COURSE...

Some months back I enthusiastically endorsed the Power Wedge mains conditioner, and it was sorely missed when it went back. My system sounded noticeably

more contained and less well separated and three-dimensional

with it gone - a good thing, because it confirmed that the first impression made by the device wasn't imaginary.

So I was intrigued when the same importer told me he now had something



The Conductor's fintastic aluminium casing contains highly effective circuitry - but it's all sealed inside.

he felt was even better and cheaper — more power for less wedge, no less. Esopower from Italy offers a range of mains purification devices from a simple distribution board to a fully isolated and conditioned mains supply costing several thousand pounds.

Power Wedge worked by isolating pairs of output sockets via special transformers and had restricted current delivery, with sockets for low-level components and others for heavy devices like power amps. But the Esopower mains board has no such restrictions.

It's basically a filtration system, targeting high-frequency noise on the mains in the 1mHz to 100mHz range, reducing both common-mode and transverse-mode noise. The board has six 13amp mains sockets four for standard components and two for digital products. It's simple to use; I tried it and immediately felt things sounded more refined with greater tonal purity.

Subjectively, both on my own system and a friend's, the result was a sweeter, smoother presentation with cleaner treble. At the same time, the music also seemed slightly quieter and less dynamic, with reduced contrast between loud and soft. The effect was by no means unpleasant, but there was perhaps a slight loss of vigour and brilliance to offset against the increase in refinement.

It's always difficult to say if this kind of change is due to the elimination of mains 'dirt' that adds a false edge to the sound, or whether something vital is being eroded in the process of the mains being filtered. Subjectively, much will depend on your system; the more forward and aggressive it sounds, the better you'll appreciate what the Esopower distribution board does. At least, that's my expectation.

At £400, the Esopower board is cheaper and easier to use than the Power Wedge I tested, but more expensive than Russ Andrews' six-way Kimber mains board, which I prefer. Looking at its range, Esopower also makes a Line Conditioner that looks similar in concept to Power Wedge costing £1,100.

Try to hear both before deciding. Audiofreaks 2 (0181) 948 4153

IN THE Beginning...

All audiophiles need to start somewhere. Tim Bowern listens to a £1,000 separates system, as recommended by the Audio T dealership.

THE SYSTEM

Marantz CD-67MkII OSE CD player \$300
Arcam Alpha 7R amplifier \$5300
Tannoy Revolution R1 loudspeakers £200
Mission Stance speaker stands £100
SonicLink Black interconnects £49/m pair
SonicLink AST200 s.cable £59.50/5m pair
TOTAL COST £1,008.50

bloke walks into a hi-fi shop. He's got his cheque book with him and he's ready to sign away up to £1,000 of his hard-earned on his first separates system. He only plays CDs these days, and his tastes stretch from light classical to heavy rock. But while he's heard that separates should sound better than his old midi system, he hasn't got a clue where to start. He strolls over to the nearest store assistant and explains the situation... his hi-fi adventure has begun.

So went the story when we first approached the Oxford branch of hi-fi dealership Audio T. We needed a set-up for this month's dealer-recommended system, and our intention was to keep the price at a realistic 'just starting out' level.

Sure, the guys in-store would've loved us to let them loose on something more exotic, but there it was – we needed a CD player, amp and speakers, together with suitable speaker stands and cable, for a (literally) grand total and not a penny more. Well, not many pennies, anyway.

After mulling over the variables, Audio T got back to us with a system it was sure would fit the bill. On paper it makes a lot of sense: with electronics from Marantz and Arcam, two of the biggest names in the UK market, and speakers from the equally respected, Marantz-affiliated firm Tannoy. Could this be the way to begin a life-long love affair with high-fidelity sound? Before we attempt to answer that, let's take a closer look at the individual components.

COMPONENT PARTS

In case you didn't know,
Marantz makes some of the
UK's biggest selling CD players.
The company has garnered a
strong reputation for refined
sonic engineering and,
although not everyone has
warmed to the 'Marantz sound'
over the years, there's no doubt
it has been responsible for
some extremely competitive
products. The CD-67MkII OSE
(see HFC 184) is Marantz's most

"The Marantz
CD player's
performance can be
quite stunning
given the price,
most notably with
simple, acoustic
styles of music.
It's a capable
starting point for a
sub-£1,000 system."

recent addition to its sub-£500 range, sporting familiar aesthetics and nestling just below the hugely popular CD-63II KI-Signature. It's a relaxed and cultured-sounding player which delivers good detail and possesses a penchant for a well-recorded vocal.

Its performance can be quite stunning given the price, most notably with simple, acoustic styles of music, but as the tempo hots up it has a tendency to sound rather hard and soul less. Still, it remains a capable starting point for a sub-£1,000 system, providing you play to its strengths.

And so we move down the chain to the amp department, ably occupied by Arcam's £300 Alpha 7R. As the name implies, this evolution of the Alpha 7 features remote control as standard, with volume and muting operational via a snazzy little remote. It's also a little more powerful at 45 Watts per channel, and features a few performance tweaks under the hood, paving the way for a promotion within Arcam's ranks - it's no longer the entry-level model; that

O For a laid-back sound with acoustic styles it's hard to imagine a better buy.



position now belongs to the more recent Alpha One. Arcam's lower priced amps have long been a British favourite, regularly cropping up in lofty positions on the list of best sellers. The recipe with which the company has cooked such success is simple: a fine blend of practical facilities and a substantial, accommodating 'house sound' ensures they're easy to partner and easy to live with. The 7R follows the theme to a 'T'. Although its sound could do with a little more enthusiasm, it's undoubtedly a well-rounded product.

Indeed, similar comments could be made in reference to Audio T's choice of speaker for this system. The R1 (see HFC 187) is a spruced-up version of Tannoy's excellent little £120 M1 standmounter, complete

"it offers a strong bank of facilities and the reputation of each component suggests a highvalue sonic fusion when it's all working together. Ultimately, though, the results are a little mixed"

with an all-MDF cabinet, real wood veneer and tweaked crossover components. Few speakers at £200 are so beautifully finished, combined with an eminently civilised sound and definite strengths in imaging and midrange quality.

On the flip side, its dynamics are somewhat limp and performance is muted at the frequency extremes - sound per pound, the basic M1 is arguably a better speaker, though the more you spend in the amp department the better the R1s get.

But there's more to come from our £1,000 budget. It's important not to skimp on stands and cables, even with a system of comparatively low cost, and to support the speakers Audio T has plumbed for a £100 design fresh from the Mission stable. The Stance is a simple, bolt-together stand featuring three columns sandwiched between base and top plate, the largest of which

is fillable to add mass. Its construction is smart and sturdy, the finish black or silver, and when it comes to sound the guys in-store reckon it's a touch more lively than rivals from the like of Atacama. Given the nature of the speakers, that's no bad thing.

Cables come from SonicLink, with the £5.95/m AST200 lining up between amp and speakers see next month's issue for a full review.Interconnect between CD and amp is the excellent value Black at £49 (see HFC 176).

SOUND QUALITY

This is all high-profile kit at the 'value' end of the market. It looks good, it offers a strong bank of facilities and the reputation of each component suggests a high-value sonic fusion when it's all working together. Ultimately, though, the results are a little mixed: in some respects it's excellent for the money, but I have to say I have some reservations.

Its general tone is relaxed and well-mannered to a fault, eschewing the abrasive edges that can plague a system at this price level and replacing them with a genial sense of calm.

Weight and body are pretty substantial given its nature, and well-polished imaging adds to the cultured, cohesive musical impression.

Fine so far, but where are the fireworks? In terms of pace, punch and dynamic expression it's reasonable to expect more from a carefully-chosen £1,000 set-up - particularly when the musical tempo is cranked up a notch. Bass and rhythms miss authority and drive, and there's a distinct lack of sparkle in the treble, the net effect sounding rather sat-on.

All of which leaves this system with a distinct sound you might just love, but you might also loathe - it really depends what you listen to and, perhaps more importantly, how you want to listen to it. For a laid-back sound with acoustic styles (classical included) it's hard to imagine a better £1,000 buy, wooed as you are by a level of subtlety and flow rare at the price. It's easy on the ear, relatively transparent and its character is calmer than most.

But if you crave drama with your music, and particularly with material based on rhythm and pace, you're likely to find it rather lumpy and lifeless. A spin of Massive Attack's Unfinished Sympathy shows both sides: the strings and vocal sound impressively fluid, but bass is flat and there's a lack of air up top.

So if you're in the market for a system at about a grand, the bottom line here is: it's got the looks and facilities - and, if you like a laid-back presentation, it's got the performance. Value for money is strong, especially if you crave a sound that soothes, but at the end of the

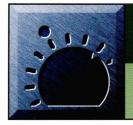
day it couldn't quite move me. Worthy... just a little bit dull.



There's some definite class in this 'entry-level' system's sound, but its smooth nature is a little lacking in spirit. Good value, as long as its strengths play to your needs.

2 Audio T, Oxford (01865) 765961





PAUL MILLER'S OASIS OF SANITY

You can't convert a digital signal back into an 'analogue' sound without a DAC. The Tech Ed explains exactly what happens inside the box.

art four in our irregular series on the building blocks of digital audio sees the spotlight fall on the DAC, or Digital-to-Analogue Conversion – the process by which digital code (from CD, MD, DVD or DAT, for instance) is put together to form recognisable 'analogue' music.

In part one (issue 187), we discovered how the original music waveform is described in binary form. When recording for CD, 'snapshots' of the musical waveform are taken at the 44.1kHz sample rate — that's one snapshot per 22.68 microseconds — and the level of the signal is recorded as a 16-bit number.

This last step is called quantisation and with 16-bits of resolution available this yields any one of 65,536 (2¹⁶) evenly-spaced 'levels' to describe the instantaneous level of the music signal during each sample period.

A 16-BIT CODE RANGES FROM 16 ZEROS TO 16 ONES AND COMPRISES 65,535 EVENLY-SPACED STEPS:

| Number (or Level) | 16-bit Binary Word |
|----------------------|---|
| 0 | 000000000000000 |
| 1 | 0000000000000001 |
| 2 | 000000000000000000000000000000000000000 |
| 3 | 000000000000011 |
| 65532 | 1111111111111100 |
| 65533 | 111111111111111111111111111111111111111 |
| 65534 | 111111111111111111111111111111111111111 |
| 65535 | 1111111111111111 |

In practice, CD uses a variation on this theme called 'two's complement' whereby positive-going parts of the music waveform start with a '0' and negative portions all start with a '1'. But for our purposes, it's convenient to think of our digital scale running from 16 0s (fully negative) to 16 1s (fully positive).

Having established how a music signal can be represented on a sliding scale of 16-bit binary words, converting them back uses the same process in reverse. Of course, what seems simple on paper is an engineering nightmare in practice, and one that's spawned a variety of innovative solutions by different manufacturers. This month we'll look at the earliest form of D/A conversion technology used in CD players - multi-bit conversion.

"The conversion process seems simple on paper but is an engineering nightmare in practice, and has spawned a variety of innovations."

FIGURE ONE SETTING THE LEVELS

As each 16-bit word is addressed to the DAC, the level of the music signal at that instant is determined by adding together all the ones and ignoring the zeros. Effectively, each of the 16-bit 'positions' will switch on (1) or off (0) a corresponding current source in the DAC. The total current per 16-bit word equals the level of the music during that sample.

The amount of current liberated by each bit is shown by the green bars on Figure 1. We can see that bit 2 liberates twice as much current as bit 1 but half as much as bit 3, for example. Indeed, as we move up the bit scale, each successive bit will switch on twice the current of the preceding bit.

Clearly, bit 1 liberates the smallest amount of current, and this is known as the Least

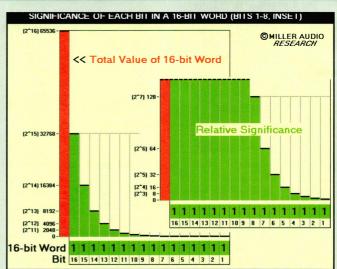
Significant Bit or LSB. At the other end of the scale, bit 16 is 'worth' 32,768 times more current than the LSB, and so is called the Most Significant Bit or MSB. In the code adopted by CD, the MSB indicates whether the music signal is positive or negative-going.

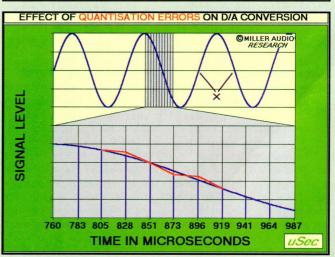
Because the LSB represents the smallest 'step' available to the DAC, there are effectively 65,535 LSB steps between the lowest and highest 16-Bit word.

FIGURE TWO QUANTISATION THEORY

Ideally, each of these 65,535 possible increments will be the same size as the LSB. If not, the

FIGURE ONE AND FIGURE TWO





combined output of all the sources per sample will deviate from the original quantised value. Various sophisticated techniques, including continuous calibration (Philips) and bit-shifting (Analogue Devices), are used to combat these practical difficulties.

In our example (figure 2) quantisation errors are shown in red where certain points on our musical curve occur slightly higher or lower than they should (the black 'X' comes later). This is called non-monotonic conversion and results in a type of distortion

"Another hurdle faced by multi-bit converters is the problem of glitches, which can be likened to a ringing at the beginning of each new sample."

that's unique to digital systems like CD players. It's the cause of the gritty-sounding 'noise modulation' mentioned regularly in my CD player Lab Reports, for example.

Non-monotonic conversion is most destructive at low signal levels because there are fewer of the 65,536 binary numbers available to describe its precise level per sample. Relatively speaking, the errors become more significant and the distortion more pronounced.

Digital dither is often used to 'smear' this distortion into noise, which is less distracting. We'll cover the topic of dither in more detail next month with *Choice*'s exclusive review of Rotel's top-of-the-line RCD-991 CD player.

FIGURE THREE IRONING OUT GLITCHES

Another hurdle faced by multi-bit converters is the problem of glitches. Glitches can be likened to a ringing or overshoot at the beginning of each new sample and are caused by certain of the 16 different current sources turning on or off faster than other sources. Once again, in an ideal world the MSB current source must react just as quickly as the LSB

current source, despite the former being 32,768 times the size of the latter.

Typically, these glitches are removed after D/A conversion using what's known as a sample-and-hold filter (see Figure 3). This circuit 'samples' the step output of the DAC between two successive glitches (in red) and 'holds', or maintains, this output (in blue) through the next glitch. The stepped analogue output of the DAC is therefore shifted by one half of a sample period, missing out the glitches.

This is a neat idea but demands that the sample-andhold filter should operate with at least twice the clock accuracy of the DAC itself, and is a potential source of jitter.

FIGURE FOUR THE ZERO-CROSS POINT

Naturally, the magnitude of the glitch depends very much on which current sources are operating during that sample, so the biggest glitch will occur when all 16 of the current sources change state (from 0 to 1 or vice versa).

This only happens once through all 65,536 binary levels and occurs at arguably the most sensitive position in the audio waveform. This is called the zero-cross point, the point at which the audio wave crosses from positive to negative-going or negative to positive-going. It's marked by the black 'X' in Figure 2.

Figure 4 shows the 16-bit binary words that exist at the zero-cross point. This position is flanked by two binary words: 0111111111111111, which adds up to 32,767, and 10000000000000000, which adds up to 32,768, a single step that represents a difference of just 1LSB. So at the zero-cross point, all 16 bits and their respective current sources change state, creating a very large shudder or glitch in the output of the DAC.

DAC's the way (uh-huh, uh-huh)...

Just as crossover distortion in a Class B amplifier is audible, so too this zero-cross distortion can have a subjective impact.

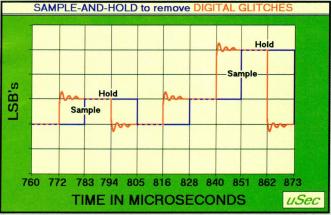
Non-monotonic conversion is also most likely to occur at the zero-cross point. Uniquely, this point sees the 15 Least Significant current sources switch off just as the single Most Significant source turns on (or vice versa). In which case, the output of the single MSB (bit 16) must equal the total output of all the preceding 15 bits plus 1 LSB. The tolerances demanded for accurate conversion in a multi-bit chip are truly monumental.

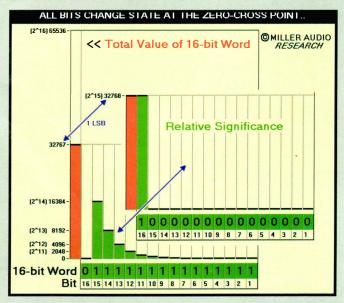
One way of avoiding glitches, zero-cross distortion and ensuring monotonic conversion is to use bitstream-style conversion — a technology that has its own set of compromises and one we'll explore in a future *Oasis*.

Do you have a subject matter for the Oasis? Please contact P.Miller via

the Oasis? Please contact P.Miller via e-mail on MILLER_AUDIO_RESEARCH @compuserve.com

FIGURE THREE AND FIGURE FOUR



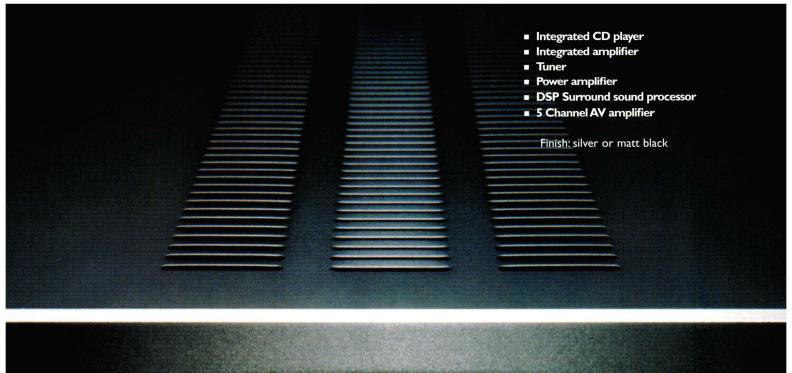


GLOSSARY

CURRENT SOURCE: A type of switch in the DAC that releases a defined amount of signal current. A 16-bit DAC will have 16 current sources, each twice the magnitude of its neighbour. **DAC:** Digital-to-Analogue Converter. **GLITCHES:** Ringing caused by bits of varying significance attempting to turn on and/or off simultaneously. LSB: The Least Significant Bit or the smallest increment in level described by a 16-bit word. MSB: The Most Significant Bit. This 16th bit is 32,768 times 'more significant' than the LSB. **QUANTISATION:** Describing the amplitude of a music signal at any

moment in time (a sample) by a

16-bit word.





VIDEO

Caspian whichever way you look at it....

MODE

Roksan Caspian system — **January '99** Best Buy CD player/amplifier/speakers



Caspian — **'98 winner**Best Buy
Integrated/Power amp
from £1000



Caspian — '97 winner

Best amplification
component up to £1000



...its award-winning

TAPE

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www.roksan.co.uk

DAVID VIVIAN

Memory Corp reckons we won't be able to tell the difference between the MP3-GO replay and CDs. Oh, won't we?

ooking forward to Matt Groening's new cartoon, Futurama. From what I can make out, it's *The Simpsons* meets The Jetsons. Groening said in an interview that he plans to have some fun at the expense of the future. I could be wrong, but for me, this can only mean one thing: a future that doesn't work.

Dysfunctional technology – it's the only sort that's funny. So how's this for a storyline fraught with comedic potential? It's the future. Everyone still loves and listens to music. (Worth pointing out, this when an earless puppet called Flat Eric records a single that goes straight in at number 1 in April 1999, you begin to worry.) Despite being awfully old hat, CDs are still the commodity on which most of the world's music is stored. It's just that no one actually plays them in real time anymore. Spinning disc? Lasers? You can still buy replicas of CD players in Past Times but, in the future, audio is solid state.

In your pocket is a silver handset about the size of what used to be a packet of 20 Marlboro. A 21st Century Walkman? Exactly. Except there are no moving parts. It doesn't play CDs or MiniDiscs; it doesn't use any "physical" software at all. Instead, you plug it into other things and "fill it up" with whatever you want to listen to.

Walk into HMV, Our Price or Virgin and where the headphone booths used to be is a music dock. Top ten singles, album excerpts or a bit of both? Make the selection, plug in and, seconds later, you're juiced up, store credit adjusted automatically.

your choice from what's stored in the slightly larger mother unit back at your apartment. This incorporates a rather old-fashioned CD transport, but only to enable the creation of a personal music library. The mechanism reads the data off the disc and stores it electronically in a compressed form - up to 100 CDs for later instant replay or transfer to the palm-sized personal which can suck up an hour's worth of CD-quality music in a matter of seconds

"The harder I think about this brave new world, the greater the urge to put an LP on the turntable and relax with the sleeve artwork and notes."

But all that's hardly worth mentioning because the unit's real power comes from being able to download music from a dedicated Internet port. No PC required. And, as everyone knows, the Internet is the new rock 'n' roll.

Still more instant gratification seems to be the wheels on which technology is taking us into the future - a world where pleasure is no sooner sought than supplied. But we don't always want to go where technology leads us. At least not at the speed it

can take us there. If we did, you probably wouldn't be reading this magazine. Even so, it may surprise you to learn that some of the hardware outlined above, far from being mere script fodder for a future Futurama, could be in the shops by Christmas. This Christmas.

At least that's the claim of the company that originated the implementation of the technology, Memory Corporation. It's called MP3-GO and, unsurprisingly, Memory Corp has so far built up its business in the field of computer-based digital data management. The stated mission of MP3-GO is to usher in "the next generation of hi-fi... to take computer technology into the consumerfriendly audio environment".

There are still a few technical wrinkles to iron out of the prototypes, but there's little reason to doubt it won't become a commercial reality soon. Amazing.

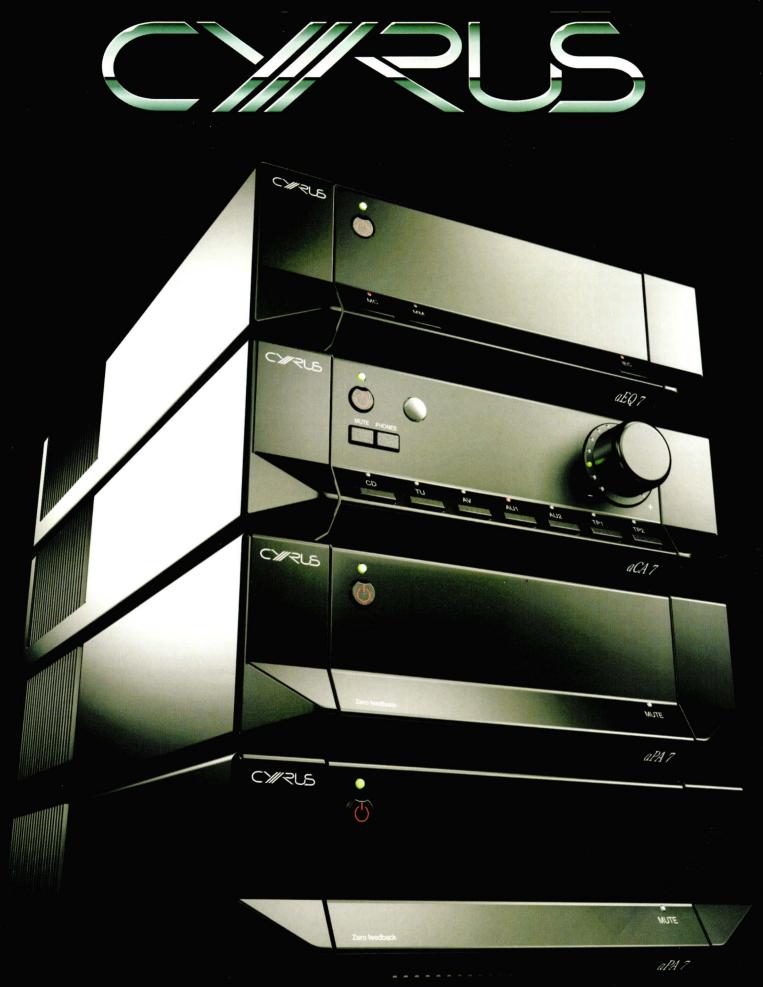
But am I be the only one who finds the prospect rather less than the "consumer Utopia" Memory Corp proclaims? Perhaps it's the thought of finding the time to record 100 CDs, one by one, in real time, into MP3-GO's solid state storage system. Or grappling with an interface comprehensive enough to allow instant access to any track which it will need to be for a truly Utopian service. Or even the fact that, without very lengthy download times from the Internet, "CD-quality" replay is likely to be nothing of the sort. "Most people won't be able to tell the difference," says Memory Corp's technical spokesman. Oh yes, they will.

To be honest, the harder I think about this brave new world, the greater the urge to put an LP on the turntable and relax with the sleeve artwork and notes.

In principle, greater convenience and choice are Good Things. But they aren't everything. Few of us ever see the money we use to buy things. But, just once in a while, it's good to hold a crisp £20 note between your fingers. One day, like CDs, they won't

Because, as Bart Simpson might say, the





For further information please contact: Cyrus Audio, Huntingdon PE18 6ED Tel: +44(0) 1480 451777 Fax: +44(0) 1480 432777 Email: info@cyrusaudio.com



LETERS

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

LETTER OF THE MONTH

Elbow grease readers' own

A MOVING EXPERIENCE

I've lost count of the number of times I've read advice in your pages, and others, about the wisdom of experimenting with the siting of equipment, especially speakers. However, apathy or unwillingness to wrestle with heavy boxes and yards of recalcitrant cable can often lead to such advice being given a low priority. Added to this is the opinion that moving speakers about surely can't make *that* much difference. Oh, can't it?

Recently, my friend and I were listening to his system late at night. He was sunk in the depths of despair at the stubborn refusal of his speakers (Mission 752s driven by Arcam Alpha 7 and Audio Analogue Puccini SE) to produce any convincing bass.

I had to agree with him. Two decent drivers, three ports and sizeable cabinets, yet the bass response was so polite it was positively retiring. 'Why not try them firing down the room instead of across?' I said with no great enthusiasm (it was 1am). I watched, semi-comatose, as my friend huffed and puffed, moving the mass weighted Missions.

Once set up in its new position, he stuck on Harry Connick's *She*, the particular album he had just been complaining about. It was as if the whole system had been replaced. Suddenly there was not only bass — oodles of it — but the whole sound was much more focused and balanced. The bass was deep, tuneful and drove the music along as it should, while the treble was cleaner and sweeter.

So, a massive upgrade in sound quality for the piffling cost of a few calories. The message? Don't just sit there, get them speakers moving!

Ian Manning, via e-mail

Anyway, I'm dropping you a line as a die-hard fan. Friends (at least those with 'ears') are catching on. If it wasn't for Acoustic Precision there would be a lot of us constantly upgrading and changing our gear because 'it just doesn't sound quite right'. Now it does!

Adam, via e-mail

SIMPLY THE BEST...

As an occasional reader — due to issues disappearing from the shelves faster than the speed of light — I'm pleased to see that even the best can be even better. *Choice* looks better than ever, and reads even better still. My hearty congratulations, and keep up the excellent work.

As a reviewer of PC hardware and a publisher of my own Webzine, the above comments may be taken as coming from a not completely uninformed source. However, they are that much more hearty.

Dejan V. Veselinovic, via e-mail

HIGH-END WOES

I'm a subscriber from Croatia and am disappointed with two things about your magazine.

First, it's beginning to look more and more like a high-end magazine. Choice used to carry a few high-end reviews, but now it seems it's all high end — and high price! I'm not interested in this type of equipment, due mainly to its price, and now buy other magazines to read reviews of mid-priced equipment.

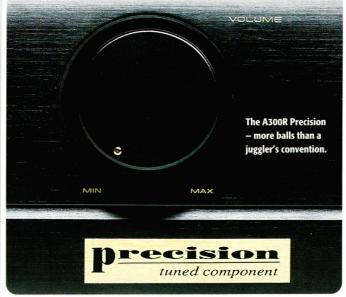
Second, why does *Choice* limit entry to its competitions to UK residents only?

I've been a reader for many years and would hate to see *Choice* drift too far into the high-end waters at the risk of losing some devoted readers.

Marko Keba, Pula, Croatia

The Editor replies... Oddly enough, I received a call from a long-time reader who thought the April issue was the best he had read, and cited the balance of products as being perfect. Clearly, we can't please all tastes and budgets all the time, so we try to cover as wide a range of products and prices as we can. Hopefully, this month's CD player reviews will be of more interest to you.

As for the competitions, there are three main reasons why we have to



restrict entry to UK residents: mains voltage and frequency can vary in other countries, as can regulations for electronic appliances; the cost of carriage would be prohibitive; the warranty on the products only applies in the UK.

TWEAKIN' MARVELLOUS

In last months Editor's Notebook you talked about the Pioneer A300R tweak by Precision-meister Tom Evans. I thought the A300R Precision was a stonking amp on its own anyway. When I bought one I was amazed — mind you, all the reviews kinda say as much.

With the latest upgrade the sound has finesse, poise and pedigree. Oh, and did I forget to mention balls? The first thing I noticed was the bass — wow, you can hear everything. It has to be the most stupidly priced amp anywhere. The imagery is ridiculously good. How does the guy do it?

MINI REVELATION

Since borrowing a MiniDisc recorder from a friend, I've finally let go of my prejudices against the medium and am now considering purchasing a Sony MDS-JB920 or the fancier MDS-JA20ES.

However, I have some questions: do MD recorders share similar drawbacks to those of magnetised heads on a cassette deck or the laser lens of a CD player becoming dirty? What remedies do you recommend? Are there audible differences between recordable discs? Also, my CD player only has an optical digital output — are there any optical interconnects you can recommend other than the ones listed in the Directory?

Victor Staffeleu, The Hague, Netherlands

The Editor replies... MD does not have the same problems of head wear that cassette decks do and as yet we haven't heard of laser lens problems. The situation looks likely to end up much like that with CD players where laser wear is not a significant issue.

We will be testing blank MD software in the October issue, so until them buy the best you can afford.

Toslink optical cables are not as popular as they once were, so there aren't any others that we can suggest.



Tim Bowern is here to rid you of your hi-fi woes!

LETTER OF THE MONTH

I'm in the process of choosing some hi-fi gear and I find it all rather intimidating - that's why I read Choice. The thing is, I'm a bit worried by something I read in the April issue - in the amplifier review, it said the assembled panel had "listening skills". What skills do they have that I don't? If their hearing is superior to mine, is it worth lashing out £1,500 on a new amp? S. D'Oyley, via e-mail

The blind listening panel we assemble for our Mega Tests varies in personnel each month, but usually consists of experienced reviewers and a selection of experts from the industry. Every member works in the field for a living, helping to amass the sonic and descriptive know-how essential to make qualitative recommendations with authority - add our comprehensive lab tests, and you've got the most thorough comparative hi-fi tests on the planet.







O If you're all fingers and thumbs when it comes to amps, just trust your ears.

This expert panel may indeed hear things that you do not, but that doesn't mean that it's members ears are inherently superior. Put a good quality, £1,500 amp against an inferior model: we bet you'll hear the difference, even if you can't describe it. There's no reason to feel intimidated, simply use Choice to help formulate a shortlist, head to a reputable specialist dealer and audition the products that take your fancy, preferably with the same components you'll be using at home. If something stands out for you, for whatever reason, then go ahead and buy it – if it suits your ears with your own music, that's the one for you. It doesn't take 'skill' to appreciate great hi-fi; a love of music is all you need.

GET A JAMO LEATHER CD WALLET!

Every issue, the reader whose letter is our Query of the Month will receive one of these stylish, leather CD wallets, courtesy of those lovely people at Jamo Loudspeakers.

CARTRIDGE COLLECTION



I have a Michell Gyrodec turntable with a Rega RB300 arm, and I'm

currently using a Goldring 1012GX cartridge. I want to buy a new cartridge, one that will give me tighter, more powerful bass. Any suggestions?

Prashanth Ganendran, via e-mail

When we reviewed Michell's new Gyro 'SE' turntable last month, essentially a Gyrodec without the acrylic trimmings, we asked John Michell himself which cartridges he recommended we use for the test.

His first choice was Ortofon's Rohmann, which sounded absolutely superb, but at £1,000 it costs considerably more than the turntable itself. His other recommendation was also an Ortofon, the MC30 Supreme at £525. It lacks some of the former's delicacy, but it's still an excellent cartridge that should fulfil your needs - providing, of course, that your amp or phono stage allows you to use moving coil cartridges.



O Denon's DL304.

If you need to keep the cost lower still we can make a few more recommendations. On the moving magnet side try the Roksan Corus Black (£130) and Grado Prestige Gold (£149), while moving coil types of note include the Ortofon MC15 Super II (£130) and Denon DL304 (£200).

If you can wait, you should also check out our July/August issue a collection of cartridges will be among the hi-fi goodies inside.

CABLE CONUNDRUM



There are so many interconnects and speaker cables on the

market, I'm confused about which ones to buy. I use a Musical Fidelity Electra E624 CD player, Arcam Alpha 9/9P amp combo and Mordaunt-Short 815 speakers. I want to get the most out of my system without breaking the bank. Where should I start?

M Giudice, Colindale

We quite understand. Cables can seem confusing – there's a huge choice out there, each manufacturer claiming superiority for one reason or another. To give yourself a place to start, and as a rough rule of thumb, consider spending around 10-20 per cent of the total cost of your system on the wires you need. In your case, that would give you between £180 and £360.

Next, draw up a shortlist. A good cable maintains the integrity of the signal it carries while minimising extraneous characteristics, and all our reviews are concluded to that



O Supra EFF-ISL interconnects.

effect. Use our buying guide to draw up a shortlist according to your length requirements - you'll obviously need four runs of speaker cable for bi-amping purposes – and try to arrange some auditions.

Our recommendations for your needs would include: interconnects -Supra EFF-ISL (£80), Kimber Hero (£110) and van den Hul D102 MkIII (£70); speaker cable – QED Qudos Silver (£5/m), Straightwire Quartet (£8/m) and Hitachi LC-OFC (£7/m).



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VINYL CENTRE STAGE



I read the recent *Choice* review of phono stages with interest, particularly

as I'm currently shopping for one! Of all the stages featured, only the Creek is available in my area (the others are available through mail order). Why was the Rotel RQ-971 not reviewed? How would it compare? Craig Hathaway, USA

Actually, Craig, Rotel has never made an RQ-971. There was an RQ-970 phono stage available in the UK, but it hasn't been on sale over here for a while, so we were unable to review it.

However, Rotel's UK distributors have insisted that there is still a need for such products in the UK, and plans are underway to re-introduce it very soon.

The RQ-970 was never reviewed in *Choice*, but my own limited experience with the product is

"The phono stages in our recent test are a safer bet because they were given a thorough going over."

reasonably positive – crisp and clear, if a touch cold-sounding.

The products that were wellreceived in our recent test make much safer recommendations, simply because we've given them a thorough going over.

In the same price range as the Rotel (around £150), either the Musical Fidelity X-LP or the Creek OBH-9 would make excellent buys. So if the Creek is the only brand that you can audition properly in your area, we'd certainly give it a go.

SEPARATES AHOY!



3.14

I'm in the process of upgrading my stacking system to separates. I've

already changed the speakers to Tannoy Mercury M2s, and I fancy the Yamaha CDC-665 CD player.

Which amp should I go for? I've got about £120 to spend and I listen to all kinds of music, but particularly soul and R&B. Steven Cairns, Devon

Congratulations on your first separates system, Steven – choose the final elements well and it's sure to give you "Choose the elements of your separates system well and it's sure to give you total listening pleasure."

It's a great little budget amp, and you're unlikely to buy better for the money.

However, if you can stretch to a little more your ears will thank you for it. Have a listen to the Denon PMA-350SE (£180) and Rotel RA-971 (£200), and see if you

think their crisper, more direct sound is worth the extra.

And, if you haven't already done so, don't forget to budget for a pair of rigid, spiked speaker stands and

well-regarded entry-level cables, such as those from Cable Talk and QED. Once you've made the choice, plug it up, sit back and enjoy – the musical improvement over your old midi should be something to savour!

PI-ONO ECHIALIZER RO-970BX

O Rotel's RQ-970 phono stage.

pleasure. The Yamaha is a good CD player, and if £120 is really your limit on the amp front then your best bet is probably Rotel's RA-921.

HINTS & TIPS Most power amplifiers

have fixed gain — there being no need to offer variable sensitivity since volume levels are controlled by the preamp. But some power amps are fitted with volume controls — usually just a potentiometer across the input. Where this is the case, you'll always get the sharpest, most dynamic sound quality by turning these controls fully clockwise — effectively taking them out of circuit. If engaged, even slightly, the increased resistance will subjectively result in a loss of vibrance and immediacy because the power amp is no longer being driven from a low

This can lead to the interconnect cable between pre and power amp picking up hum and radio-frequency noise, especially if the cable is long and unshielded. Likewise, CD players with variable audio outputs should always be set to give maximum output.

AMP FOR MAIN COURSE, CD TO FOLLOW

An acquaintance of mine wants to change his Castle Harlech speakers or some B&W Nautilus 803s. I leard the Castles with Audiolab

for some B&W Nautilus 803s. I heard the Castles with Audiolab pre and power amps and was shocked (I'm still recovering!) by their splendid sound. I've now got the opportunity to buy them and I probably will, but I think my current system – Marantz CD-72 CD player and PM-66SE amp – isn't up to scratch.

I want to get a good amp first, and later a matching CD player from the same brand. I was thinking about the Marantz PM-17, Musical Fidelity X-Pre and two X-A50s, Quad 77, Arcam

Alpha 10 or 9C with 9P. What do you think I should do? B. Janssen,

Holland

First off, you're right to surmise that your CD and amp won't get the most out of the Castle Harlechs, and you're also right to think about upgrading your amp first.

The Harlechs aren't a particularly difficult load as £800 floorstanders go, helped by an amiable 8 Ohm impedance and 88dB sensitivity, but they do require an amplifier of some quality and power to perform at their best.

They are at their best with an amp that's clean, well-paced and even-handed, and of the models you mention we'd probably go for the Musical Fidelity X-Pre/X-A50 combo (£700), or even better the X-Pre with a pair of X-A200s (£1,200).

You would then have the option of grabbing the matching X-Ray CD player at a later date. Also, have you considered TAG McLaren? The Harlechs do indeed work well on the end of the old Audiolab kit, and they're likely to sound even better with the TAG stuff. Check out the 60i integrated amp (£800), or the basic pre/power combo if you can stretch to it, with the CD20R CD player (£1,249) to follow.

It's also worth investigating Roksan – a Caspian integrated bi-amped with a Caspian power (£1,290), adding the Caspian CD (£895) at a later date.

O TAG McLaren's 60i: plenty tough



source impedance.

SMOOTHER DIGITS



My system consists of a Denon DRA-275R receiver, B&W DM302

speakers and Ixos 6003 speaker cable. I need a CD player to add to the set-up, and I'm trying to decide between an Arcam Alpha 7, Denon DCD-835 and Marantz CD-63II KI-Signature. Which would you recommend?

The completed system should have an easy-going presentation and good bass. I've heard certain Marantz players before, like the CD-63SE, which sounded harsh - would the KI-Signature perform any better? Or would I be better off going for the Denon player to improve compatibility with my existing amplifier? CT, via e-mail

If you're in the market for CD player under £400, the three models you mention are leading contenders and none could be described as overtly harsh.

Let's look at them individually first, the Arcam. At £330 the Alpha 7 is certainly a favourite, a substantial and level-headed player that slots easily into a broad range of systems. It's not musically fussy either, so overall it's a good bet.

The Denon DCD-835 is another highly-rated player which would save you £50 on the Arcam. Don't

simply choose it because it's a Denon, though – buying products from the same manufacturer doesn't necessarily guarantee perfect compatibility.

Designs from a single stable can differ dramatically, while mixing the sonic strengths of different brands (with the benefit of a proper audition) can pay real dividends. That said, it's an excellent player and certainly one to hear, although we'd put it marginally behind the Arcam sound-for-sound.

As for Marantz, there are few CD player ranges that split hi-fi fans so firmly down the middle. Some love their typically precise-sounding nature, others (like you, it seems) are less impressed. You're obviously not put off enough to reject the CD-63II KI-Signature out of hand, however, which is probably a good thing as this £400 player is arguably the strongest player in the company's range in value terms. It's particularly good with acoustic music, but if you're more of a rocker we'd give the Arcam the edge.

Don't forget to budget for a good pair of interconnects, too. Go for a smooth, natural sounding cable that won't exaggerate any particular frequency area, like van den Hul's PB5 (£50).

O Denon's DCD-835.



WADIA THINK?





I'm in the process of upgrading the following system: Adcom GFP-750

preamp and GFA-545 power amp, Klipschorn speakers and a cheap Sony CD multiplayer. The weakest link is obviously the CD player.

Should I get the Adcom DVD player for future home cinema and for the ease of use with a common remote? Or is something more exotic like the cheapest Wadia going to make a big enough difference to justify the expense?

I also need a tuner, but exactly which one? How about a Denon TU-260L with an amazing antenna, rather than a more expensive tuner?

Dr. George Xaritatos, Greece

We haven't heard the Adcom DVD player as yet, but for CD replay the most musical-sounding DVD-V player to have passed through Choice towers so far is Denon's DVD-5000 (£1,600). However, even that isn't a match for a good quality CD player at a similar price.

O You get what you pay for when it comes to CD players. If you've got buckets of cash, try the Wadia 830.

What's more, if you've got enough money to spend on a player like the entry-level Wadia – the 830 at £3,000 - then you're really talking a different league.

It's taken CD technology nearly two decades to get where it is today, and if it's CD replay you're after then a top-notch machine like the Wadia will sound vastly better than your Sony multiplayer, provided that the rest of your system is up to the task. It'll also comfortably outperform any DVD player currently on the market.

Of course, we might change our tune when the 'universal' DVD-Audio/Video players hit the market, but for now a top-ranking CD player still sounds a cut above.

Your theory about tuners has a great deal of sense to it - a well-performing model is nothing without a good aerial. But it might be worth looking a little above the budget Denon you mention (now in MkII form). Try Pioneer's F-504RDS Precision (£300) or Creek's T43 (£400) for size.

CD - THE NEXT GENERATION



I need to replace my ageing, first generation Philips CD player.

Limited choice in New Zealand means I will probably buy in the UK but won't be able to listen to the replacement with my current system - a harman/kardon PM-655 amp with Monitor Audio Monitor 4 speakers, bi-wired with Gale XL250 cable.

The speakers give good bass in my 9x5m room, but are a little thin in the midrange, as noted in your review. Thus, I'm looking for a warmish yet detailed and spacious player to compensate, with a budget of around £500. My shortlist so far is the Musical Fidelity A2 or E624, Sony CDP-X3000ES and Marantz CD-63II KI-Signature. And how about the Cyrus dAD1 or 3? I'm not keen on the Arcam's cosmetics.

Also, can you recommend some appropriate flat speaker cables? They have to run under carpet across a doorway. Guy Hallwright, New Zealand

Of the players you're considering, the Sony CDP-X3000ES (£500) is a tempting prospect, particularly if you're after something a little different. It looks great, and its interchangeable digital filters give the user a degree of control over its already excellent sound.

The similarly-priced Musical Fidelity E624 is arguably even better, offering a fluid and transparent delivery that shoots it straight to the top of our £500 wish-list. If you

need an 'instant' recommendation, the F624 is a sound bet to meet your requirements. You discounted Arcam for personal reasons, but have you considered the Pioneer PD-S505 Precision? It's a superbly subtle-sounding player delivering excellent soundstage depth. As for the others you mention, The Cyrus dAD 3 (£598) is a decent machine but may sound a little thin for your taste, and you can check out how the dAD 1's replacement, the dAD 1.5, fares elsewhere in this issue.

Cable-wise, check out the DNM's Reson (£6.95/m) and Audioquest's F-14 (£2.20/m).

O In at number one: the E624.



HINTS & TIPS

When CD first came out. most of us thought it

wouldn't be receptive to some of the tweaks that seemed to benefit LPs. But quite the opposite is true.

Ringmat Developments' Statmat is just one very simple yet worthwhile way of subjectively improving CD sound. A thin circular plastic sheet with special black-coloured dye patterns and holes stamped on it, it's a product that looks mildly improbable. But it sure 'nuff makes a difference.

Placed on top of the CD, the makers claim Statmat works by controlling electrostatic charges that occur as the CD spins at high speed in the player. Now in Mk-III guise, Statmat improves detail, sharpness and resolution, along with timing, allowing you to hear the interplay of voices and instruments with greater clarity. It's easy (if a bit fiddly) to use, and is compatible with most CD players.



$\langle \rangle$

FLOOR IT!



My system comprises a Philips CD-721 CD player, Technics

SU-VX500 amp, and a 25-yearold Pioneer CT-550 cassette deck. Interconnects and speaker cables are nothing special.

I want to change the speakers, and my goal is a big, detailed sound with real, deep bass, but without boom or boxiness. I'd prefer floorstanders, and I'm thinking about the Magnat Victory 6, Tangent Monitor 9, Tannoy Mercury 3, Wharfedale Valdus 500 and Gale 4i. Any other suggestions?

I listen to many kinds of music and make lots of recordings (I want to upgrade my tape deck, too). My room size is 3x4.5m, and my budget is up to £300. Francise Biro, Romania

There are limits to what can be achieved at an 'entry level' price, and 'real, deep bass without boom or boxiness' is a rather tall order for floorstanders under £300. That said, there are certainly some satisfying music-makers around for this kind of money, some of which you yourself mention.

From those, bearing in mind you need a musical all-rounder, we'd go for either the Tannoy Mercury M3 (£230) or Tangent Monitor 9 (£150), or even the Tangent's bigger brother – the £200 Monitor 11. The Tannoy is the smoother of the two, with strong midrange

talents, but the Tangents are a more involving listen in terms of pace and rhythm. The final choice is down to your own preferences.

If you can stretch your budget a little, the £350 Acoustic Energy AE109 is a good bet for strong bass, and KEF's Q35 is another popular choice for the same money. There are also a couple of new, as yet untested speakers that may be worth looking out for: the Mission 773e (£400) and Acoustic Energy Aegis Two (£250).

You should also consider some decent budget cables – say, QED Qnect 2 interconnects (£30) and Tara Labs Klara speaker cable (£2.95). As for your tape deck, maybe it's time to move into digital recording: check out our group review elsewhere in this issue.



SCOTS MYSTIFIED



I swapped my Ruark Icons for a pair of Acoustic Energy AE1s,

but after a couple of weeks' listening I'm disappointed in the small scale of their sound compared with my old speakers. I've got them bi-wired on AE stands, but they sound too harsh.

I'm running them with a Thorens TCD 2000 CD player and Thorens TTP 2000/TTA 2000 pre/power amp. Could it be that the amp's 30W power output is too puny? John Gray, Edinburgh

The AE1 is a classic small loudspeaker which has given many audiophiles real pleasure since its launch. But it's also notoriously unpredictable: at best it's superbly crisp and dynamic; with the wrong partnering gear and siting it can all fall apart.

As you rightly surmise, it's a speaker that needs amps of real quality and a fair degree of power to get it working at its best. Your Thorens is a reasonable little pre/power combo, but it's clearly not doing the job. The best I've heard them is on the end of a rather more powerful and fluid-sounding (not to mention larger) Musical Fidelity 'F' series power amp. If you're in the mood for an upgrade, check out a specialist high-end dealer and try a few alternatives with the AE1s attached.



O Acoustic Energy AE1 Signature.

We assume you've already experimented with siting. If not, it's well worth spending the time trying different positions in relation to the backing wall, and also different degrees of toe-in. You may find that image focus and overall tone improve quite dramatically as a result. You should also make sure your cable is up to the task, though changing things in this department won't magically fix a fundamental mis-match of components.

Rest assured, you've got your hands on an excellent pair of speakers. Work with them – eventually, you'll reap the rewards.

10

HINTS & TIPS

If one of your speaker drive units develops a bit

of a rasp, giving a rough grating quality of sound especially at low volume levels or on strong bass notes, chances are it's the side of the voice coil rubbing on the magnet. It can affect any moving coil drive unit, regardless of size or type. Since the voice coil fits in a very narrow circular gap, it doesn't take much displacement to make it touch the sides.

In some cases the only solution will be to replace the drive unit with a new one. However, it may be possible to effect a cure by simply removing the offending drive unit from the speaker cabinet and turning it though 180 degrees so it's upside down. This allows gravity to assist in realigning the

voice coil in the gap. It's an old trick, but it might just work...

HI-FI CHOICE

6

My system comprises of a Pink Triangle Little Pink Thing turntable with

Rega RB300 arm and Denon DL304 cartridge, Pink Triangle Litaural CD player, Alchemist Forsetti amp and Castle Durham II speakers.

I realise I need to change my speakers and would be grateful if you could offer suggestions. My room is 12x8ft, although I'd like the speakers to have the potential for a bigger area. I listen mainly to jazz (Miles Davis, Bob James) and female vocals, and a friend has suggested ProAc Response 1.5 or 2.5. Eric Gray, Hertfordshire

Your friend has made a decent recommendation, Eric. Both ProAcs are articulate and coherent speakers, delivering a relaxed style of music-making likely to suit your self-proclaimed taste. What's more,

GETTIN' JAZZY WITH IT

your 100 Watt Alchemist amp should drive them well. As for further ideas, how about the following:

B&W's Nautilus 800 Series is an essential listen, with the stand mounting 805 (£1,400) probably the best bet: it won't swamp your smallish room, yet can easily work in the larger spaces you intend to occupy in the future. As for its sound, smooth, detailed and accurate just about sums it up.

Another option that should suit your requirements is the Italian-made Academy Millennium 2 (£1,800), offering a snappier and arguably more involving



balance than the aforementioned B&W. Likewise, it should work OK in your current space, with plenty of potential to fill larger areas in the future.

Lastly, see if you can find a pair of Living Voice Auditoriums (£1,500). They're extremely elegant floorstanders with a remarkably dynamic and spacious sound, and they work well in a variety of room sizes, although they need careful positioning to give of their best.

O Living Voice Auditorium.

EXPOSING ONE'S SPEAKERS



My system consists of a Marantz CD-63II KI-Signature CD player,

Exposure 7/8 pre/power amps, Tannoy Mercury M1 speakers, QED Qudos speaker cable and Cable Talk Monitor 2 interconnects. I bought the Exposure amps second-hand and although they're nearly 20 years old they're a great improvement on the Marantz 55SE I had before.

What I want to know is: what would you recommend as my next step forward? I listen in my bedroom, which measures 2.5x3.5m.

Michael Hicks, Birmingham

We're glad to hear that your amp upgrade has paid such dividends. Of course, now you've taken a few steps up the ladder in that area, the unmistakable 'upgrade-itis'

has taken its inevitable hold. So what next?

We'd go for the speakers. Your little Tannoys are excellent budget buys at £120, but a good pre/power amp like the Exposure requires something more to really reap the benefits. Given that you're listening in a bedroom, and space is at a premium, you're best going for a pair of small monitorstyle speakers, similar in size to your Tannoys but offering a higher standard of performance. Check out the Dynaudio Audience 40

(£400) and AVI NuNeutron (£500), both of which were reviewed last month. ProAc's brand new Tablette 2000 (£649) might also be worth seeking out, and if you can spend a bit more, have a listen to the Dynaudio Contour 1.3 MkII (£1,198) and Jamo Concert 8 (£1,365).

Don't forget to budget for suitable stands and cable, too – something like a pair of Partington A-4 stands (£119) and Kimber 4VS speaker cables (£9/m). Also, make sure that the electronics are properly supported. Then, when the time is financially right, consider upgrading your source component – until then, your Marantz will do a more than acceptable job.

O Dynaudio's Audience 40.



HOOKED ON DENON



I'm interested in buying a

completely new hi-fi system to replace my 15-year-old Hitachi stereo. I'm after a CD player, MiniDisc recorder and amplifier to partner a pair of floorstanding Revolver speakers given to me as a present.

I'm particularly interested in Denon gear. Could you please advise me as to the best options for both Denon and other makers, and whether you would advise me to mix manufacturers? My budget is about £1,000. Jayesh M Bharadwa, Middlesex

Buying a system from a single manufacturer is the simplest way to buy a separates system — it's a one-stop purchase and you're on safer ground compatibility-wise, not to mention having the benefits of a closer aesthetic match. On the other hand, mixing and matching different makes takes a little more homework, but given patience the rewards can be even greater: the best of both worlds!

If the thought of Denon particularly excites you, then try the following: DCD-835 CD player (£280), PMA-350SE amp (£180) and DMD-1000 MiniDisc recorder (£300). They're all good entry-level components, and there's no



O Sound Organisation Z545 stand.

reason why they shouldn't work well together. As for the rest of the money, spend it on a decent purpose-made equipment support like the Sound Organisation Z545 (£150) and good budget cables – Cable Talk Talk 3.1 (£2.25/m) speaker cable and QED Qnect 2 interconnect (£30) would do fine.

Still following the one-make concept, you should also look at Sony and Pioneer, using our Directory at the back of the mag as a guide, or perhaps team an Arcam or Marantz CD/amp partnership with a MiniDisc player like Sony's MDS-JB920.

A MATCH MADE IN HEAVEN?



I've just bought the Arcam Alpha 9 CD player after the review in your

March issue. I quite fancy the Arcam 10 amp to go with it, and perhaps the JMLab Tantal 515, Mission 774 or 752 Freedom speakers for use in a room measuring 18x11ft. I listen to 70 per cent dance music, 20 per cent jazz and 10 per cent classical. I want deep bass extension plus detail and clarity, with clean treble and a smooth midband. What do you reckon? Chris Leahy, via e-mail

The Alpha 9 is a serious CD player at £800, and the identically-priced Alpha 10 amp is an obvious choice of partner. You get a strong visual match for a start, together with an assured sonic performance and the reassurance of a degree of

future proofing via its plug-in modular approach. If you decide you want to add home cinema to your system, for example, you can simply buy a plug-in multi-channel board and convert the amp with ease.

However, if that's not a priority, there are a number of amps that perform a little higher up the sonic scale for similar money. Try the Musical Fidelity X-A100R (£999) and Roksan Caspian (£695), both of which will add a touch more sparkle. It's also worth investigating one or two pre/power amps from the likes of Creek (P43R/A52SE, £949) and

Musical Fidelity (X-pre/X-A50 x2, (£700) and Arcam itself (Alpha 9C/Alpha 9P, £800).

Of the speakers you're looking at, we'd probably go for the Mission 774 (£500). Given your balance of musical priorities, its firm bass, incisive treble and well-formed midrange is likely to suit best. It's also worth checking out the Kelly KT2 (£700) and Triangle Zephyr II (£599), and look out for B&W's new 600 Series 2 for some other likely candidates.

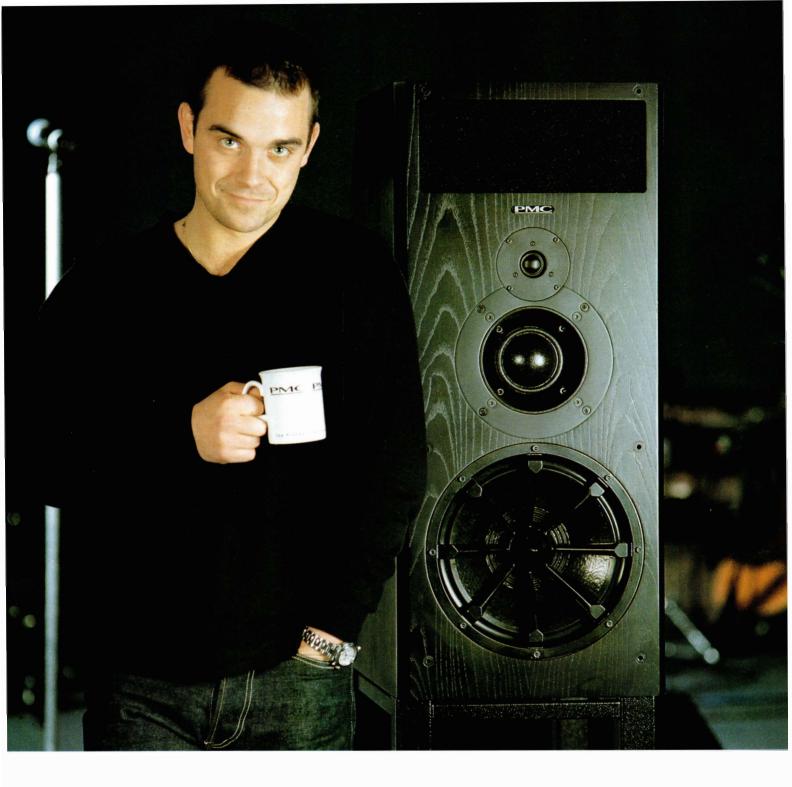
O Creek P43R/A52SE.



HINTS & TIPS

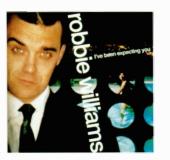
When you've got a well-matched compatible system, with no obvious weak links, and upgrade time comes, it can sometimes be difficult to know what to change first to get the biggest improvement. If you've unlimited reserves of cash and can afford to buy exactly what you want in one hit, there's no problem — apart from choosing the right components to replace what you've got.

If, however, you're a bit strapped for cash (like most of us) it might be best to let price be your guide, upgrading a component because it happens to be on special offer or one turns up at a bargain price second-hand. You may (temporarily) have a an unbalanced system – say an expensive set of loudspeakers with a modest amp and CD player – but at least you're on the road to getting the system you want.





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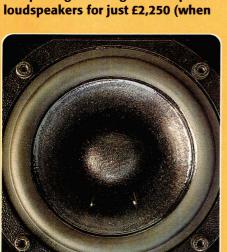
COMPETITION



WIN ATC'S QUARTER CENTURY PACKAGE

ATC is celebrating its 25th birthday in style by giving away its integrated amplifier and a pair of loudspeakers to a very lucky Hi-Fi Choice reader.

pgrade your hi-fi system with this months fantastic high-end competition prize give-away. With a strong reputation in the professional sound arena, **Gloucestershire-based Acoustic** Transfer Company (ATC) have an enviable heritage of no-compromise electronic design and manufacture. ATC is well known in hi-fi circles for its active loudspeakers. To celebrate its 25 year milestone the company has put together this special highend package of integrated amp and





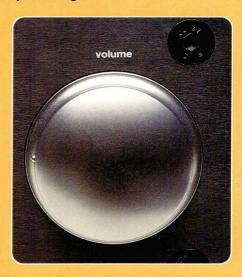
purchased as a package). Choice has secured the combination for one lucky, lucky reader.

The first correct answer out of the bag will win its sender a SIA 2-150 stereo integrated amplifier plus a pair of SCM 10 loudspeakers.

The SIA 2-150 is a monster integrated, retailing for £1,984 and delivering 150 Watts per channel, which should be sufficient to reproduce realistic listening levels in virtually any domestic situation. Besides its sheer power it's also a tender performer capable of conveying gentler extremes of the music with sensitivity and detail.

The amp provides four RCA line inputs and one tape loop. The addition of a remote control and a motorised volume knob makes for convenient arm-chair listening.

Speakers are a pair of lovingly hand-crafted SCM 10s worth £1,240 - a 38cm stand-mounter featuring a 12.5cm mid/bass driver and finished in a sumptuous rosewood veneer. Partnered with the SIA 2-150 amp, they provide a dynamic and transparent sound. And for the price of a stamp they could soon be filling your living room with music.



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

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What does ATC stand for?

- a) Audio Technology Company
- b) Acoustic Transducer Company
- c) Advanced Technical Centre
- d) Audiophile Transmissions Conglomerate

Which anniversary is ATC celebrating?

- a) Millennium
- b) 25th
- c) Ruby
- d) 250th

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- 1) The Closing Date for the ATC competition is First Post, Thursday 24 June 1999
- 2) Winners of the ATC Competition will be judged from all correct entries submitted, and
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- magazine, you may send a photocopy of the page instead. Please note: only one entry

CHFC 906A

FERENT Note



ords like 'neat' and 'convenient' tend to be anathema to audiophiles. They reek of hollow, low-fi compromise, of plastic mini (turn) and micro systems (spit), not the glorious pursuit of real hi-fi sound. Domestic accord isn't the priority, if it takes a rack of dreary boxes the size of a baby elephant to attain the sound you crave, then so be it.

Verily, this is the natural order of things for those who care about how their

music sounds. But what if one could attain a true 'highend' sound from boxes of a more diminutive stature; a 'neat' system in keeping with the miniaturised modern aesthetic? Would that change the perception of even the most hardbitten audiophile?

Of all the companies one might imagine undertaking such a mission, Audio Note is probably the last that springs to mind. It's not that this high-end valve stalwart has a particular reputation for big, brutish hi-fi. One just wouldn't expect the making of microsized components to be high on its list of priorities. Yet its new Zero Series system has five shoebox-sized component pieces at its foundation, each one just 22cm wide.

> To spin those discs, there's a two-box CD player comprising CDT Zero transport and DAC Zero digital-toanalogue converter. The units are available separately, at £399 and £369 respectively.

The other three boxes make up the amplification: the M

O Sturdy speakers complete the entry-level Zero range at prices from £299 to £669.

"The act of splitting the CD player and amp into five separate components, each housed in its own aluminium extrusion, makes an important sonic contribution."

Zero preamp at £299 and the P Zero mono power amps at £599 per pair. Valve technology is extensively featured, in line with Audio Note's tradition. and there is a choice of black or silver finishes. Three speaker options complete the range, with prices ranging from £299 to £669.

Of course, the act of splitting the CD player and amp into five components, each housed in its own aluminium extrusion, makes an important sonic contribution - it helps isolate delicate signals from nasty electromagnetic fields.

But this system's undoubted aesthetic qualities were also high in its designers' minds. As Audio Note Managing Director Peter Qvortrup put it: 'The market is looking for something small, practical and modular, offering long life and real value for money'.

THE CD PLAYER

The CDT Zero/DAC Zero two-box CD player is clearly an unusual beast. For a start, few transport/ DAC combinations look this neat, and fewer still weigh in at just £768 per pair. What's more, like other players in Audio Note's portfolio, the DAC uses a valve to promote a smoother, less processed sound. There's a 6111WA sub-miniature valve in its output stage (see inset) and a Burr-Brown 24-bit/96kHz converter chip at its heart, while the transport packs a Sony-designed mechanism inside its neat little frame.

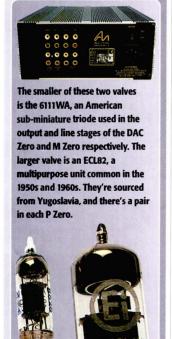
The result in sonic terms is considerable smoothness and fluidity, successfully avoiding the harsh edginess that Audio Note clearly believes is a common but unnecessary CD trait. Its midrange is full-bodied and it endows music with a strong sense of ambience. despite being a little muted in the treble. However, bass lacks a degree of definition and drive, and in an unsympathetic system its performance is short of momentum.

As an individual component to slot into an existing set-up, it should be approached with caution. With some amps it simply won't perform, notably those with lowish input impedance around 10 to 20kOhm, but in an Audio Note system context its performance gains a new perspective.

One awkward feature of the transport's design is the omission of controls on its fascia. The only way to perform even basic operation is via the remote, so if you lose it... It might make sense visually and economically, but in practical terms it's a no-no - a fact that affects its mark for build.

THE AMPLIFIER

As a three-box amp combo, the M Zero matched with a pair of P Zeros is as cute as they come. And a combined price of £898 makes it very affordable for an amp of its kind. Each power



amp houses a pair of ECL82 valves and has a quoted power of 8 Watts, while the preamp incorporates a sub-miniature valve in its line stage.

Just four line-level inputs and a tape loop are supplied, so if you're hoping to hook in lots of other sources, be warned.

Performance is notably more lively than that of the CD player, with definite strengths in the dynamic resolution department - a typical Audio Note trait. Its communication skills are considerable - able to impart notes and rhythms with a tactile quality, it presents the whole thing with a fine sense of timing through the midrange.

The M Zero is a little let down in the bass department, showing some of the stodginess often sited by critics of valve technology, and there could perhaps be a little more buoyancy in the treble. But the net effect is still persuasive, and when combined with their undoubted visual appeal these amps do much to tempt the musical palette.

THE SPEAKERS

The speaker pairing supplied for this review is the first to emerge from the soon-to-be three-strong Absolute Zero range. Priced at £449, the AZ-Two is the mid-range model - a 90cm high floorstander incorporating a 15.5cm paper mid/bass cone and a 20mm soft dome tweeter.

Its look is perfunctory, in keeping with Audio Note designs of the past, but rather out of touch with the aesthetic qualities of the electronics.

Bass loading is described by its designer as a 'quasi-quarterwave horn', exiting via a mouth to rear of the cabinet. Unlike most speakers, its operation dictates a position as close as possible to the rear wall for optimum bass response, preferably tucked into the corners and toed-in. How practical this is depends on the layout of your room, but if space is limited you may find them a boon compared with freestanding designs.

In terms of sound, this review is concentrating on the electronic components and the system as a whole (with these speakers attached), so I'll leave a detailed analysis of the AZ-Two's individual sound until we can include it in a

speaker group test. Suffice it to say that its fast and dynamic character is typical of the brand and, with a quoted efficiency of 92dB, it's particularly suitable for partnering with a valve amplifier.

THE COMPLETE SYSTEM - SOUND QUALITY

There's a common perception among many hi-fi buyers that, by definition, components using valve amplification sound warm and relaxed, in a 'pipe 'n' slippers' kind of way. That's not always the case.

True, one of the breed's identifying characteristics is often a lack of drive in the bass, but put together the right components and the listener can be amply compensated by delightful energy in the mid to treble region.

This system is an ideal example. The way these components work together ensures an effusive, effortless midrange character, enough to give music a wonderful sense of life and purpose. It involves the listener from the very first note and is blessed with the kind of dynamic resolution that pulls the listeners' ears towards the music's very core and begs for complete attention.

The day Audio Note brought this system for my perusal I was in dire need of cheering up -Arsenal had lost to Manchester United in the FA Cup semi-final and life was looking bleak. I hooked it up with the maker's own cable, set the speakers as close as I could to the corners of the room, and settled down.

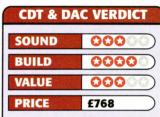
Several CDs later I emerged with a huge grin on my face: I'd gone through indie, classical, deep house, acoustic jazz and back to indie again, and I found the results compelling.

Sure, there were elements of its sound that could be criticised on closer inspection. Bass lacked some authority and drive, in true valve tradition, and treble seemed a little pinched; voices became a touch hard and shrill with the volume pushed up and imaging wasn't exactly pin-sharp. But the energy and texture with which instrumental sounds were conveyed, showing me their shape as well as their tone, kept me glued to my chair. From Paul Westerberg to Steve Reich, I found it a truly tactile listening experience.

CONCLUSION

It's not the first time a 'quality' brand has tried this approach. The likes of Denon and TEAC make mini systems with a semblance of proper hi-fi sound, while Cyrus has been making high performance shoebox-sized kit for years, not to mention Musical Fidelity's ever-growing 'X-A' range. But a complete, five-box 'micro width' system using valve amplification for about two grand? That's something distinctly different.

You might say it's a sign of our convenience-obsessed times. You might even say that hiding valves in boxes so small is a waste of their glowing aesthetic potential. But by producing a whole system at this price, and by making it so small and tidy, Audio Note is potentially opening up the distinctive sound of valves to a much wider audience. It's 'neat', it's 'convenient' and, if its components are used together, it gives great value for money.



An unusually smooth-sounding two-box CD player with an impressively fluid sound in the right system. Needs to be partnered with care.

AMPLIFIER VERDICT

| SOUND | 0000 |
|-------|-------|
| BUILD | 00000 |
| VALUE | 00000 |
| PRICE | £898 |

A wonderfully neat three-box valve amp, able to impart music with real life and soul. A little sluggish in the bass department, though.

OVERALL VERDICT

| SOUND | 00000 |
|-------|--------|
| BUILD | 00000 |
| VALUE | 00000 |
| PRICE | £2,115 |

great value for money an engaging and tactile valve-based sound at a very reasonable price.

ONE YEAR GUARANTEE

BABY Snails

Jason Kennedy finds small doesn't necessarily mean less with B&W's Nautilus speakers

efore launching into an appraisal of the smallest of B&W's Nautili. I should point out that I carry a bit of psychological baggage when it comes to this variety of loudspeaker. This is as a result of using a pair of Nautilus 802s for the past seven months or so.

This has both pros and cons from the 805's perspective. The good bits include a hi-fi system that has developed to suit the Nautilus style - that is, powerhungry - but the drawback is that the bigger speaker has spoilt me and appreciating the quarter-the-price 805 isn't as easy as it might otherwise be.

The N805 is a two-way standmount design that incorporates the much-vaunted Nautilus tweeter and the standing wave-dispersing internal bracing from the previous Matrix range. The cabinet is an elegant and beautifully finished thing, the veneer on both curved sides and domed top making it rather more attractive than the average standmount speaker.

At £1,400 it's pretty expensive for a small British loudspeaker - there are a few alternatives, such as the AE1 Signature, a ProAc and a couple of others that cost more, but it's in pretty rarefied company. That said, the cabinet construction is easily the most complex - wooden curves cost money. Why do you think they're so scarce?

The drawback with its stature is the added cost of a decent pair of stands - scrimping in this critical area makes the exercise rather pointless.

I started off with a pair of Kudos S100s (£270 but, sadly, no longer in production) and progressed onto Grahams Hi-Fi's recommendation of HNE granite units that cost the better part of £500. I would think the least you could get away with would be the

O The tweeter's 'exhaust' allows for reflection free energy dissipation.

£150 asking price of Atacama's R724s, so budget accordingly.

SOUND QUALITY

I think enough has been written about the Nautilus series for me to be able to skip most of the technical stuff, but it's probably worth noting that the 'exhaust' tube on this N805's tweeter housing allows rearwards energy from the diaphragm to be dissipated without fear of reflection. The alloy tube also acts as a heatsink for the driver

This tweeter housing is not exactly like the N802's, but it features the same 25mm dome.

"What the N805 really shines with is midrange detail; voices, guitars, reverb et al come through with great clarity"

The mid/bass driver is a 165mm Kevlar device.

I used the N805s on the end of my usual SME 20A/Wb Carbon, analogue, and AP Eikos, digital, front ends and powered them via a DNM 3C Twin preamp and Cyrus aPA7 monoblocks, with cabling courtesy of DNM and Electrofluidics.

The step down from the N802s was inevitably a compromise, but this little speaker put



What the N805 really shines with is midrange detail; voices, guitars, reverb et al come through with great clarity, and it does so without resorting to brightness (has B&W ever made a bright speaker?). Bass extends to 49Hz (-3dB) according to the specs, which is enough for most instruments.

ing audio-visual precision.

Despite their forwardfiring port, they do like a bit of space in which to create acoustic space, if the bass is to remain controlled. They also like a bit of power if you want to really kick it, but aren't as difficult as the N802s - a point proved by the harmonious partnership they made with a DNM PA3 power amp (45 Watts).

This combination had a remarkable effect on detail: obscure lyrics suddenly made sense and all sorts of nuance appeared. If I were to carry on using the speakers I suspect that this is the combination I would use. Until I wanted to play more Sly and Robbie, that is.

Shifting from Kudos to HNE stands (above) was also interesting, these custom-made 20kg units inspiring an increase in tunefulness and bass solid-



O Beautifully veneered with curved sides and domed top: it's a total babe.

ity, as well as an unexpected upgrade in tonal contrast.

I did occasionally miss the sheer SPLs that the big N802s can deliver, but I've been spoilt in this respect and appreciate

> the fact that this speaker will deliver the right balance of energy at normal listening levels. Playing at 100dB+ is great if you live in a castle, but is not so wise in the urban environment.

CONCLUSION

The N805 is an energetic little speaker - what it lacks in muscle, it makes up in enthusiasm and

resolving power. In many ways it's a domesticated version of the N802, it sounds right at lower volumes and is guaranteed to invigorate even the most tired of music collections.

If you're man enough to use a standmount, there are few that can compete with this on both sound and looks.



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THE BEAT Generation

Lee Dunkley listens to Densen's latest Beat box – the virile and versatile B-200 preamplifier.

o need for a workout at the gym then, I thought to myself as I lugged the weighty Densen boxes out of the boot of my car and up the stairs to my first floor flat.

With my previous employers, at the Consumers' Association's Research & Testing Centre for Which?, there was little exposure to product manufacturers. And so it was with some trepidation that I met Densen's UK agent and embarked on my first review for Hi-Fi Choice.

The Beat B-200 preamplifier retains Densen's characteristic bold, black styling and its penchant for enormous brass controls - although there's just the one this time, for the volume. Four small buttons adorn the brushed-alloy facia, located symmetrically either side of the volume control. Two are step up/down controls for selecting the desired source, indicated by a row of small LEDs along the facia top.

Despite these rather pleasing aesthetics, switching between sources was a little awkward due to their positioning on either side of the large volume control. However, I'm sure familiarity will remedy this over time.

The volume is a motorised control that fades to zero or returns to the memorised level when one of the other buttons, 'standby' and 'processor', are selected/de-selected.

The B-200 is well equipped with a bank of gold-plated RCA connectors, four line level inputs - one of which can be converted to an MM or MC input - and two tape loops, but no tape-monitor facility.

Additionally, a 'processor' loop is provided for integrating the preamp and speakers into a multi-channel system. The four 'active' preamp outputs enable bi, tri or even quad-amping, while the RS232 port allows for future multi-room component linking.

Densen says that an optional aluminium cased system remote control will shortly be available for an additional cost of £100.



"The Densen was so involving that on more than one occasion I found myself captivated and attempting to sing along - an accolade if ever there was one."

Under the lid, the B-200 has two separate power supplies, one concentrating on the audio circuits while the other supplies the function switching and motorised/memorised volume control.

The B-300 stereo power amp makes up the power end of the combo, a zero feedback design providing 100 Watts a side. We originally tested it in a bi-amp combo with the Beat B-100 integrated amp in issue 183.

SETTING UP

Bi-wired Ruark Equinox speakers were used along with Nordost Flatline speaker cable and interconnects between

O There's just the one enormous brass control adorning the brushed-alloy Densen fascia this time, for the volume

components. In selecting a source I auditioned two players: the Densen-recommended Naim Audio CD3.5 and the NAD S500, an Editor's Choice from HFC 189. I selected the NAD as the optimum source, preferring its bass grunt and altogether more involving music producing abilities. A Cyrus aCA7 preamp and its PSX-R power supply were brought in as a reference point.

Listening was initially conducted with a single B-300 power amp. However, Densen recommended bi-amping for improved stereo and smoother treble, so I gave it a try. It was as if the system had awoken, with revitalised vocals, clear, precise positioning of instruments, openness and an increased level of involvement.

SOUND QUALITY

The Densen exudes an air of competence in all quarters, delivering an engaging and

addictive level of involvement and enjoyment that wasn't apparent to me through the Cyrus. Madonna's Ray of Light album gives a wide open soundstage and the B-200's precision placement allowed each instrument to be picked out. Bass, in particular, was deep and rhythmic without being over-bearing or fatiguing.

Annie Lennox's Diva CD presented a natural, well balanced performance enticing me to listen more and more. Björk's Homogenic transported one on a hypnotic and escapist voyage, while the Oleta Adams track, I've Got a Right, was utterly believable in conjuring up the rich smoky atmosphere of a downtown jazz bar.

In fact, on more than one occasion I found myself completely captivated and attempting to sing along - an accolade if ever there was one.

CONCLUSION

So then, does the Densen Beat B-200/B-300 combo live up to its maker's philosophy of conveying the emotions of the music? The fact that I listened to CD after CD of varying styles, from classical to pop and jazz, is testament that the pre/power pairing does, without doubt, achieve this goal.

Its engaging performance and sheer musical involvement demonstrates Densen's 'air guitar' factor, if my launch into song is anything to go by.

I believe you will find this a well matched combination that holds your attention and gives your ears an invigorating workout - whatever your musical tastes.



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HIGH-END TEST ELAC CL 310i JET

IET SET Go

Tim Bowern wings it with the CL 310i JET, **ELAC's first speaker to** reach UK shores. It's small, but is its sound perfectly formed?

ver heard of ELAC? Unless you've been keeping a close eye on developments at recent hi-fi shows, there's no reason why you should. Despite having a significant profile elsewhere, this German loudspeaker brand has had no presence in the UK - until now. Compatriot company Sennheiser believes the time is right for a foray into our notoriously tough and crowded market, so it's using its established distribution network to bring ELAC to UK consumers. Here is the first product for our consumption: a miniature speaker with a lengthy name, the CL 310i JET.

Sennheiser reckons ELAC's products are distinctive enough to forge their own niche; on this evidence it may be right. The CL 310i JET is a tiny speaker - considerably less lofty than its price tag suggests and decidedly unconventional alongside the wood-finished floorstanders and substantial standmounters that dominate its price competition.

In fact, one might well doubt the material value of an £800 speaker measuring just 20.8x12.3cm front-on, but that would be missing the point it's precisely this speaker's diminutive size, and the resultant nature of its engineering, that makes it so fascinating.

The question is: is it possible to get a sound of high-end scope and scale from a box this small? Many have tried, many have failed, but ELAC's approach is unusually well specified. To help lift the sound 'out of the box', it has employed its own

area of a standard 25mm dome. Tweeters of this type are typically clean and transparentsounding, an important contribution when attempting to produce a performance much bigger than the cabinet size would suggest.

The mid/bass drive unit is another proprietary design, employing a diaphragm made from 0.2mm-thick alloy bonded to doped paper. It's intended to be both light and rigid, and uses a long-throw motion (up to 2cm from end to end) to compensate for the air-shifting limitations posed by its small (8cm) diameter. The cabinet is ported at the rear and made

"Is it possible to get a sound of high-end scope and scale from a box this small? Many have tried, many have failed, but ELAC's approach is unusually well specified."

from 6.5mm-thick extruded aluminium, apparently to form a rigid, low resonance enclosure, although I suspect aesthetic reasoning also comes into it - it's finished in a choice of black, white or silver lacquer, with a limited edition blue.

SETTING UP

ELAC supplies its own 80cm high stand for the CL 310i JET, a two-pillar affair sporting a matching finish and a price tag of £200. A wall-mounting option is also available, but not recommended for optimum performance. It works best in free space, although its size might suggest otherwise, and each speaker should be well spaced apart with a toe-in towards the listener.

It's quite a demanding load, as one would assume from a

nominal 4 Ohm impedance, and well-powered amplification is essential.

I tried three different amps with varying



degrees of success - Pioneer's A-400, Musical Fidelity's X-A1 and the A1001, also from Musical Fidelity. The £2,500, 200 Watt A1001 was the best suited by some margin.

ELAC's UK contact suggests several lower cost options, with bi-amped Arcam combos particularly recommended.

SOUND QUALITY

The CL 310i JET is a largely aesthetically driven product. Its concept began with a visual image - that of an extremely small and neat loudspeaker and its designers have worked within that constraint to create the best sounding product they can. When judging a design like this, reviewers have to apply a degree of contextual insight: who is the product aimed at, and how successful is it on its own terms?

Within these parameters it's a pretty impressive speaker. It exudes designer chic and 'almost invisible' appeal, yet its sound contains many elements that can realistically be classed as 'high end'. The scope of its performance certainly exceeds preconceptions, delivering impressive dispersion and reasonable scale, and the net effect is likely to raise more than an eyebrow.

Upper frequencies are its most admirable sonic aspect, largely owing to the quality of that ribbon tweeter. There's a fresh, transparent air to its treble that opens out well with acoustic material, and female vocal in particular, affording this diminutive speaker a performance of some stature. Of all the discs used for testing, it was probably most successful with Stina Nordenstam's eerily quiet And She Closed Her Eyes - it

C ELAC's CL 310i JET - a miniature speaker with a lengthy monicker

conveyed her vocal and the stark ambience that surrounds it enticingly well.

Ultimately, though, the speaker's sound suffers some compromise as a result of its size. Bass depth is limited, although it tries gamely to compensate with some quite serious mid-bass thump, and it can't match the impressive extension supplied up top.

Midrange is also a little pinched, lacking the insight to convey the full breadth of texture, and missing the width and grace to really wrap you in a favourite piece of music. It's quite direct, yet heard across a range of music the speaker is strangely uninvolving.

CONCLUSION

Judged simply as an £800 speaker this ELAC has its limits, as the ratings show. Yet it's undoubtedly an interesting and well-engineered product that follows a specific set of design parameters, and within a 'big sound/small speaker' context it's a qualified success. At its best, it's surprisingly good - a designer speaker with a real hi-fi sound.



'JET' ribbon-type

foil forming ten

times the surface

tweeter, its folded

WORLDS Collide

Theta's DaViD transport purports to be the definitive disc reader for both music and movies. Alan Sircom takes the role of Goliath.



redicting just what the next generation of polycarbonate disc will be is a bit of a lottery. Instead of trying to second-guess the future, US high-ender Theta Digital is maximising what's good about the existing CD and DVD-Video formats. The company's £4,650 DaViD player combines CD and DVD transports in an attempt to get the best from both formats.

It is not a complete DVD player, however, DaViD lacks the analogue output stage found in every other machine. Instead, it comes packed with every possible type of digital output (optical connections aren't fitted as standard, but are available as options).

For those who like their hi-fi really pure, the PCM digital datastream (the CD audio data) is delivered from a dedicated coaxial output, or alternatively twinned with 24-bit/96kHz digital audio, Dolby Digital and dts streams from a second coaxial and balanced AES/EBU connection. (MPEG-2 multichannel data is not on the DaViD table of contents, but this European format seems less and less likely to survive.)

O A CD transport is no big thing among the hi-fi fraternity but AV enthusiasts are just starting to realise the benefits. Not only does this cut out a section of digital switching, but could allow the Theta to be connected to a high-quality two-channel D/A converter and a separate AV processor for no-compromise hi-fi and AV sound from the same transport. You could have the hi-fi and AV systems in separate rooms, if the cable were long enough.

A CD transport is now no big thing among the hi-fi fraternity but AV enthusiasts are just beginning to learn that separating the analogue and digital sections within a digital device is a good idea (if jitter can be held at bay). On the picture handling side, it has component, composite and S-video outputs but no Scart socket, revealing its US origins.

It is no secret that the DaViD is a heavily modified Pioneer DVD player. But considering Theta has been altering Pioneer mechanics successfully for several years, and its well-respected Miles CD player (tested in issue 176) and its top of the range LaserDisc/DVD/CD playing Voyager are both Pioneer-based. Theta has included its own digital audio and power supply circuit boards. In addition, it has buffered and re-clocked the digital datastream to keep the demon jitter under the cosh.

"Whether the music is classical or contemporary, you get an unedited impression of instrumental character wrapped up in a thoroughly engaging package."

The buffer effectively becomes the source, while the master clock stores the signal long enough to realign data.

Despite impressive claims by manufacturers, few DVD players can really cut it as a CD player. The Theta DaViD is a noteworthy exception. Hooked up to a D/A converter of appropriate quality, the transport performs on a par with a Meridian 500, and can even outperform this benchmark of a CD transport in certain aspects, which is no mean feat. The two stand shoulder to shoulder in terms of rhythmic abilities; both can keep to a beat well, but are no match for well-designed integrated CD models (including Meridian's own 508.24 and Theta's Miles). They also match one another in terms of soundstaging and detailing, throwing out a wide

and deep soundstage packed full of insight into what is happening in the mix.

Where the two depart is the tonal balance. The Theta DaViD is considerably warmer-toned than most CD transports. This gives music a touch of richness, although not so much as to give the sound a rose-tinted air. At best, it sounds very natural and pleasant and at worst, the Theta sounds — well, posh.

As with a lot of high-end American gear, the DaViD is geared toward an eclectic and diverse mix of musical tastes. So, for systems geared to a specific musical genre such as classical, jazz or rock, it might not shine like a player that has its strengths in the right areas for one of those particular types. But, if your music tastes run through everything from Bach to Beck, and you have a system that would benefit from a slightly warm, albeit naturalsounding source, then the Theta should be in the running.

Finally, HFC isn't really the place to mention the DaViD's exemplary performance as a DVD player, except in passing. But it would be remiss not to draw attention to the superb low-glitch picture. It makes the package the logical move for many a well-heeled hi-fi buff who wants to explore AV without sacrificing sound quality. I just wish the name wasn't such a typing exercise.

VERDICT

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THE TRUTH Is Out There

Paul Messenger looks at how an old-school British brand is helping a new name come to the fore.

eritas is a new name on the speaker scene, but the H3's use of Lowther drive units goes right back to the very earliest days of hi-fi. I first encountered Veritas at the Bristol show in February, and was surprised to find such a large range of models. They're beautifully built and mostly conventional in size, price and driver complement — which is why the Lowther-driven examples particularly caught my attention.

I guess there's a myth around a brand which can trace its links back to the pre-war era, and still makes drivers which look much like the old models, but with strong magnetic fields, light paper cones and dramatic sensitivities.

Veritas is the third British brand using Lowther drivers I've encountered in recent years, but the first (I'm ashamed to say) I've got around to giving a pukka review. Ironically, Lowther Acoustas were nearly my first serious speakers back in 1968, but I went for Spendor BC1s instead. It's not a decision I regret, because the BC1 remains a loudspeaker milestone, but it undoubtedly influenced my personal hi-fi development. Thirty years later, I reckon I'm ready to tackle a Lowther.

SETTING UP

This Veritas implementation is a large and very substantial loudspeaker, although it's not unduly bulky, especially because it should be placed close to a wall or, better still, a corner. Each H3 uses two Lowther DX2 drivers, one facing forward, the other upwards, and each is loaded at the rear by a folded horn. I can't quite achieve corner location, but I did end up with the speakers further apart than usual.

Given that DX2s cost £258.50 each direct from Lowther, and the double-folded horn, double-layer Isolating Bonding Laminate (ISB) cabinetwork is also exceedingly complex, it's not surprising that the

retail price is expected to be about £6,000 per pair. A slightly smaller, single-driver, single-horn version is available for £4,500. The MDF enclosure is finished in piano gloss black (solid real wood is an option), with nicely radiused edges all round and a plinth to sit on.

On my standard in-room measurements, the H3 gave one of the highest sensitivities I've

"The quality of the bass and the subtle dynamic contrasts it can convey puts conventional box loudspeakers to shame. This speaker doesn't slop around muddling the detail."

ever encountered, at about 104dB (only matched by the Klipschorn and LV Air Partner). The overall far-field balance is impressive too, holding within +/-3dB between 200Hz and 10kHz. But it is also rather uneven en route, with an unusual overall trend that's significantly stronger than average through the presence and treble (1-10kHz), and about

O The quality of bass and the subtle dynamic contrasts the H3 can convey puts conventional speakers to shame. 3dB too light through the bass region, from 50-200Hz. There's little output of consequence below 50Hz or above 10kHz.

SOUND QUALITY

Compared directly with more conventional speakers, the H3 does sound distinctly coloured, lightweight and almost aggressively forward. But acclimatisation only took a few hours — then I started falling in love with this speaker.

I know it's an oddball, but its faults somehow seemed fundamentally benign, while its astonishing coherence and dynamic integrity brought a new dimension, particularly to acoustic music.

If I only played the Prodigy and Chemical Brothers, I'd probably look elsewhere, because the H3 lacks serious grunt. But the quality of the bass and the subtle dynamic contrasts it can convey puts conventional box loudspeakers to shame. This speaker has true grip and poise, and doesn't slop around muddling the detail.

The real strengths lie in the midband. I ended up leaving the tuner on Radio 3 and letting it burble on at a low level during the day. I didn't want to be distracted, but kept noticing how beautifully subtle orchestral textures were reproduced, especially massed strings, even when playing at a very low level.

Most significantly, the H3's the sort of speaker which could get me into all sorts of new music. It gives so much timing and dynamic information and imbues every instrument with a harmonic richness which makes one wonder how much conventional speakers seem to lose along the way.

The second upwardfacing driver makes for a more spacious, roomfilling sound, but at some cost in locational precision and focus. On the whole I left them open, but some tracks seemed to work better

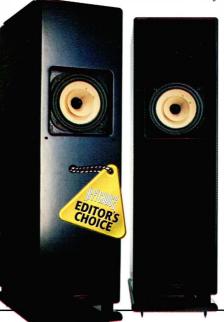


with the top driver blocked off. Perhaps Veritas might consider incorporating a switch or bridging link so the top driver can be easily disconnected.

The H3 wasn't a perfect match for my Naim amp, but that didn't spoil the fun. My experiments with alternatives included an Electrocompaniet and a Cary valve combo which served to show how remarkably transparent this speaker is to the sources and amplification that feed it. It seems to point up the inherent characters of driving components, which makes the task of putting a sympathetic system together a challenge, but potentially a most rewarding one.

CONCLUSION

This combination of Lowther's neodymium-magnet drivers with Veritas' excellently inert cabinetwork amounts to a most entertaining speaker. The more time I spend with the H3s, the less I'm looking forward to returning them. Quirky they may be, but get to try them at home over the weekend and you could well be arranging a loan on Monday morning. I know of no alternatives with the same combination of righteous dynamics and full range driver coherence.



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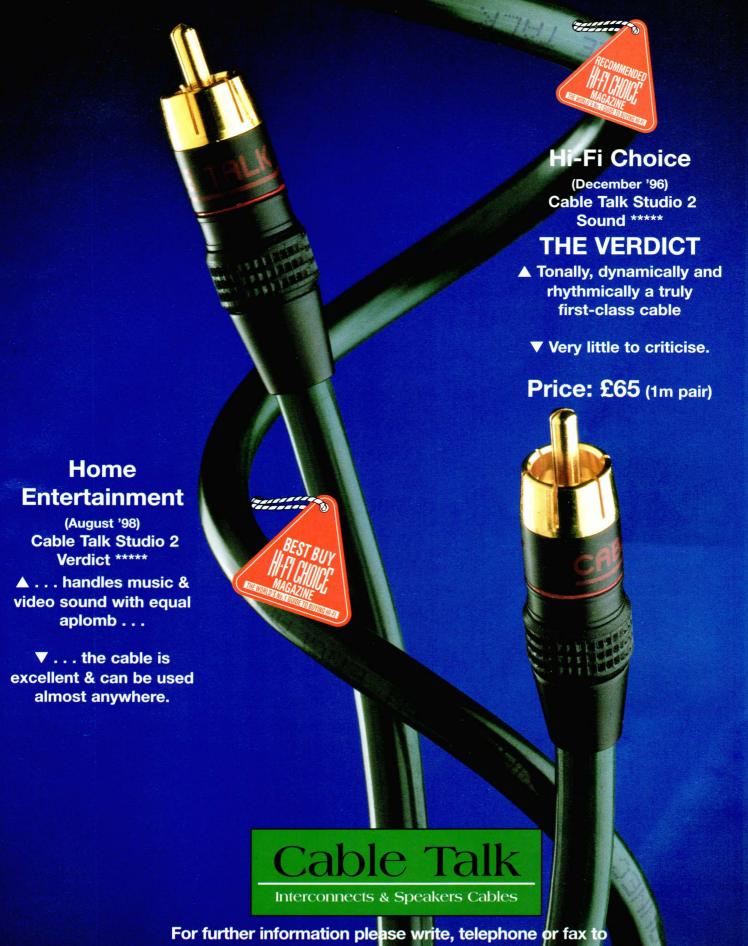
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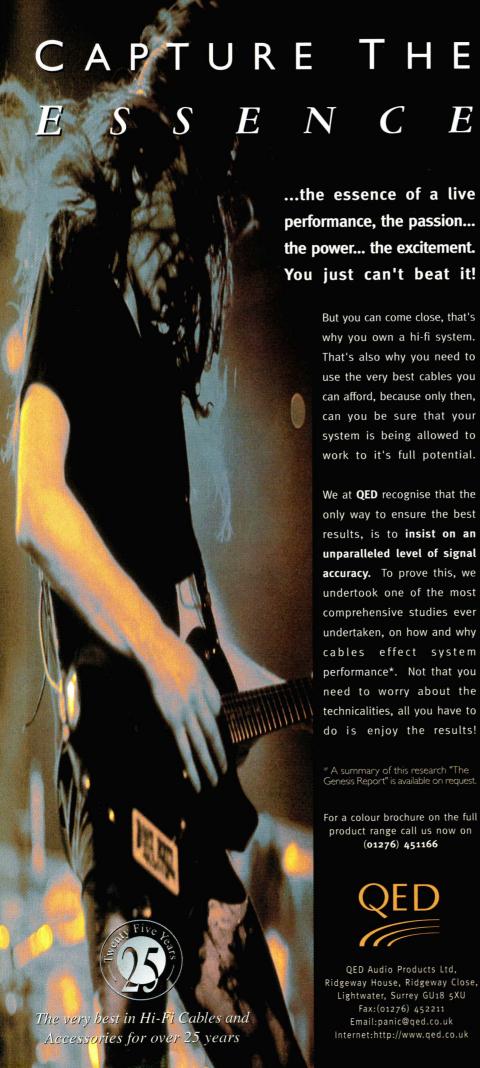
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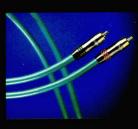
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SUPER TEST

MINIDISC/CD-RECORDERS

Richard Black puts the latest generation of digital recorders through their paces to find out whether MiniDisc really has got it taped

| THE CAST LIST | | |
|-----------------------|---------|-----|
| Kenwood DMF-9020 | £499 | p44 |
| Marantz CM635 | £499.90 | p45 |
| Pioneer MJ-D707 | £199 | p47 |
| Sharp MD-R1 MkII | £180 | p49 |
| Sony MDS-JA20ES | £499.99 | p50 |
| Yamaha MDX-793 | £299.95 | p51 |
| Marantz DR700 | £599.90 | p52 |
| Traxdata Traxaudio 90 | 0 £399 | p53 |

igital recording in the home is fast becoming a fact of life rather than a futuristic novelty. Most of the major manufacturers include at least one MiniDisc recorder in their line-up and there is also a

GLOSSARY

ATRAC - Adaptive Transform Acoustic Coding. A bit of clever digital signal processing, used in MiniDisc, that squeezes the audio data to about 22 per cent of their original volume. It uses a combination of lossless and lossy techniques to give a near approximation to the original on playback, the accuracy of the approximation depending strongly on the music being processed. The idea is that errors introduced are not significantly audible in practice. **BIT-PERFECT COPIES** – as the name suggests, digital copies that are digitally indistinguishable from the original. Given jitter-free playback equipment such copies will invariably sound identical to the source. Most CD-R decks can make such copies: MD can't. **SAMPLE-RATE CONVERTER - MD** and CD both use a sampling rate of 44.1kHz, while DAT and DAB use 48kHz (or 32kHz). An SRC reads in the samples at one rate and calculates a new set at another rate, allowing digital copying of non-44.1kHz sources. An Asynchronous SRC does this for any input sample rate, allowing compatibility with slightly inaccurate, near-44.1kHz, sources (good), but may introduce jitter in the process (bad). **SCMS** - Serial Copyright Management System. This system, compulsory in all domestic digital recorders, allows one copy to be made of an original but prohibits copies of the copy. However, analogue copies can still be made.



handful of affordable CD recorders to choose from. Recordable DVD is a reality in the computer world, and it's likely that in some shape or form it will before long infiltrate audio too. Cassette is far from dead and DAT, although seldom considered a domestic format. is actually perfectly viable and available if you look for it.

All the formats have their own advantages and drawbacks. MiniDisc offers unprecedented flexibility, with quite sophisticated editing available and the option of adding titles to tracks, but its sound quality is hampered by the use of data reduction (data

compression or coding), which means it can't play back a perfect facsimile of the input. Recordable CD can do that (as long as the source is at the CD sampling rate of 44.1kHz) but it is very inflexible: you can't do any editing after the fact and even in its 'Rewriteable' variant the system doesn't allow anything smarter than erasing the last track or the complete disc.

Cassette is well established and compatible with 30 years' production of decks and tapes, but it will always suffer from limited signal-to-noise ratio and only the very best decks can truly be said to explore its potential to the full.

The maximum uninterrupted recording time on quality tape is only about 50 minutes, compared with 74 minutes for MD and CD. DAT is great for recording time, giving 2 hours (4 hours in Long Play mode), plus cassette-like familiarity in use and some editability, but the few affordable models are semi-pro units not generally for sale through retail outlets and tape isn't exactly on sale in every high street either.

All four systems cost about the same in recording time, about £2-£3 per hour, and good recorders of each type come in at around £500, although cassette of course starts at much less while MiniDisc has now crept down to a £200 entry price and CD-R has recently dipped below £300. So - what's the bottom line?

I think in the end it comes down to the sort of listener you are. If, like me, you're at heart a hard-line audiophile who can cope with the odd minor creature discomfort, CD-R is probably your thing. If, however, you appreciate a few features — and certainly if you're a true gadgeteer — you'll very likely love MiniDisc.

It's not full CD quality, but the best examples aren't far off the mark and, all things considered, it's probably the best home recording format we've had yet.

HOW THE TESTS WERE DONE

Il decks were assessed initially in Arecord/pause mode, which tests the DAC and output stages and establishes a limit to overall performance. Next, a selection of excerpts - some long, some short - were recorded on each deck and listened to repeatedly: CD-R copies are a simple enough matter but some of MD's foibles seem to sink in with repeated hearing. It soon became obvious that some tracks are a much tougher test of MD than others, and the first two on the list (right) were particularly useful and are recommended: the very opening of Dance the Night Away and a section of Flamenco Sketches about 1'40" into the track (especially one particular note at 1'46"). This provided the most obvious illustration of ATRAC's limitations that I've heard to date, with consistently

audible distortion of the muted trumpet, equally audible on Sony's own prerecorded MD version of the track.

Ancillary equipment included Rotel RCD-971 CD player, EAR amps and ATC speakers, with various (mostly custom) interconnects and Kimber and Sony optical leads.

SOFTWARE INCLUDED:

MILES DAVIS: Kind of Blue (Track 5. Flamenco Sketches). on Columbia CK64935

THE MAVERICKS:

Trampoline (Track 1, Dance the Night Away), on MCA UMD80456

JOSÉ ANTONIO GUZMEN: Ambrosio. on Sonora SACD101

Plus a recording of music for roll piano which I had just been editing when the recorders turned up!

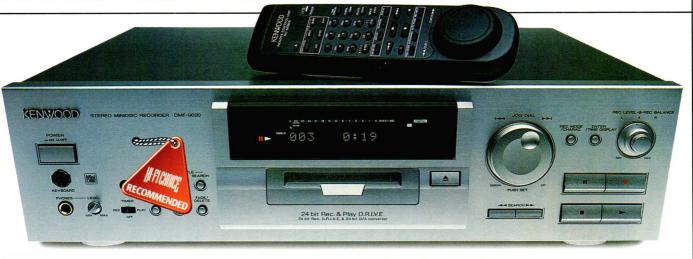
HINTS & TIPS

If you're recording digitally there's usually no need

(and on most decks no option) to adjust recording level. But if you're recording analogue sources be careful how you set recording levels. On cassette decks, '0dB' is a nominal level with some headroom above it, while on MD or CD it's absolute maximum, with serious distortion above it. Being conservative will only slightly worsen the noise floor.

Buy the right blank media: avoid nonbrand name discs and make sure you get the correct 'For Music Use' CD-Rs. This might all be exciting newtechnology stuff but the usual guidelines about using quality cables and supports still apply, as do those about careful handling: CD-Rs in particular do not appreciate being scratched on top or bottom face.

KENWOOD DMF-9020



hew, what a whopper! Actually, it's only just the largest deck in this survey (the Yamaha is even a little deeper), but somehow it seems to loom. Given the size of the internal subassemblies there's no obvious reason for it to be this big, but it does at least look very smart, complete with Kenwood's new-look front panel.

Said front panel has the usual knobs and buttons, but look hard just below the power switch and you'll see the deck's unique (to date) feature: a 6-pin mini-DIN socket. Eh? Yup, it's a socket for a PC keyboard. After 6 years of MiniDisc, someone has finally addressed the issue of how to title discs without spending half a week over it. It's a brilliant solution: a PC keyboard can be picked up for under a tenner and once you've plugged it in you can title your discs in a fraction of the time it takes with the usual jog dial.

On the audio features front things are less novel, but there's a second coaxial digital input and a

O Kenwood wins points for having a keyboard socket to make titling easier. "The Kenwood DMF-9020 produces a solid sound with a fine bass extension and believable voices, plus quite good retrieval of ambience. Imaging is also good."

coaxial digital output too – and, of course, the usual editing functions, plus digital level control, digital fade in/out and adjustable track marker level.

There are a few minor niggles. Because the 'Power' switch really does cut off the mains supply (most MD decks merely go into standby), there's therefore a danger of switching off before writing the all-important Table of Contents. The ToC is updated after every record operation, which takes a few seconds and is particularly irritating if one hits 'Stop' by accident instead of 'Pause' after recording a track. Kenwood's transport is rather noisy in operation, and emits a whirring noise 10 seconds before the end of a disc, which I could live without in the closing bars of Mahler's Ninth Symphony. But on the whole, operation is reasonably slick and straightforward.

Internal build quality is very good, with one exception — despite the acres of space inside the case, Kenwood has put the headphone output board right next to the mains transformer and there is therefore a permanent mild hum on cans.

Unusually, the digital input is fed through an Asynchronous Sample-Rate Converter, which should ensure ready compatibility with CD players whose master clock is not accurate but has the potential to introduce jitter (although whether that's a major issue when ATRAC coding is also invoked is a moot point).

SOUND QUALITY

Kenwood's MD decks have always done pretty well in *HFC* tests and this one's no exception. Tested as a DAC or replaying pre-recorded material (given that ATRAC decoding on any deck gives digitally identical results) it produces a good, solid sound with fine bass extension and believable voices, plus quite good retrieval of ambience. Imaging is also good, if not quite at the level of the best current mid-price CD players.

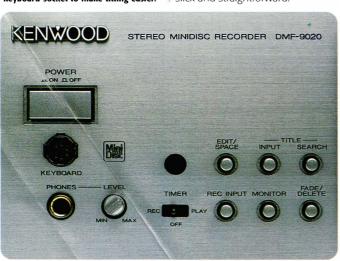
When recording, performance is still among the front runners in the MD world, though certain MD artefacts are not so easily shaken off. In what turned out to be the most difficult test, Miles Davis' Kind of Blue, audible distortion on the muted trumpet was kept to as low a level as with any deck, but was still far from vanishing. On less stringent material the sound was generally clear and lifelike, but

hints of 'MD-ness' would creep in from time to time, including a small but unmistakable loss of ambience in well-recorded acoustic music and some grain and lack of detail with very busy recordings. An example of this would be the opening of Dance the Night Away (The Mavericks), where in the first few seconds the guitar sounds noticeably processed and some background cymbal crashes are really quite dirty and coarse compared with the original.

Imaging is mostly good, but tends to converge on the centre in loud music. It sometimes feels as if imaging is 'pumping' with the dynamics of the music. The analogue input is good apart from a very slight loss of detail — nothing at all alarming.

CONCLUSION

On sonic grounds, this is one of the more successful MD decks around, and the keyboard socket gives it high marks for useability too. It's still not completely acoustically 'transparent', but it's close. Recommended.



VERDICT SOUND BUILD VALUE PRICE £499 One of the best MD decks yet for sound quality, and the first to make titling a practical proposition. **■ ONE YEAR GUARANTEE** ⊠ Kenwood Electronics UK Ltd. Kenwood House, Dwight Road, Watford, Herts WD1 8EB. **2** (01923) 816444 SPECIFICATIONS ■ Digital Record Level: Yes (1dB steps) ■ Analogue Record Level: Single plus balance ■ Edit adjustability: Yes (coarse)

MARANTZ CM635



t's not the first time it's been done and you can be sure it won't be the last - the idea of having a CD player and a MD recorder in one box is a good one from many points of view. For a start, it's one box less you've got to find a home for, and then there's a saving in the cost of the metalwork of one unit, one power supply, several front panel controls, one remote control and the DAC and output electronics.

That's not to say one can only dub from the internal CD deck, and there are the usual optical and coaxial digital inputs, plus an optical output. There's also an analogue input, but the level control is conspicuous by its absence. Record level is, in fact, set digitally, via the remote control. That's OK as far as it goes; the real problem is that at any level setting the input overloads quite unpleasantly at 2.6V in, which is not really adequate to cope with modern sources, many of which are capable of putting out higher levels than that. Even if it meant losing a little noise floor, I'd rather see at least 4V headroom.

The CD player functions like any other. The MD side, meanwhile, has the standard track editing

O The panel is sensibly laid out, but

"Bass, usually a Marantz strong point, is full and clear, but the sound can get rather rough at loud climaxes. Overall, detail is moderate to good."

functions plus titling, synchronised recording (with the internal CD deck or an external source), double-length mono recording and overwrite recording from the middle of an existing track. This last is appearing in some MD recorders but should be avoided because, unlike drop-in recording on a cassette, it effectively erases absolutely everything after the drop-in point. Usually it's much better practice to record a whole new track on the 'end' of the disc and use the editing functions to join it up to the appropriate point in the sequence.

This deck is well put together, although some of the internal wiring is a bit of a rat's nest. The front panel is sensibly laid out, but even so some functions are not all that intuitive (for instance dubbing from CD to MD), and the display could be clearer - the various indicators are close together and it's not always obvious what's happening. Level metering looks like an afterthought: it's very small and completely uncalibrated. It seems clear that Marantz just

doesn't expect people to do much recording from the analogue inputs! MD disc handling is a little slower than average.

SOUND QUALITY

Tested initially as a straight CD player, the CM-635 seems respectable – roughly in the same ballpark as Marantz's own CD-only machines in the £180-£200 region. Bass, usually a Marantz strong point, is full and clear, but imaging is a little below par and the sound can get rather rough at loud climaxes. Overall, detail is moderate to good. This picture applies equally when replaying pre-recorded MiniDiscs: the digits are retrieved from the ATRAC datastream just the same as on any other deck, but turning them back into analogue signals is a function of the DAC and audio output which, of course, are shared with the CD deck.

Recording performance is middling - in fact, quite similar to the Sharp recorder also included in this test. Following the pattern

decks here, results vary from pretty good with simple music and sounds without much treble, to clearly compromised with the most difficult test, close-miked muted trumpet. This sounded edgy and coloured, with subtle but irritating additions to the sound not unlike a mechanical rattle one can't quite locate in a room. The other awkward test track, by The Mavericks, also sounded slightly coloured and developed traces of DSP warbles in the background, while the general texture of the percussion coarsened considerably. On the other hand, most classical music fared better, with little more than some loss of ambience and imaging compared with the CD.

The analogue input proved a weak point, quite rough and lacking some detail, with rather odd imaging that seemed to make everything more recessed.

CONCLUSION

This deck would have looked a lot more attractive at about £150 less. As it is, it seems to offer barely more – in some ways, less - than a £200 Marantz CD player and a £200 Sharp MD recorder.





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PIONEER MJ-D707



ioneer was the firm that first brought relatively cheap CD-R to the masses and has continued to pursue that line, but clearly it feels that MiniDisc is something it can't ignore forever, so here for the first time in *HFC* is a Pioneer MD deck.

And it looks promising. For a none-too-alarming sum it offers an impressive list of features – almost matching the Sony MDS-JA20ES (see later), but losing out on ultimate flexibility.

Still, the compromises it makes are arguably the right ones.
Starting from the basic features – analogue in and out, of course, plus optical and coaxial digital in and optical out, standard editing and titling functions, the usual CD-style playback programming – it adds Sony-style flexible editing with both rehearsal for track dividing and edit adjustability in single-frame increments (about 12ms). That's good and welcome. There's a digital input level control, adjustable in 0.5dB or 1dB steps

○ The '707 is easy to operate, with nice large buttons and slick disc handling.

"The Pioneer has a 'Time Skip' function that allows much faster searching within a track, a feature I wish was present on all MiniDisc and CD machines."

from -48dB to +12dB, and the option of fading in or out (many of these functions only work with a digital input if it's at CD's 44.1kHz – otherwise the sample rate converter uses up too much processing power to allow other simultaneous functions).

The fades are of preset length, but that seems to be perfectly acceptable. You can also alter the threshold at which the unit autodetects a new track, and believe me, you don't know how useful that can be until you miss it.

Pioneer offers its own speciality, too, in the form of 'Digital NR' which acts on record or playback to cut down high-frequency noise in a signal (something of the sort turns up on some of its high-end cassette decks, too). It works fairly well, but there's always a trade-off between reducing real noise and encroaching on the

music. And there's a 'Time Skip' function that allows much faster searching within a track, a feature I wish was present on all MD and CD machines.

The '707 is easy enough to operate, with nice large buttons, clearly labelled, and pretty slick disc handling. The On/Off button does actually kill power to the deck, though, and if that's done with a newly-recorded (or edited) disc in the transport it could result in loss of some or all of a disc's contents, so be careful or use the remote control's 'Standby' button instead. Metering is good and unusually fast to respond (on many decks it's much too slow).

SOUND QUALITY

As a replay deck, or when monitoring the input, things are good, if not great. The sound seems just a little over-bright and lacking some image depth, although bass is on the whole strong and realistic. The midrange is clear and quite detailed – at least as long as there isn't too much treble happening, which tends to cloud things a bit – and complex musical textures are mostly easy to follow.

The Pioneer 'Legato Link' oversampling filter it uses is a rather controversial device and I have reservations based not least on its variable compatibility with different partnering amps and speakers, but if those are good it can give pleasing results.

However, this deck's recording performance was something of a disappointment. With classical music, which in general has less high-frequency content than jazz and popular styles, it was relatively harmless, although the common MD failing of slight ambience loss – a feeling that the end of a musical phrase has been just subtly curtailed – was sometimes evident.

Where things really came adrift was with treble-rich material such as the test tracks from The Mayericks and Miles Davis In the former it was not hard to hear the effects of Pioneer's ATRAC encoding in the background, with an effect not wholly unlike a subtly-applied flanger adding a warble to the beautifully-recorded guitar and percussion, while in the latter test Miles' muted trumpet changed tone noticeably. In this context, the slight veiling contributed by the analogue input makes little difference to the overall result.

CONCLUSION

Pioneer's ATRAC seems similar to Sharp's. Could it be that Pioneer's somewhat superior output stage allows the ATRAC effects to be heard even more clearly? Despite that, the deck is flexible in use and quite cheap considering, and can, I think, be given a qualified Recommendation.





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SHARP MD-R1 MkII



t's certainly rather small and dinky, though the looks are a bit a matter of taste. For mine, they're a bit too reminiscent of a car radio: more seriously, this miniaturisation has led to the controls being uncomfortably cramped together and in use are, frankly, rather fiddly. However, operation is reasonably straightforward, although disc handling is a little slower than on some other recorders.

Features are essentially the basic MiniDisc set: standard editing (with no rehearsal) and titling, programmed play, synchronised recording (which actually works, losing no more than a couple of samples), optical digital in and out plus coaxial in only, and a headphone jack that accepts only 3.5mm plugs. The headphone level control, daftly, is at the back.

There are two extras: as on many MiniDisc recorders, it is possible to record in mono for twice the duration of a stereo disc. But Sharp has also thoughtfully incorporated a real-time clock (yes, Y2K compatible) and a timer function so that you can record programmes while you're out or wake up to music. The clock also

O This deck offers similar performance to many other players at higher prices.



"As on many recorders, it is possible to record in mono for twice the duration of a stereo disc. But Sharp has incorporated a real-time clock and timer function too."

date-stamps recordings, which I find very useful for those all-too-frequent occasions when one forgets to put any kind of label on a tape or disc — at least with the aid of a few back issues of *Radio Times* one has a fighting chance of working out what is on there.

Build quality is thoroughly consumer-grade, although given the price that's hardly surprising. The display is distinctively Sharp, with very large letters for the title and the same display giving clear, but rather low-resolution, metering in record mode.

SOUND QUALITY

The initial record/pause monitor listening was not altogether encouraging. Compared with other MiniDisc recorders and a couple of modest CD players, the MD-R1's DAC and output stage clearly loses some imaging precision and a degree of bass extension and weight. As a result, images tend to collapse towards the centre while sounds like pizzicato double bass recede into the mix. Loud climaxes also err on the rough side.

Sharp not only makes its own DSP chips, it even has its own version of ATRAC coding, so it was initially something of a surprise to find that replay gave identical results to other machines in this group, digitally speaking. This

means that, on the one hand, its replay performance will be dominated by the imaging and bass losses mentioned above, while on the other hand with an external DAC it should, in principle, be very much of a muchness with any other MD deck.

However, Sharp's record encoding is clearly not identical to everybody else's and, to my ear, is less successful than some in concealing its operation. Subtracting the encoded version from the original suggested Sharp gets closer to the truth on some material such as solo piano, but it turns out that ATRAC is in general pretty good at handling that sort of thing. With more treble-rich stuff, this Sharp is prone to add borderline-audible background garbage, something evident not only on subtractive comparison but on normal listening too.

The practical upshot is that while simple musical textures come over fairly well, complex ones are not so kindly treated. Miles Davis, for instance, sounded more obviously distorted than with the Sony and Kenwood recorders (although the Pioneer, Marantz and Yamaha decks gave similar results). The Mavericks track suffered some coloration and sounded generally processed, although again, not as badly as on some players.

On the classical music side, recordings with a moderate amount of ambience lost some of it, phrases sounding unnaturally truncated, although tonally there was little to give things away. A few odd effects also crept in: in *Ambrosio*, the consonants and vowels sung by the female choir sometimes seemed to come from different points in the stereo image. The analogue input almost counters the output with a little plumminess, but it is not perfectly clear either.

CONCLUSION

In the context of its price this deck is not so severely compromised, and indeed it would appear in many ways to offer similar performance to some models at rather higher prices. It works well enough, and its small size may well be attractive to many – just Recommended.



SONY MDS-JA20ES



ne year ago (HFC 177) I reviewed the JA30ES, this model's big brother. Frankly, the two are really very similar indeed: the few features of the '30 not found on the '20 are pretty esoteric.

And this being a Sony, features are the name of the game. Some are more useful than others. 'Time Machine Recording' - which stores six seconds of audio in a buffer so that you can start the machine just after you hear the opening notes of your favourite tune on the radio and still not miss anything on the recording - must be one of the smartest additions yet. Digital level control is also handy, and moreover can be set independently, in 0.1dB steps and with a range from -60 to +12dB, for each of the three digital inputs. Replay speed/pitch is variable in small increments over a wide range, and replay and recording can be faded in and out with adjustable fade times.

Potentially most powerful of all are the editing functions which, although still based on the MiniDisc fundamentals of dividing,

O This scores highly for its ergonomics, but there's still room for improvement.

"Time Machine Recording — which stores six seconds of audio in a buffer so that you don't miss anything on a recording must be one of the smartest features yet."

combining, moving and erasing tracks give far more flexibility than most other recorders by allowing both rehearsal of edit point and adjustability to less than 1/80s accuracy. (Pioneer and Yamaha have also caught up on this one.) This makes professional-quality edits possible in the middle of a passage of music.

Another unusual feature is the ability to set the trigger threshold at which the auto track-marker function operates when recording from a non-CD source. Input and output digital word length can be up to 24-bit, and there is a choice of four oversampling filters to tune replay, although I would strongly recommend leaving this on 'Standard'. Programming and titling features are much as usual.

In use, this machine scores highly for its ergonomics, but there's still room for improvement (editing isn't amazingly intuitive, for instance). But it all feels very

solid, disc loading is quite fast, the display is nicely informative (and gives good resolution of recording level) and it's friendly to operate.

SOUND QUALITY

Once again, Sony comes up trumps with a MiniDisc recorder of rather superior performance. As a first test of the audio electronics I always treat any recorder as a 'pass-through' device in Record/Pause mode: this tests the input and output stages as well as ADC and DAC, but not the ATRAC coding. Not all recorders sail through this test as the JA20ES does. OK, it's not completely inaudible, but it comes pretty close, with just the smallest hint of plumminess. A good first impression, and one generally maintained by the performance on record and replay.

There is still some degree of 'MiniDisc-ness', a small loss in the sense of involvement that one should feel when listening to a well-recorded piece of good music. But that seems to be getting less with every generation of recorders and is not a major limitation here.

In music that contains a lot of high treble (struck cymbal and the like) there is some coarsening of the sound, but in fact this deck gave very good results with the two toughest tracks from The Mavericks and Miles Davis, barely affecting the former (still not perfect, but without any immediately obvious coloration) and at least producing less distortion on the latter than some other decks in this survey.

Tonally, the sound is always solid and well balanced, with particularly fine bass that never overwhelms but is always there when required. Imaging is on the whole good, although at times the front-back definition falls a little short and sound sources become a little two-dimensional.

The digital input level control works well, as does the sampling rate converter. Subtracting the recorded version from the original showed that this deck gave the closest approximation of any in the group: taken out of context this is a questionable result, but the difference signal was also such as to add relatively little to the overall sonic picture.

CONCLUSION

This must be one of the most attractive MiniDisc recorders around. It may not be the absolute best, but it is certainly among the leaders and combined with the impressive range of useful features it makes for a very flexible and sophisticated home recorder. A Best Buy seems to be quite in order.





YAMAHA MDX-793



ike Kenwood's contribution to this group, this Yamaha is an usually deep unit and there's no obvious reason why there's a good two-inch gap inside between transport and main circuit board which could easily be reduced. Still, styled to match the rest of Yamaha's latest generation of hi-fi separates, it's an elegant unit with an orange display which I for one find much more pleasant than the usual greenish-blue.

The layout of controls, although neat, possibly ends up with rather too many identical buttons, but basic operation is simple and straightforward and other functions are readily accessed. There's a medium feature set: the usual editing and titling are supplemented by a rehearsal and adjustment (to 12ms) function when dividing tracks. Alongside the conventional optical and coaxial digital inputs is a second coaxial socket. There's one optical output. 'Time Rescue Recording'. similar to Sony's 'Time Machine Recording', uses the unit's buffer memory on recording to allow recording from four seconds before you press the 'start' button.

O In case you make a mistake while editing tracks, there's an 'Undo' button.

"Styled to match the rest of Yamaha's latest generation of hi-fi separates, it's an elegant unit with an orange display which is more pleasant than the greenish-blue."

'Synchro Recording' works perfectly in starting recording when music is detected, and in case you should make a mistake while editing tracks there's an 'Undo' button, something not all manufacturers implement.

Disc handling is fast and efficient, but, as with the Pioneer deck, it's important to make sure the disc is ejected before turning off the power – there's no standby function, even on the remote control. Build quality is good: like most current MD recorders, the inside of the case is dominated by the small transport assembly and a board about 6 inches square which carries most of the audiorelated electronics. It's all neatly put together and, not surprisingly, makes use of Yamaha's own integrated circuits.

SOUND QUALITY

Starting, as in all these reviews, with the unit functioning purely as a DAC, the sound was just on the good side of middling. There's a

comfortable solidity to almost any kind of music, but subtle bass sounds like quiet piano or double-bass pizzicato can sound a little soft and massed voices can become rough and edgy. Imaging is good but not outstanding and climaxes can be undramatic. Similarly on replay, things aren't quite as good as the best but overall there's little between the music and the listener.

When recording and replaying, unfortunately, things deteriorate markedly. In fact, this recorder produced results quite similar to the Sharp and Pioneer, including the intriguing (but in important ways inconclusive) test of digitally subtracting the recorded version from the original, which gave a very similar-sounding residual.

As with any data-reduced audio system, results vary considerably depending on the type of music being recorded, and in general the less treble there is the less difference there will be between before and after encoding. Hence, once again, quite good results with the classical selections used: solo piano, for instance, comes over well with minimal loss of presence and life, and even quite complex orchestral and operatic excerpts suffer no more than the usual mild reduction in the feeling of involvement. Imaging loses some depth, but paradoxically at the same time sounds from the front of the image can sound even closer to the listener.

With more energetic material audible artefacts start to appear. Again, The Mavericks provided a simple 'go/no go' test, one this

recorder failed as it added the familiar plasticky coloration and borderline-audible background warbles to the introduction to Dance the Night Away, and reduced the crash cymbal to mere breaking crockery. The other MD torture track, with Miles Davis, also showed up the Yamaha's tendency to alter the timbre of muted trumpet considerably, an effect one cannot easily miss having heard it once. It sounds as if the maestro were blowing his horn into an empty baked-bean tin, compared with the purity of the original.

The analogue input seemed slightly noisier than on the other decks but otherwise performed unexceptionally. It seemed to add some slight fullness in the bass, though not unpleasantly, and slightly reduced image depth.

CONCLUSION

Again, a slightly disappointing result. This is a nicely thought-out machine, but neither its recording performance nor its features list appears to offer anything substantial over, say, the Pioneer.



■ Edit adjustability: Yes (fine)



MARANTZ DR700



his CD recorder has in effect been reviewed before in Hi-Fi Choice, although you might not think so: it's basically identical to the Philips CDR880 (issue 184). And if you read on, you'll find it reviewed again in a different guise in this issue.

In case you missed HFC 184, here's a re-run of the features. This CD-R offers the potential to make bit-perfect copies of CD (or other 44.1kHz-sampled) sources, something MiniDisc can't do, but it lacks a lot of the convenience features of MD. OK, so this deck is actually a CD-RW variant which allows limited editing and rewriting of discs (you can erase either the last track you recorded, or the whole disc). But that's not total flexibility and is further hampered by the fact that CD-RW discs won't play in many conventional CD players. 'Ordinary' CD-R discs will play in all players once they have been 'fixed up', but after that you can't record on them any more. So altogether, CD-R is by no means a convenience format.

In truth, this isn't a convenience deck, either. It's well equipped with coaxial and optical digital in and out but otherwise features are sparse and in my view somewhat

O The Marantz DR-700 has no obvious vices - overall, it's very listenable.

"This CD recorder offers the potential to make bit-perfect copies of CD (or other 44.1kHz-sampled) sources, which is something MiniDisc can't do."

ill-judged. That's particularly true of the 'auto' mode, which is the only way to copy track numbers from the source CD: even when using a digital input the recorder will stop when it detects a 20-second 'silence' (below -50dB) which can lead to it quitting in the middle of a legitimate passage of very quiet music. If the deck can start when it detects valid data from the source. why can't it stop similarly?

Metering is very poor, with a low-resolution bar graph and very slow response which can easily lead to slight overload on very dynamic music.

Like the Philips CDR880, the DR700 includes an Asynchronous Sample-Rate Converter which allows for compatibility with any digital source. The ASRC is, however, automatically switched out of circuit when digital input is at 44.1kHz (±100ppm) so true bit-perfect copies can be made. And they really are perfect – I've tested this on several samples of the same basic deck and not found a difference. Internally the unit is highly integrated and fairly

tidily assembled. A metal front panel and rather smarter buttons distinguish it from its Philips and Traxdata twins.

SOUND QUALITY

It's important to realise that the whole concept of bit-perfect copying means any differences between source and copy are down to litter alone and, although that can vary between discs, a good CD player should (ideally) not care. So in the case of copies from CD source material this deck ends up being judged simply as a player, as far as sound quality goes. On that basis its attainments are modest but certainly not unacceptable in a £200 player.

It has no obvious vices - bass is deep and assured, although not quite as firm as on the best CD players, the midrange is pretty well detailed if not outstanding and treble is generally clean, losing a little purity in very complex music. Imaging is just fine side-to-side though perhaps not quite a sharp front-to-back as one might like. Overall, there isn't quite the sense

of tangible sonic reality that the best players – these days, even some around £300 – can achieve, but it's very listenable.

Such differences as there are between original and copy are hard to pin down, and in any case dwindle even further when the discs are compared on a really low-jitter deck. However, copies made from originals at other sampling rates must pass through the sample-rate converter and lose a little detail, and the analogue input, while capable, has a slight veiling effect.

It's worth mentioning, though, that the results still exceed those of any MiniDisc deck tested here. I've used the analogue inputs on the 'pro' version of this deck (which is identical in that area) frequently with perfectly acceptable results straight from line-level microphones.

CONCLUSION

Given the near-100 per cent similarity between this deck and those from Traxdata and Philips, both of which typically sell for £100 less, it's hard to get too excited about the DR700's value. But it does look smarter!



VERDICT SOUND 00000 BUILD VALUE PRICE £599.90 The dearest of three near-identical models, with apparently only a smarter front panel to show for it. **■ TWO YEAR GUARANTEE** Marantz Hi-Fi UK Ltd, Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middx UB7 0EH @ (01753) 680868 **SPECIFICATIONS** ■ Digital Record Level: No ■ Analogue Record Level: Single ■ Edit adjustability: No editing

TRAXDATA Traxaudio 900



ow here's a turn-up. Over the ten years that I've been reviewing hi-fi I can't recall another instance of two manufacturers offering the exact same product under different names. Plenty of CD players and tuners come mighty close, but they've usually got a few bits different: however, between this Traxdata and the Marantz DR700 (also in this group) – and, indeed, the Philips CDR880, the only differences I can find are in the detailed design of the front panel.

Yes, there are a few internal components differences, but the ones I could spot seem to be no more than the small differences you'll always get between batches of the same product – largely identical capacitors from different makers and so on. But all the integrated circuits seem to be the same, the transport's the same, so are the power supply, the input arrangements, the control logic, the remote controls... It also has the same automatically switched sample-rate converter and the same poor metering.

Philips and Marantz have, of course, had a long and friendly association. But what of Traxdata? According to the company's website, it's a young outfit which

O As the cheapest of a group of similar CD-Rs, this would be the one to choose.

performance and surprisingly good recording, and as a 'bit bucket' it's exactly as good as any other such device"

specialises in recordable media for | System (SCMS, also found on all

"The Traxdata is capable of decent replay

specialises in recordable media for computer back-up applications and recordable CD-ROM drives. In both blank media and computer circles it's quite common to find a lot of rebadging going on, so perhaps it's not surprising that Traxdata should simply buy in a complete CD-R deck and 'badge engineer' it.

It would have been nice to report that they had at least programmed a slightly different set of commands into it, but apparently there's not even that much difference. At least you get 8 free Traxdata blank discs, which makes it the best value of the three. The front panel, like that of the Philips version, is plastic and possibly the ugliest (by a short head), but I don't find any of them exactly attractive.

This is a domestic audio CD recorder, a specific subset of the generic CD-R breed, that can be used to make copies of all or part of a CD or any other digital or analogue source, subject to certain restrictions. Basically, that means it must implement the Serial Copyright Management

System (SCMS, also found on all domestic MiniDisc decks) which prevents multiple-generation digital copying; it must write a unique Recorder IDentification code (RID) to each disc; and it must use special 'audio' CD-R blanks, which are physically similar to computer blanks but cost more.

Those limitations on CD copying, and the quite deliberate hamstringing of the system to limit its flexibility, have their roots in a legitimate wish by the powers that be to prevent unrestricted pirating of recordings (it costs a lot to produce a recording – I should know, I've lost enough money on it – and those mad enough to attempt it are surely entitled to some recompense).

However, it must be admitted that with computers being the price they are, anyone can easily assemble a full digital editing and CD-burning system, maybe using one of Traxdata's own CD-ROM writers, that blows even MiniDisc away for flexibility. Meanwhile a simple deck like this allows the easy assembly of compilations for the car or for a party.

SOUND QUALITY

Given the minute level of differences between this and the Marantz, it should be no great surprise to discover that sound quality is, well, as near identical as makes no difference. I certainly couldn't hear anything repeatable.

In other words digital copies of CD are basically 'blameless', limited only by the deck used to replay them. Playback sound on this deck is good, although not outstanding, and its recording quality from digital sources at 32 and 48 kHz, and from analogue inputs is good – although just detectably short of perfection.

CONCLUSION

As the cheapest of three identical machines this would seem to be the one to choose. It's capable of decent replay performance (though presumably you'll already have another CD player before you buy a recorder, or what are you going to copy from?) and surprisingly good recording, too, from the analogue inputs, and as a 'bit bucket' it's exactly as good as any other such device. The generic model also seems to be reliable in use. Recommended.



VERDICT SOUND BUILD VALUE PRICE £399 ldentical to Philips and Marantz models: it makes bit-perfect copies of CDs and has perfectly acceptable replay and analogue input performance too. ■ ONE YEAR GUARANTEE Traxdata UK Ltd, IDC House, The Vale, Chalfont St Peter, Bucks SL9 9RZ **2** (01753) 891444 **SPECIFICATIONS** Digital Record Level: No ■ Analogue Record Level: Single ■ Edit adjustability: No editing



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MINIDISC/CD-RECORI NCLUSIO

pattern is starting to emerge among MiniDisc recorders. As already stated, they all work the same on playback in terms of deriving a datastream from the ATRAC'ed signal, so replay differences are down to the quality of analogue electronics, power supply, etc.

But on record, performance is dominated by the success of the particular ATRAC implementation used, which arguably dominates over the quality of DAC (and ADC) in the decks.

"We're all on a learning curve with MiniDisc. It isn't perfect, but it's a joy to use and can at best give sonically pleasing results."

That seems apt to create a tiered ranking of decks according to ATRAC version, but there are two serious difficulties with assessing sound quality. One is that by its nature any psychoacoustic coding system (of which ATRAC is one) relies to a large extent on the hearing thresholds of 'average' listeners, and you might not be average. Worse, copying a given recording will not



give a unique result - in fact, because of the way ATRAC works there are 512 possible encoded versions of any one recording. and although they can be expected to sound similar they won't necessarily sound identical. We're all on something of a learning curve here, so please, if you have any interesting MD listening experiences to relate, do write and let us know.

MiniDisc isn't perfect, but it's a joy to use and at best can give sonically pleasing results. There is an irony in the fact that just as data-reduced digital systems are gaining ground, the cost of data storage is falling through the floor and on economic grounds we barely need data reduction at all. But powerful political forces are against making perfect copying too readily available. Data reduction is here to stay, but we can hope it will continue to be refined and — importantly — that it will not be made an excuse for any overall lowering of standards.

For my taste, Sony is turning out the most accomplished MD decks, but other makers aren't napping. Kenwood in particular is taking MD very seriously indeed, and both Sharp and Pioneer seem intent on offering value for money. No doubt the coming year or two will see some strong competition in the field.

And what of CD-R? Philips (and its re-badgers Marantz and Traxdata) and Pioneer are ploughing a lonely furrow here. It's really a bit of an oddity but the Philips generic model is a useful tool and has its place. It'll be interesting to see how well the format does in the face of MD.

THE BEST IN THE TEST



SONY MDS-JA20ES

A pretty classy recorder, this one, with arguably the best sound among the MD decks here and more features than you can shake an optical fibre at.



KENWOOD DMF-9020

It looks impressive - and actually it is, giving good sound and joyfully easy track titling. A little more editing flexibility would make it a killer.



PIONEER MJ-D707

Possibly not the most transparent MD deck around but it works well enough and offers a lot of features for the price.



SHARP MD-R1 MkII

Sound is only just below that of a few dearer decks and although the features are limited it's cheap enough to retain its appeal.



TRAXDATA Traxaudio 900

Dead ringer for dearer Marantz and same-price Philips models: think of it as a decent £200 CD player that can also make perfect copies. Frustrating to use, though,

RECORDERS COMPARISON TABLE DIGITAL

| MAKE | KENWOOD | MARANTZ | PIONEER | SHARP | SONY | YAMAHA | MARANTZ | TRAXDATA |
|----------------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|---------------|
| MODEL | DMF-9020 | CM635 | MJ-D707 | MD-R1 MKII | MDS-JA20ES | MDX-793 | DR700 | TRAXAUDIO 900 |
| PRICE | £499 | £499.90 | £199 | £180 | £499.99 | £299.95 | £599.90 | £399 |
| SOUND | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| BUILD | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| VALUE | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| GUARANTEE | 1 year | 2 years | 1 year | 1 year | 1 year | 2 years | 2 years | 1 year |
| SIZE (HxWxD, MM) | 123x440x360 | 93x435x335 | 102x420x290 | 90x270x300 | 123x430x335 | 107x435x395 | 90x435x320 | 90x435x320 |
| DIGITAL INPUTS | 2 coax, 1 opt | 1 coax, 1 opt | 1 coax, 1 opt | 1 coax, 1 opt | 1 coax, 2 opt | 1 coax, 2 opt | 1 coax, 1 opt | 1 coax, 1 opt |
| DIGITAL OUTPUTS | 1 coax, 1 opt | 1 opt | 1 opt | 1 opt | 1 coax, 1 opt | 1 opt | 1 coax, 1 opt | 1 coax, 1 opt |
| DIGITAL INPUT SAMPLE RATES | 32-48kHz | 32, 44.1, 48kHz | 20-60kHz | 20-60kHz |
| TIMER REC/PLAY | Yes 🌉 | Yes | Yes 🔏 | Yes (built in) | Yes 🚜 | Yes | No | No REC |

BURNING Issues

Just as CD-R machines can vary widely, so too can the discs you'll be recording on.

But how can 'perfect' copies be different? Paul Miller investigates

ecordable, write-once, CD-R has been with us for about eight years now and this attractive technology, along with MiniDisc and re-recordable CD-RW, has significantly undermined the sales of the once-ubiquitous compact cassette. So much so, in fact, that a detailed exploration of the new media is long overdue. We'll begin our look with domestic CD-R media and ask the question: if CD-R makes perfect digital copies, does it really matter which disc you buy? Like us, you'll be amazed at the outcome.

CD-R: HOW IT WORKS

In a recent *Oasis* (see *HFC* 187) we looked at how a waveform is represented as a 16-bit digital code. In a conventional CD, this stream of 0s and 1s is stored as a series of 'bump' and 'land' structures pressed into a spiral on the disc's surface (grey strip, Figure 1, below).

As the laser beam passes between a land (reflective) and bump (non-reflective) area, (A) and (B) respectively, the player registers the transition as a digital 1 (C). The reverse pass also represents a transition and a digital 1.

Importantly, the transitions are regularly spaced because the so-called 'run-length' of a

bump or a land area is an integer (whole number) multiple of the Master Clock period, known as big 'T'. In practice, the shortest permissible bump or land run-length is 3T and the longest equal to 11T. We'll explore the reasons behind this in next month's Oasis where we will take a look at CD's so-called 'Channel Code'.

With CD-R, a digital 1 is represented as the transition

"A great deal of R&D is expended on the chemistry of these dye layers, ensuring that they react in a predictable fashion to the heating effect of the laser during recording."

from a reflective land to a sunken, unreflective pit structure or vice-versa (blue strip, Figure 1). To keep the laser 'on track' it follows a 'groove' that's pre-pressed into the disc's polycarbonate underbelly (1, figure 2). This spiral meanders at 22.05kHz (+/-1kHz) to give the CD-R player a frame of reference when recording. Absolute recording time and position are derived from this

'wobbling' groove as the laser scores its way through the disc.

READING AND WRITING

The disc itself is more complex than a conventional CD. In Figure 2 below, the laser 'reads' or 'writes' through a transparent polycarbonate layer (1). During playback (reading) the beam is reflected back, to a greater or lesser extent, by a metallic sheen (3). This mirror-like layer can be made of aluminium, gold or, more recently, silver. Sandwiched between is a heatsensitive cyanine or azo-dye (2) that, point by point, regulates just how much laser light is reflected back.

Here's how it works. During recording, or 'writing', the laser power is increased to between 4 and 8mW, heating the polycarbonate (1) and dye layers (2) in its path to about 250°C. The dye layer collapses and the polycarbonate swells to fill the void, leaving an opaque 'pit' that diminishes the brightness of the reflecting layer (3) behind.

This is illustrated by the magnified portion in Figure 2, which shows a slice through the continuous pre-groove spiral (the blue notches). Recording causes permanent

changes to the disc, leaving melted pits that are about 50 per cent less reflective to a 'reading' laser beam. Once again,

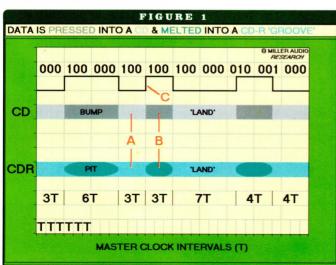
it's the transition from these less- to more-reflective areas, and vice-versa, that represents a digital 1.

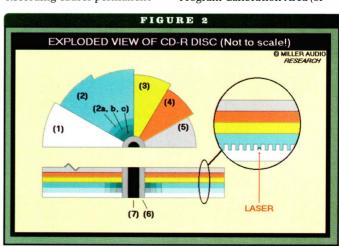
A great deal of R&D is expended on the chemistry of these dye layers, ensuring that they react in a predictable fashion to the heating effect of the laser during recording. Precisely-shaped pits are required – not irregular splotches! Incidentally, it's this chemistry that lies behind the spectacular blues and greens of different manufacturers' discs.

Returning to Figure 2, the reflective layer is protected by a UV-cured resin (4) and finally backed by an external printing surface (5).

Naturally, every disc has a centre hole (7) and a clamping area (6) that's used by most conventional CD transports to keep the disc steady as it spins. In these respects, the CD-R disc is just like a silver CD.

The blue/green recording layer (2), however, does incorporate other subtle revisions beyond its pre-groove spiral. At its innermost edge, for example, there is the Program Calibration Area (or





PCA, 2c) where the CD recorder will establish the optimum laser power for recording.

Next comes the Program Memory Area (or PMA, 2b). The numbers and playing times of recorded tracks are stored here, ensuring the CD recorder begins new sessions at the end of earlier recordings, even if the CD-R disc has been ejected and subsequently re-loaded.

To prevent any further recordings and ensure that the CD-R is compatible with conventional CD players, the disc must be 'fixed-up' by the CD recorder. This 4-5 minute automated process transfers all the relevant TOC (Table of Contents) data to the disc's lead-in area (2a).

Recordable CDs are a one-shot option: once an area has been recorded on, it can't be erased though it can be 'ignored' by deleting its track location from the disc's Table of Contents (TOC) before 'fixing up'.

THE LISTENING TESTS

The purpose of this survey was to evaluate the quality of domestic CD-R media rather than professional/data-storage discs, although the physical descriptions of the respective discs are identical. To this end, Pioneer's top-quality PDR-05 domestic CD-Recorder was drafted in, with Theta's Data Basic transport employed as a low-jitter digital source.

Our original (silver) music CDs included Christy Moore's Reel in the Flickering Light (East/West 9031-75351), Whiskeytown's Strangers Almanac (Outpost OPD 30005) and Lesley Garrett's Prima Donna (SongCD 907). Selected tracks were recorded in identical positions on all seven of our competing CD-R discs, along with specialised test signals for level-matching and subsequent lab investigation.

To ensure both impartiality and completeness, all seven CD-R recordings were auditioned in a random order and at a fixed listening level under blind conditions.

Our listeners were asked to rate the recordings against the originals, the latter representing a score of 10/10. The listening was repeated and further randomised by the use of two separate front-ends: a high-end Theta Data Basic/DSP

Pro Progeny combination and a budget NAD 514 CD player. Not only do these players span the audio divide, but they also employ distinct transport/laser technologies. This would expose any sensitivity to the pit definition, dye-layer colour and reflective layer utilised by the different discs.

Our thanks to our 'blind' but diligent panel: Roger Batchelor (Denon), Kevin Edwards (Talk Electronics) and Mark Hockey (Kenwood UK).

UNDERSTANDING THE LISTENING TESTS

Free from the subjective prejudice of knowing which disc was in play, our panel returned a consistent but startling result. After all, who would have predicted that the masters of blank recording technology – TDK and Maxell – would be usurped by an OEM-sourced disc of no obvious pretension?

Moreover, why did Pioneer's own discs fare so miserably when, on the face of it, our use of the PDR-05 recorder could only help bolster its position?

Contrary to popular belief, the answer is unlikely to lie in the disc's data integrity because, even if significant block errors were to exist, the player's decoder will correct or conceal the errant data.

I fully accept that repeated concealment or correction of damaged data would exert some sonic penalty, but this doesn't explain why discs with the lowest BLER (Block Error Rate) like the Maxell and Pioneer fared worst of all.

To find the answer, we first have to appreciate what the laser pick-up 'sees' as the CD-R disc spins. We have already looked at how CD's 16-bit digital code is represented by a series of variable-length 'land surfaces', bumps or pits on CD and CD-R discs.

What the laser 'sees' is a sequence of reflective and non-reflective patches that modulate the returning beam of light. This fluctuating beam is converted into a fluctuating electrical output by photodiodes in the laser mechanism.

As a result, what emerges from the laser pick-up is not digital data but a stream of superimposed and typically rather distorted sine waves that represent each of the nine available run-lengths, 3T to 11T. This waveform is called the RF eye-pattern, and it's from here that the original 16-bit data is extracted by the player's decoder circuit. Down the line, it's the player's DAC (Digital-to-Analogue converter) that transforms this 16-bit code into recognisable music. Back on

"Recordable CDs are a one-shot option: once an area has been recorded on, it can't be erased" our CD-R recordings, the longer run-lengths produce lower modulating frequencies while the smaller run-lengths produce higher modulating frequencies – hence the complexity of the eye-pattern.

For example, 74-minute discs will spin with a CIV (Constant Linear Velocity) of 1.2m/sec and as the 3T pits are 833 millionths of a mm in length, then the laser beam will be modulated at 720kHz. For an 11T pit-length the frequency decreases to 196kHz, with 4T, 5T, 6T etc. lying at fixed intervals in-between.

The position, or timing, of these frequencies, relative to the player's Master Clock,

FUJIFILM



his disc was clearly preferred over the Maxell and Pioneer copies that preceded it with a generally brighter, sweeter and livelier sound that was deemed closer to the vigour of the original. This view was repeated with both the Theta and NAD players as was a suggestion of

'boominess', an added warmth and plumpness in the upper bass that, in both instances, 'smudged the lower octave of Christy's voice'.

Nevertheless, and despite betraying a hint of 'CD-R smoothness', the Fuji-based copies maintained the bite of guitar and sparkle of percussion with sufficient style to hold the panel's attention.

SPECIFICATIONS

 DISC
 FUJIFILM

 LENGTH
 74 MINS

 DYE LAYER
 BLUE/GREEN

 REFLECTIVE LAYER
 SILVER

 RATING
 7/10

 PRICE
 £3.99

2 (0171) 586 5900

HI-SPACE



opies on MPO's Hi-Space disc suffered some loss of attack and sustain with percussive sounds – a weakening of the music's core energy that prompted our panel to describe it as "a facsimile rather than a perfect copy".

Garrett's powerful vocals were described as "slightly smeared" with the Theta front-end and "veiled, not in touch with the orchestra" with the NAD player. A sense of the music being disjointed rather than oversmooth or civilised was a theme our listeners returned to time and again with the Hi-Space disc.

SPECIFICATIONS

LENGTH
DYE LAYER
REFLECTIVE LAYER
RATING
PRICE

DISC

HI-SPACE
74 MINS
LIGHT BLUE
SILVER
6/10
£2.49-£2.99

2 (0181) 600 3900



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incredable albums from two incredable artists. Patrica Barber famous for her excellent album

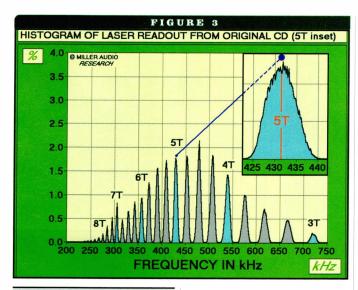


Cafe Blue delights once again this time with the excellent Modern Cool. Modern Cool builds upon her visionary musical landscape discovered by Cafe Blue. Modern Cool is available on 180g LP and CD priced £19.95 and £12.95 respectively. From the critically acclaimed DCC Compact Classics audiophile label we have an audiophile favourite Joni Mitchell's Blue, a sad, spare and beautiful reflection on Mitchell's growing sence of disenchantment and disillusionment with the world in general and love in particular. Blue is available on 24ct gold CD £19.95

On The Record

The UK's leading bi-monthly audiophile news letter is free to Hi-Fi Choice readers. Simply give us a call and we'll be glad to forward the latest issue to you.





"Who would have predicted that the masters of blank recording technology would be usurped by an OEM-sourced disc of no obvious pretension?"

reveals the digital code laid down on the disc. The smallest (higher-frequency) pit-lengths are especially important because they encompass the highest concentration of transitions (finally realised as digital 1s) per unit time.

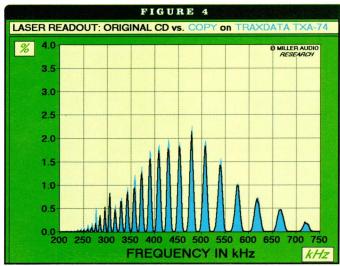
BUMP TROUBLE

We can get a good idea of the relative concentration of 3T, 4T, 5T etc. bump-lengths from the histogram (Figure 3) recovered directly from the laser pick-up of my Lab CD transport (a dissected TEAC P-10). Thanks to Mission Cyrus for the loan of its Modulation Domain Analyser,

used here in combination with proprietary GPIB dataacquisition and VI processing software to yield figures 3-5.

Taken from the first 60 seconds of Lesley Garrett's The Laughing Song (original CD), this histogram shows the relative occurrence of the nine permissible run-lengths (3T to 8T are highlighted in bright blue) along with the one-quarter clock intervals (in grey). We can ignore the latter but, ideally, the bright blue runlengths should appear as sharp vertical lines on the histogram.

I've expanded the 5T bumplength histogram to show that the total of '5T bumps' includes a few closer to '4.9T' and '5.1T' in length. This is caused by wear-and-tear on the stamper used in the CD's injection-moulding manufacturing process. Hence, a percentage of recovered frequencies lie above and below each of these ideal frequencies because some of the bumps are either slightly shorter or longer, respectively, than anticipated.



NEAR IDENTICAL

The histogram in Figure 4 illustrates why the Traxdata CD-R copies sounded closest to our original CD master. Once again, we're looking at all the principal pit-lengths (and quarter clock intervals) recovered by the laser pick-up as it reads the same Lesley Garrett track on both original (black histogram) and CD-R (blue histogram).

The near-identical match between the two discs is

remarkable. This means that the definition, length and (probably) shape of the pits burned into the Traxdata CD-R disc have exactly the same 'quirks' demonstrated by the bumps that are pressed into the original, silver CD! Using my jitter measurement software, the increase in data-induced jitter caused by copying onto Traxdata's CD-R also registered only +0.5 per cent. No wonder our blind listening panel voted this disc closest to the original.

MAXELL



with strung bass sounding more like it was plucked than bowed, our listeners declared that "something wasn't quite right about this one". Vocals were reported to sound less natural and strings slightly mushy rather than crisp or precise. Yet, there was less of the smoothing or veiling heard with other copies, instead the coloration is one of uncertain focus with central imagery

remaining strong but peripheral instruments becoming less distinct. Christy's track was described as suffering a 'lightweight "plink-plonk" character', although there was still plenty of body and resonance. Remarkably, this same 'plink plonk' description was only used on one other occasion by our panel: when the same disc was auditioned in the cheaper NAD CD player! Here the copies were described as "silky but a bit soupy"!

SPECIFICATIONS DISC MAXELL

LENGTH
DYE-LAYER
REFLECTIVE LAYER
RATING

PRICE **№** (01952) 522222

74 MINS

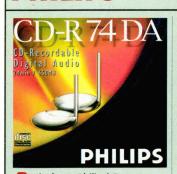
BLUE

5/10

£3.10

SILVER

PHILIPS



At its best, Philips' Far Eastern-sourced disc was likened to a combination of the openness and freshness experienced with TraxData's disc with some of the smoothness of the blue TDK disc. Garrett's soaring vocals were kept under control but delicately open acoustics, like Christy's Reel in the Flickering Light, were unduly dampened. So the music bobs along naturally enough, but it tends to lack darkness and mystery, sounding less atmospheric – somehow artificial or "plasticky" while obviously maintaining the same musical structure. For whatever reason, this was one disc that scored slightly higher with the budget NAD player where its 'bounce' brought a vibrancy and conviction to Garrett's performance that seemed closer to the original.

SPECIFICATIONS

DISC
LENGTH
DYE-LAYER
REFLECTIVE LAYER
RATING
PRICE

2 (0181) 665 6350

PHILIPS
74 MINS
GREEN
GOLD
6/10
£2.75

The new wave in sound.

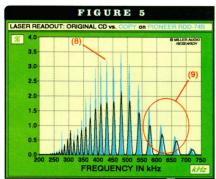






All digital recording media sound the same, right? Not with TDK's new MD-RXG PRO MiniDisc they don't. Better definition, more precise control, an even more 'real' sound. All thanks to TDK's leading edge digital technology. But don't take our word for it. Believe the audio experts from across Europe who raved that the MD-RXG PRO was the most realistic MiniDisc they'd ever heard. So, if you really care what you listen to, there is only one MiniDisc. TDK's amazing MD-RXG PRO.





BLACK AND BLUE

But what of the less successful discs from Pioneer and Maxell? Figure 5 highlights a clear difference between the physical disposition of the pits on Pioneer's CD-R copy (blue histogram) and the equivalent bumps on the original CD (black histogram).

First, although there are no more 5T pits or less 4T pits, for example, than 5T/4T bumps on the original disc, the pits are better defined on the copy. This is indicated by the sharpness of the blue histogram (8), which shows less variation about each

of the 8T, 7T, 6T (and so on) centre frequencies. This 'improvement' over the original is possible because the melted 'pits' are re-clocked onto the CD-R disc with reference to a quartz oscillator within the CD-R recorder And this 'clock' promises a better definition than

the stamper used to press the original CD, provided the CD-R's coloured dye-layer is sufficiently responsive. Which, in this case, it is.

While the Pioneer, Maxell, Philips and - particularly - the TDK discs all produce sharperlooking histograms, there is also a trend for the longest pitrun lengths to be shorter than expected and shortest pit-run lengths to be longer.

This is most obvious with the least-liked Maxell and Pioneer discs and is highlighted by the shift in position of the important 4T-3T area (9) on Figure 5.

This suggests the pit-lengths are no longer integer multiples of the Master Clock period, T (see How it works). Interestingly, the degree to which this shift is observed, tempered by any increase in jitter, broadly correlates with the degree of 'smoothing' and loss in vitality heard by the panel.

CONCLUSIONS

Quite why we experienced such differences is a question we'll leave open to the disc manufacturers themselves. because much of it boils down to the different chemistries

of their vividly-coloured dye-layers. This determines how accurately the pits are formed as the recording laser pulses beneath and how proficiently, in turn, the CD player's laser reads the information back.

Now we can say that Traxdata's TXA74 offers a performance that most closely matches the original while the best of the rest, including TDK's CD-RXG and Fuji's CD-R, offer a slightly smoother and warmer rendition without actually modifying the data itself.

Who said digital audio was simply a matter of 1s and 0s?

TDK



n both high-end and budget CD systems, recordings made on this 'high-tech' CD-R formulation were described as "smoother, possibly slightly more compressed and certainly less weighty". It's as if the music is 'cleaned up' - forced to sound more civilised, but stripped of some spontaneity en route. Nevertheless, one listener

preferred this disc for its lack of any harshness, suggesting that it "sounds very musical, much more analogue".

Other listeners pointed to the slight loss in top-end air and freshness that would otherwise accompany Christy's track and the impression that Leslev Garrett's trademark ebullience was somehow muted. Easy listening, certainly, but accurate listening? Well, that's a different matter.

| SPECIFICATI DISC | TDK |
|--------------------------|---------|
| LENGTH | 74 MINS |
| DYE-LAYER | BLUE |
| REFLECTIVE LAYER | SILVER |
| RATING | 7/10 |
| PRICE | £3.99 |
| 22 (01737) 773773 | |

COMPARISON OF SHIFT AND VARIATION IN PIT LENGTHS, JITTER AND LISTENER'S RATING IN RANK ORDER:

| Recording Source | Max Shift in Pit Length (%) | Max variation in Pit Length | Increase in Data Jitter (%) | Listener's Rating |
|---------------------|--------------------------------|-----------------------------|--------------------------------|----------------------|
| Original Disc | N/A | 5.49kHz | N/A | 10 |
| Traxdata TX Audio | 0 | 5.39kHz | 0.5 | 9 (BB) |
| TDK CD-RXG 74 | 0.3 | 3.97kHz | 0 | 7 (REC) |
| FujiFilm CD-R Audio | 0.4 | 4.45kHz | 2.0 | 7 (REC) |
| HiSpace CD-R Audio | 0.2 | 5.03kHz | 2.5 | 6 |
| Philips CD-R74DA | 0.5 | 4.08kHz | 2.0 | 6 |
| Maxell CD-R74MU | 0.6 | 4.85kHz | 1.0 | 5 |
| Pioneer RDD-74B | 0.75 | 4.14kHz | 0 | 4 |

PIONEER



espite using Pioneer's reference domestic CD-recorder, Pioneer's own discs were the least favoured of the group. Copies invariably sounded a little bland, lacking some treble energy and vitality and, while the bass was 'tuneful', it lacked the solidity of the original.

Complaints from the panel centred on a lack of atmosphere, the music sounding 'more like a rehearsal than the performance'. it was suggested. 'Will you turn the treble control back up?' quipped one listener in response to the slightly muffled and rounded tone of these discs in NAD's player. Even Christy lacked his customary inspiration, the bass line seeming to wander and the music picture lacked drive and focus. Inoffensive then, but clearly lacking the spirit of the original.

SPECIFICATIONS DISC PIONEER 74 MINS LENGTH **DYE-LAYER** GREEN REFLECTIVE LAYER **DULL SILVER RATING** 4/10 £2.49 PRICE **2** (01753) 789500

RAXDATA



his Kodak-sourced CD-R proved a revelation with copies that sounded closer to the original than any other disc. The Theta revealed a slightly 'busy' sound but one that was intriguing, enjoyable and bubbly. The treble proved open, expressive and utterly free of the cloving smoothness that - to one degree or another - persisted

with every other CD-R recording. Whiskeytown's Strangers Almanac remained full of drive and energy thanks to the banjo that retained the spine-tingling jangle of the original.

It was impossible to distinguish copies from originals using NAD's player. Whichever disc was in play, the natural gruffness and character of voice was retained, capturing every quirky phrase. And, for once, Garrett sounded as bright and airy as she had on the original.

| SPECIFICA | ITIONS |
|-------------------------|-------------|
| DISC | TRAXDATA |
| LENGTH | 74 MINS |
| DYE-LAYER | LIGHT GREEN |
| REFLECTIVE LAYER | GOLD |
| RATING | 9/10 |
| PRICE | £2.99 |
| 2 (01753) 891444 | |



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 multi-star ratings. Well, I've been in the press for twentysomething years, and still feel more ignorant than powerful.

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

We hacks get paid to write words, often about components in isolation, because individual product reviews are still the staple diet of the press. They can sometimes provide a useful guide to the way a product performs, but only under the particular circumstances in which the review was conducted.

The hi-fi reviewer attempts, with varying

degrees of success, to evaluate a particular component, and find something interesting (and hopefully positive) to say about it. That's about the end of it, and it's on to the next product.

The magazine prints the review, and that very process magically confers a measure of authority. Experienced hi-fi enthusiasts, who read reviews over a period of years and try out various products themselves, soon start to realise the limitations of that approach. Some reviews are better than others, but none can get to grips with the real heart of the problem - whether a given product will improve your musical satisfaction, in your system and your room.

The Role of the Dealer

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

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

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

For Value

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

of that particular flavour-of-the-month.)

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

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

Putting together a successful hi-fi system might not be as difficult as it was twenty or thirty

"If music is an essential ingredient in your daily diet, you owe it to yourself to become a member of the discriminating minority."

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.

STAR QUALITIES

value for money service facilities verdict



TOP 20 UK SPECIALIST HI-FI DEALERS

LONDON

N1 GRAHAMS HI-FI 190a New North Road 0171 226 5500

SW11 ORANGES & LEMONS 61/63 Webbs Road, Battersea 0171 924 2040

W4 MARTIN-KLEISER Ltd 109 Chiswick High Road 0181 400 5555

SOUTH

Ashford, Kent

SOUNDCRAFT HI-FI 40 High Street 01233 624441

Chelmsford RAYLEIGH HI-FI 216 Moulsham Street 01245 265245

East Grinste

AUDIO DESIGNS

26 High Street 01342 314569

Kingston-upon-Thames

INFIDELITY

9 High Street Hampton Wick 0181 943 3530

Lakeside Retail Park

RAYLEIGH HI-FI

Dansk International Furniture World 01708 680551

Rayleigh, Essex

RAYLEIGH HI-FI

44a High Street 01268 779762

Southend-on-Sea

RAYLEIGH HI-FI 132/4 London Road 01702 435255

Uxbridge UXBRIDGE AUDIO 278 High Street.

278 High Street, 01895 465444

MIDLANDS
Banbury OVERTURE

3 Church Lane 01295 272158

Birmingham SOUND ACADEMY 152a High Street, Bloxwich 01922 493499

Leicester CYMBIOSIS 6 Hotel Street

0116 262 3754 Northampton LISTEN INN

32 Gold Street, 01604 637871 Shrewsbury CREATIVE AUDIO

9 Dogpole 01743 241924

NORTH

Cheadle (Stockport)

AUDIO CÒUNSEL 14 Stockport Road 0161 428 7887

Oldham AUDIO COUNSEL 12/14 Shaw Road 0161 633 2602

Sheffield MOORGATE

ACOUSTICS 184 Fitzwilliam St 0114 275 6048

0131 557 1672

SCOTLAND

RUSS ANDREWS HI-FI 34 Northumberland Street

Glasgow STEREO STEREO 260 St. Vincent Street 0141 248 4079

ON TEST CDPLAYBRS

Do you really have to spend seriously big bucks to get what you want from a CD player? Alvin Gold (listening tests) and Paul Miller (lab tests) lend an ear to the latest offerings.

| THE CAST LIST | | |
|-------------------------|---------|-----|
| Audio Analogue Paganini | £750 | p79 |
| Cyrus dAD1.5 | £399 | p73 |
| Denon DCD-435 | £129.99 | p67 |
| harman/kardon HD740 | £299.99 | p75 |
| Kenwood DPF-3010 | £179.95 | p68 |
| Micromega Premium 18 | £650 | p80 |
| NAD 524 | £250 | p69 |
| Pioneer PD-S507 | £190 | p71 |
| Rotel RCD-951 | £300 | p77 |
| Sony CDP-XB920 | £299.99 | p78 |
| Talk Thunder 2 | £699.95 | p81 |
| Yamaha CDX-493 | £179.95 | p72 |

GLOSSARY

DIGITAL CONVERTERS: The slice of

silicon that converts the digital music

data off disc into an analogue (music-

like) waveform. They come in various

forms: multibit, Delta-Sigma, the one

bit or Bitstream type and variants. dCS

(through Arcam) has just introduced

e can no longer talk of recorded audio on small silver discs as being synonymous with compact disc. You can't buy one yet, but the introduction of the audio variant of DVD, DVD-A, and the Sony/Philips audiophile disc, SACD, are close enough to be a factor in any CD player-buying decision made right now, and some segments of the market for players are already suffering as potential buyers play a 'wait-and-see' game.

Wait for what? Well, both the new audio media are scheduled for launch this year, but that's in Japan and, just possibly, the US - and even then, we're talking tiny quantities, high prices, very few recorded titles and, certainly, immature performance standards. There is still a lot of confusion about what form the players and software will take, if only because so many options have been left open to the record companies to make the kind of disc that they feel they can sell.

There are strong rumours that SACD will launch initially in twochannel form to meet Japanese home market requirements, which from the UK vantage point suggests they might have lost the plot. One thing we do know about both new media is that players at least will will be backwardscompatible with ordinary CDs, which underlines much of the current 'wait and see' thinking.

If this is the case with you, think again. We already know from our experience with DVD-V that CD replay works physically, but that sound quality suffers, and while there are relatively inexpensive CD players that offer the performance standards of the best of this month's group, your existing investment in compact disc is undoubtedly best served by having a dedicated CD player. This





From top to bottom: Audio Analogue Paganini p79 Cyrus dAD1.5 p73 Denon DCD-435 p67 harman/kardon HD740 p75 Kenwood DPF-3010 p68







the Ring DAC, a radical technology

that largely overcomes the failings of both multi and one-bit DACs. FILTERS: Intrinsic to digital audio is the extensive use of filters, both analogue and digital. These are often very sophisticated in design, and in sum total probably have more to do with the 'personality' of a CD player's sound than most other factors.

OUTPUT IMPEDANCE: A measure of resistance to alternating current, representing a music signal in this case. A low output impedance (say, below 100 Ohms) helps ensure compatibility with most amplifiers. A high impedance, especially in conjunction with an amplifier with a low input impedance (some are as low as eight kOhms, though the standard is 47-100 kOhms) can result in audible loss of treble. JITTER: Jitter represents the uncertainty in the timing of digital signals. High values have such effects on

sound quality as harshness and loss of

resolution. State of the art is a bit

below 150psec, but figures over

1000psec are not uncommon.

is especially the case as compact disc will continue to be the main repository for the world's library of recorded audio for many years to come, no matter how successful a launch the new high-resolution media enjoy.

In this context, it is encouraging to find that the standard of CD replay hardware (and, indeed, the recorded material on which it is

dependent) continues to improve, or at least the best of it continues to improve. As one of the panel members so rightly pointed out during the tests, the kind of quality levels routinely available from quite inexpensive players today would have been available only from much more costly players a few years ago, if it was available at all.



CD/DVD Players

A II CD players offer a basic selection of facilities, and some can keep you entertained for hours as you programme in disc names and track orders. All but the excessively inexpensive feature remote control. Most CD players can be upgraded by adding an outboard DAC (see below). To do this the player needs a digital output of either electrical or optical type. The former is preferable for the ultimate sound. A CD player can be split into two basic components: the disc drive or transport, and a device which converts the disc's digital bitstream into an analogue audio signal. This is called a digital to analogue convertor, or DAC. Although most players are contained within a single box, expensive players are usually two-box affairs. The first new DVD players have not excelled with CD software.

KEY TO SPECIFICATIONS

- ELECTRICAL DIGITAL OUTPUT: For electrical connection to an outboard DAC.
 AES/EBU ELEC DIG OUTPUT: Balanced digital output to be used with similarly equipped DACs.
- OPTICAL DIGITAL OUTPUT: For optical connection to an outboard DAC.
- ST OPT DIG OUTPUT: High-speed optical output to be used with similarly equipped DACs.
- BAL ANALOGUE OUTPUT: Balanced analogue output for amplifiers equipped with balanced inputs
- HEADPHONE SOCKET: For 'can' users.
- VARIABLE OUTPUT: Remotely adjustable output level (usually non-audiophile).
- MULTI-DISC: Equipped with a carousel or

multi-tray system for continuous play of multiple discs

● DAC TYPE: BS – Philips Bitstream; MB – multibit; Hyb – hybrid of multibit and bitstream technologies; 1bit – single bit types eg MASH, bitstream, PWM, etc; CC – constant calibration

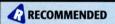
● FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full information, see the Factsback advert on the penultimate page of the magazine. ● ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

High End Review

SPECIFICATIONS

Factsback information page.

💋 BEST BUY





CD/DVD Players OPTICAL DIG OUTPUT AES FRU ELEC DIG OUT ST BAL MEADPHONE MUST DAC OPT DIG OUTE OUT OUT OUT OUT OUT OUT FACTSBACK NO. DAC TYPE First-rate if costly player, which combines a delightful transparency with an uncontrived na Acoustic Precision Fikos 1bit 165 Seriously customised Pioneer with extraordinary resolution and world beating imaging and bass Alchemist Kraken Distinctive looking player likely to suit a Alchemist system, but will result in variable results elsewhere 24/96 190 Alchemist Nexus APD32A Refined treble, constrained yet capable bass and attractive all-round presentation 169 Hyb Has balanced output, but is otherwise rather grey and unremarkable AMC CD8A 150 BS 2071 172 Beer-budget two-box system (player + DAC) is smooth, attractive and easy on the ea Anthem CD1 1.595 Unusual combination of high-end player, complete with HDCD, and changer. Good, but noisy MB 2219 178 Arcam Alpha 7 1872 330 Mildly rehashed favourite comes up smelling of roses Arcam Alpha MCD Excellent bass and natural midband, but just a touch of treble dryness, from this very listenable changer MB 2220 4 520 Refined, intricately detailed but a little cautious. Should be broadly compatible with a variety of amps BS 1873 Arcam Alpha 8 163 Excellent (and ve y reasonably priced) HDCD-compatible player is a strong all-rounder Arcam Alpha 9 Refined, a ticulate player which employs new DAC technology to great effect ng DA Audio Research CD1 163 Suspends disbelief with a real yet obviously coloured sound. A rare proposition among CD players BS 1875 3 290 Audio Note CD1 Easy on the ear, and for a valve player, easy on the pocket, but a bit Radio 2 flavoured AVI S2000MC2 A chip off the old block. This model's in-yer-face balance obstructs an otherwise finely detailed sound 899 MB 2179 176 AVI S2000MC Reference Lean, dry, high resolution player, built to outlast most of us. A fine performer in a sympathetic system MB 169 Cambridge Audio CD4 Basic appearance and sluggish track access/track search belies its up and at 'em sound quality 147 Hyb 1268 Cambridge Audio CD4SE Among the best encountered at the price, considerably more refined and convincing than the CD4 163 BS A sharp, articulate player, a real thoroughbred in fact, perhaps too sharp and lively for some systems Cambridge Audio CD6 MB 2183 Copland CDA-266 Simple yet elegant design is unexpectedly sophisticated under the skin, and effective in execution 176 Copland CDA-288 A gentle giant of a player that errs in favour of pastel shades rather than bold daubs of colour MB 1880 163 Cymbol CDP12 1,299 Clean, detailed and airy HDCD-equipped player with minimalist trappings Hyb 176 Cyrus dAD1 398 Typical excellent Cyrus packaging, but sonically more enthusiastic than polished 188 Hvb A relaxed style of delivery that convinces with guile and subtlety rather than orchestral ordnance Cyrus dAD3 BS 1887 163 Cyrus dAD3Q 898 Lucid, transparent and uncontrived sound quality, superb build, and readily upgradeable MB 180 Modest presentation gives little clue to the thoroughbred electronics ticking away inside Denon DCD-625 DCD-615 replacement is generously equipped but lacks sophisticated sound of its forebear MB 1269 147 200 4 Denon DCD-835 Refined version of Denon's multibit technology is a bit of a star MB 184 280 Denon DCD-1550AR MB 2266 Disappointing bland and ploddy sound from an immaculately constructed, high tech player 179 MB Denon DCD-1015 350 Excellent, mid-range player - fast, fluid and lean 1599 141 Denon DCD-3000 Sings with the temperament of a huge orchestra under the baton of a timid conductor MB 163 1,000 Exposure CD player Slightly weak sounding, but otherwise well optimised, if costly player MB 188 A player of integrity, but can sound a bit hard and rough when extended, and is amplifier fussy 1bit 159 harman/kardon HD710 Competitive at the price, with a coloured but dynamic and outgoing sound, good features BS 1957 166 harman/kardon HD730 MB 2220 178 harman/kardon FL8300 300 Generally capable changer with relaxed sound and firm bass. Just a hint of roughness on occasion 1bit 2180 4 Helios Model 2 This player may not be to everyone's taste, but it is an individual, with some interesting things to say 176 Helios Model 3 650 Disappointing entry level model from Helios lacks verve and transparency. DS 188 4 JVC XL-V184BK Excellent budget player, well presented, a little opaque, but its heart is in the right place 1bit 2072 172 120 Featuring a new set of bitstream innards, this flexible player has a refined sound 1bit 1270 147 JVC XL-V284BK 1bit 159 IVC XI-7574 250 Strong resolving power, good midband and dynamics, but slightly raw and thin 1bit 1637 151 IVC XL-Z674BK Even-handed, but glosses over the most intimate moments Kenwood DP-3080 Bold, dynamic and outgoing sound, though somewhat aggressive. Poor build quality and finish Kenwood DP-4090 Focuses a clear, wide aperture lens on the music — and has CD Text too! 1bit 2267 Kenwood DP-5090 Disappointing senior brother to the excellent DP-4090, but surface interface is good 179 B MB Kenwood DP-7090 400 A lively and compelling performer with an even-handed and coherent disposition Useful multi-room features matched to strong bass, but poor imagery and transparency Hvb 1762 155 1bit 2077 Somewhat inconsistent, middle ranking player which hints at better things 172 Marantz CD-48 BS 2268 179 Marantz CD-67 Mk II The digital equivalent of a safe pair of hands. Smooooth BS 184 Marantz CD-67OSE MkII Lacks dynamic consistency to justify the stunning performance with simple material Marantz CD-63 MkII KI Sig 400 It's the quintessential sound of Marantz – warm, open, and smooth almost to a fault Hyb 169 1763 Marantz CD-17 Fabulous packaging and an excellent all round performer: smooth, detailed and consistent BS 155 Marantz CD-17KIS Minor QC problems aside, this is a superbly turned-out machine, but ultimately a little bland BS 176 4 1.100 Meracus Tanto Believable tonal colours and textures, refinement takes preference over dynamics – but it's not cheap DS 169 Revised 506 includes MSR remote and a new D/A chip, which makes it livelier and more detailed Meridian 506

| T | AD /F | 1 | ID DI | SPECIFICATIONS | Season Season | | |
|--------|-------------------------------|---------------------|--|--|-----------------------------|-------|-----|
| Person | (:I)/I | 11 | /II PIQUARC COM | AES/EBU ETCAL ST OPT ANALOPHOLABLE MULT DA FACT | SPISSUE | | |
| ı | UD/ I | " | D Players | SE EBU PICAL DIG OUT OUT OUT OUT OUT OUT | ISSUE NO. | UMBER | |
| ar. | | | | · 07 · 07 · 07 · 117 · 1 | 2000 | | |
| en. | PRODUCT Ionrio Privilege | (£) 995 | Costly and well-engineered, but ultimately rather heavy-handed and dull, if refined player | | MB | 1963 | 166 |
| | Iusical Fidelity E60 | | This entry-level player lacks proper stereo localisation and clarity | • • | | 1959 | 166 |
| N | lusical Fidelity E624 | 500 | Similar to X-RAY, but both better sounding and cheaper | | MB | | 188 |
| V | lusical Fidelity A2 | 500 | Warm (too warm), attractive and open player, a great improvement on (related) E60 | • | BS | | 169 |
| N | Musical Fidelity X-RAY | 799 | Brilliantly packaged and clean but slightly antiseptic sounding player | | MB | | 184 |
| | Nyryad T-10 | 400 | Rather ordinary player fails to shine with good music recordings | | DS | | 184 |
| | lyryad MC100 | | A little extra get-up-and-go wouldn't go amiss, but its sheer maturity and composure ensure list | | BS | 1889 | 163 |
| | NAD 522 | | Well-built, attractive player, showing much promise, but can be a little heavy-going. on audition | <u>• </u> | 1bit | 2185 | 176 |
| - | IAD 522 IAD 512 | 170 250 | Crude, mechanical sounding player fails to tickle the music buds Simple, well-focused presentation, and articulate with it. Hard-nosed quality is not everyone's | cup of tea | 1bit | 2202 | 159 |
| - | IAD 514 | 370 | Boisterous sound, but undeniably attractive | e cup or icu | BS | 1639 | 15 |
| | AD \$500 | | 24-bit player with considerable transparency and bass grunt | • • | MB | | 189 |
| N | laim Audio CD3.5 | 1,000 | Forward and explicit sound needs careful system matching | | Hyb | | 188 |
| N | laim Audio CD2 | 2,000 | Provides bags of detail with a solid stereo focus but not all the romanticism we know to be | possible | MB | 1890 | 163 |
| N | aim NACDSII/XPS | 5,625 | Brings you the Naim sound, but for once doesn't have to rely on Naim ancillaries to get th | e results | MB | | 188 |
| | Inkyo DX-7210 | 260 | Well-bred CD player features an unusual digital filter, is smooth and cultured without appearing | ng boring • • | BS | 1273 | 147 |
| | nkyo DX-7510 | 400 | Strongly flavoured, assertive sound | • • | | 1640 | 15 |
| - | Orelle CD-100EA | 649 | Excellent imagery, timing and transparency, and readily upgraded or reconfigured | | | 1964 | 160 |
| - | arasound C/DP-1000 | 499 | Comes on like a high end player, but ultimately sounds a tad weak and soft-centred | ignal lead | Hybric 1bit | 1 | 184 |
| | hilips CD-721 hilips CD751 | 130 150 | Surprisingly well-sorted, articulate if slightly glossy and attractively presented sound. Captive s Inconsistent and occasionally opaque and scrawny sounding cheapie | iglial icau | 1bit | | 172 |
| | ioneer PD-S705 | 300 | Inconsistent and occasionally opaque and scrawny sounding cheaple This machine was loved by some for its articulacy and disliked by others for sounding too ir | mpressive! | - | 1891 | 163 |
| | ioneer PD-S707 | | Idiosyncratic Legato Link dominated sound, but always subtle and interesting | ilpressive: | MB | .551 | 18 |
| | ioneer PD-F906 | | Interesting appearance and concept, but this changer's sound is lacklustre and ergonomics f | rustrating • • | - | 2223 | 17 |
| - | ioneer PD-S904 | 400 | Too much legato – literally – in sound, but a very smooth performer | • • | 4004 | 1641 | 15 |
| P | ioneer PDS-06 | 550 | Technologically sophisticated. Pioneer's first multi-bit player for years is polished and capable | e • • • | MB | 2176 | 176 |
| Pi | ioneer PD-S505 Precision | 460 | Assured, fluid-sounding player, with great spatial coherence | | 1bit | 1965 | 16 |
| - | rimare D20 | 799 | Well presented player doesn't quite cut the mustard, though it performs promisingly | | BS | | 188 |
| |)uad 77 | 900 | A true thoroughbred combining a penetrating insight into detail with poise rarely found at the | ne price | | 1893 | 16. |
| | evox Exception E426 | | Very stylish with a light, agile sound that extends superbly and has fine timing | • | BS | | 18: |
| | oksan DP3P | 1,495 | Dramatic and compelling. Classical listeners should be ready to 'air conduct' when auditioni | | BS | 1896 | 16. |
| | oksan Caspian otel RCD-971 | 895 | Solid, articulate, and fundamentally well-engineered player, but with some subtle low-level I | imitations | Hyb MB | | 169 |
| - | otel RCD-970BX | 350 3 7 5 | Odd disc handling logic, but bold, detailed and refined sound make this a must A combination of solid build, useful facilities and an attention-grabbing sound make this a w | | | 1897 | 16. |
| | herwood CD-4030R | 180 | Easy on the ear, smooth-sounding player, with limits set by the slightly soft, compressed qu | The second secon | BS | 1037 | 159 |
| - | herwood CD1 | | A very neutral, even handed sounding player, with an rather flat, lifeless sound. Beautiful cons | | BS | 1899 | 16. |
| | ony CDP-XE310 | 140 | Excellent value and bright as a button, but can sound OTT in some systems | • | 1 bit | | 179 |
| S | ony CDP-XE510 | 180 | Souped up CDP-XE500 which tells a rather bland and unengaging story | • • | 1 bit | | 172 |
| S | ony CDP-XB720E | 200 | Good basic performance and a number of filter settings make this an interesting player for | tweaks • • | Low bi | it | 184 |
| S | ony CDP-XE900E | 300 | Refined and analytical disc scavenging tool, some distinctive colorations make auditioning vi | ital • | BS | | 159 |
| | ony CDP-XA20ES | 450 | High tech, with a long list of gadgets, oddly configured player that ultimately sounds less than c | ompelling • • | | 2177 | 17 |
| | ony CDP-X3000ES | 500 | Shoebox format player, looks to die for, switchable digital filters to tweak the already excelle | nt sound • • | BS | | 16 |
| | +A CD1210R | | Intriguing player with rather pushy basic sound, but has switchable digital filters. | • • | DS | | 18 |
| | AG McLaren CD20R | _ | Dry and unatmospheric, but plenty of presence – recommended with caution | | BS | | 18 |
| | eac CDP-3450SE | 200 | For once a budget player where gadgets take second place to respectable, budget amp-frier | | | | 16 |
| | eac CD-5 | 350 | Bright, breezy and up-beat – but short in the trouser department | • | | | 15 |
| | eac VRDS-7 eac VRDS-8 | 599 600 | Although bold and outgoing, this player can sound both intrusive yet lacking in fine detail Superb build quality is matched to good, but not exceptional sound quality | | BS MB | 1769 | 15 |
| - | eac VRDS-9 | | Well-presented. This Teac is crisp, yet shallow, and inconsistent in sound quality and partnering | g skills | _ | 2178 | 170 |
| | eac VRDS-10SE | 850 | Superbly built and presented, but rather leaden bass, with an over-prominent mid/top | 0 | BS | 2170 | 16 |
| - | eac VRDS-25 | | A solid player in all respects, combining powerful sound with state-of-the-art technology | • • | | 1903 | 16 |
| - | echnics SL-PG480A | 130 | Full driving sound, but somewhat uneven in balance with a unsubtle, slightly harsh top end | | 1bit | .505 | 159 |
| | echnics SL-PS670D | 200 | Fine, middle ranking player which sounds solid, sometimes even a little stolid | | | 2264 | |
| - | echnics SL-PS770D | 250 | High tech and well built technology battleship which smooths the rough edges off the musi | c • • | | 2080 | _ |
| - | echnics SL-MC410 | 250 | If you fancy a CD player that holds 111 discs, this one's cheap, pretty capable, and easy to u | se | Hyb | 2224 | 17 |
| | hule Spirit CD100 | 600 | Definitely a try before you buy machine, but the bass and mid are excellent | | DS | | 18 |
| - | richord Genesis | 549 | Breathed-on Pioneer is warm and mellifluous, but ultimately lacks drive and authority | | Hyb | | 16 |
| - | richord Revelation | 799 | Well-ordered and clean sound that may be a little too refined for some, images well | | the second section and area | | 16 |
| - | TC CDP-1 Vadia W830 | | Bright and sometimes abrasive, but detailed player | control | | 2186 | 17 |
| - | Vadia 860 | | Envelope busting dynamics, power and imaging in a rather unexciting box (digital volume Flagship CD player has unique digital volume control, superb neutrality and awesome bass | | MB | | 18 |
| | amaha CD-X993 | 400 | A bit of a lush, though the sound is singularly free of grain, and equipment levels are stron | A STATE OF THE PARTY OF THE PAR | MB BS | | 18 |
| . ' | aand CD NOSS | 100 | The second and second is singularly free or graff, and equipment levels are study | | ບວ | | 10 |
| | TRANSPORTS inn Karik | 1,850 | Based on early Linn transport, the Karik is dry but very positive, detailed and engrossing | • • | | 1777 | 14 |
| | S Audio Lambda | | With Ultralink Two, sound positively sparkles with colour and resonant detail | | | 1323 | 133 |
| | oksan Attessa ATT-DP3 | | Not the most detailed or refined but capable of sounding exciting with the right material | | 1hit | 1867 | 16: |
| | eac VRDS-T1 | 550 | Superb quality engineering is mated to tidy and composed sound (tested with D-T1) | • • | IDIL | 1325 | 144 |
| T | heta Data Basic II | | Uses a Philips CDM9 Pro mechanism and works a treat with more lively DACs | | | | 130 |
| | horens TCD2000 | 999 | Lively presentation not helped by rather loose bass and splashy treble. (Tested with TDA 20 | 00 DAC) • • | | 1867 | 162 |
| | richord Digital Turntable | 699 | Very detailed, precise, controlled yet involving; a first-rank performer | | | 1867 | 162 |
| M | Vadia 8 | 3,195 | Budget version of Teac's VRDS mechanism in a fancy case; too expensive for the performance | on offer | | 1495 | 130 |

Premiumita 13 5921







GROUP A

£129-£250

GROUP B

£251-£400

GROUP C

£401-£750



HINTS & TIPS

Extracting the best from your CD player is, to a large extent, a matter of common sense. CD players don't like being run from cold, so don't expect the best sound for the first half hour or so, unless yours is one of the growing number with a standby feature. Ideally, try to avoid stacking the player on top of other hi-fi components, especially if it's a copious heat generator like an amplifier, but if needs must, then try to arrange some space and mechanical

CD PLAYERS GROUP A

£129-£250

Most of the CD players sold in this country are found in the price band up to £275, and competition is fierce. Here are five new or recent additions to your dealers' shelves, all of which offer strong equipment levels while in most cases at least paying more than lip service to the cause of better sound quality. One of the models of greatest interest is the Denon DCD-435, which costs £50 less then its nearest competitor. Does it stack up to its rivals, or is this too little to pay for serious music making? Conversely, is the extra outlay for the others really ploughed into better sound? **Denon DCD-435** £129.99 Kenwood DPF-3010 £179.99 NAD 524 £250 Pioneer PD-S507 £190 Yamaha CDX-493 £179.95

SONY Greet Falls DA Granner And START - Will START - WI

LEFT top to bottom: Micromega Premium 18 p80, NAD 524 p69, Pioneer PD-S507 p71, Rotel RCD-951 p77,

BELOW top to bottom: Sony CDP-XB920 p78, Talk Thunder 2 p81, Yamaha CDX-493 p72





CD PLAYERS GROUP B

£251-£400

Our middle group this month come from four very solid middle market names, and represent four very different design traditions, the result of which is more than routinely interesting. Note that three of the four - the harman/kardon, Sony and Rotel - are at the strategically important £300 price point. Only the Cyrus model, which replaces the previously tested dAD1, breaks the mould by selling for £395, which you might reflect on as the price you pay for the unusual, glamorous and space-saving packaging. One clear message that comes over from this strong group is that there really is good reason for paying more.

| Cyrus dAD1.5 | £399 |
|---------------------|---------|
| harman/kardon HD740 | £299.99 |
| Rotel RCD-951 | £300 |
| Sony CDP-XB920 | £299.99 |

CD PLAYERS GROUP B £401-£750

Do you know the one about the Englishmen, the Frenchman an the Italian? You don't? Then read on to find out how national stereotypes live up to scrutiny, or whether ideas about how CD players should sound transcend such artificial barriers. The answer is not a straightforward one, and the real curiosity here is that although our three protagonists really couldn't look much different, there is a distinct family feel about the way they perform. Points of particular interest in this case include this burning question: do any or all of these players comprehensively trounce the less costly models in the cheaper groups? And the answer is...

| Audio Analogue Paganini | £750 |
|-------------------------|---------|
| Micromega Premium 18 | £650 |
| Talk Thunder 2 | £699.95 |

HOW THE TESTS WERE DONE

ur eleven compact disc players were subject to the usual battery of tests, including a close physical examination, unsighted panel-based listening tests in a high-grade system, hands-on listening, mainly using a more representatively priced range of speakers and amplifiers, and a computerised measurement test programme. Each player was run in and warmed up prior to being auditioned.

isolation between the layers, as it were.

We have found that Sorbothane rubber

good results (but they don't like heat).

isolating feet can give surprisingly

Panel testing, spread over two days, included a large number of repeats, with no panel member knowing the identity of the player on test, and with levels carefully normalised between test runs. The system used for these tests

included a Musical Fidelity X-P100/ X-AS100 pre/power amplifier for the unsighted and hands-on tests, and the unfeasibly expensive Egglestone Works Rosa speakers. Speaker cables and interconnects were from Nordost.

Hands-on listening references included an Arcam Alpha 10 integrated amp and an NAD T-750 AV amp used in stereo mode, and speakers included were from Tannoy (the R1), Celestion (the A1) and others. The CD player used for reference purposes was the Primare D30.2

THE LISTENING PANEL

Once again, our thanks go to those who contributed their listening skills and

time – industry luminaries one and all. This month's panel included: David Gamble (NXT), David Inman (Castle), Julian Maddock (Mission), Keith Haddock (JBL & harman/kardon), Robin Marshall (NXT), Terry Murphy (Yamaha) and Russell Kaufmann (Morel & Densen). The local Pizza Express provided suitable sustenance once we had bribed them into turning the ruddy background music off. If you're reading this, Mr Pizza Express, the address for letters is on page 3.

WHAT MUSIC DID WE USE? Extracts from the following four CDs were used for the blind panel tests:

WEBER: Clarinet Quintet I: Allegro/Anthony Michaelson etc – Musical Fidelity MF028 ALISON KRAUSS: Now That I've Found You from the album of the same name –

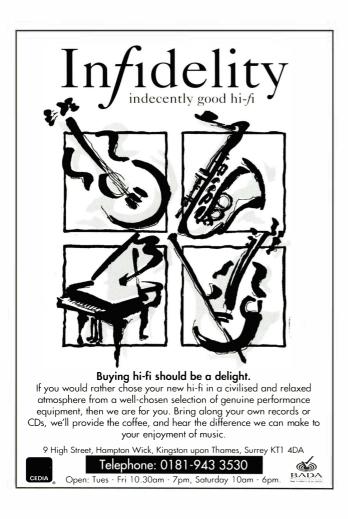
Rounder CD 0325

PROKOFIEV: Piano Concerto No 1 III:
Allegro scherzando/Martha Argerich

Allegro scherzando/Martha Argerich (piano)/Dutoit/Orchestre Symphonique de Montréal – EMI Classics 7243 5 56654 2 3

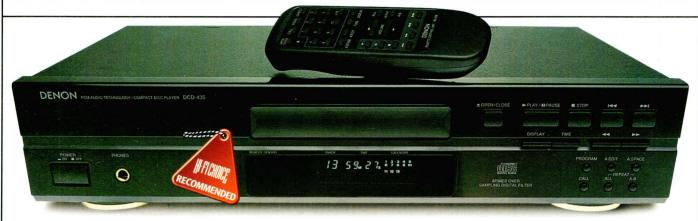
JAMES TAYLOR: Line 'Em Up from Hourglass – Columbia 487748 2 Plus various others, including HDCD titles for the solitary compatible player from Rotel, for hands-on testing.







DENON DCD-435



eplacing the DCD-425 (reviewed in issue 147) and intended as a matching partner for the PMA-250SE amp and TU-215 tuner, this is Denon's new entry-level player – and a strong candidate for inclusion in any low cost hi-fi system. It seeks to combine sensible engineering with low build costs and features that will give it wide acceptability. Physically, it is a lightweight with a simple plastic fascia, but the mechanism is smooth and quiet and the display can be dimmed or switched off, with some benefit to sound quality.

The digital clockwork includes a Burr Brown 1716 Delta Sigma DAC, with noise-shaping and 8x oversampling digital filters. An optical digital output is fitted for connection to a MiniDisc or CD-R, and play features include random track access and an output volume control, both on the remote only, the latter varying the output of the player's main output and the headphone socket. This isn't such a clever idea, although it might have been done for cost reasons. Ideally, the control should

"Physically this is a lightweight with a plastic fascia, but the mechanism is smooth and quiet and the display can be dimmed or switched off."

be limited to the headphone feed or omitted altogether. A full range of programme and tape editing features are included, many of which are only accessible from the well featured yet ergonomically sound remote control.

SOUND QUALITY

The hands-on testing painted a picture of a slightly ill-disciplined but fundamentally quick-witted and likeable player. Commenting on the Weber clarinet quintet, one panel member felt that imagery was well defined, but the stringed instruments lacked naturalness, while another wrote that the clarinet was edgy. 'I quite liked this player,' another remarked, 'but the

strings have a slight buzzy and tizzy quality.' Allison Krauss' voice sounded 'less angelic and less smooth' than usual, and if the Prokofiev recording was not as well defined as with earlier players wheeled out that day, it was 'reasonably enjoyable' - although one listener remarked string tone was 'grainy'. With the throttles wide open, James Taylor was felt to 'lack force' and sound 'polite and rounded', although the panel member also felt the player would be a good long-term bet, perhaps because of this natural restraint.

Each of the panel members had their own take on this player, but there were common factors including a slightly congested treble, which may be jitter-related, and a lack of deep, subterranean bass, although the midband was sound and the player bounced along nicely when necessary. In hands-on testing the player sounded rather shallow in tone, with modest levels of detail and constrained dynamics, but tonally and spatially the Denon performed up to par, and was notably consistent from system to system.

CONCLUSION

It's easy to pick holes with this player, but the price is extremely keen and the trade-offs are well judged. As one panellist put it: 'If this is a cheap CD player, it's astonishing compared with what was possible a few years ago. If it's expensive, it's barely average.' At £130 it's not merely inexpensive, it's practically a giveaway, and it's undeniably value for money. This earns it a Recommended flag, although ultimately the Denon's musical horizons are necessarily strictly limited. AG

| VERDICT | | |
|---------------|------------------------|--|
| SOUND | 00000 | |
| BUILD | 00000 | |
| VALUE | 00000 | |
| PRICE | £129.99 | |
| Fine low-cost | player, with plenty of | |

Fine low-cost player, with plenty of features for dubbing CDs and an attractive, enthusiastic, if not especially detailed or refined performer.

■ TWO YEAR GUARANTEE

☑ Hayden Laboratories Ltd, Hayden House, Chiltern Hill. Chalfont St Peter. Bucks SL9 9UG ② (01753) 888447

THE LAB REPORT

What's this? No 'Lambda Processing', 18-bit or 20-bit logos to grace the fascia? Even Denon's colourful brochure can't quite bring itself to use the 'bitstream' word because – yes, folks – the DCD-435 is Denon's first non-multi-bit CD player. Gracing this seminal product is nothing short of Burr-Brown's 24-bit PCM1716E DAC (see the NAD 524 test), which explains the Denon's much-improved low-level linearity (+0.3dB/-0.4dB).

Jitter is high at 897psec, but that's not uncommon at the price (unless your name is Sony) and is composed of two very characteristic series of 'colorations'. One is related to interference

from the power supply and the other is a highly specific pattern that repeats at intervals of 590Hz. The former will add a warmth or 'bloom' to the player's bass while the latter might give it a subjective 'edginess'.

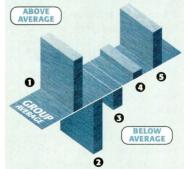
Odd-order intermodulation distortion amounts to a high-63dB where, at peak output, THD also climbs quite alarmingly at high frequencies. Unlike the DCD-835 reviewed in *HFC* 184, this increase is consistent between left and right channels and is a design, rather than an obvious QC issue. I can only assume that Denon knows THD amounts to 0.14 per cent at 20kHz/0dBFs, a figure that's atypical for the PCM1716 converter. Either way, the DCD-435 will sound

quite unlike all previous budget players from this popular stable. PMi

HOW IT COMPARES

This player is strained at peak output where distortion rises to 0.006 per cent (0.15 per cent at 20kHz) but is actually lower at -30dBFs, yielding an impressive 0.002 per cent. BB's DAC ensures spurious digital images are well suppressed, but jitter suffers.





SPECIFICATIONS

| PARAMETER | MANUFACTURER'S SPEC. | ACTUAL SPEC. | |
|---------------------------|----------------------|--------------|--|
| ■ Distortion @ 1kHz/0dBFs | 0.005% | 0.006% | |
| ■ Maximum output level | 2.0V | 2.2V | |
| ■ A-wtd S/N ratio | 103dB | 104.3dB | |

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KENWOOD DPF-3010



owards the bottom of the broad price band covered in this test, the DPF-3010 replaces the DP-3080 Mk II, but it turns out to be a very different animal under the skin. A rather busy-looking mid-engined player the transport was previously on the left - the DPF-3010 features an upgraded version of DRIVE (Dynamic Resolution Intensive Vector Enhancement) technology, a digital low-pass filter intended to reduce step (quantisation) distortion. The power supply has been improved and the signal path has been significantly shortened. So why does it sound worse?

The Kenwood is well endowed with features that are important to many at this end of the market, leaving it looking over-dressed. Besides the remote control, the Kenwood offers a random access track keypad and a display with a matching calendar-type readout — irritatingly, without the usual option of dimming or dousing the display using the native controls or the remote handset.

But there are some useful tape editing features, including a peak search facility to help set record levels, and from the remote control – a neat, chunky number – it is possible to adjust the main analogue output, but, as is often the case, using the full output and adjusting levels on the partnering amplifier instead usually delivers noticeably better sound quality. The DPF-3010 is also CD Text ready. It won't show CD Text titles in its own display, but digitally made MD dubs will include CD Text information.

Rear panel socketry is limited to an optical digital output and a pair of system link sockets for existing Kenwood owners to allow a complete system to be operated from a single handset — oh, and headphones can be connected.

SOUND QUALITY

'I struggled with this,' was a typical comment after the player's first presentation to the panel. 'It sounds toppy and would prove tiring in the long term.' Another described it as 'too recessed, and with messy timing,' noting that the Allison Krauss sounded coarse, and the player generally sounded increasingly messy as the complexity of the music increased.

"There are some useful tape editing features, including a peak search facility to help set record level, and you can adjust the analogue output."

These opinions were repeated with remarkable consistency the second time through, although this time the shallow bass was highlighted, along with what was described as a 'slightly artificial rhythm kick', which often goes hand-in-hand with a lightweight bass balance.

Most of all, though, it was the lack of clarity that was highlighted, leading to such descriptions as 'synthetic', 'localisation difficult to pin down', 'something cloudy about the detail' and 'tonally bright'. The tonal imbalance, which is related to the earlier comment about sounding recessed — a recessed midband is another way of saying that treble is exposed — was also apparent in the hands-on

tests. However, the high-output impedance will result in losses of extreme treble with some amplifiers – those with a low input impedance or which use long, high-impedance cables such as some of the van den Hul carbon types.

CONCLUSION

The bright, lean sound is probably a reflection of design priorities that favour other markets. By UK standards, the lack of information is a severe impediment, and it's disappointing to find that the DP-3080 Mk II's replacement is inferior to the original.



Upfront yet lacking clarity, this rather Germanic-sounding player is an inferior follow-up to the DP-3080 Mk II.

■ ONE YEAR GUARANTEE

☑ Kenwood Electronics UK Ltd, Kenwood House, Dwight Road, Watford, Herts WD1 8EB ☎ (01923) 816444

THE LAB REPORT

Although this DPF-3010 replaces Kenwood's DP-3080 (HFC 159), my test results suggest that the two players have little in common. The higher levels of stopband images certainly indicate that the 3010 uses a different digital filter technology to the 3080 and also points to some unpredictability in partnering it with different amplifiers. The high-ish 770 Ohm output impedance also renders it more cable/ampsensitive, although this player's distortion is improved at <0.02 per cent (re. -30dBFs) over and above the older NPC-based DP-3080

An internal investigation reveals that the 3010's technology is actually derived from the DP-4090 (HFC172) which uses a combination of Sony processing

ICs and Kenwood's own KAN03 'DRIVE' oversampling and bitstream DAC.

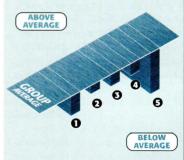
Now the pieces fall into place. This chipset offers an adequate resolution (+1.8dB/-2.6dB over 100dB range) and a similarly adequate 99dB S/N ratio, although jitter is somewhat higher than anticipated at 490psec. Here we find a mix of second-order data-induced and low-rate patterns that might have the effect of disturbing the sharpness of stereo imagery, if not the vibrancy and natural colour of the music itself. Other than that, any gritty-sounding noise modulation is held to a low +2dB, its response is flat, separation excel-

lent and output level is pretty much on the nail at 2.1V. PMi

HOW IT COMPARES

Dy modern standards, the 38dB suppression of digital images is poor, but its impact on the barchart is blunted by the antics of Pioneer's PD-S507 (p71). This player, like the DP-4090, shouldn't stand in the way of creating a good musical story.

1 SUPPRESSION OF DIGITAL IMAGES -25%
2 JITTER -10%
3 PRACTICAL DYNAMIC RANGE -15%
4 HARMONIC DISTORTION VS LEVEL -15%
5 LINEARITY -55%



PECIFICATIONS

| SPECIFICATIONS | | |
|---------------------------|-------------------|--------------|
| PARAMETER | MANUFACTR'S SPEC. | ACTUAL SPEC. |
| ■ Distortion @ 1kHz/0dBFs | <0.006% | 0.004% |
| ■ Maximum output level | 2.0V | 2.1V |
| ■ A-wtd S/N ratio | 100dB | 99.0dB |

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eveloped from a player called the 522 (tested, not altogether favourably, in issue 179), and newly blessed with a modestly increased price, the 524 is said to perform to a standard appropriate to the next level of players. It is certainly a focused design, with relatively few baubles, a fairly simple finish in regulation NAD house grey, and an unusual and attractive back-lit LCD display. It seems that most of the money has been spent inside.

NAD is one of an increasing number of players to employ the 24-bit (word length) Burr Brown DAC, in this case with a four pole filter, which is a long way from the MASH converters that used to be standard equipment with NAD players. Power supply has received particular attention. The transformer is a toroid, with three independent windings to feed the display, the analogue, digital and servo electronics, in each case with independent regulation.

Polypropylene capacitors are specified for critical areas and there is only one capacitor in the signal path. Philips (née Signetics) op-amps are specified and the

digital output is fed through a wideband transformer, which is said to provide the sharp leading and trailing edges necessary to reduce jitter, with what is claimed to be an accurately specified 75 Ohm source impedance.

Apart from analogue and electrical digital outputs, circuitry is limited to NAD system link sockets; there is no headphone provision. All the usual operating controls are available on the front panel, supplemented by a numeric keypad on the chunky trapezoidal remote control. The drawer action is slow, but smooth.

SOUND QUALITY

Given a clean bill of technical health, the performance of this player was a little underwhelming, although far from being actively disliked, it had its fans on the panel. 'I was not inspired, but not put off [by this player]. It does most things well, but nothing spectacularly well,' was one fairly typical comment, although another panellist felt the NAD told him more about the music than the preceding players. He also commented on the good quality

"Digital output is fed through a wideband transformer, which is said to provide the sharp leading and trailing edges necessary to reduce jitter."

of the bass, the high level of detail and the subtle dynamics which he felt helped to communicate the feeling behind what performers were doing - although this must be set against other comments referring to rather flat dynamics and a lack of control in the bass and lower midband, along with scattered comments of stridency and a hardness with vocals.

The separate hands-on testing was broadly favourable to the NAD. While not the most enticing or the smoothest sounding player in the test, it was consistently clear and detailed and provided easy access to the music. Although not exactly unobtrusive, the NAD was fairly transparent on balance and imagery was handled well,

with a clear impression of depth information. The bass lacked power though, which perhaps accounted for a rather constrained image scale.

CONCLUSION

A good player in the classic NAD mould. Sound quality is favoured over gadgetry, and the 524 goes about its business with a quiet confidence. It doesn't cover all the bases and it's a little expensive for a player of this standard, but its fundamentally musical stance makes it an attractive buy, with particular relevance to existing NAD owners. AG

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THE LAB REPORT

AD is using the same PCM1716E Bitstream converter that has driven both Musical Fidelity's X-Ray and E624 CD players to great acclaim. This converter will accept word lengths up to 24 bits and sample rates up to 96kHz, so CD's 16-bit/44.1kHz specification is well within its compass.

In this instance, a proprietary 4-pole active filter network employing Signetics' NE5532 op-amps not only drives down HF distortion (by suppressing ultrasonic harmonics), but also successfully squeezes out the ultrasonic requantisation noise left by its noise-shapers.

The result is far less ultrasonic rubbish

than the competing '24-bit' Crystal bitstream converter used by Talk and

Audio Analogue, for example. Distortion is very low at peak output (<0.007 per cent all frequencies) but looks a little less tidy at lower levels through the midrange, where quantisation errors manifest as harmonics rather than innocuous white noise.

In this respect it's weakerthan the Denon DCD-435 (which uses the same DAC), but NAD's implementation does infer far lower levels of jitter.

In absolute terms, jitter is about 100psec worse than that achieved by MF and is almost entirely data-induced in origin - although, at 220psec, it will not prove subjectively bothersome. Excellent low-level linearity, a

> flat response and good 104dB S/N ratio complete a handsome package.

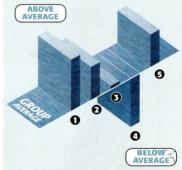
HOW IT COMPARES

2 (01296) 482017

The '24-bit' DAC, shared by Denon, offers a similarly fine rejection of digital 'images' while jitter is suppressed to lower levels. Distortion, however, is higher than I would have anticipated at mid-signal levels and contributes to its droopy bar graph.



5 LINEARITY



| | MANUEL SERVICES | A CTUAL CREE |
|---------------------------|-------------------|--------------|
| PARAMETER | MANUFACTR'S SPEC. | ACTUAL SPEC. |
| ■ Distortion @ 1kHz/0dBFs | 0.007% | 0.0008% |
| ■ Maximum output level | 2.2V | 2.3V |
| ■ A-wtd S/N ratio | >100dB | 104.2dB |

June 1999 HI-FI CHOICE 69



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PIONEER PD-S507

ioneer CD players are usually awash with intriguing and unusual home-Pioneer grown technologies, and this one is no exception. For a start, there's the inverted Stable

Platter Mechanism.

which means not

forgetting to flip the disc before playing. A Hibit (24bit) version of Pioneer's Legato Link filter attempts to extend the music bandwidth above the nominal 20kHz cut-off by clever filter arithmetic, although there are other ways of looking at Legato Link, which starts to attenuate high frequencies within the audio band and also lets through significant amounts of ultrasonic energy which can make the player rather amplifier-dependent. In this case, the Delta Sigma 24-bit D/A converter is claimed to offer 24-bit resolution, not just the ability to

The well equipped PD-S507 includes a full feature display with the usual calendar-style track readout, although various alternative displays can be called up, or the whole display can be switched off to reduce visual clutter. Pioneer has included features to make it easier to dump the contents of a CD onto cassettes of specified lengths, some of which will also be of use when recording on digital media like CD-R or MiniDisc

handle 24-bit word lengths from

format said to be less sensitive to

the digital filter, and in a data

jitter than 1-bit converters.

"There are features to make it easier to put the contents of a CD onto cassettes

of specified lengths,

which will be useful

when recording on

digital media."

using the optical digital output there's no electrical equivalent. Headphones can be connected and their volume controlled, as can the main output using the remote control, although the player defaults to full output. The handset itself is neat and well laid out, and includes a numeric keypad for random track access.

SOUND QUALITY

This one received a lukewarm reception on the whole, and the character of the Legato Link filter was recognised by each of the listeners, even though it wasn't identified by name. 'Transients sound softened and timing is off," and 'a little slurred-sounding, although not lacking in detail' were

typical comments, along with one suggestion that the player sounded 'disjointed' and 'muddled'. One intriguing comment made after hearing the Prokofiev was that the '(stereo) perspectives sound wrong - it seems to get closer as it goes louder'. One panellist felt the Weber sounded 'big and solid, with no dynamics, like a lump of butter'. But that view was extreme, and balanced by kinder epitaphs, including 'good textures and detail, and good dynamics without sounding shouty', although even this listener was prompted to ask: 'Why am I not convinced?'

It is not that this player is incapable of worthwhile music making; indeed, there were occasions when it sounded very presentable. But there were clear indications of a lack of consistency in sound – it would inexplicably sound dull with one amplifier, or one piece of music, or even with certain passages within a particular piece. From the hands-on test, the Pioneer sounded presentable, but was clearly more at ease with simpler recordings and sometimes flustered with complex recordings,

O Various displays can be called up or the whole read-out can be switched off

suffering a lack of focus and a sluggishness in timing that underlines the panel's views.

CONCLUSION

The slightly tame balance is not necessarily a disadvantage in many systems, but the lack of consistency and sometimes slurred timing and a loss of resolving ability make this a difficult choice to justify given the more even-handed strengths of the best of the competition.



☑ Pioneer High Fidelity (GB) Ltd, Pioneer House, Hollybush Hill, Stoke Poges, Slough

Berks SI 2 4OP **2** (01753) 789500

THE LAB REPORT

mprovements to Pioneer's proprietary digital filter ensure only moderate levels of ultrasonic noise (on a par with Sony's player) are allowed to escape the noiseshapers. Furthermore, the 8x oversampling 'Legato-Link' stage has been tweaked to remove any stop-band images above the 44.1kHz (Fs) sample rate. As before, however, the audio signal is allowed to reflect back between 20kHz and Fs to create the impression of a more extended frequency response.

It is important to realise, however, that this is not some form of sophisticated HF processing but simply the release of

rather spurious digital energy that bears no harmonic relationship to the music at

hand (see Oasis, HFC 188-189). In practice, different amplifiers can respond unpredictably to these signals immediately outside the audio range.

Otherwise, the PD-S507 is a model of concise digital engineering. Jitter is very low at 185psec, distortion held to within 0.003 per cent from 0dBFs-30dBFs (midband) and the 'real-life' S/N ratio a fine 105.5dB. Low-level resolution is held to within +0.0/-0.9dB overthetop 90dB of its dynamic range and only drifts by +/-2.3dB between 90-100dB where there's little or no sensible musical information. Output level

> is healthy at 2.2V (+0.9dB over standard) but the 980 Ohm output impedance is too high, in my view. PMi

HOW IT COMPARES

n common with all Pioneer's Legato-Link players, the PD-S507 chooses a very gentle filtering of the digital 'images' traditionally knocked for six by conventional machines. This ensures the PD-S507 will typically sound 'different' from its peers.

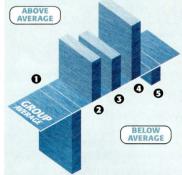


PARAMETER

■ Distortion @ 1kl

■ Maximum output

■ A-wtd S/N ratio



| SPECIFICATIONS | | | | |
|----------------|-------------------|--------------|--|--|
| | MANUFACTR'S SPEC. | ACTUAL SPEC. | | |
| Hz/0dBFs | 0.002% | 0.001% | | |
| t level | 2.0V | 2.2V | | |
| | 110dB (EIAJ) | 105.5dB | | |

June 1999 HI-FI CHOICE 71

AMAHA CDX-493



his player is a straightforward budget design with a rational and ergonomically sound control set on the machine itself, supplemented by a rather more extravagant set of bells and whistles on the remote handset. The remote includes a numeric keypad to allow random track access, a display dimmer (three steps but not off, curiously), and a set of tape-editing keys for CD-totape synchronised recordings when using a compatible Yamaha cassette deck, with a single-key record start. The handset can also access the main output level control and includes index search.

Front panel controls are limited to simple CD navigation keys, but that includes track number keys and an output level control. Headphones can be accommodated and volume adjusted via the output level control. The display is a standard Yamaha item, fluorescent yellow with a calendar-style readout on the bottom edge and standard track, time and status indicators above. Rear panel socketry includes an optical digital output. There is no electrical digital option.

"The Yamaha has a set of tape-editing keys for CD-to-tape synchronised recordings when using a compatible deck, with a singlekey record start."

SOUND QUALITY

Auditioned three times by the panel over a two-day period, there was a significant spread of scoring. It took some digging around the comments to see what was going on and to uncover a measure of agreement about what was on offer. In fact, one panellist correctly identified the player on its return.

One common factor which went down well on the whole with the panel was a degree of liveliness, although at times it verged on overkill. One described the player as 'quite successful and together... it bounces along nicely, but it's a bit of a tearaway - a bit over-exuberant'. A second agreed: 'Forward and a bit aggressive in the upper-mid,' he wrote -

although, paradoxically, the extreme treble was consistently described as muted.

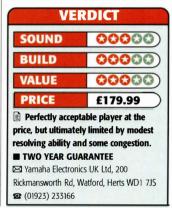
More substantial criticisms were made of a lack of real clarity. 'Lots of fine detail interplay is completely glossed over,' one panellist wrote of the Prokofiev, while a second noted the Yamaha was 'tonally OK, but it misses out huge chunks of information that other players resolve easily' (Weber). A third concluded that the sound was 'closer to FM radio than compact disc'.

Hands-on testing led to a slight marking-down of the Yamaha, which on balance is a little too raucous, especially with naturally aggressive or complex material. There were significant losses of detail, space and image depth compared with the best at this price level, giving the impression of detail substituted by a degree of granularity that was imposed on the music independently of the music content. The bass was also characterful – not as obviously extended or as powerful as some, it was tuneful and it had a way of cutting through the low frequency congestion and excess of some

systems. Another plus with this player is that it is open and lively, with neutral tonality.

CONCLUSION

This player stubbornly performs better than the numbers suggest, in part because some of its characteristics are complementary to typical failings of budget amps and speakers (the bass provides the clearest example here). But the lack of resolving ability and messy mid/treble means it sounds more like a good package system component than good hi-fi, and doesn't meet the strict criteria for recommendation.



THE LAB REPORT

Not unlike HK's HD740, and in common with earlier MASH/PWM-based players from Yamaha, the

CDX-493's jitter spectrum is dominated by lone second-order data-induced sidebands. These typically infer a grey or uninteresting sound, though they are tempered here by a pair of higher-rate (and typically grittier-sounding) patterns. The overall influence of this jitter, however, is unlikely to be devastating at just 360psec.

Indeed, it's Yamaha's choice of the highly integrated MN66271 signal processor, oversampling filter and DAC, that has the biggest influence on its sound - that, and the high 1.1kOhm output impedance. The processor includes a digital volume

control that operates over a 35dB range (35mV to 2000mV), although

the ideal performance is maintained by leaving the player at full output. By employing a bitstream-style DAC, however, ultrasonic noise is closer to the likes of the Sony and Pioneer models than the 20-bit HK, although distortion harmonics are unusually extended at high frequencies.

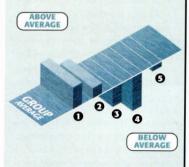
The figure of 0.1 per cent (re. 20kHz, -30dBFs) includes components as high as a 15th harmonic! Despite what appear to be quantisation errors and a 102dB S/N ratio that's compromised by some +5.6dB of noise modulation, the player's low-level resolution is rather good at +0.0/-0.2dB over the top 90dB of its range.

HOW IT COMPARES

Distortion is low through the midrange, but increases markedly at HF. However, the CDX-493 does not meet the specified S/N ratio nor does it achieve a 2.5V peak output. In practice, both the 102dB S/N ratio and 2V output are more than adequate.

PPRESSION OF DIGITAL IMAGE PRACTICAL DYNAMIC RANGE

4 HARMONIC DISTORTION VS LEVE



| SPECIFICATIONS | | | | | |
|---------------------------|-------------------|--------------|---|--|--|
| PARAMETER | MANUFACTR'S SPEC. | ACTUAL SPEC. | | | |
| ■ Distortion @ 1kHz/0dBFs | <0.003% | 0.002% | 6 | | |
| ■ Maximum output level | 1.5-2.5V | 0.04-2.03V | | | |
| ■ A-wtd S/N ratio | >105dB | 101.9dB | | | |
| | | | | | |

t is possible – but if so, Cyrus isn't letting on – that the dAD 1.5 is a response to criticism in our previous review of the dAD 1 some months ago, which described a detailed but rather flat, mechanical sound which didn't wear well in extended listening. That's the easiest way to explain the dAD 1.5 nomenclature.

The mechanism is the Philips CDM12.1, a fairly old model, chosen perhaps to avoid the reliability problems of the later CDM12.4, used with a suspended pickup and self-centring magnetic disc clamp. Multiple regulated power supply rails feed the analogue and digital circuits, the motor and the control servo and display circuits independently.

Updates to the dAD include a change in the oversampling rate, in the digital filter, and some retuning of the post DAC analogue low pass filter. The results, says Cyrus, are enhanced timing and detail levels. Otherwise, all is as before. Built into a standard Cyrus half-width (215mm) box, made from alloy with an ABS moulded base instead of the all-magnesium alloy castings of more costly Cyrus components. The player features a simple backlit display and a remote control which offers no more than basic navigation and play controls. A more sophisticated controller is available as an accessory and is bundled with the Cyrus IIIi integrated and the Cyrus preamp.

The dAD1.5 can also be patched into a Cyrus system using the control data sockets on the back, and an electrical digital output is available on the back



"The balance had the useful sideeffect of helping propel the music along at a good clip: this is a player with strong, propulsive timing."

panel. In common with previous Cyrus players, the dAD1.5 is smooth and quiet in operation, but not especially quick acting.

SOUND QUALITY

The panel made criticisms that mirrored those made of the dAD1, but they tended to be milder in tone, and this time around there were no complaints that the player was hard to listen to for extended periods. This is still no dAD3, but it seems to be a usefully improved player which has a generally more natural and transparent sound, though one panellist complained of a 'steely' coloration or glare in

the midband which tended to make everything 'matter-of-fact and impersonal'. He noted that while the player did add a certain crispness and sharpness to the music, he found himself listening more to the detail than to the music, and concluded that other players in that test group sounded more 'natural and communicative'.

Recorded percussion, especially cymbals, came in for some criticism for the way they added a 'glare' to the music, and it's certainly a drier-sounding player than most of the others, the bass being lean and tuneful rather than authoritative. The *quid pro quo* is that this balance had the useful side-effect of helping propel the music along at a good clip: this is a player with strong, propulsive timing, although it doesn't come across as particularly strong and propulsive otherwise.

CONCLUSION

It's not possible to make absolute assertions about the relative merits of two players unless they

are compared directly, and it was not possible to do so here for the dAD1 and the dAD1.5.

All the evidence, however, leans towards the conclusion that the model has been weaned away from its previously rather synthetic quality. Now all that stands in its way are a couple of stars from elsewhere in this month's group. Taking packaging into account – Recommended.



■ ONE YEAR GUARANTEE

☑ Cyrus Ltd, Stonehill, Huntingdon, Cambs PE18 6ED

☎ (01480) 451777

THE LAB REPORT

ssue 188 saw our review of Cyrus' dAD1.0 CD player chastised for its below-par performance, since when a revised model – the dAD1.5 – has been brought to the boil with, among other things, an 'upgraded filter'. This refers to both analogue and digital filters, the former revised to accommodate the reduction from 4x to 2x oversampling in the latter. This remains part-and-parcel of Philips' TDA1311 hybrid DAC and dominates the performance of both dAD1.0 and dAD1.5 alike.

Once again, this filter only weakly suppresses the level of digital stop-band images (30dB) that encourage an uncertain performance with different amplifiers. Distortion remains below average at 0.05 per cent (re. OdBFs) and the audioband is still contaminated by spurious digital products, giving a 'messy' look to its spectrum.

There's no change in the player's S/N ratio (still only a 15-bit value of 90dB) but its low-level linearity is improved, even if +6.0dB/-3.6dB errors at-100dB are hardly worth writing home about.

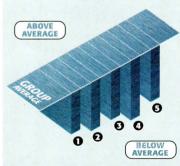
Both players suffer an identical and highly distinctive jitter 'pattern' (amounting to 851 psec in this instance) that repeats at 334Hz. This, together with the random

> or noise-like jitter that persists, contributes to those less favourable sonic qualities carried over from the dAD1.0 to the dAD1.5. PMi

HOW IT COMPARES

With the best will in the world, the modifications haven't fundamentally altered the specification of the dAD1.0/dAD1.5. Hence the below-par 90dB S/N ratio, poor linearity and higher-than-average distortion.





SPECIFICATIONS

| JI LCII ICATIONS | | | | | |
|---------------------------|----------------------|--------------|--|--|--|
| PARAMETER | MANUFACTURER'S SPEC. | ACTUAL SPEC. | | | |
| ■ Distortion @ 1kHz/0dBFs | 0.03% | 0.02% | | | |
| ■ Maximum output level | 2.3V | 2.4V | | | |
| ■ A-wtd S/N ratio | >98dB | 89.9dB | | | |

June 1999 HI-FI CHOICE 73







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HARMAN/KARDON HD740

arman/kardon was relaunched last September following what is euphemistically described as 'difficult trading conditions in the UK', and this is one of three CD players in the launch range, which also includes some

multi-disc players, amplifie, and receivers. If the HD740 looks familiar, that's because it follows the pattern set by previous ranges, which are best described as solid, straightforward and honestly specified.

The technology includes a pair of 20-bit Burr-Brown 1702 D/A converters with 8x oversampling filters feeding a discrete analogue output stage. Harman/kardon lists an infra-red remote control repeater as an option. At about £80, it allows a system to be placed out of view, in a suitably ventilated housing, for instance.

Visually and operationally, the HD740 is typical harman/kardon, with its characteristically unfussy front panel layout with widely spaced controls, which consist of a mixture of domes and rocker switches. A feature of the HD740, and of other players in the range, is that it is designed to help with making cassette dubs from CD, including rearranging the track running order to make best use of the length of tape programmed into the player.

The HD740 also has a display dim/off switch and can perform the usual intro scan and repeat

play modes. Headphones can be connected, and the volume controlled, but the main analogue output is at a fixed level.

harman/kardon

. Harman/kardon has fitted remote control in and out sockets for system linked operation, too. The handset is chunky and solid, but is perhaps not the most helpfully organised.

As well as the usual analogue main outputs, both electrical and optical digital outputs are fitted on the back panel, along with an autoplay switch which allows the user to decide whether the player enters play mode on power up, which could be used as the basis for a high-tech alarm clock using a compact disc instead of a cuckoo or bleeper. All you'll need is the CD player, an amp and speakers, a mains timer and a full-on equipment support to replace the bedside table!

SOUND QUALITY

This player was liked by the panel for its innate transparency - its ability to play music without getting in the way. It was consistently described using terms like 'neutral' and in discussion

"If the HD740 looks familiar, that's because it follows the pattern set by previous ranges. which can be described as solid. straightforward and honestly specified."

after one presentation it was described as having a balance that 'felt right' and that 'didn't draw attention to itself'.

There was mild but consistent criticism of the frequency extremes, the bass being described as 'slightly overblown' (James Taylor) and 'boomy' and 'flabby' on several occasions, though post-panel hands-on testing showed this was at least partly a function of the system as a whole, and that realistically, in well controlled systems, it is not a problem. The treble was sometimes accused of being 'hard', and the player as a whole of 'struggling when (the music became) complicated', but that

should be set against others, such as one made after the Allison Krauss track, praising the player for its 'light and airy presentation' and in the Weber for its 'good string separation and its natural acoustic. The hands-on tests vindicated these results in full.

CONCLUSION

As suggested earlier, this is a solid and honestly specified player, and it makes music which is focused, articulate and alive, with a near ideal blend of dynamic integrity and subtlety. Recommended.



Bushes, Milton Keynes MK12 6HR **2** (01908) 317707

THE LAB REPORT

arman uses a mixture of different technologies throughout its CD range but the HD740 is, arguably, the most straightforward and elegant of the bunch.

A ripple-free response and superb >110dB rejection of stop-band images is maintained by NPC's SM5843AP oversampling filter while two surface-mount PCM1702 DACs from Burr-Brown provide the widest S/N ratio (111dB) of any player in this month's test. On the other hand, noise modulation is also up at + 10dB, such are the

On the plus side, ultrasonic noise is very well controlled and this, along with the moderate 160 Ohm output impedance, suggests that the HD740 will perform

compromises of a 20-bit multi-bit DAC.

consistently with different amps. As to the tenor of the HD740, well,

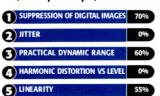
that's dictated by a hint of compression at peak output where HF THD climbs to 0.06 per cent along with a similar dose of IM distortion. At lower, possibly more important levels, distortion hovers around 0.01 per cent across the audio band (re. -30dBFs).

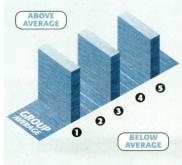
Similarly, the jitter spectrum is significantly tidier than in earlier HK players, but remains high-ish at 409psec thanks to a single, second-order data-induced pattern.

From experience, we know that - in the absence of stronger colorations - this pattern encourages a lack of musical vitality, leaving a 'grey' or 'uninteresting' quality in its wake

HOW IT COMPARES

good performer, this offers a wide Adynamic range and a lack of the ultrasonic noise that accompanies the average bitstream-DAC player. Excellent digital ICs yield fine low-level resolution and, below peak output, low distortion.





SPECIFICATIONS

| PARAMETER | MANUFACTR'S SPEC. | ACTUAL SPEC. | | |
|---------------------------|-------------------|--------------|--|--|
| ■ Distortion @ 1kHz/0dBFs | 0.005% | 0.0028% | | |
| ■ Maximum output level | 2.0V | 2.1V | | |
| ■ A-wtd S/N ratio | 106dB | 110.5dB | | |
| | | | | |

June 1999 HI-FI CHOICE 75

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ROTEL RCD-951



elcome to the RCD-951, a simplified version of the RCD-971 which earned itself a big fat Best Buy back in issue 184. Beneath the RCD-971's skin beat the twin hearts of two Burr-Brown PCM63Ps locked in eternal embrace in noise-cancelling dual differential mode. In the RCD-951's case, one of the DACs has gone west, and the remaining one has a slightly lower spec. The power supply has also been simplified, with the toroidal transformer of the 971 going out the front door while a frame type El transformer creeps in through the back. Unchanged is the Pacific Microsonics PMD 100 digital filter, which means that the RCD-951 is fully HDCD compatible.

Also unchanged in the transition is the player's build and styling, which are solid and stolid, respectively. The RCD-951 breaks no new ground, but it really didn't need to. In common with its predecessors, it is a little heavier and more solidly engineered than most, and the mechanism is smooth and well oiled, but not quite silent. Front panel controls include track-skip and cueing at

opposite ends of the fascia. With most players, these controls are the best of friends, and this is a curious decision, but the controls are otherwise well grouped, with the play and navigation controls on the right and programming, random play, repeat and display mode keys on the left.

The only really disappointing feature is the remote control buttons are cramped and it's ergonomically a mess, an unfortunate oversight given the improvement in the handsets supplied with a number of the Rotel's rivals. It does add usefully to the Rotel's functionality though, not least thanks to the direct access track keypad.

SOUND QUALITY

A mixed bag on audition, it was clear both to the panel and to the author in the hands on testing that the RCD-951 is not in the same league as its senior brother. The RCD-971 is a polished and refined performer, where the 951 sounds alternately grainy and glassy, with 'unsubtle' timing and a mid/treble that sounded 'gritty' and 'splashy'. There was a strong measure of consistency in the comments

"In common with its predecessors, it is a little heavier and more solidly engineered than most, and the mechanism is smooth and well oiled, though not quite silent."

made with different musical tracks, and in different presentations to the panel, and this of course tends to underline and reinforce the complaints. Other than that, the panel had difficulty in engaging with the music from this player, not because it sounded particularly poor, but because the music lacked the articulation and coherence necessary to make a strong aural case for itself.

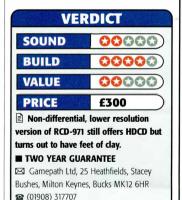
None of the musical excerpts used for the panel tests involved HDCD recordings because this would have presented a less than level playing field for those players without decoders. In fact, the RCD-951 is the only player of the 12 so equipped, and with good

recent HDCD recordings the RCD-951 came to life somewhat. Even with non-HDCD recordings, the player sounded rather better focused than it did in the panel sessions, but this remains at best a modest performer.

CONCLUSION

Our advice to potential buyers of the RCD-951 is: wait, save up the extra £50 and buy the RCD-971 instead. Unless they look closely visitors won't realise it's the 971 they're listening to, but they will hear the difference.

Even with HDCD compatibility, this is a mundane deal.



THE LAB REPORT

n common with Rotel's costlier RCD-971 (HFC 184), the RCD-951 also employs the popular PMD-100 8x oversam-

pling filter from Pacific Microsonics, lending this machine full compatibility with **HDCD-encoded software and providing** excellent rejection of digital 'images'.

However, in place of the 971's 20-bit DACs, the RCD-951 makes use of Burr-Brown's 18-bit PCM69AP hybrid converters which offer a lower 96dB S/N ratio, slightly poorer low-level linearity (+0.0/-3.0dB over a full 100dB dynamic range) and proportionally higher distortion.

All this is moderated by the high quality analogue output stage, based on Burr-Brown's OPA2604 op-amps and featuring

Rotel's favourite Rubicon BGF capacitors. In practice, distortion is consistent at 0.03 per cent -

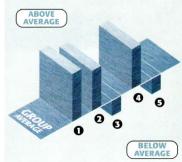
where most of the musical action takes place (-30dBFs) - instead of varying with frequency. This is preferable to achieving vanishingly low levels of THD through the midband only to see it rise by a factor of 10 through the treble as is often the case.

Freedom from high-order noise-shaping yields a clean, low-noise ultrasonic spectrum that's very 'amplifier-friendly'. Compatibility is further enhanced by the moderate 105 Ohm output impedance. Jitter is very low indeed at 165psec – possibly the lowest value currently achieved with this PCM69 DAC technology.

HOW IT COMPARES

he only way a 105dB S/N ratio can be achieved is by digital muting (where the DACs switch themselves off). In practice, the figure is a 16-bit value of 96dB, despite the use of notional '18-bit' DACs. However, this is perfectly adequate for 16-bit CD software.

| 1 SUPPRESSION OF DIGITAL IMAGES | 65% |
|---------------------------------|------|
| 2 JITTER | 55% |
| 3 PRACTICAL DYNAMIC RANGE | -20% |
| 4 HARMONIC DISTORTION VS LEVEL | 55% |
| 5 LINEARITY | -20% |



| SPECIFICATIONS | | | | |
|---------------------------|-------------------|--------------|--|--|
| PARAMETER | MANUFACTR'S SPEC. | ACTUAL SPEC. | | |
| ■ Distortion @ 1kHz/0dBFs | 0.0045% | 0.0028% | | |
| ■ Maximum output level | 2V | 2.2V | | |
| ■ A-wtd S/N ratio | >105dB | 96dB | | |

SONY CDP-XB920

he CDP-XB920 feels heavy, and is clearly well built. Press the drawer button and the mecha-SONY nism opens with an unusual hush. and the sense of well-oiled precision is a constant in all operating modes. The fabricated box, with non-magnetic copper

fixing screws, makes a welcome change from the usual pressed steel. This isn't necessarily the player for Granny, however, with its removable disk puck adding an operation every time a disc is inserted or removed.

The CDP-XB920 isn't the first with a switchable coefficient digital filter with four settings - normal, spline, plane and analogue - but it is the first Sony to feature an enhancement to standard antijitter measures called synchronous time accuracy control which address the effect on the D/A converter of switching noise from the digital filter and noise-shaper.

This model has been subject to a number of enhancements aimed at improving sound quality. These modifications include slanted circuit boards to reduce internal standing wave problems, chassis reinforcement, the use of a fixed transport with a magnetic disc stabiliser, off-centre isolating feet and changes to the damping and transport suspension, as well as revised grounding and detailed adjustments to the analogue low-pass filter and the amplifier output capacitors.

"The more I listened to the Sony player, the more the sheer consistency of the standard brick wall filter made itself apparent. There really is no alternative but to 'suck it and see'."

Features include a wonderful rotary track selector, display off, a line output control and a number of programme and tape-editing features, including a fader. CD Text is supported and both flavours of digital output are fitted, alongside system link terminals. The international model's headphone socket has been deleted to improve sound quality. If this models starts being grey imported, this could be the giveaway.

SOUND QUALITY

Discussing the different filters is fraught with problems. As with previous Sony players with the same switchable coefficient digital

filters, there are clear benefits from at least some of the alternatives to the standard brick wall. The Pioneer Legato Link-like spline filter has a certain quality, a way of organising spatial cues which helps produce a more rounded and three-dimensional quality from many recordings, and to an extent the same happens with the plane filter, though with less consistency and space.

The analogue filter is perhaps the weakest of the lot, although it might appeal to those who find the other filters too steely, though that's unlikely with this player. But the more I listened, the more the sheer consistency of the standard brick wall filter made itself apparent. There really is no alternative but to 'suck it and see'.

The panel tests were limited to the standard (brick wall) filter, which elicited some enthusiastic responses, of which the following are a random selection: 'Good dynamics, good scale'; 'Complexities are handled well'; 'Breathes well'; 'This is excellent (with) real homogeneity'; 'Quite dry, but neutral, well controlled and musical, if not as dynamic and

fulsome as possible... well integrated'. Two panellists independently remarked it was their favourite of day up to that point (it turned out to be downhill all the way thereafter), and one described the player as putting in 'a spirited performance' and as being 'almost realistic' - praise indeed from the hard-bitten panel.

CONCLUSION

Clear Best Buy material, this player just about has it all. It sounds smooth, well integrated and detailed and is effectively an open window on the music. So what are you waiting for?



THE LAB REPORT

ith its default 8x oversampling filter, the CDP-XB920E behaves in textbook fashion. This includes a >105dB rejection of stop-band images, a mere 168psec of jitter, errors in low-level linearity of just +0.0/-0.3dB over a 100dB range and distortion as low as 0.003 per centthrough the midband at -30dBFs. THD increases by about 20dB at HF, however.

Digital filter No.1 utilises a spline filter algorithm (see Oasis, HFC 188-189) which mimics Pioneer's 'Legato Link' (see PD-\$507). Once again, we see the deliberate merging of a digital image or 'reflection' with the upper treble, itself gently rolling off to -3.6dB at 20kHz. Filter No. 2 (plane) with its equi-ripple stop-band response

provides the boldest stop-band images and the greatest output of ultrasonic energy. If any amplifier was to prove sen-

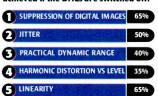
sitive to such energy, then filter No. 2 will prove the most problematic - or colourful, depending on your musical tastes!

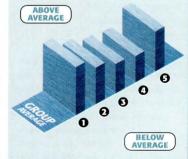
Filter No. 3 provides a seventh-order Butterworth roll-off (-2.3dB @ 20kHz) which Sony describes as 'analogue'. When switching from filter to filter, do bear in mind that the mean midband levels vary by up to 1dB and can prompt a false subjective impression.

The default 2.5V output level is also +1.8dB higher than normal, further confusing A/B comparisons with other players.

HOW IT COMPARES

Distortion is low in the midband, but increases with frequency as the amount of applied feedback also falls. Sony's digital technology ensures excellent linearity and very low jitter, but its figure for S/N can only be achieved if the DACs are switched off.





| SPECIFICATIONS | | | | | |
|---------------------------|--------------|-----------------|--|--|--|
| PARAMETER | ACTUAL SPEC. | | | | |
| ■ Distortion @ 1kHz/0dBFs | <0.0025% | 0.0009% 2.5V | | | |
| ■ Maximum output level | 2V | | | | |
| ■ A-wtd S/N ratio | >113dB | 103.2dB | | | |

AUDIO ANALOGUE Paganini

talian producer Audio Analogue was set up to cover mid to highend territory, and its products are named after the musical traditions associated with the country. We have looked at the Puccini integrated amplifier in the past and this is a possible partner, although the disparity in price may favour a more expensive amplifier.

Clearly a quality product, the Paganini weighs much more than any of the others in this month's group, thanks to a 3mm thick steel chassis (although a non-magnetic material might have been better), a 10mm slab aluminium fascia and a beefy power supply which includes a total of eight separately regulated power supplies for the analogue and the digital circuits.

Internal hardware centres on a Crystal 24-bit word length dual differential D/A converter with 128x oversampling, while the output is DC coupled with a low output impedance and is built with close tolerance, audiophile quality capacitors and resistors throughout. The Sony laser pickup is mounted in a novel way to reduce resonances - one of a number of measures employed throughout to the same end - and is mated to proprietary servo and decoding circuitry.

The quality theme continues around the back, with high grade connectors for the analogue and switchable digital electrical outputs and an IEC mains socket, which allowed us to use quality mains

"Clearly a quality product, the Paganini boasts a 10mm slab aluminium fascia and a beefy power supply which includes a total of eight separately regulated power supplies for the analogue and the digital circuits."

cables (from Nordost) for our tests. Operating features are lean-to-standard, with the telecomando adding the obligatory numeric keypad and other minor embellishments in a rather more straightforward way than the perhaps over-stylised control cluster on the front panel.

SOUND QUALITY

Whether or not cost has anything to do with it, the panel responded to the Audio Analogue Paganini in much the same way they reacted to the similarly priced (although

physically less well endowed) Talk Electronics Thunder 2. Although big and authoritative, there is a certain slackness in its dynamic ability and detail levels are not all they might be, which mirrors the Thunder 2 findings.

The panel also detected a touch of 'jangle' in the Prokofiev piano recording and in the Allison Krauss track, which is a superb recording. The player was described as 'finding it hard to achieve any kind of note precision - it's not exactly one-note, but it's verging on it', a reaction echoed by the panel in group discussion. In a subsequent presentation, the bass was again criticised variously as lacking 'precision and definition' and lacking 'energy'. However, one panel member pulled no punches, describing the bass as 'horrible', proving that with sound there's no accounting for taste.

Later listening showed a degree of sensitivity, and the Paganini sounded much better balanced with a pair of Wilson Benesch Act Two speakers than the test Egglestone Works Rosas (at £8,500 and £9,000 respectively, they're both science fiction in this context, but were employed in

their roles as 'open windows' and because, well, they were there). The reason is simple: the Act Two has much better focused and more discretely proportioned bass. The Rosa is simply too much of a good thing with a CD player that shares a similar balance.

CONCLUSION

None of this absolves the Paganini from criticism for its limitations, but at worst, it is just perceptibly warm, with a strong focus and reasonable levels of detail and dynamics. However, it remains a capable and enjoyable player in the right surroundings.



THE LAB REPORT

his is a very solidly constructed playerfeaturing a large but neatly-laid PCB, employing good quality ancillary components and - at its heart - one

of Crystal's '24-bit' CS4390 converters (see Talk Thunder 2 test). Jitter is low at 240psec, but still 100psec higher than we know can be achieved with the CS4390 by the likes of Meridian, for example.

Distortion is also extremely low at < 0.001 per cent through bass and midrange at peak (2V) output, but typically increases by 20dB (10x) at high frequencies. At the important -30dBFs level, distortion settles out at 0.03-0.006 per cent, and at lower levels still, its resolution holds to within tight +0.0/-0.5dB limits (100dB range, 20Hz-20kHz).

This is a typically good performance from Crystal's con-

verter that, while notionally accepting a 24-bit word length, still only provides a 104dB S/N ratio in practice. This is, of course, more than adequate for a 16-bit CD format and betters the noise performance of any integrated amplifier that's likely to be its partner.

The exceptionally low 1 Ohm output impedance also bodes well for its tolerance of 'difficult' amplifier/cable combinations, although the CS4390 does still eject significant levels of ultrasonic requantisation noise. And, as we know, not all amplifiers are entirely comfortable handling this type of digital refuse.

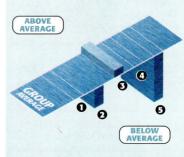
HOW IT COMPARES

his is a textbook example of Crystal's so-called '24-bit' CS4390 DAC in action, providing low distortion, impressive low-level resolution, low audio band noise and low jitter. However, the 'ultrasonic' noise created by this chip is never fully dealt with.

1 SUPPRESSION OF DIGITAL IMAGES

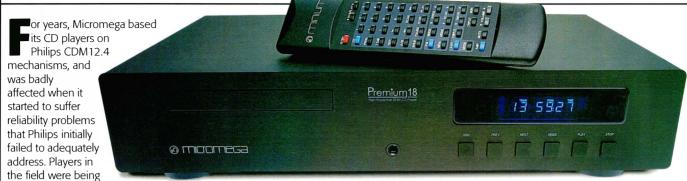
3 PRACTICAL DYNAMIC RANGE

4 HARMONIC DISTORTION VS LEVEL -10% 5 LINEARITY



SPECIFICATIONS MANUFACTR'S SPEC. ACTUAL SPEC. PARAMETER ■ Distortion @ 1kHz/0dBFs 0.001% 0.0005% ■ Maximum output level 2.0V 2.0V ■ A-wtd S/N ratio **Not Specified** 104.0dB

MICROMEGA Premium 18



returned to the distributor with faulty mechanisms 'like old friends', which eventually led to a change in distribution as Surrey Sounds took over the reins.

Now the Premium range has been introduced, featuring a Sony mechanism (the KSM-2130CCM) which has a reputation for reliability. Other highlights include a Crystal SC4327 Delta Sigma 20-bit D/A converter in an all-surface mount circuit.

The Premium 18 is part of a range which includes the 20 and, shortly, the 24 (with a 24/96 DAC) to sell at £850 and about £1,100 respectively. As with its predecessors, the Premium 18 is upgradeable to either of the other models for the difference in retail price, but where the upgrade used to use a software routine that interrogated the player's firmware each time it was turned on, the Premium upgrade path is less Gallic, consisting of a new internal PC board and matching fascia.

The Premium 18 looks much like earlier Micromega products. Its fully machined case gives it a quality engineered appeal, but the new model has more conventional controls, although

"The Premium 18
looks much like
earlier Micromega
products, with its
fully machined case,
but the new model
has much more
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some idiosyncrasies
remain."

some idiosyncrasies remain. The 'mode' key, for example, enables and disables the digital output, and is also used to adjust the headphone playback level. This player is supplied with a busylooking remote control handset, which includes a numeric track access keypad, programming keys and a display key. The player itself is more simply kitted out, with basic controls, headphone socket and an electrical digital output.

SOUND QUALITY

If there was one overriding objection to this player, used with the digital output switched off, it

was that it lacked real power, a concept whose meaning is clear enough with amplifiers, but which may not make obvious sense in the context of a compact disc player. In fact, CD players consist of some tricky digital clockwork with an amplifier at the output, and although the output level is fixed over a very small range, it may have more or less authority, slam and all the other qualities commonly ascribed to real amps.

In the hands-on testing, this model sounded like an amp with limited current reserves and seemed to have difficulty in completely mastering the load. The panel felt it sounded 'weedy' (Krauss) and 'lacking substance' (Prokofiev), while the bass was described as 'thuddy' (Taylor), although it was also thought to be well extended. Out of the panel context, the bass varied in quality with the test system, and some level of interaction with the amplifier input was suspected as performance varied from thin and metallic to perfectly satisfactory.

There were also consistent complaints that the player had a 'grey' and 'cloudy' quality, and the

treble was generally felt to be 'thin' (a word used several times by different panellists) and 'gritty' in the Weber clarinet quintet. There were also more positive comments, but the overall scoring was not encouraging for a model at this price. Perhaps one of the upgrades will address the issues.

CONCLUSION

A good-looking player with ample upgrade potential and a strong guarantee, the base level Premium model nevertheless sounds curiously antiseptic and underpowered.



THE LAB REPORT

n contrast with previous Micromega CD players, the Premium 18 demonstrates little or no use of Philips-brand technol-

ogy. Instead, this unit features a Sony transport assembly, some custom servo logic and a very compact output board with extensive use of surface mount ICs. This includes Crystal's 20-bit CS4327 DAC (as distinct from the differential-output, 20-bit CS4329), which provides superb low-level resolution (errors of just +0.0/-0.5dB over

a 100dB range) and very low 140psec jitter.

Distortion is equally low through bass and midrange (typically <0.001 per cent at 0dBFs)but then escalates very rapidly to0.03 per cent at high frequencies – that's a 30dB

signal levels, high frequency harmonics are masked by the

wave of ultrasonic requantisation noise released by the CS4327's noise-shapers, but this in turn must be dealt with by the partnering amplifier. In this respect, the Premium 18 is no better off than either the Audio Analogue or Talk players with their '24-bit' variations on this DAC technology.

The overall S/N ratio is slightly reduced at 100dB but so is any gritty-sounding modulation noise (just +2.5dB). Output is ontarget at 2.06V and, while the 200 Ohm output impedance is acceptable, I'd prefer to see the low, low figures (<5 Ohm) recorded by its competition in this group.

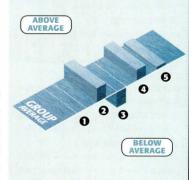
HOW IT COMPARES

The oversampling technology shared between all players in this group gives an 'average' 0 per cent for their suppression of digital images. The actual figure is well in excess of 105dB! Dynamic range is down by just 1dB or so but still within the 16-bit target.



3 PRACTICAL DYNAMIC RANGE -20%

4 HARMONIC DISTORTION VS LEVEL 15%
5 LINEARITY 5%



SPECIFICATIONS

| 51 2011 10/11/51 | | | | | |
|---------------------------|-------------------|--------------|--|--|--|
| PARAMETER | MANUFACTR'S SPEC. | ACTUAL SPEC. | | | |
| ■ Distortion @ 1kHz/0dBFs | Not Specified | 0.0009% | | | |
| ■ Maximum output level | 2.0V | 2.1V | | | |
| ■ A-wtd S/N ratio | >96dB | 100.3dB | | | |

TALK Thunder 2

here is more to sav about the Thunder 2 than how it sounds as delivered for test. The Thunder 2 (which the instructions warn to disconnect from the mains during electrical storms - so much for the

bravura in its name!) is the base-level version of a player that can be improved by adding external power supplies, or by upgrading the basic model or both, although the maker recommends adding power supplies in the first instance.

The external Whirlwind power supplies, which are available at two cost/performance levels costing £349 and £899, provide separate regulated feeds for the analogue and the digital circuits, which extends the idea popularised by Naim, whose outboard supplies are limited to the analogue circuits.

Upgrading the Thunder 2 to Thunder 3 or 4 specifications involves a return to the maker for a new motherboard and front panel, and both currently cost £999, although the latter requires an outboard power supply. The people at Talk - yes, we spoke to them - say they will introduce new player chassis as they become available, which means either DVD-A or SACD, depending on which way the market goes.

The Thunder 2 otherwise follows the established pattern for the brand. Basic controls cover

"The Thunder 2 has a heavyweight musical delivery that's in line with its pricing. The player has a natural integrity and a solid, well extended bass, while the mid and treble sound smooth and well integrated."

normal play functions and display dim/off are available from the from panel and the remote control, but the latter adds programming, a numeric keypad, repeat, shuffle and intro play facilities and a volume control for any RC5 (Philips-compliant) amp.

Talk Electronics specifies a Sony CDM 14 transport mechanism. which has a reputation for reliability, a 24-bit word length DAC and a discrete 2 pole Class A filter section, and, the maker claims, a low output impedance. There is no digital output as

standard. One can be added if required, but the maker points out that there is a sonic penalty to pay, a point addressed by others (such as the Audio Analogue Paganini) at least in part by including an on/off switch in the digital feed.

SOUND QUALITY

Although there was a measure of scatter in the listening comments, the arithmetic average was broadly favourable. Disagreement centred on the player's perceived weak points, which some heard as its inability to scavenge fine detail and others heard as a lack of excitement and drama.

Certainly there is nothing here to irritate or annoy, and the two criticisms are interchangeable. An undemonstrative dynamic quality can often be heard as a loss of fine detail and vice versa, and it is presumably these areas that are addressed by the upgrades.

From the separate hands-on testing, the Thunder 2 has a heavyweight musical delivery that is in line with its pricing. The player has a natural integrity and a solid, well extended bass, while the mid and treble sound smooth and well

integrated with a wide range of material. At the same time, the player is slightly flat-footed, which leads to rock material often sounding a tad heavy-handed and a complaint of a loss of dynamics is in keeping with that.

CONCLUSION

Here is a player that grows with the owner's ambitions and pocket, and even advances in technology, which means that in contrast to many other high-end players, this one is not a dead-end in the unlikely event that compact disc died a death tomorrow. One for the shortlist.



☑ Talk Electronics Ltd, Unit J, Albany Park, Camberley, Surrey G15 2PL

2 (01276) 686030

Both the Thunder 2 and Audio Analogue's Paganini utilise Crystal's '24-bit' CS4390 converter that combines the services of oversampling,

noise-shaping and DAC in a single package. Consequently, it fairly dominates the performance of players which, on paper, could be blood brothers

So, once again, the Thunder 2 provides an impressive mix of very low distortion (<0.01 per cent at 0dBFs), good low-level resolution (+0.6dB/-0.4dB over a 100dB range), a wide 104dB S/N ratio and very low 180psec jitter. Channel balance and separation are also first-rate, while the 2.2V output level is only +0.9dB over and above the notional 2V standard.

Talk has put its own stamp on the Thunder 2 with a proprietary, all dis-

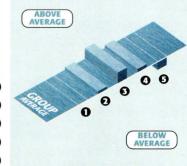
crete, 2-pole analogue filter that just tips the extreme HF down by about 0.5dB. This circuit includes a Class A output stage yielding a very low (<5 Ohm) output impedance and provides a good 15-20dB of additional suppression of ultrasonic noise (re. 100kHz) over and above the costlier Thunder 3.

Nevertheless, any susceptibility shown by an amplifier to the wash of ultrasonic noise from the Paganini, for example, will also be experienced with the Thunder 2. As this is an issue that regularly crops up in my CD player lab reports, I intend to give it full coverage in a future Oasis column.

HOW IT COMPARES

he similarity in technical perfor-The similarity in technical personal mance between all three players in this group is reflected in the way the bar values are hovering around the 0 per cent group average. Here, the Thunder 2 just nudges ahead with its superior dynamic range.





| SPECIFICATIONS | | | | | |
|-------------------------|----------------------|--------------|--|--|--|
| ARAMETER | MANUFACTURER'S SPEC. | ACTUAL SPEC. | | | |
| Distortion @ 1kHz/0dBFs | <0.001% | 0.0008% | | | |
| Maximum output level | 2V | 2.2V | | | |
| A-wtd S/N ratio | >100dB | 103.5dB | | | |
| Ti Tita 5/11 Taus | local | TOSISUB | | | |



PLAYER CHISION

verall, this month's group turned out some quite encouraging results, not because they all performed universally well - they didn't - but because the best of them did so.

The spread of performance standards was quite remarkable, which should be sobering to those who predicted that compact disc would mean steamrollering recorded audio into a single plane of excellence (perfection according to some).

In fact, compact disc has turned out to mirror remarkably closely what happened in the age of vinyl, which is that designers found their own level, producing a richly layered market with varying performance standards and prices. We have the same riches, which presents the same problems of choice, today - it's just that some of the names have changed and, let's be honest, some of the horrors perpetuated in the days of vinyl are no more.

At the same time, the quality level of digital audio has often had to struggle to rise above the best of vinyl, and even now, almost two decades into the all-digital era, a quality-first case can still be sustained in favour of mechanical music reproduction from vinyl.

Don't let this put you off. There are many CD players around, and some in this month's group that critical listeners wouldn't want to put up with for long. But there are others that can't be dismissed so glibly, and this month's group

includes at least one cracking example of the latter in the shape of the Sony CDP-XE920, £300worth of mainstream Japanese

silicon and steel which has been breathed upon by one of the gurus of British audiophile design, Sony's very own Eric Kingdom

(who once worked with Marantz's Ken Ishiwata, perhaps the best known guru working for a mainstream producer).



SONY CDP-XB920 - Best Buy

There was no hesitation in awarding this player Best Buy status. It's a cracker in just about every sense, with a performance standards to rival some very costly players indeed. At a strictly mid-market price of £300, it's about good as they come.



CYRUS dAD1.5 - Recommended

This one caused considerable soul searching, but in the final analysis, the dAD1.5 is a great improvement on the dAD1, and was rated just the right side of acceptable by the panel.



DENON DCD-435 – Recommended

At £200 you might reasonably object to the DCD-435's lean and sometimes congested voicing. But at £130 its quick responses make uncommonly good sense.



HARMAN/KARDON HD740 - Recommended

A good, solid middle-ranking player, most of the resources are concentrated inside, and the result is a clean, dynamic and well balanced player whose only real shortcoming is an occasionally noticeable loss of grip at either extremity.



NAD 524 - Recommended

This player provides sound quality biased towards budget audiophile territory. Not the most hard-hitting player, it offers good detail and a realistic sense of depth imagery.

PLAYER COMPARISON TABLE

| MAKE | AUDIO ANALOGUE | CY US | DENON | HARMAN/KARDON | KENWOOD | MICROMEGA |
|---------------------------------------|----------------|--------------|-------------|---------------|------------|---------------|
| MODEL | PAGANINI | dAD1.5 | DCD-435 | HD740 | DPF-3010 | PREMIUM 18 |
| PRICE | £750.00 | £399.00 | £129.99 | £299.99 | £179.95 | £650.00 |
| SOUND | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| BUILD | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| VALUE | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| GUARANTEE | 2 years | 2 years | 2 years | 2 years | 1 year | 2 years |
| SIZE (WXHXD) IN MM | 434x100x275 | 215x78x360 | 434x100x275 | 440x110x323 | 440x95x370 | 430x70x265 |
| WEIGHT | 3.6kg | 3.1kg | 3.6kg | 4.5kg | 4.3kg | 4kg |
| RATED DISTORTION @ 1KHZ/0DBFS | 0.005% | 0.03% | 0.005% | 0.005% | <0.006% | Not Specified |
| ACTUAL DISTORTION @ 1KHZ/0DBFS | 0.006% | 0.02% | 0.006% | 0.0028% | 0.004% | 0.0009% |
| RATED MAXIMUM OUTPUT LEVEL | 2.0V | 2.3V | 2.0V | 2.0 V | 2.0V | 2.0V |
| ACTUAL MAXIMUM OUTPUT LEVEL | 2.2V | 2.4 V | 2.2V | 2.1 V | 2.1V | 2.1V |
| RATED A-WTD S/N RATIO | 103dB | >98dB | 103dB | 106dB | 100dB | >96dB |
| ACTUAL A-WTD S/N RATIO | 104.3dB | 89.9dB | 104.3dB | 110.5dB | 99dB | 100.3dB |

The bottom line is that the Sony is that rare animal, a £300 player with the wherewithal to embarrass some quite exotic hardware, which makes it nothing less than stunning value. If it isn't flying off dealers' shelves right now, then we're all in trouble...

A word to the wise. Aware readers will know that recent trading conditions have seen a plethora of products being parallel imported, bypassing the makers' own distribution channels and selling at bargain prices. Such hardware can be very good value, and in most cases the buyers' basic rights are protected by international legislation, although this doesn't necessarily apply to products from outside the EU.

What is often not appreciated, however (and this is alluded to in the Sony review) is that models coming in from other countries are not necessarily the same as those that are designed to sell in the UK.

They may look the same, and even have the same model name, but it's common practice with some brands to customise products internally, and it is often the case that a CD player or amp intended for sale in the German market, for example, sounds quite different to its counterpart

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*.



intended for sale here. *Caveat emptor* is the name of the game.

What else should the wise look for? The reality is that CD players really don't wear their hearts on their sleeves, and it isn't possible to say much useful about the sound of a player from the way it looks or feels, or how well it's equipped, although readers would be right to look twice at any player that is very light and flimsy. A solid structure may be expected to reduce

microphony, and low weight implies weedy power supplies.

In the final analysis, however, there is no substitute for a well informed demonstration of your shortlist, perhaps chosen with the help of tests such as this. The key to this is to find a good specialist dealer, which may not be one of the obvious high street names, and BADA (British Audio Dealers Association) can help you find one. Give their helpline a bell on (0171) 226 4044.

RIVAL BUYS

ARCAM ALPHA 8SE – £600
This player, which can be arrived at by upgrading from lower ranking Arcams, is HDCD compatible, and offers a particularly favourable mix of clarity

and euphony.

CAMBRIDGE AUDIO CD6 – £300 Boringly styled, we found this player 'taut and crackling with energy', but careful system matching is advised to avoid a sterile sound balance.



KENWOOD DP-7090 – £400
This is a high-tech player, with plenty
of bells and whistles, and a solid,
engaging and wide ranging character

that doesn't diminish the music.

MARANTZ CD-63 MkII KI Signature Ken Ishiwata's player is a bit of a lush, and a definitive answer for those who believe all CD sounds hard-nosed.

TEAC CD-3450SE - £200
'Honest and decent, like a maiden aunt on a bender' opined one of the panel of this sometimes thinly balanced but fundamentally articulate player.

ROTEL RCD-971 - £350 Exceptional resolution and an HDCD filter are the highlights of a straightforwardly presented and well built machine, making it exceptional value.

PIONEER PD-S505 Precision – £460 Breathed-on mid-market Pioneer is a much better showcase for the Legato Link filter and offers a finely blended sound quality. It's based on a standard commercial model, so all the widgets have been retained.

BEST BUYS & RECOMMENDATIONS



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

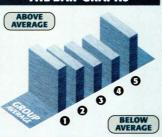


RECOMMENDED: Recommended products are first-class audiophile propositions, losing out to Best Buy status only because of a higher price or less competitive overall sound quality.

UNDERSTANDING OUR BAR-GRAPH MEASUREMENTS

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

THE BAR-GRAPHS



O SUPPRESSION OF DIGITAL

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

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

PRACTICAL DYNAMIC RANGE:
This is determined by the player's Signal-

to-Noise ratio and to what degree it is compromised by any Noise Modulation occurring under real signal conditions.

THARMONIC DISTORTION VS.

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

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

CD PLAYER COMPARISON TABLE

| MAKE | NAD | PIONEER | ROTEL | SONY | TALK | YAMAHA |
|--------------------------------|------------|--------------|------------|-------------|------------|-------------|
| MODEL | 524 | PD-S507 | RCD-951 | CDP-X920 🔀 | THUNDER 2 | CDX-493 |
| PRICE | £250.00 | £190.00 | £599.00 | £299.99 | £699.95 | £179.99 |
| SOUND | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| BUILD | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| VALUE | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| GUARANTEE | 1 year | 1 year | 1 year | 1 year | 3 years | 2 years |
| SIZE (WXHXD) IN MM | 435x80x285 | 420x112x283 | 440x72x316 | 430x115x290 | 440x95x340 | 435x96x272 |
| WEIGHT | 4kg | 3.8kg | 5.4kg | 3.5kg | 5kg | 3.6kg |
| RATED DISTORTION @ 1KHZ/0DBFS | 0.007% | 0.002% | 0.0045% | <0.0025% | <0.001 | <0.003% |
| ACTUAL DISTORTION @ 1KHZ/0DBFS | 0.0008% | 0.001% | 0.0028% | 0.0009% | 0.0008% | 0.002% |
| RATED MAXIMUM OUTPUT LEVEL | 2.2V | 2.0V | 2.0V | 2.0V | 2.0V | 1.5V-2.5V |
| ACTUAL MAXIMUM OUTPUT LEVEL | 2.3V | 2.2V | 2.2V | 2.5V | 2.2V | 0.04V-2.03V |
| RATED A-WTD S/N RATIO | >100dB | 110dB (EIAJ) | >105dB | >113dB | >100dB | >105dB |
| ACTUAL A-WTD S/N RATIO | 104.2dB | 105.5dB | 96dB | 103.2dB | 103.5dB | 101.9dB |





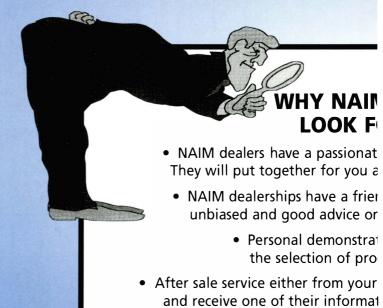
















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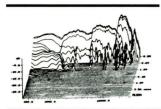
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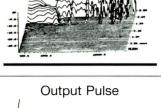
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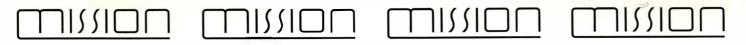
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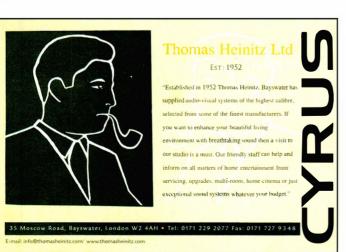


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(£500), Concordant Quad II (£450),

(£300). Private sale (01773) 609104

boxed as new, £230. Van Den Hul

The Second interconnect 0.6m,

with original packaging, £85.

Birmingham (0121) 501 2474.

Michell Argo/Hera preamp,

Or both at £700. Gyrodec with

- £700. Or all for £1,250 ono.

£350 and Alecto power amp, £450.

RB300, Gyrapower QC, Ortofon MC

Meridian 201 preamp, late model,

Audio Innovations S500 (£450), Leak

Marantz PM17 KI amp, black,

(+35 3) 463 2021.

IR£700, Marantz DSP870 AC3 decoder

£500. Electrofluidics 20/20 speaker

cables, £180. Kimber 4TC speaker

£550. Arcam Delta 770 CD £250.

Quad 606 & 44 pre/power amps,

£500. Carlisle (016973) 49717.

cables, £90. (01977) 620558.

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*This service is FREE to subscribers, provided their subscriber number is enclosed.

Call Epsom (0802) 461546.

- Micromega Data/Dialog (CD & DAC), 30 hours use, perfect condition. Re-advertised due to timewasters. £2,500 ono (new £3,750). Call (01244) 831348 after 7pm.
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- Nakamichi cassette deck I. Mint condition, boxed with instructions. Serviced by Nakamichi (B+W). £425 ono. Call (01202) 481386.
- Ortofon MC25FL MC Cartridge £95 Clearaudio Alpha MM Cartridge £85. Both moderate use, both boxed. Call (0181) 443 2891.
- Primare D30.2 CD player. Superb reviews. Brand new in sealed container, £1,000 ono (RRP £1,500). Call (0171) 724 9945.
- Quad 405-2 and 303 power amps, full working order. Also 33 preamp requiring overhaul. Offers. Michael Newbury (01635) 49797, day.
- Quad 44/405 pre/power amps. All boxed, excellent condition, cables, manuals. £375. Mid-Herts (01438) 714678.
- Quad 77 amplifier, £285. Creek
 OBH-12 passive preamp, 3 months,
 £155. Romsey, Hants (01794) 514916.
 Quad 77 pre/power amplifiers,

- carbon finish, with 2-way remote control. Boxed with manuals and Quad Link cables, 18 months old. £675. Oxford (01865) 407965.
- Rega EKA Mklls, black, boxed, mint condition, £250 ono. Call Joe on (01594) 844763/(0402) 037708.
- Royd Abbott speakers, £250.
 Audio Alchemy V1.0 DAC + PS2 PSU + DST active digital interconnect, £250. House move forces sale.
 Call (01279) 659948.
- Royd Minstrel speakers, black ash, mint. £180. Call (01225) 762143.
- Shahinian Obelisk speakers, £1,550. Shahinian Super Elf speakers, £400. Shahinian Hawk Mono subwoofers, £1,380. All mint condition and boxed all in walnut. (01626) 352682, eves.
- Sound Style 5-tier tripod hi-fi stand. Sonata blue, excellent condition £100 (£245 new). Call (01786 449027).
- Teac P700-D700 Transport DAC, 2 years old, cost £1,500, accept £650. Denon TU425RDS tuner, 6 months old, remote, cost £230, accept £130. Call (01904) 708382/ (0403) 656458.

WANTED

- *Hi-Fi Choice* November 1998 (issue 183) £5 plus postage. Call (01328) 738097.
- Nakamichi unidirectional cassette deck model RX-505, RX-303 or RX-505 in good condition. Will collect. Stuart (0181) 545 0061.
- Turntable SME Model 30 A, 20/2A or 20A. Holland (+31) 505014055.



BUYING TIPS

Buying secondhand can be a great way to pick up a

bargain. A formerly-expensive secondhand component might well prove a better long-term bet than a brand-new product engineered down to a price. Do some research on which brands and products have a good service back-up, so if something does go wrong, you can get it fixed. Unless you purchase from a secondhand hi-fi dealer, you're unlikely to get any warranty. So it's up to you to ensure the fitness of any gear that you buy. Products such as speakers should be less prone to breakdown than amplifiers, and amps should be more reliable than CD players. But any abused component could be troublesome - have a proper dem, and judge the seller as well as the goods!

JRVIVE AND THRIVE!

THE PANIC FREE GUIDE FOR YOU AND YOUR FAMILY



ON SALE NOW AT ALL GOOD NEWSAGENTS

Best Buys, Recommendations & Editor's Choices



BEST BUYS: Awarded to group-tested products which display an unbeatable blend of performance and value for money.



RECOMMENDED: Top performers in group tests: perhaps not the cheapest but possibly more sophisticated than Best Buys.



EDITOR'S CHOICE: More expensive components which exhibit outstanding engineering, industrial design and sound quality.

Our Three Step Guide to Buying Hi-Fi

The Hi-Fi Choice Price Guide and Directory are extremely simple to use, but contain all the information you need to select and buy the perfect hi-fi system. Here's how it works.

DISCOVER which products fall within your budget by using our Price Guide, which starts on this page. The product listing is updated using manufacturers' data every other month, and aims to include every hi-fi component currently available in the UK. (But please fax us on 0171-917 5512 with any omissions!) It is an alphabetical listing divided into different types of hi-fi component, and also into price bands.



PRODUCTS whose names are printed in RED are those we have reviewed, which you can read about in the Directory (starts after the Price Guide). Here you will learn which items have been sin-

gled out for our famous Best Buy, Recommended or Editor's Choice awards, denoting products of exceptional quality and value. The Directory is sorted by product type and listed alphabetically, and the beginning of each section provides essential information about each kind of hi-fi component.



FIND your nearest hi-fi store in our Dealer Directory (at the end of the Directory) to book a demonstration of the hi-fi equipment you want to hear. Remember to take your own LPs or CDs!

DIRECTORY

| ITEM | PAGE NUMBER |
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AMPLIFIERS INTEGRATED

O – Number of line-level inputs. '20W'- Rated RMS output power per channel into nominal load of 8 Ohms.

UP TO £250

| Akai AM1100 | 0 | 50W | 23 |
|-------------------------------------|---------|------|----|
| AMC 3020 | 0 | 20W | 10 |
| AMC 3025A | 0 | 30W | 14 |
| AMC 3050A | 0 | 45W | 17 |
| Arcam Alpha One | 3 | | 23 |
| Ariston AX910 | 0.00 | 35W | 8 |
| Cambridge A1 Mk III | 4 | 30W | 10 |
| Cambridge A1 Mk3 SE | 000 300 | 30W | 12 |
| | 0 | 30W | |
| Cambridge A3i | 0 | 60W | 20 |
| Cambridge A500RC Denon PMA-250SE | 3 | 50W | 20 |
| | 6 | 30W | |
| Denon PMA-350SE | 6 | 50W | 18 |
| Denon PMA-535R | 0 | 50W | 23 |
| Denon PMA-100M | 0 | 80W | 24 |
| Goodmans Delta 900A | 6 | 100W | 13 |
| H/K HK630 | 0 | 40W | 23 |
| H/K HK3270 | 0 | 65W | 25 |
| JVC AX-A372BK | 9 | 40W | 20 |
| JVC AX-R5BK | 9 | 45W | 20 |
| Kenwood KA-1080 Kenwood KA-3080R | 0 | 60W | 14 |
| Kenwood KAF-3010R | 0 | 70W | 17 |
| | 0 | 70W | 18 |
| Marantz PM-48 | 9 | 50W | 15 |
| Marantz PM-57 | • | 50W | 20 |
| Marantz SR-47 | 0 | 40W | 20 |
| Marantz PM-66SE | 0 | 50W | 23 |
| Musical Fidelity E1 | 0 | 30W | 19 |
| NAD 310 | 0 | 20W | 10 |
| NAD C320 | 0 | 40W | 20 |
| NAD 312 | • | 25W | 20 |
| Pioneer A-105 | 0 | 30W | 13 |
| Pioneer A-204R | 0 | 25W | 16 |
| Pioneer A-300R | • | 50W | 20 |
| Pioneer A-305R | 0 | 50W | 20 |
| Pioneer A-407R | • | 45W | 23 |
| Pioneer A-405R | • | 45W | 25 |
| Rega Brio | 0 | 30W | 22 |
| Rotel RA921 | 0 | 20W | 10 |
| Rotel RA931 | 0 | 35W | 15 |
| Rotel RA971 | 0 | 70W | 20 |
| Sansui AUX-410R | 0 | 50W | 15 |
| Sansui AUX-510R | 0 | 70W | 23 |
| Sherwood AX 4050R | 0 | 50W | 15 |
| Sherwood AX-7030R | 0 | 95W | 23 |
| Sony TA-FE210 | 0 | 40W | 13 |
| Sony TA-FE320R | Θ | 60W | 15 |
| Sony TA-F248E | 0 | 50W | 20 |
| Teac AE-2000 | 0 | 50W | 18 |
| Teac AR-600 | 0 | 90W | 20 |
| Technics SU-V300 | 0 | 25W | 15 |
| Technics SU-V500 | 0 | 30W | 18 |
| Technics SU-A600 Mk3 | € | 37W | 20 |
| Technics SU-V620 | 0 | 70W | 23 |
| Technics SU-A700 Mk3 | 0 | 45W | 25 |
| Yamaha AX-392 | 0 | 60W | 17 |
| Yamaha AX-9 | 0 | 50W | 20 |
| Yamaha AX-492 | • | 85W | 22 |
| | | | |

£251 TO £500

Arcam Alpha 7R 6 6 6 6 6 6 6 Arcam Alpha 8R Arcam Alpha 9 Audio Analogue Puccini Audiogram MB1 Aura VA-100 II Creek 4340 35W 35W Creek 4330R Creek 5250 50W 450 Denon PMA-735R 6 6 6 65W Denon PMA-1500R H/K HK650 60W 330 **3 3** Magnum IA120 Magnum IA170SE 0 90W 430

Marantz PM-68 90W Micromega Minium Series 2 0 400 40W Musical Fidelity X-A1 Myrvad T-40 400 Onkyo A9210 ANN Onkyo A921 Onkyo A922 400 70W Pioneer A-400X Pioneer A-605R Pioneer A-300R Precision Rega Luna 40W 60W 35W 450 Rega Mira Sony TA-FB920R 300 Sony TA-FA30ES 80W Teac AH-500 50W Technics SU-A800D Mk2 Thule Audio Spirit IA60 0 449 60W 350 280 6 Yamaha AX-592

£501 TO £700

| Alchemist Kraken APD6A | 0 | 55W | 600 |
|-----------------------------|---|------|-----|
| Alchemist Nemesis | 0 | 80W | 700 |
| Audio Analogue Puccini SE | 6 | 40W | 635 |
| Audio Note Kanji Line SE | | 9W | 699 |
| Audio Note First integrated | | 40W | 699 |
| Audiogram MB2 | 0 | 60W | 599 |
| CR Dev CR324se | 0 | 150W | 569 |
| CR Dev Kalypso | 0 | 15W | 599 |
| CR Dev CR325 | 0 | 175W | 699 |
| Creek 5250R | 0 | 50W | 575 |
| Creek 5250SER | 0 | 60W | 665 |
| Cyrus IIII | 3 | 50W | 598 |
| Densen Beat B-100 Mkll | 0 | 60W | 650 |
| Exposure XX Super | 0 | 55W | 700 |
| Gamma Gemini | 0 | 12W | 699 |
| H/K HK690 | 0 | 100W | 530 |
| Hi Q Sound MCI | 0 | 30W | 565 |
| JoLida 202 | 0 | 40W | 695 |
| LFD Integrated 0 | 0 | 50W | 549 |
| Linn Majik (Line) | 0 | 33W | 650 |
| Lynwood Opal | 0 | 80W | 685 |
| Magnum IA200 | 0 | 100W | 599 |
| Magnum Class A | 0 | 85W | 690 |
| Micromega Tempo 1 | 0 | 50W | 700 |
| Musical Fidelity A220 | 0 | 50W | 700 |
| Myryad MI 120 | 0 | 60W | 600 |
| Naim Nait 3 | 0 | 30W | 590 |
| Orelle SA-100RX | 0 | 75W | 649 |
| Primare A20 Mk II | 0 | 70W | 600 |
| Quad 77 Integrated | • | 85W | 700 |
| Rose Scion | • | 65W | 615 |
| Shearne Phase 2 | 0 | 50W | 689 |
| Sugden Audition T | 0 | 65W | 549 |
| Talk Electronics Storm 2 | 3 | 50W | 650 |
| Teac AB-X7R | 0 | 50W | 700 |
| Thule Audio Spirit IA100 | 0 | 100W | 599 |
| Thule Audio Spirit IA60B | 0 | 60W | 699 |
| | | | |

£701 TO £1000

| Alchemist Nexus | 0 | | 799 |
|------------------------------|---|------|-------|
| Alchemist Forseti Integrated | 0 | 100W | 1,000 |
| Arcam Alpha 10 | • | 100W | 800 |
| Audio Note Oto Line PP | | 12W | 950 |
| AVI S2000MI | 6 | 100W | 999 |
| Copland CSA8 | 0 | 60W | 899 |
| Credo IMP702 | • | 70W | 850 |
| Credo IMP703 | | 70W | 1,000 |
| Electrocompaniet ECI-2 | 0 | 50W | 995 |
| Exposure XV Super | | 55W | 800 |
| Holfi Audis Signature | 0 | 65W | 750 |
| LFD 0 LE Integrated | 0 | 60W | 799 |
| Linn Majik (Phono) | 6 | 33W | 800 |
| Magnum Class A SE | 0 | 80W | 795 |
| Marantz PM-17 | 0 | 60W | 900 |
| Meridian 551 | 0 | 55W | 795 |
| Micromega Tempo 2 | 0 | 70W | 900 |
| Naim Nait 3 R | 0 | 30W | 780 |
| Opera Aida | 0 | 60W | 795 |
| Pioneer A-07 | • | 80W | 999 |
| Rega Elicit | 0 | 70W | 730 |
| Roksan Caspian | 0 | 70W | 795 |
| Shearne Phase 2 Reference | 0 | 50W | 799 |
| Sonneteer Alabaster | 0 | 50W | 900 |
| Sugden A21a Int | 0 | 25W | 799 |
| Sugden Audition C | 0 | 60W | 799 |
| TAG McLaren 60i | 0 | 60W | 799 |
| TAG McLaren 60iRV | 0 | 60W | 999 |

Thule Audio Spirit IA150B £1001 TO £2000

Art Audio Integra 30W 1,499 ATC SIA2-150 **1**50W 1,984

6 150W

| | | | | r. | | | | | | | | | | | |
|--|-------------------|-----------|--------------------------|--|-----|----------|-------------------|--|------------|----|-------------------------|--|-----------------------|--------|-------------------|
| Audio Note Soro Line PP | 2 | 20W | 1,200 | Moth 30 Phono | | Ph | 249 | LFD MC1 Phonostage | | Ph | 949 | Conrad-Johnson Premier 15 | | Ph | 3,995 |
| Audio Note Oto Line SE | | | 1,200 | Moth 30 Line stage | 0 | | 349 | LFD LS1 Linestage | 6 | - | 999 | Conrad-Johnson Premier 14 | 0 | | 4,495 |
| Audio Note Oto Phono SE | | | 1,500 | Musical Fidelity X10-D | 0 | | 120 | LFD MC2 Phonostage | | Ph | 1,499 | Conrad-Johnson Premier 16LS | 0 | | 7,995 |
| Audio Note Soro Line SE | | | 1,699 | Musical Fidelity X-LP | | Ph | 130 | LFD LS2 Linestage | 0 | | 1,599 | Conrad-Johnson Art | 0 | | 14,995 |
| BB Audio BB 30-60 | 3 | WO | 1,495 | Musical Fidelity X-PRE | 0 | | 200 | LFD LSB Linestage | 0 | | 1,999 | CAT SL1 Sig. Mk3 | 0 | Ph | 6,500 |
| Beam-Echo SA-50 | O 5 | WO | 1,950 | Musical Fidelity E20 | 0 | Ph | 400 | Linn Wakonda | 0 | | 750 | CR Dev Kastor | 0 | | 2,995 |
| Bow Technologies Wazoo | | | 1,795 | NAD 114 | 0 | Ph | 270 | Linn Linto | | | 850 | Credo LPR 001 | | | 2,815 |
| Bryston B-60 | 6 | SOW | 1,249 | NAD 116 | 0 | Ph | 430 | Linn Kairn | 0 | | 1,400 | DNM 3C Primus | 0 | Ph | 2,550 |
| Copland CSA14 | 6 | SOW | 1,199 | Naim Prefix | | | 360 | Lumley LV1.5 | 0 | | 895 | DNM 3C Twin | 0 | Ph | 3,800 |
| Copland CSA28 | 6 6 | ow | 1,249 | Naim NAC92 | 0 | | 485 | Lumley LV1 | 0 | | 1,150 | DNM 3C Six | 0 | Ph | 5,050 |
| Copland CTA402 | | | 1,698 | NVA P50 | 0 | | 350 | Lumley PV1.5 | | Ph | 1,700 | EAR 802MC | 6 | Ph | 2,599 |
| CR Dev Romulus V3 | 6 3 | | 1,198 | Parasound P/HP-100 | | Ph | 130 | Lumley PV1 | 6 F | Ph | 1,700 | EAR G88 | 0 | Ph | 9,999 |
| CR Dev Athena | | | 1,499 | Parasound P/HP-850 | 0 | Ph | 400 | Matisse Atom | 0 | | 1,000 | EAR P52 | 0 | Ph | 15,999 |
| CR Dev Remus V3 | 6 | OW | 1,989 | Rega EOS | | Ph | 398 | McIntosh C712 | 0 F | Ph | 1,999 | Gamma Era Ref | • | Ph | 7,999 |
| Credo LIM 702 | | | 1,191 | Rega Cursa | 0 | Ph | 450 | Meracus Ingredi | 0 | | 925 | Graaf GM13.5B | 0 | | 3,750 |
| Credo LIM 703 | | | 1,249 | Roksan Artaxerxes 10 | | Ph | 395 | Mendian 501 | 6 | | 695 | Jadis DPL | 0 | | 2,900 |
| EAR 859 | 3 1 | | 1,999 | Rose RV-23 | • | Ph | 450 | Meridian 562 | | | 765 | Jadis DPMC | | Ph | 2,900 |
| EAR 834 | 3 4 | OW i | 1,999 | Rotel RQ970BX | | Ph | 130 | Meridian 562V | | | 995 | Jadis JPL | 6 | | 4,200 |
| Golden Tube Audio SI-50 MkII | 3 5 | 0W | 1,100 | Rotel RC971 | 6 | | 150 | Meridian 502 | 0 | | 1,295 | Jadis JPP200 | | | 4,290 |
| Graaf Venticinque | 6 2 | 0W | 1,790 | Rotel RC972 | 0 | | 225 | Michell Orca | 6 | | 1,650 | Jadis JP30MC | 6 | Ph | 5,290 |
| Jadis Orchestra | 0 | | 1,345 | Sunfire Phono | | Ph | 430 | Michi RHC-10 | | | 795 | Jadis JPS2 | 0 | | 6,690 |
| LFD Integrated 1 | 9 6 | 5W 1 | 1,099 | Talk Electronics Hurricane 1 | 0 | | 500 | Michi RHQ-10 | F | h | 1,150 | Jadis JP80MC | 0 | Ph | 10,166 |
| Meracus Intrare | | | 1,095 | Technics SU-C1000 Mk2 | 0 | Ph | 300 | Michi RHA-10 | | | 1,150 | Jadis JP200MC | | | 15,900 |
| Primare A301 | 3 10 | | 1,500 | Thule Audio Spirit PR100 | 0 | | 400 | Micromega Tempo P | 0 | | 1,150 | Krell KRC3 | • | | 2,998 |
| Rogers E-20a | | | 1,229 | Trilogy 905 | | | 375 | Muse Model 3 | • | | 1,990 | Krell KRC-HR | 0 | | 6,949 |
| Rogers E-40a | | | 1,900 | Trilogy 904 | | Ph | 375 | Musical Fidelity F25 | 6 F | h | 1,500 | LFD Disc Preamp | | Ph | 4,499 |
| Sonic Frontiers Anthem Integrated | | | 1,299 | Trilogy 900 | 0 | Ph | 499 | Myryad MP100 | 0 | | 600 | Mark Levinson 25S | | Ph | 2,950 |
| T+A R1200R | | | 1,750 | Unison Simply Phono | | Ph | 500 | NAD 118 | | | 1,000 | Mark Levinson 380 | 0 | | 3,995 |
| Thule Audio Space IA250B | | | 1,799 | Control of the Contro | | | | Naim NAC92R | 6 | | 650 | Mark Levinson 380S | 0 | | 6,495 |
| Unison Simply Two | | | 1,095 | £501 TO £2000 | Car | | | Naim NAC72 | 0 | | 745 | Matisse Fantasy | 0 | | 2,500 |
| Unison Simply Four P Unison Simply Four T | | | 1,595 | Adden Chesses | | | 1005 | Naim NAC102 | 0 | | 1,080 | Matisse Reference | | Ph | 3,500 |
| Unison Simply Four I Woodside ISA230 Line | | | 1,650 | Adyton Chorus | | | 1,995 | Quad 77 Pre | | h | 850 | McIntosh C22 | 0 | | 2,999 |
| Woodside ISA230 Disc | | | 1,099 | Alchemist Kraken Pre | 6 | | 549 | Quad 99 Pre | | h | 1,300 | McIntosh C40 | 0 | Ph | 4,999 |
| YBA Integre DT | | | 1,650 | Alchemist Forseti Pre | 0 | | 999 | Rega Hal | | Ph | 998 | McIntosh C39 Meracus Pretare | 0 | | 5,999 |
| TUN INTEGRE UT | 0 | | טכט,ו | Alchemist Signature Pre Art Audio Headline | 0 | | 1,499 | Roksan ROK-L2.5 | 9 | | 1,250 | | 0 | Ph | 2,195 |
| OVER CROSS | | | | Art Audio Headline Art Audio VPL | 0 | | 700 | Rose RV-23S Rotel RC995 | | h | 525 525 | Naim NAC82 | 0 | | 2,225 |
| OVER £2000 | | | | Art Audio VPL Art Audio Conductor Phono | | | 741 | | 6 | | | Naim NAC52 | 0 | | 3,450 |
| Adyton Opera | 0 | 014/ 2 | 2,595 | Art Audio Conductor Phono Art Audio VP1 | | | 750 | Shearne Phase 6 Pre Shearne Phase 1 Pre Ref | 0 | | 999 | Roksan ROK-L1.5 | 0 | | 2,250 |
| AMP Flux System 2 | | | 3,000 | Art Audio VP1 Art Audio Conductor | _ | | 952 | | 0 | N. | 1,499 | Rowland Synergy | 0 | | 4,999 |
| Audio Note Meishu Line | | | 2,750 | Art Audio Conductor Export | 0 | | 1,250 2,000 | Siemel MC20 Siemel MM20 | | h | 650 | Rowland Coherence Sonic Frontiers Line 1 | 0 | | 14,999 |
| Audio Note Ongaku | | | 6,000 | Audio Note M1 Line | | | 550 | Siemel TU10 | | h | 1,599 | Sonic Frontiers Line 2 | | | 2,499 |
| Audio Research CA50 | 6 | | 3,399 | Audio Note M1 RIAA | | Ph | 550 | Siemel TR20 | 0 | | 1,599 | Sonic Frontiers Line 3 | | | 3,299 4,999 |
| Belcanto SETi40 | | | 1,450 | Audio Note M2 Line | | Pn | 999 | Sonic Frontiers Anthem Pre 1P | 0 | h | 899 | T+A Pre DA3000 | | | 2,640 |
| Belcanto Orfeo 30SI | | | 5,450 | Audio Note Discovery | | | 999 | Sonic Frontiers Phono 1 | | h | 1,999 | Trilogy 918 | 0 | | 2,775 |
| Cary CAD-300SEI | | | 3,995 | Audio Note M2RIAA | | Ph | 1,099 | Sonographe SC26 | 9 | 'n | 995 | Woodside SC26 Line & Phono | | - | 2,775 |
| Conrad-Johnson CAV-50 | | | 2,495 | Audio Prism Mantissa | 6 | | 1,995 | Sugden Audition Pre | 0 | | 549 | YBA 1 | 6 | Ph | 3,500 |
| EAR V20 | G 24 | | 2,495 | Audio Research LS8 | • | | 1,449 | Sugden Masterclass Pre | 0 | | 1,995 | 15/(1 | U | | 3,300 |
| Electrocompaniet ECI-1 | | | 2,195 | Audio Research PH3 | | Ph | 1,490 | Sumo Athena II Line | 6 | | 767 | POWER AMPS | A STATE OF THE PARTY. | | |
| Gamma Rhythm | | | 2,499 | Audio Research LS9 | | | 1,949 | Sumo Athena IIB/II LS | 0 | | 987 | CONTRACTOR OF STREET STATE AND ADDRESS OF STREET | | | |
| Gamma Rhythm Ref | | | ,499 | Audio Synthesis Pro Passion | 0 | | 595 | Sumo Athena III | 0 | | 987 | KEY | | | |
| Gamma Moment | | | ,999 | Audio Synthesis Passion | 0 | | 695 | Sumo Artemis uP | 0 | | 1,595 | '20W' - Rated RMS outpo | it nov | ver ne | r |
| Jadis DA30 | | | 2,690 | Audio Synthesis Passion 8S | o | | 1,295 | Sunfire The Classic | 6 | | 1,630 | | | | |
| Jadis DA60 | 6 60 |)W 4 | 1,483 | Audio Synthesis Passion 8M | 0 | | 1,695 | T+A P1200R | 0 | | 965 | channel into nominal loa | a or 8 | Unm | |
| Krell KAV300ı | | | 2,590 | Aura CA-200 | | Ph | 700 | TAG McLaren PA10 | 6 P | h | 849 | UP TO £500 | | | |
| Krell KAV300r | | | 3,333 | AVI S2000MP | 0 | | 949 | TAG McLaren PPA20 | | h | 1,499 | OF 10 E300 | - | 200 | |
| McIntosh MA6400E | 6 10 | OW 3 | ,999 | AVI S2000MP+P | 0 | Ph | 1,199 | TAG McLaren PA20R | 0 | | 1,499 | Arcam Alpha 8P | 50W | | 260 |
| McIntosh MA6800E | 15 | OW 5 | ,999 | Beam-Echo SP-21 | | Ph | 1,116 | Talk Electronics Hurricane 2 | 0 | | 650 | Arcam Alpha 9P | 70W | | 400 |
| Meracus Onesta | O 75 | | ,595 | Bryston .4 | 0 | | 642 | Talk Electronics Hurricane 3 | 0 | | 900 | Creek A43 | 50W | | 399 |
| Musical Fidelity A1001 | 3 20 | | ,500 | Bryston BP5 | 0 | Ph | 889 | Talk Electronics Hurricane 4 | 0 | | 1,550 | Creek A52 | 70W | | 499 |
| Pioneer A-09 | 6 45 | | 1,000 | Bryston BP20 | | | 1,126 | Talk Electronics Hurricane 5 | 0 | | 1,900 | Crimson CS620C | 50W | | 450 |
| Rowland Concentra | 3 10 | | ,500 | Bryston BP-25 | | | 1,326 | Technics SU-C2000 | 0 P | h | 700 | Cyrus XPA | 50W | | 298 |
| Sonus Faber Musica | | | ,295 | Canary Audio CA-606 | 0 | | 1,295 | Thorens TTP-2000F | | h | 699 | Cyrus Power | 100W | | 498 |
| T+A R1500R | ③ 13 | | 2,015 | Canary Audio CA-601 | 0 | | 1,595 | Thule Audio Spirit PR150B | 0 | | 699 | Earmax Headphone | 0.1W | | 375 |
| Tube Tech Unisis Sig. Int. | | | 2,300 | Cary SLP-50 | 0 | | 995 | Trilogy 901 | 0 | | 750 | Earmax Headphone Pro | 0.1W | | 475 |
| Tube Tech Synergy PPS | | | ,900 | Cary SLP-74 | 0 | 200 | 1,795 | Trilogy 906 | P | h | 995 | LFD Mistral Power | 60W | | 449 |
| Unison Simply 845 | 6 24 | W 3 | 3,195 | Cary PH-301 | | | 1,795 | Trilogy 902 | 0 | | 1,595 | LFD PAO Powerstage | 50W | | 499 |
| | | | | Chord Phono | | Ph | 1,898 | Tron Retro | 0 | _ | 1,000 | Magnum MF120 | 85W | | 365 |
| PREAMPS | | | | Chord CPA 1800 | 0 | | 1,905 | Tron Nucleus Phono | P | | 2,000 | Marantz MA-500 | 125W | | 250 |
| KEY | | | | Concordant Exhilerant | | | 900 | Tron Nucleus | 0 | | 2,000 | Marantz MA-700 | 200W | | 400 |
| | | 28 (3) | | Concordant Exquisite | | | 1,950 | Tube Tech Seer Line | 6 | | 935 | Moth 30 Stereo | 30W | | 249 |
| ⑤ (etc) – Number of line-l | level in | puts. | | Conrad-Johnson PV-10AL | 0 | | 995 | Tube Tech Mac Phono | P | 'n | 1,150 | Moth Phones-01 | 0.1W | | 299 |
| Ph - Phono input fitted a | as stand | ard | | Conrad-Johnson PV-10A | | | 1,295 | Tube Tech Prophet | 9 | | 1,970 | Moth 30 Mono/40 Musical Fidelity X-CANS | 40W | | 469 |
| | | | | Conrad-Johnson PV-12AL Conrad-Johnson EF-1 | Θ | | 1,990 1,990 | Unison Feather One Unison Mystery Two | 6 | | 795 1,750 | Musical Fidelity X-CANS Musical Fidelity E30 | 0.1W | | 130 500 |
| (may be an option on some oth | ner mod | eis). | | Conrad-Johnson PF-2 | | | 1,990 | Unison Mystery One | 6 | | 1,750 | Musical Fidelity X-A50 | 100W | | 500 |
| UP TO £500 | | | | Copland CSA303 | | | 1,099 | van Den Hul Pre-amp | 6 | | 1,700 | Myryad T-60 | 50W 50W | | 300 |
| | The second second | erossill. | | Copland CTA301 Mkll | 0 | Ph | 1,249 | Wilson Benesch Stage One | P | | 995 | Myryad MA 120 | 60W | | 480 |
| Arcam Alpha 9C | 6 | | 400 | CR Dev Carmenta | 6 | - " | 659 | Woodside SC27 Line | 9 | • | 949 | NAD 912 | 30W | | 200 |
| Art Audio Minuet | _ | | 499 | CR Dev Argento | | Ph | 699 | Woodside SC26 Line | - | | 1,557 | NAD 214 | 80 W | | 370 |
| Audio Analogue Bellini | 6 P | | 495 | Credo CMP004 | | | 1,246 | XTC PRE-1 | 0 | | 1,250 | NAD 216THX | 125W | | 470 |
| Audio Note The M | | | 350 | Credo CMP005 | | | 1,876 | Yamaha CX-2 | e P | | 650 | Naim NAP90/3 | 30W | | 460 |
| Beam-Echo PP-21 | P | | 499 | Cyrus aCA7 | 0 | | 798 | YBA 3 | 0 | | 1,199 | Parasound HCA-750A | 75W | | 450 |
| Bryston BP1 | 0 P | | 438 | Densen DM-20 | 0 | | 1,200 | YBA Integre | 0 | | 1,199 | Quad 99 Stereo Power | 85W | | 500 |
| CR Dev Themis | P | h | 349 | DNM 3 Start | 0 | | 1,000 | YBA 2 | 0 | | 1,999 | Rega Maia | 85W | | 450 |
| Creek P43/R | 0 | | 350 | DNM 3A Start | 0 | Ph | 1,650 | | | | | Rotel RB971 | 70W | | 200 |
| Creek P52 | 0 | | 499 | DPA Enlightenment pre | | | 795 | OVER £2000 | | 30 | | Rotel RB981 | 130W | | 300 |
| Crimson CS610C | 6 P | | 450 | Dynavector L200 | 0 | | 995 | | | | | Rotel RB991 | 200W | | 500 |
| Cyrus aEQ7 | P | | 498 | Dynavector P100 | | | 1,495 | Adyton Temper | | | 2,495 | Shearne 3.5 | 35W | | 489 |
| DPA Enl'ment phono | P | | 275 | Dynavector L100 | 0 | | 1,995 | Adyton Modus | 0 | | 2,695 | Talk Electronics Tornado 1 | 50W | | 450 |
| EAR 834P | P | | 349 | Earmax Pre | 0 | | 1,895 | ATC SCA2 | | | 2,599 | Technics SE-A1000 Mk2 | 70W | | 350 |
| EAR 834L | 6 | | 449 | ECA Vista S | 0 | | 760 | Audio Note M3Line | | | 2,650 | | | | |
| EAR 834P/MC | P | | 499 | ECA Vista HD | 0 | | 880 | Audio Prism Avanti | 0 | | 7,995 | E501 TO £2000 | | 1 | |
| Electrocompaniet ECP-1 | P | | 495 | ECA Prisma | | Ph | 880 | Audio Research LS15 | 0 | | 3,399 | Alaba a Alaba de La Constitución | | 777 | |
| Henley HMC100 | | | 150 | Electrocompaniet EC-4.5 | | | 1,195 | Audio Research LS25 | | | 4,999 | Alchemist Kraken Pwr | 55W | | 549 |
| Henley HMC100 | | | 350 | Electrocompaniet EC-4.6 | 0 | | 1,750 | Audio Research REF 1 | 0 | | 8,495 | Alchemist Forseti Pwr | 150W | | 1,399 |
| Hi Q Sound LCP2 | | | 149 | Exposure XIX | | | 800 | Boulder LSAE | 0 | | 2,100 | Alchemist Signature Power | 100W | | 1,999 |
| LFD List Linestage | 6 | | 449 | Exposure XVII | | Ph | 850 | Boulder L5AE | | | 3,400 | Arcam Alpha 10P | 100W | | 600 |
| LFD LSO Linestage | 0 | | 499 | Golden Tube Audio SEP-2 | 0 | | 990 | Boulder L5M | | | 3,800 | Art Audio Quintet | 15W | | 1,393 |
| | 0 | | 345 | Golden Tube Audio SEP-3 | 0 | | 1,995 | Boulder 2010 | 0 | | 2,000 | Art Audio Quintet SE MB | -W | | 1,500 |
| Lumley PP70 | | | 345 | Graaf WFB Two | | | 1,350 | Canary Audio CA-801 | 0 | | 3,750 | Art Audio Concerto | 50W | | 1,669 |
| Lumley PP1 | 0 | | | Craaf WER Opp | | | | | 4.75 | | | | | | |
| Lumley PP1 Magnum MP120 | 6 | | 330 | Graaf WFB One | 0 | Ph | 1,750 | Cary SLP-98L | | | 2,595 | Audio Analogue Donizetti | 60W | | 595 |
| Lumley PP1 Magnum MP120 Magnum MP660 | 6 | | 330 500 | Henley HMC200 | | | 600 | Chord CPA 2200 | 0 | | 2,530 | Audio Note The P | 40W | | 550 |
| Lumley PP1 Magnum MP120 Magnum MP660 Magnum MP330 | 6 6 | | 330 500 500 | Henley HMC200 Hı Q Sound MCB2 | | Ph Ph | 600 545 | Chord CPA 2200 Chord CPA 3200 | 6 | | 2,530 3,785 | Audio Note The P Audio Note P0 | 40W 9W | | 550 599 |
| Lumley PP1 Magnum MP120 Magnum MP660 Magnum MP330 Monrio ADN-N | 6 6 6 | ħ | 330 500 500 295 | Henley HMC200 Hı Q Sound MCB2 Hi Q Sound MCL2 | 0 | Ph | 600 545 645 | Chord CPA 2200 Chord CPA 3200 Chord CPA 4000 | (3) (3) | | 2,530 3,785 6,675 | Audio Note The P Audio Note P0 Audio Note P1 | 40W 9W 12W | | 550 599 750 |
| Lumley PP1 Magnum MP120 Magnum MP660 Magnum MP330 | 6 6 | h | 330 500 500 | Henley HMC200 Hı Q Sound MCB2 | | Ph | 600 545 | Chord CPA 2200 Chord CPA 3200 | 6 | | 2,530 3,785 | Audio Note The P Audio Note P0 | 40W 9W | | 550 599 |

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285.00 825.00 250.00 40.00 50.00 70.00 90.00 100.00

130.00

| POWER AMPS (CONTIN | UED) | | T+A PA1200R | 90W | 1,445 | Jadis SE300B | 10W | 7,980 | Audioquest Ruby x3 Audioquest Quartz x3 | |
|--|--------------|----------------|---|--------------|-----------------|--|--------------|-----------------|---|------------|
| Audio Note P2SE | 1014/ | 1,499 | T+A A1500 T+A PA1500R | 140W 135W | 1,535 1,665 | Jadis JA80 Jadis JA100 | 60W 100W | 9,580 10,298 | Audioquest Quartz x3 Audioquest Opal x3 | |
| Audio Note Conqueror | 18W 8W | 1,599 | TAG McLaren 60P | 60W | 849 | Jadis JA200 | 160W | 13,980 | Audioquest Emerald x3 | |
| Audio Prism Antares | 35W | 1,695 | TAG McLaren 100P | 100W | 1,099 | Jadis JA500 | 400W | 19,990 | Audioquest Lapis x3 | |
| Audio Research D130 | 130W | 1,890 | Talk Electronics Tornado 2 | 65W | 600 | Krell KAV250a | 250W | 3,145 | Cable Talk Improved 2/CD | 0 |
| Audio Research VT60 | 35W | 1,999 | Talk Electronics Tornado 3 | 100W | 750 | Krell KAV500/2 | 100W | 3,195 | Cable Talk Advanced 2 | ③ |
| Aura PA-100 | 100W | 700 | Talk Electronics Tornado 4 | 110W | 1,100 | Krell KAV500i | 200W | 4,499 | Cable Talk Improved 2/Tape | 0 |
| Aura PA-200 | 110W | 1,200 | Technics SE-A2000 | 100W | 1,100 | Krell FPB200 | 200W | 5,998 | Cable Talk Monitor 2.1 | © |
| Aura PA-200 C AVI S2000MM | 100W | 1,250 1,399 | Thorens TTA-2000 Thule Audio Spirit PA100 | 30W | 599 600 | Krell FPB250m Krell FPB300 | 250W 300W | 8,994 9,500 | Cable Talk Studio 2 Cable Talk Professional 2 | © |
| Bryston 2B-LP | 150W | 750 | Thule Audio Spirit PA150B | 100W 150W | 699 | Krell FPB600 | 600W | 12,900 | Cable Talk Broadcast 2 | © |
| Bryston 3B-ST PRO | 75W 150W | 1,160 | Trilogy 948 | 50W | 1,895 | Krell FPB350m | 350W | 15,994 | Cable Talk Reference 2 | • |
| Bryston 3B-ST | 150W | 1,160 | Trilogy 948T | 22W | 1,895 | Krell FPB650m | 650W | 23,800 | Cable Talk Signature 2 Gold | • |
| Bryston THX3B | 150W | 1,262 | Tube Tech Syrinx | 45W | 1,150 | Lexicon 225 | 250W | 2,500 | Cambridge Atlantic | 0 |
| Bryston 7B-ST PRO | 500W | 1,545 | Tube Tech Unisis Sig. Pwr | 30W | 1,900 | Lexicon 501 | 500W | 5,000 | Cambridge Arctic | ③ |
| Bryston 4B-ST PRO | 300W | 1,756 | Unison Power 35 | 35W | 1,500 | Linn Klout | 80W | 2,400 | Cambridge Pacific | • |
| Bryston 7B-ST | 500W | 1,815 | Woodside SA240 | 40W | 1,199 | Lumley M125 | 120W | 3,750 | Cambridge Studio Reference | • |
| Bryston THX4B | 300W | 1,850 | Woodside MA100 | 100W | 1,733 | Lumley M250 Magnum Class A mono | 250W | 7,500 2,450 | Cambridge Silver Spirit 40 Cambridge Silver Spirit 60 | 0 |
| Bryston THX7B Canary Audio CA-706 | 500W 40W | 1,886 1,695 | Woodside STA50 XTC POW-2 | 50W 150W | 1,880 1,450 | Magnum A200SE | 180W 275W | 3,750 | Cardas Audio 300B-Microtwin | © |
| Canary Audio CA-708 | 50W | 1,950 | Yamaha MX-2 | 150W | 750 | Mark Levinson 334 | 125W | 5,495 | Cardas Audio Quadlink-Five | • |
| Chord SPM 400 | 100W | 1,425 | YBA 3 stereo | 150** | 1,299 | Mark Levinson 335 | 250W | 7,495 | Cardas Audio Cardas Cross | 0 |
| Chord SPM 600 | 130W | 1,850 | | | | Mark Levinson 336 | 350W | 8,995 | Cardas Audio Hexlink-Five C | 0 |
| Conrad-Johnson MV-55 | 50W | 1,995 | OVER £2000 | | | Mark Levinson 33H | 150W | 19,395 | Cardas Audio Hexlink Golden-5 C | |
| Copland CSA515 | 150W | 1,299 | | | | Matisse Ref Monoblocks | 180W | 8,000 | Cardas Audio Golden Cross | 0 |
| Copland CTA505 | 67W | 1,899 | Adyton Cordis 1.6 | 120W | | McIntosh MC150 McIntosh MC300 | 150W | 3,499 3,999 | ChordCo Cobra 3 | ③ |
| CR Dev Amphion Credo PMP 804 | 12W | 1,949 1,876 | Adyton Cordis 3B Art Audio Tempo | 280W | 12,995 2,499 | McIntosh MC500 | 300W 500W | 8,999 | ChordCo Cobra 2 ChordCo Siren | © |
| Creek A52SE | 10014/ | 599 | Art Audio Ouintet SE | 30W -W | 2,500 | McIntosh MC1000 | 999W | 14,999 | ChordCo Chorus | • |
| Crimson CS630C | 100W 100W | 800 | Art Audio Maestro | 100W | 102120 | Meracus Tentare | 75W | 2,245 | Connections UK Ultra | • |
| Cyrus aPA7 | 150W | 948 | ATC SPA2-200PRO | 200W | | Meracus Cantare | -W | 8,995 | Connections UK Midas | 0 |
| Densen B-300 | 100W | 800 | ATC SPA2-150 | 200W | 2,699 | Muse Model 160 Ser. II | 160W | 2,290 | Connections UK HD | 0 |
| Densen DM-30 | 100W | 1,200 | Audio Note P3 | 9W | 2,150 | Muse Model 150 | 125W | 2,690 | DBF Acoustics Black Velvet | • |
| DNM PA Start | 45W | 1,000 | Audio Note Quest | 9W | 2,750 | Muse Model 175 Ser. II | 175W | 3,490 | DBF Acoustics Black Velvet SE DBF Acoustics Azure SE | 0 |
| DNM PA1 Start | 45W | 1,650 | Audio Note Yubi | 18W | 3,850 | Muse Model 300 Ser. II Musical Fidelity F16 | 300W | 3,990 | DNM-Reson TCC75 | • |
| DPA Enlightenment pwr Dynavector HX75 | 100W | 995 1,995 | Audio Note Conquest Audio Note Tomei | 18W | 4,450 8,500 | Musical Fidelity F19 | 200W 300W | 2,500 4,000 | DPA Slink | |
| Earmax Power | 75W 25W | 1,895 | Audio Note Neiro | 30W 7W | 11,360 | Papworth M100 | 100W | 2,645 | DPA White Slink | |
| ECA Lectern S | 50W | 880 | Audio Note Ankoru | 60W | 14,500 | Papworth M200 | 200W | 3,825 | DPA Black Slink | |
| ECA Lectern HD | 50W | 1,480 | Audio Prism Debut Mk II | 35W | 2,495 | Roksan ROK-M1.5 | 160W | 2,250 | Ecosse Ref CA1 | 0 |
| Electrocompaniet AW60FTT | 60W | 1,095 | Audio Prism Mana | 100W | 12,995 | Rowland Model 2 | 75W | 4,999 | Ecosse Ref CS1 | 0 |
| Exposure XVIII Super | 70W | 850 | Audio Research VT50 | 50W | 2,950 | Rowland Model 6 | 150W | 10,999 | Ecosse Ref MA2 | • |
| Golden Tube Audio SE-40 | 40W | 1,100 | Audio Research 100.2 | 100W | | Rowland Model 8T | 250W | 12,499 | Ecosse Ref MS2 | 0 |
| Golden Tube Audio SE-300B MkII | | 1,790 | Audio Research VT100 MkII | 100W | | Rowland Model 9T | 350W | 27,999 | Ecosse Ref US1 Expressive Tech IC-1 | • |
| Graaf Venticinque P | 25W | 1,425 715 | Audio Research VT200 | 200W | | Shearne Phase 1 Pwr Ref Siemel TA20 | 100W | 2,399 2,350 | Gamma Wow Balance | • |
| Hi Q Sound MCM Jadis DA5 | 70W 40W | 1,749 | Audio Synthesis Desire Decade Beam-Echo DL7-35 | 200W 30W | 3,525 | Sonic Frontiers Power 1 | 50W 55W | 2,499 | Goertz M1 Interconnect | (3) |
| Krell KAV150a | 150W | 1,990 | Belcanto SET40 | 40W | 3,450 | Sonic Frontiers Power 2 | 110W | 4,999 | GT Audio Intercon | |
| Lexicon 212 | 120W | 1,850 | Belcanto Orfeo 30S | 35W | 4,750 | Sonic Frontiers Power 3 | 220W | 8,599 | Harmonix HS-102 | |
| LFD PA1 Powerstage | 60W | 999 | Belcanto SET80 | 80W | 6,750 | Sugden Masterclass Power | 75W | 2,995 | Harmonix HS-101 | |
| LFD PA2 Powerstage | 75W | 1,599 | Border Patrol 300B SE | 9W | 3,995 | Sumo Model Ten/M | 240W | 4,200 | Henley HSP10 | 0 |
| LFD PA2M Powerstage | 90W | 1,999 | Border Patrol 300B SE (WE) | 10W | 4,495 | Sunfire Load Invariant | 300W | 2,280 | Henley HSP50 | © |
| Linn LK100 | 50W | 650 750 | Boulder 102AE Boulder 102M | 100W | 2,800 3,100 | Sunfire Signature T+A A3000 | 600W 190W | 2,600 2,850 | Henley HSP100 Henley HSP200 | • |
| Linn LK240 Linn AV5105 | 120W 100W | 1,200 | Boulder 500AE | 100W 150W | | TAG McLaren 125M | 145W | 2,399 | Henley HSP250 | © |
| Lynwood Ruby | 120W | 985 | Boulder 500M | 150W | | Talk Electronics Tornado 5 | 200W | 2,100 | Heybrook Black Flash | |
| Magnum MF330 | 150W | 685 | Boulder 2060 | 600W | | Trilogy 958T | 45W | 3,395 | Insert Audio Focus 1.2 | 0 |
| Magnum MF660 | 125W | 825 | Boulder 2050 | 999W | | Trilogy 958 | 100W | 3,395 | Insert Audio IC100 Mk II | • |
| Magnum A500SE | 200W | 1,485 | Bryston THX8B | 150W | | Tube Tech Genesis Sig. | 100W | 4,700 | Insert Audio Image 5.1 | 0 |
| Magnum A50SE | 200W | 1,595 | Canary Audio CA-304 | 40W | 2,695 | Tube Tech Synergy DMA | 150W | 6,400 | Insert Audio Status 3.4 | 0 |
| McIntosh MC7100 | 100W | 1,999 | Canary Audio CA-301 | 22W | 2,995 5,495 | Unison Smart 845 Unison Smart 300B | 24W | 3,500 4,250 | lxos 104 lxos 1003 | ③ |
| Meracus Ciere Meridian 555 | 60W | 1,095 750 | Canary Audio CA-303 Cary CAD-572SE | 24W 20W | 2,495 | van Den Hul Power amp | 24W 65W | 2,500 | lxos Gamma 1002 | • |
| Meridian 556 | 60W 100W | 895 | Cary CAD-300SE | 12W | 3,995 | XTC POW-1 | 200W | 2,250 | lxos 103 | • |
| Mendian 557 | 200W | 1,400 | Cary 300SE Sig | 12W | 4,795 | YBA 2 stereo | 20011 | 2,200 | lxos 102 | |
| Meridian 505 | 160W | 1,590 | Cary CAD-805 | 50W | 8,995 | YBA 1 HC stereo | | 4,999 | Ixos 101 | © |
| Michell Alecto Stereo | 50W | 1,150 | Chord SPM 1000B | 200W | | | | | lxos 100.XO3 | 0 |
| Michell Alecto Mono | 100W | 1,950 | Chord SPM 1200B Chord SPM 1200C | 250W | | | | | Kimber PBJ Kimber KC1 | 0 |
| Michi RHB-05 Michi RHB-10 | 100W | 1,100 2,000 | Chord SPM 1400B mono | 350W 350W | | properties respectively. | NEWS THE R | | Kimber Hero | • |
| Micromega Amp | 200W 100W | 1,150 | Chord SPM 5000 | 415W | 10.02250 | | | | Kimber Silver Streak | • |
| Monrio Asty P | 100W | 950 | Conrad-Johnson MF2250 | 130W | | | | | Kimber KCAG | 0 |
| Moth Stereo 60 | 60W | 599 | Conrad-Johnson MF-2500 | 250W | 3,495 | | | | Kimber KCTG | 0 |
| Moth 30 Mono/100 | 100W | 879 | Conrad-Johnson Premier 11A | 70W | 3,500 | | | | LAT International IC-50 | 0 |
| Musical Fidality V A200 | 100W | 1,490 1,000 | Conrad-Johnson Premier 12 Conrad-Johnson Premier 8XS | 140W | | Constitution of the | | | LAT International IC-80 Mkll LAT International IC-100 Mkll | 0 |
| Musical Fidelity X-A200 NAD 218THX | 200W | 850 | Conrad-Johnson Premier 8AS | 150W | | | 500 | | LAT International IC-200 Mk II | |
| Naim NAP140 | 200W 45W | 770 | CAT JL1 | 275W 100W | | The second second | | | Lieder Chanson | • |
| Naim NAP180 | 60W | 1,090 | CR Dev Artemis | 35W | 4,995 | | | | Lieder Lek | • |
| Naim NAP135 | 75W | 1,705 | Credo LPO 804 | 3344 | 2,456 | 10000 | | | Lieder Het Lied | 0 |
| Naim NAP250 | 70W | 1,705 | Credo PMP 155 | | 2,676 | A SECTION OF THE PROPERTY OF T | | | Lieder Song | 0 |
| NVA A60 | 43W | 560 | Credo LPO 455 | | 4,975 | Real Section Co. | | | Lieder Maas | © |
| Papworth TVA50 | 50W | 1,425 | Credo LPO 155 | | 6,983 | | | 0 | Lieder Rijn | 0 |
| Parasound HCA-1000A Parasound HCA-1500A | 125W | 1,000 | DNM PA3 DNM PA3S | 50W | 2,500 3,750 | CABLES | | | Lieder Waal Lumley Silver 12/2 | 0 |
| Ouad 77 Power | 205W 85W | 600 | Dynavector HX1.2 | 23W 130W | | Analogue Inter | conne | cts | Lumley Silver 14/4 | • |
| Quad 909 | 140W | 800 | EAR 861 | 32W | 3,599 | KEY | | TI DOMESTIC | Monster Interlink 100 | 0 |
| Quad 707 | 140W | 800 | EAR 509 Mk II | 100W | | | 9 2 | 5) | Monster Interlink 200 | 0 |
| Quad 99 Monoblock | 150W | 1,200 | EAR 519 | 100W | | Stranded construction | on. | | Monster Interlink 300 MkII | 0 |
| Rega EXS | 70W | 598 | EAR 549 | 200W | | Solid-core construct | tion. | - | Monster Interlink 400 MkII | 0 |
| Rega Exon | 125W | 1,196 | Electrocompaniet AW120DMB | 120W | | Prices of interconnects a | | | Moth Leyline Black | 0 |
| Roksan Caspian Power Roksan ROK-S1.5 | 70W | 595 | Electrocompaniet AW250R Electrocompaniet AW180MB | 250W | | | | | Moth Leyline Grey | • |
| Roksan ROK-S1.5 Rose RP-190 (Dual Mode) | 100W 75W | 1,495 550 | Exposure IV | 180W 80W | 4,595 2,199 | for a one-metre termina | ted pair. | | Nordost Magic Nordost Black Knight | |
| Shearne Phase 3 | 75W 50W | 639 | Exposure XVI | 125W | | | | | Nordost Solar Wind | 0 |
| Shearne Phase 3 Reference | 50W | 749 | Gamma Aeon | 20W | 4,999 | Apertura Model B | • | 260.00 | Nordost Blue Angel | © |
| Shearne Phase 5 Mono | 100W | 1,598 | Gamma Space Ref | 18W | 7,999 | Apertura Model A | 0 | 469.00 | Nordost Blue Heaven I/C | 0 |
| Sonic Frontiers Anthem Amp 1 | 40W | 1,299 | Gamma Aeon Ref | 70W | 49,999 | Art Yam Church 5000 | 0 | 515.00 | Nordost Red Dawn | • |
| Sonographe SA250 | 125W | 1,195 | Golden Tube Audio SE-100 | 100W | | Audio Note AN-A | 0 | 18.00 | Nordost SPM | 0 |
| Sonographe SA400 Sugden Audition Power | 220W | 1,695 549 | Graaf 5050 Graaf GM20 | 50W | 2,100 2,850 | Audio Note AN-C Audio Note AN-S | • | 35.00 99.00 | Ortofon 7N interconnect Precious Metals Silver Signal 35 | • |
| Sugden Audition Power Sugden A21a Power | 25W | 649 | Graaf GM100 | 60W 100W | | Audio Note AN-S Audio Note AN-V | 0 | 179.00 | Precious Metals Silver Signal 50 | • |
| Sumo Polarís III | 164W | 950 | Graaf GM200 | 200W | | Audio Note AN-Vx | 0 | 450.00 | Precious Metals Silver Signal 52 | • |
| Sumo Model Five | 60W | 1,975 | Jadis DA8 | 80W | 2,990 | Audioquest Jade | | 30.00 | Precious Metals Silver Signal 53 | 3 |
| Sumo Andromeda III | 240W | 1,975 | Jadis DA7 | 100W | | Audioquest Turquoise 2 | | 40.00 | Precious Metals Silver Signal 100 | 0 |
| T+A A1210 | 90W | 875 | Jadis JA30 | 30W | 5,180 | Audioquest Topaz 2 | | 59.95 | Precious Metals Silver Signal 102 | 0 |

| Precious Metals Silver Signal 103 | • | | 160.00 |
|---|---------------|------------|------------------|
| Precious Metals Silver Signal 104 | 0 | | 190.00 |
| Precious Metals Silver Signal 200 | 0 | | 220.00 |
| Precious Metals Silver Signal 202 Precious Metals Silver Signal 203 | • | | 290.00 360.00 |
| Precious Metals Silver Signal 204 | 0 | | 430.00 |
| Prowire Silver | 0 | | 60.00 |
| PAD Elementa | 0 | | 145.00 |
| QED Qnect 2 QED Qnect 4 | 0 | | 30.00 60.00 |
| Roksan ROK-Intercon | • | | 75.00 |
| Shinpy Red Devil | 0 | | 80.00 |
| Shinpy Red Star 2 | 0 | | 120.00 |
| Shinpy Black Star 2 | 0 | | 240.00 |
| Shinpy Pulsar 2 Shinpy Quasar 2 | • | | 495.00 850.00 |
| Siltech MC2-12 | 0 | | 308.00 |
| Siltech MC4-24S | 0 | | 400.00 |
| Siltech FTM-3S Silver Sounds SS2 | 0 | | 730.00 |
| Silver Sounds SS1 | • | | 99.00 199.00 |
| Silver Tone Ex-Static | | | 35.00 |
| Silver Tone Sci-Fi | 0 | | 95.00 |
| SME S2LB-4 | 0 | | 46.18 |
| SME S3LB-4 SME 4900A | • | | 52.06 76.83 |
| SME 5900A | 0 | | 102.57 |
| SonicLink Red | 0 | | 25.00 |
| SonicLink Silver pink | 0 | | 35.00 |
| SonicLink Black SonicLink Brown | 0 | | 50.00 70.00 |
| SonicLink Violet | 0 | • | 85.00 |
| SonicLink Maroon | 0 | | 125.00 |
| SonicLink Blue Nickel | | • | 150.00 |
| SonicLink Vermilion SonicLink Red earth | | • | 195.00 |
| SonicLink Black earth | | • | 450.00 |
| SonicLink Blue earth | | • | 695.00 |
| SonicLink Black Rhodium | | • | 995.00 |
| Straightwire Chorus Supra DAC-X | *** | | 40.00 60.00 |
| Supra EFF-ISL | 0 | | 80.00 |
| Supra EFF-XLR | 0 | | 90.00 |
| Tara Prism 3 Tara Prism 5 | 0 | | 17.95 |
| Tara Prism 8 | 0 | | 21.95 25.95 |
| Tara Prism 11 | 0 | | 37.50 |
| Tara Prism 22 | 0 | | 63.50 |
| Tara Prism CD Tara Prism 33-i | 0 | | 76.25 88.25 |
| Tara Prism 55 | 0 | | 115.00 |
| Tara RSC-CD | | • | 138.00 |
| Tara RSC-Prime | | 0 | 170.00 |
| Tara RSC-Ref Gen. 2 Tara RSC-Master Gen. 2 | | 0 | 229.00 464.00 |
| Tara RSC-Decade | | • | 935.00 |
| Tara The 2 | | | 1,170.00 |
| Tara The One Transparent Cable Musichord | • | O 2 | 48.00 |
| Transparent Cable The Link | 0 | | 92.00 |
| Transparent Cable Music Link | 0 | | 119.00 |
| Trichord Pulsewire 75 | • | • | 169.00 |
| Vampire Wire CC Vampire Wire CCC/II | • | | 24.00 58.00 |
| Vampire Wire SC/II | 0 | | 98.00 |
| Vampire Wire SC/IV | 0 | | 144.00 |
| Vampire Wire Al/2 Vampire Wire SL | 0 | | 259.00 412.00 |
| van Den Hul Storm | • | | 25.00 |
| van Den Hul Source HB | 0 | | 50.00 |
| van Den Hul D102 III | 0 | | 69.99 |
| van Den Hul Thunderline HB van Den Hul First | ③ | | 130.00 |
| van Den Hul Second | 0 | | 240.00 |
| van Den Hul MC Gold | 0 | | 400.00 |
| van Den Hul MC Silver IT van Den Hul MC Silver IT Bal | 0 | | ,240.00 |
| Wireworld Orbit | • | | 30.00 |
| Wireworld Solstice II | 0 | | 40.00 |
| XLO Type 150 | 0 | | 50.00 |
| XLO Type 0.1 | | • | 180.00 |
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| Wireworld Orbit Wireworld Solstice II XLO Type 150 XLO Type 0.1 | *** | | 30.00 40.00 50.00 |
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| CABLES Digital Intercont | | łs | 100.00 |
| KEY | | | |
| Stranded construction Solid-core construction Prices of interconnects are for a one-metre terminate | on. e | nir. | |
| Apertura Model B | • | | 139.00 |

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| Cardas Audio Cross SC | | | 99.00 |
|--|---|-----|--|
| | 0 | | |
| Cardas Audio Hexlink-Five SC | 0 | | 109.00 |
| | | | |
| Cardas Audio Hexlink Golden5 SC | 0 | | 175.00 |
| Cardas Audio Golden Cross SC | • | | 789.00 |
| | | | |
| ChordCo Carnival | 0 | | 3.00 |
| ChordCo Myth | | | 6.00 |
| ChordCo Legend | 0 | | 15.00 |
| | | | |
| ChordCo Odyssey | 0 | | 17.00 |
| DNM-Reson LSC | | | 6.95 |
| DNM-Reson LSCB | | | 13.95 |
| | | | |
| Ecosse Ref FS2.16 | 0 | | 1.75 |
| Ecosse Ref CS2.2 | 0 | | 2.50 |
| Ecosse Ref CS2.3 | 0 | | 3.75 |
| | 69 | 100 | |
| Ecosse Ref CS2.15 | | | 5.75 |
| Ecosse Ref MS2.2 | 0 | | 15.00 |
| | | | 20.00 |
| Ecosse Ref MS2.3 | 0 | | |
| Ecosse Ref MS2.15 | 0 | | 30.00 |
| Ecosse Ref US2 | | 0 | 450.00 |
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| Gale XL105 | 0 | | 1.00 |
| Gale XL189 | 0 | | 1.00 |
| Gale XL315 | • | | 2.00 |
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| Gale XL160-2 | • | | 2.50 |
| Gale XL315-2 | 0 | | 3.99 |
| Gamma Wonder Line | 0 | | 99.00 |
| | 60 | | |
| Goertz M1 | | | 16.00 |
| Goertz M2 | | | 32.00 |
| Goertz Big Boy | | | 64.00 |
| CT A . I'm Co I | - | • | |
| GT Audio Speaker | 3 | | 50.00 |
| Harmonix Harmonic-Strings | | | 30.00 |
| Harmonix HS-101T-1 | | | 56.00 |
| Harmonix HS-101SC | | | |
| | 1000 | | 88.00 |
| lxos 607 | 0 | | 2.00 |
| lxos 6004 | 0 | | 3.00 |
| lxos 6003 | 0 | | 3.00 |
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| lxos 605 | 0 | | |
| Kimber 4PR | 0 | | 3.90 |
| Kimber 4VS | • | | 9.00 |
| | | | |
| Kimber 4TC | • | | 19.60 |
| Kimber 8TC | 0 | | 32.70 |
| Kimber 4AG | 0 | | 394.00 |
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| Kimber 8AG | 0 | | 656.00 |
| LAT International SS 800 | 0 | | 16.00 |
| LAT International BIWIRE | 0 | | 23.00 |
| LAT International SS 1000 | | | 36.00 |
| | 0 | | |
| Lieder Pad | • | | 133.00 |
| Lieder Bel Canto | 0 | | 188.00 |
| Lieder Spoor | 0 | | 253.00 |
| | | | |
| Lieder Straat | 0 | | 463.00 |
| Lieder Weg | 0 | | 663.00 |
| Linn K20 | 0 | | 4.00 |
| | | | |
| Linn K400 | 0 | | 10.00 |
| Linn K600 | 3 | | 15.00 |
| Lumley Silver 12/2 | 0 | | 35.00 |
| | | | |
| Lumley Silver 14/4 | 0 | | 40.00 |
| Mission Duet | 3 | | 1.90 |
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| | | | 3.90 |
| Mission Quartet bi-wire | | • | 3.90 |
| Mission Quartet bi-wire Monster XP Clear | | • | 2.20 |
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| Mission Quartet bi-wire Monster XP Clear Monster XP Navajo Monster Superflat Mini | • | • | 2.20 2.40 2.75 |
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Audio Note IO1 MM MM Audio Technica AT-91 Audio Technica AT-110E Audio Technica AT450E Audio Technica AT440ML Benz-Micro MC20EII

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| | | | London Decca S Gold | MM | 439 | Sony TC-KE200 | | | 120 | Kenwood DP-R3090 | ■> | | 140 |
| Denon DL110 | MC | | London Decca S Gold Dp | MM | 519 | Sony TC-WE525 | \Rightarrow | | 160 | Kenwood DP-R4090 | ■ ► | | 160 |
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| Grado ZF1+ | MM | 83 | Ortofon MC20 Supreme | MC | 450 | Yamaha KX-W321 | \Rightarrow | | 170 | Philips CD721 | | FFTen | 130 |
| Grado Prestige Red N'ham Tracer I | MM | 99 98 | Ortofon MC30 Supreme Ortofon MC2000II | MC | 550 800 | Yamaha KX-493 | | | 180 | Philips CD751 Philips CDC751 | ■ ► | 10 10 | 150 180 |
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| Ortofon OM DJ | MM | 50 | Pickering TL-3003 | MM | 145 | Denon DRS-810 | | 3-H | 310 | Pioneer PD-S505 | | 11 0 | 200 |
| Ortofon OM 20 Ortofon 520 | MM | 70 70 | Pickering XLZ-4500 Pickering TL-4004 | MM MM | 150 175 | H/K TD420 JVC TD-V662BK | | 3-H | 250 270 | Pioneer PD-F706 Rotel RCD-930AX | ■• | | 250 180 |
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| Ortofon 530 | MM | 100 | Reson Mica | MM MM | 185 | NAD 616 | - | | 300 | Sherwood CDC6050R | | | 180 |
| Pickering TE-15 | MM | 20 | Reson Reca | MM | 250 | Onkyo TA 6210 | | | 230 | Sony CDP-XE220 | | | 110 |
| Pickering VE-15 Pickering T-E | MM | 25 25 | Reson Aciore Reson Etile | MC MC | 299 455 | Onkyo TARW 211 Onkyo TARW 311 | = | | 270 320 | Sony CDP-M205 Sony CDP-M305 | | | 110 130 |
| Pickering V15-DJ | MM | 28 | Reson Lexe | MC | 1,300 | Onkyo TA 6310 | | | 330 | Sony CDP-XE310 | | | 140 |
| Pickering TL-E Pickering TL-2E | MM | 35 45 | Roksan Corus Black Roksan Shiraz | MM MC | 150 990 | Onkyo KR 609 Onkyo KW 606 | | | 350 370 | Sony CDP-XE520 Sony CDP-CE105 | ■ | | 150 150 |
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| Pickering XV15-150-DJ | MM | 50 | Stanton 890AL/X | MM | 120 | Onkyo K 611 | | 3-H | 460 | Sony CDP-CE315 | = | | 200 |
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| Pickering XV15-625DJ | MM | 60 | Transfiguration Temper | MC | 1,950 | Pioneer CT-S550S Precision | | 3-H | 340 | Synergy CDJ1210 | | | 120 |
| Pickering XV15-1800S Pickering TL3S | MM | 70 80 | van Den Hul MM-1 van Den Hul MM-2 | MM MM | 250 300 | Pioneer CT-S830S Pioneer CT-95 | | 3-H 3-H | 500 1,000 | Teac CDP-1120 Teac CD-P1820 | | | 100 130 |
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| Rega Super Bias Rega Elys | MM | 59 85 | van Den Hul The Frog Low o/p van Den Hul Grasshopper IIISLA | MC | 1,500 2,000 | Teac W-6000R Teac V-6030S | | 3-H | 450 550 | Technics SL-PG590A | | | 120 |
| Shure M70BX | MM | 21 | van Den Hul Grasshopper IIIGLN | MC | 2,800 | Teac V-8030S | | 3-H | 650 | Technics SL-PD688 | ■ | | 140 |
| Shure M92E Shure SC35C | MM | 22 29 | van Den Hul Grasshopper IIIGLA van Den Hul Grasshopper IIICMN | MC | 2,800 2,800 | Technics RS-AZ7 Technics RS-TR575 | _ | 3-H | 270 280 | Technics SL-PD888 Technics SL-PS670D | ■• | | 160 200 |
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| Stanton 500EL | MM | 44 | Wilson Benesch Analog | MC | 1,572 | PROGRAMMENT NAMED IN COLUMN | | | 4 | Yamaha CDX-493 | | | 180 |
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| Sumiko Oyster | MM | 30 | | | | | | | | Yamaha CDX-593 | | 1010 | 230 |
| Sumiko Black Pearl Sumiko Pearl | MM | 50 70 | AND THE RESIDENCE OF THE PARTY | | | | | | | £251 TO £500 | | | |
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| OVER £100 | | - | | · · ·)' | | | | | | Arcam Alpha 7 Arcam Alpha MCD | | 1010 1010 | 330 450 |
| OVER E100 | AND DESCRIPTION OF THE PERSON | | | | | | | / | | Aura CD100 | | 1010 | 400 |
| Audio Note IO2 | MM | 139 | | | | | | 8 | | Cyrus dAD1 Denon DCD-835 | | 10 10 | 398 |
| Audio Note Soara Audio Note IO1V | MC | | | | | | | | | Denon DCM-260 | ■ | 1010 | 280 300 |
| Audio Note IOLtd | MC | 4,500 | | | | No. | | | | Denon DCD-1550AR | | 1010 | 350 |
| Audio Technica AT-OC9 Benz-Micro The Glider | MC | | | | | | | | | H/K HD740 H/K FL8550 | ■ | 100 10 10 10 10 10 10 10 10 10 10 10 10 | 300 300 |
| Benz-Micro Reference | MC | 1,100 | A MANAGEM - | | 15 | CD PLAYERS | | | | H/K HD760 | | 110 | 500 |
| Benz-Micro Reference Ruby Benz-Micro Ruby Open Air | MC | | Company of the Compan | | | KEY | | | | JVC XL-Z674BK Kenwood DP-R7080 | ■ ► | 1010 1010 | 300 300 |
| Denon DL304 | MC | 200 | CASSETTE DECI | KS | | ■ ► – Multiplayer: can | be loa | ded | | Kenwood DP-9090 | | 1010 | 300 |
| Dynavector 10X4II Dynavector DV20XH | MC | | KEY | (A) (1957) | | with more than one disc | | | | Kenwood DP-5090 Kenwood DP-7090 | | 1010 1010 | 300 400 |
| Dynavector DV20XL | MC | | → – Autoreverse – no | need to | | 1010 - Electrical (coaxial | | al outp | ut. | Marantz CD-67SE Mkll | | 1010 1010 | 300 |
| Dynavector 17D2 | MC | 450 | remove and turn around | | | Many players also inclu | | | | Marantz CC-870 | ■ ► | 1010 | 400 |
| Dynavector XX-1L Dynavector XX-1 | MC | | 3-H - 3 heads, i.e. sepa | | | optical (Toslink) output. | | | | Marantz CD-63IIKI Musical Fidelity E60 | | 1010 1010 | 400 300 |
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| Goldring Eroica LX Goldring Eroica | MC | | UP TO £200 | | 9 (12-10-10) | | 70(2) | THE L | | Myryad T-10 NAD 513 | ■• | 1010 | 400 290 |
| Goldring 1042 | MM | 120 | OP 10 E200 | 1000 | | Akai CD1100 | | 1 10 | 200 | NAD 515 | | 1 0 | 350 |
| Goldring Elite Goldring Excel VX | MC | | Akai DXW1100 | | 200 | Akai CDM1200 AMC CD9 | ■ | | 230 130 | NAD 514 NAD 517 | | 1010 | 370 400 |
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| Grado Prestige Gold | MM | 149 | Ariston WX-510 | | 60 | Ariston CDX700 | | | 70 | Onkyo C721 | | 10 10 | 290 |
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| | MM | 299 | Pioneer CT-W205R | | 160 | JVC XL-F116BK | | | 200 | Sony CDP-X3000ES | | 1010 1010 | 500 |
| London Decca Maroon | | | | The state of the s | | | = | | | | | TO 10 | |
| London Decca Maroon London Decca Gold London Decca Maroon Dp | MM | 319 379 | Pioneer CT-W505R Pioneer CT-S450S | \equiv | 180 200 | JVC XL-Z574BK Kenwood DP-1080 | = | | 250 110 | Sony CDP-CX260 Synergy CDJ2010 | | Щи | 500 300 |

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| Orelle CD-100eSA Pioneer PDS-06 | [[]10 | | Audio Synthesis Transcend Decade Audiomeca Damnation | 1010 3,295 | Resolution D92 | 1,500 | Closed-back cons | struction. |
| Primare D20 | (D)10 | | Audiomeca Damnation SE | 10 999 10 1,100 | Rogers SC-8m Roksan Attessa-DA2 | 4 1,899 595 | UP TO £40 | |
| Quad 77 Bus | | 700 | Audiomeca Talisman | 1,850 | Sonic Frontiers Processor 3 | 5,999 | | |
| Quad 77 Mains Roksan Caspian | | 900 | Audiomeca Talisman SE Audiomeca Talisman DOB | 1,999 | Sumo Theorem II | 945 | AKG Rox | D 🚇 30 |
| Rotel RCD991 | 1010 1010 | | Audiomeca Talisman DOB Conrad-Johnson DR-1 | 1010 2,250 1010 1,795 | Sumo Theorem IIB TAG McLaren DAC20 | 1,155 1,249 | Aural Envelope DX200 Aural Envelope DX220 | D 20 D 30 |
| Sony CDP-XA50ES | 1010 | 1,000 | DPA Enlightenment Drv | 1010 775 | Teac D-T1 | 6 500 | Beyer DT111 | D 15 |
| Sugden Audition | | 649 | Jadis JD3 | 1,999 | Theta Digital Chroma 396 Std | 799 | Beyer DT211 | D 🄏 31 |
| Talk Electronics Thunder 3 Teac VRDS-8 | 1010 | 1,000 | Jadis JDI Linn Karık | 1010 9,190 1010 1,850 | Theta Digital Pro Geny Theta Digital Pro Prime IIa | 1,099 1,699 | Beyer DT211TV Hama SL273 | D & 35 D & 20 |
| Teac VRDS-9 | 1010 | | Mark Levinson 37 | 1,830 | Theta Digital Pro Basic IIIa | 2,990 | Hama SL275 | D |
| Teac VRDS-25X | 1010 | 1,000 | Mark Levinson 31.5 | 1010 9,295 | Theta Digital Casablanca LS | 6,158 | JVC HA-CD88 | D 😘 18 |
| Technics SL-P2000 Thule Audio Spirit CD100 | 1010 | | Meracus Imago | 10 10 3,995 | Thorens TDA-2000 | 3 700 | JVC HA-D525 | D 🚇 20 |
| Thule Audio Spirit CD150B | 1010 1010 | | Micromega Drive 3 Micromega Data | 10 1,000 10 2,000 | Trichord Pulsar Ser One Tube Tech Fulcrum | 1,395 1,400 | JVC HA-F65 JVC HA-D626 | D |
| Trichord Genesis | 1010 | 569 | Monrio Bitmatch | 1010 950 | Wadia 12 | 1,530 | Kenwood KPM-310 | D 🚇 18 |
| Trichord Digital Jukebox 25 Trichord Digital Jukebox 50 | ■ D10 | | Muse Model 5 Muse Model 8 | 1,800 | Wadia 15 | 3,790 | Kenwood KPM-410 | D 🚇 25 |
| Trichord Digital J'box 100 | ■ ► 10 10 | | Oracle CD Drive | 1010 3,500 1010 7,399 | Wadia 64.4 Wadia 16 | 4,750 7,395 | KLH KHP201TW KLH KHP-300V | D |
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| YBA Special | 1010 | 625 | Resolution VT960 Rogers SC-8t | 1010 3,500 1010 2,699 | Wadia 9 Woodside DVAC-18 | 12,790 | Maxell HP-2000 Pioneer SE-A40 | D 🚇 20 |
| OVER £1000 | | | Roksan Attessa-DP3 | 1010 2,699 1010 1,295 | WOOdside DWAC-18 | 1,499 | Pioneer SE-A20V | D 20 D 23 |
| | | Total State | Sonic Frontiers Transport 3 | 5,999 | | | Pioneer SE-M250 | D 🚇 25 |
| Acoustic Precision Eikos Alchemist Kraken CD | 1010 | 1,850 1,249 | T+A CM1200R TAG McLaren CDT20R | 1010 875 | | 4 | Pioneer SE-M350 | D 🚇 30 |
| Alchemist Forseti Int. | | 1,249 | Teac VRDS-T1 | 1010 1,499 1010 550 | 7/10 | 90. | Sennheiser HD56 Sennheiser HD433 | D 18 D 20 |
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| Audiomeca Talisman | 1010 1010 | | Thorens TCD-2000 | 1010 2,650 1010 999 | | 1.76 | Sennheiser HD60TV Sony MDR-W20G | D 40 D 18 |
| Audiomeca Falisman SE | 1010 | 2,300 | Trichord Digital Turntable | 1010 719 | | , 4 | Sony MDR-V50 | D 🚇 18 |
| Classe CDP- 3 | 1010 | 1.705 | Tube Tech Fulcrum | 1,000 | | 17 | Sony MDR-ED238ML | D * 20 |
| Conrad-Johnson DF-2 | Ting. | 1,695 | Wadia 20 | 1010 5,195 1010 4,370 | | 4/ | Sony MDR-A34L Sony MDR-E848LP/MP | D & 20 D & 20 |
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| Krell KAV250cd | (D)10 | | 1/20 | | The state of the s | | Vivanco IR5700 | D A 25 |
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| Marantz CD-17KIS Mark Levinson 39 | 1010 1010 | | 117.11 | | | | OVER E41 | |
| McIntosh MCD7009 | 1010 | 3,699 | | | Denon DMD-1000 | MD 300 | AKG K301 | D 🈘 80 |
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| Primare D302 | 1010 1010 | | | 3 1,100 4,995 | Sharp MD-R3H | MD 300 | Audio Technica ATH-M40 Audio Technica ATH911 | D 120 D 120 |
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| Quad 99 | | 1,300 | | 500 | Sharp MD-R1E Sharp MD-MS200H | MD 60 350 | Beyer DT411 Beyer DT431 | D 63 |
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| Sherwood CD1 | 1010 | | | 2,335 | Sony MDS-S39 | MD TBC | Beyer DT831 Beyer DT811 | D 49 140 |
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| T+A CD1210R | 1010 | 1,185 | Audiomeca Elixir | 799 | Sony MDS-JE520 | MD 230 | Beyer DT901 | D 160 |
| T+A CD1220R | 1010 | 1,540 | Audiomeca Ambrosia | 1,850 | Sony MDS-JB920 | MD 300 | Beyer DT911 | D 🄏 170 |
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| YBA Integre | [D10 | | | 6 4,800 | Teac MD-H500i Teac MD-8 | MD 350 MD 600 | Denon AH-D650 Denon AH-D750 | D 🚇 95 |
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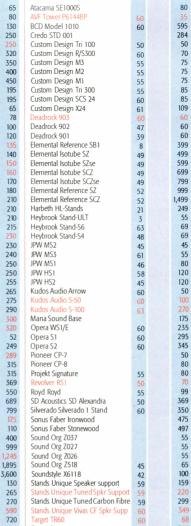


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| Kudos Linn I | | o Corır | nthian | |
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| Mana | Mini | Table | | |
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| Mana | Soun | d Stage | 2 | |
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| Mana | | helt ence T | ahla | |
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| 150 | Quadraspire Q4S shelf | | |
|------------|--|-----|------------|
| 190 | Quadraspire QKS Cabinet shelf | 1 | |
| 275 | Quadraspire QAV shelf | 1 | |
| 79 | Quadraspire QAV shell Quadraspire Q4M mini table | 4 | |
| 280 | Quadraspire Q4 table | 4 | |
| 660 | Quadraspire Q4SP Table | 4 | |
| 795 | Quadraspire QAV table | 3 | |
| 250 | Quadraspire QAVSP Table | 3 | |
| 240 | Quadraspire QK Cabinet | 4 | |
| 250 | Reson DOMOPS | 1 | |
| 270 | Reson DOMOWS | 1 | |
| 270 | Sound Org Z022 | 1 | |
| 350 | Sound Org Z021 | 2 | |
| 60 | Sound Org Z030 | 3 | |
| 90 | Sound Org Z060 | 4 | |
| 130 | Sound Org Z038 | 5 | |
| 230 | Sound Org Z540 | 4 | |
| 250 | Sound Org Z545 | 4 | |
| 169 | Sound Org Z560 | 5 | |
| 199 | Sound Org Z530 | 3 | |
| 209 | Soundstyle X300 | 3 | |
| 209 | Soundstyle X305 | 3 | |
| 329 | Soundstyle X053 | 4 | |
| 379 | Soundstyle X050 | 4 | |
| 189 | Soundstyle X6300 | 3 | |
| 199 | Soundstyle X100 | 4 | |
| 199 | Soundstyle X6110 | 4 | |
| 549 | Soundstyle X058 | 5 | |
| 549 | Soundstyle X310 | 3 | |
| 599 | Soundstyle X105 | 5 | |
| 799 | Soundstyle X6053 | 4 | |
| 199 | Soundstyle X6100 | 4 | |
| 199 | Soundstyle X6310 | 3 | |
| 349 | Soundstyle X6058 | 5 | |
| 599 | Soundstyle X6105 | 5 | |
| 399 | Soundstyle Finewoods W105 | 5 | |
| 479 | Stands Unique Isolation Platform | 1 | |
| 549 | Stands Unique Sound Support | 4 | |
| 995 | Stands Unique Sound Tower | 5 | |
| 139 | Stands Unique Compact Sound Sup | P 4 | |
| 150 | Stands Unique Sound Support 10 | 4 | |
| 265 | Stands Unique Sound Twr Cabinet | 5 | |
| 285 | Stands Unique Ref Wall Support | 1 | |
| 350 | Stands Unique Ultimate Tower | 10 | |
| 355 | Stands Unique Ref Floor Support | 6 | |
| 389 | Target B5 | 5 | |
| 190 | Townshend Seismic Sink 1-CD | | |
| 80 | Townshend Seismic Sink 1-3D | 14 | |
| 100 | Townshend S/Sink Stand 1-4 | 4 | |
| 500 | Townshend Seismic Sink Stand | 4 | |
| 85 | Vibraplane Passive | 1 | |
| 125 | Vibraplane Active | 1 | |
| 150 | Wilson Benesch Standard Shelf Wilson Benesch Mono Block | 1 | |
| 150 | Wilson Benesch Kevlar Shelf | 1 | |
| 150 | Wilson Benesch Asside Basic | 1 | |
| 175 | | 4 | |
| 200 235 | Wilson Benesch Asside Wilson Benesch Triptych | 4 | |
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| 500 | | | |

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| 1 | | 80 | AVF Tower |
| 1 | | 130 | BCD Mode |
| 4 | | 250 | Credo STD |
| 4 | | 250 | Custom D |
| 4 | | 320 | Custom D |
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| 3 | | | |
| 3 | | 400 | Custom D |
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| 4 | | 120 | Deadrock |
| 5 | | 135 | Elemental |
| 4 | | 140 | Elemental |
| 4 | | 150 | Elemental |
| 5 | | 160 | Elemental |
| 3 | | 170 | Elemental |
| 3 | | 180 | Elemental |
| | | | |
| 3 | | 210 | Elemental |
| 4 | | 210 | Harbeth H |
| 4 | | 210 | Heybrook |
| 3 | | 215 | Heybrook |
| 4 | | 230 | Heybrook |
| 4 | | 230 | JPW MS2 |
| | | 240 | JPW MS3 |
| 5 | | 250 | JPW MS1 |
| 3 | | | |
| 5 | | 250 | JPW HS1 |
| 4 | | 255 | JPW HS2 |
| 4 | | 265 | Kudos Aud |
| 3 | | 275 | Kudos Aud |
| 5 | | 290 | Kudos Aud |
| 5 | | 300 | Mana Sou |
| 5 | | 320 | Opera WS |
| | | 52 | Opera S1 |
| 1 | | | |
| 4 | | 249 | Opera S2 |
| 5 | | 289 | Pioneer Cl |
| 4 | | 315 | Pioneer Cl |
| 4 | | 315 | Projekt Sig |
| 5 | | 369 | Revolver R |
| 1 | | 550 | Royd Royd |
| 10 | | 689 | SD Acoust |
| 101 | | | Silverado S |
| 6 | | 799 | |
| 5 | | 175 | Sonus Fab |
| | | 110 | Sonus Fab |
| | | 400 | Sound Org |
| 4 | | 999 | Sound Org |
| 4 | | 1,245 | Sound Org |
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| | | 3,600 | Soundstyle |
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| 4 | | 590 | Stands Un |
| 4 | | 720 | Target TR6 |
| 1 | | 990 | Target R1 |
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| | | | |
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| | | | 100000 |
| | 2000 | | |





EQUIPMENT SUPPORTS Speaker Stands

900

299

349 349

450

145

190

255

280

300

500 500

510 545

555

560

65

Atacama SL400

12 8

16

Quadraspire Q4S mini shelf

Projekt D4

60 - Height of stand in cm

| oo meight of stand if | | |
|-----------------------|-----|-----|
| Alphason NCI | 60 | 4 |
| Alphason Akros I | 60 | 40 |
| Alphason RS1 | 120 | 40 |
| Alphason NCII | 60 | 84 |
| Alphason HDS-40/M | 60 | 85 |
| Alphason Titan S | 60 | 125 |
| Apollo AZ6 | 66 | 80 |
| Atacama BD21 | 56 | 55 |
| Atacama BD17 | | 55 |
| Atacama BD25 | | 60 |
| Atacama SE16 | | 65 |
| Atacama SE12 | | 65 |
| Atacama SX500 | | 67 |
| Atacama F2 | | 70 |
| Atacama F1 | | 70 |
| Atacama SX600 | | 70 |
| Atacama SL200 | | 70 |
| Atacama SE24 | 61 | 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 |



LOUDSPEAKERS

± - Floorstander; larger models requiring no separate stand. ■ – Stand mount; smaller models designed to be raised above the floor. **≱** – Wall mount; designed to be sited on or near the wall. ☐ - Box type, including infinite baffle, reflex and transmission line types. □ - Horn type; mostly large and very efficient. ☐ - Panel type, including electrostatic and planar magnetic types.

UP TO £130

| Allison Micro Monitors | 9 | 0 | 95 |
|-------------------------|----|---|-----|
| Allison Mini References | 9 | 0 | 120 |
| Ariston MSX 03 | Ξ. | 0 | 30 |
| Ariston MSX 05 | 9 | 0 | 50 |
| Celestion 12i | 9 | 0 | 119 |
| Denon SC-M2 | | 0 | 80 |
| Denon SC-E313SE | ₽ | 0 | 130 |
| Gale Mini Monitors | Π. | 0 | 70 |
| Gale Gold Monitors | Ω. | 0 | 90 |
| Gale 2i | Ω. | 0 | 130 |
| | | | |

| Genexxa GX300 | | 80 |
|---|------------|-----------|
| Genexxa GX330 | | 80 |
| GLL Arena | P O | 90 |
| GLL Imagio IC208 | 9 0 | 100 |
| Goodmans Active 75 | ₽ □ | 65 |
| Heybrook Prima 2 | 모 | 129 |
| Interaudio XL1000 | <u> </u> | 130 |
| Jamo Studio-80 Jamo D-110 | | 70 100 |
| Jamo SAT-170 | <u> </u> | 110 |
| Jamo Studio-110 | 9 0 | 110 |
| Jamo Artina | 9 0 | 120 |
| Jamo D-115 | 9 0 | 120 |
| Jamo 28 | | 125 |
| Jamo Cornet 145 | 9 0 | 130 |
| JBL CM40 | 9 0 | 90 |
| JBL MX300 | <u> </u> | 90 |
| JBL Control 1X | <u> </u> | 100 |
| JBL CM42 | <u> </u> | 130 |
| JPW Mini Monitor JPW ML110 | <u> </u> | 60 70 |
| JPW MC110 JPW Gold Monitor | <u> </u> | |
| JPW ML210 | | 80 80 |
| JPW ML310 | 0 0 | 90 |
| JPW ML410 | | 100 |
| JPW ML510 | R 0 | 130 |
| JVC SX-SC1VBK | A 0 | 60 |
| JVC SP-V50 | 9 0 | 80 |
| JVC SP-X220TBK | # □ | 100 |
| JVC SP-X550BK | ₩ □ | 130 |
| KEF Coda 7 | <u>n</u> 0 | 129 |
| Kenwood LS-90UK | 요 @ | 130 |
| Mission 700 Mordaunt-Short MS812 | | 130 |
| NAD 801 | | 100 |
| Paradigm Micro v2 | 9 0 | 100 |
| Paradigm Atom v2 | 9 0 | 120 |
| Pioneer CS-3030 | | 120 |
| Polk AB410 | + 0 | 100 |
| Realistic Minimus 26 | 9 0 | 56 |
| Realistic Minimus Pro-77 | <u> </u> | 100 |
| Revolver Beretta | | 100 |
| R Allen Minette 2 | P 0 | 129 |
| Solid HCM2 | 9 0 | 130 |
| Sony SS-86E Tangent Monitor 3 | 9 0 | 100 |
| Tangent Monitor 5 | <u> </u> | 60 80 |
| Tannoy Mercury M1 | | 120 |
| TDL Nucleus 1 | 9 0 | 75 |
| TDL Nucleus 2 | | 130 |
| Teac LS-X8 Mk II | 9 0 | 80 |
| Technics SB-CS55 | <u> </u> | 80 |
| Technics SB-CS65 | <u> </u> | 100 |
| Technics SB-CS75 | <u> </u> | 100 |
| W'dale Valdus 100 W'dale Diamond 7.1 | <u> </u> | 80 |
| W'dale Valdus 200 | <u> </u> | 100 |
| W'dale Modus Micro | 9 0 | 110 |
| modas micro | ± 2 | |

| Interaudio XL2000 | Ε. | 0 | 200 |
|---------------------------|------------|---------|-----|
| | | | |
| Jamo Cornet 165 | | 0 | 150 |
| | | | |
| Jamo 38 | | 0 | 150 |
| Jamo 525 | ± | 0 | 150 |
| | | | |
| Jamo 560 | ₹ | 0 | 150 |
| | | | |
| Jamo 660 | * | 0 | 170 |
| Jamo Studio 180 | ¥ | - | 180 |
| Janno Studio 160 | * | 0 | 100 |
| Jamo D165 | ±I | 0 | 200 |
| | | _ | |
| Jamo 68 | 0 | 0 | 200 |
| | | | 200 |
| Jamo 892 | * | 0 | 200 |
| JBL CM52 | 9 | 0 | 150 |
| | | | |
| JBL MX1000 | Ŧ | 0 | 170 |
| | | _ | 200 |
| JBL LX20 | 9 | 0 | 200 |
| JBL MX1500 | ¥I | 0 | 200 |
| | | | |
| JPW ML610 | 0 | 0 | 170 |
| IDIA/ CCEE1 | - | = | 200 |
| JPW SS551 | 9 | 0 | 200 |
| KEF Coda 8 | 9 | 0 | 189 |
| | | | |
| KEF Model 60S | | 0 | 199 |
| | | _ | 200 |
| KEF Q15 | - 9 | 0 | 200 |
| Kenwood LS-200G | | 0 | 200 |
| | | | |
| KLH Model 21 | 0 | 0 | 155 |
| KLH Model 11 | 0 | | 155 |
| | | 0 | |
| KLH Model 31 | | 0 | 185 |
| | | | |
| Magnat Vector 22 | | 0 | 179 |
| Mission 701 | - | - | 160 |
| MISSIOII 701 | 9 | 0 | 100 |
| Mission 771 | | 0 | 170 |
| | | _ | |
| Mission 702 | | 0 | 200 |
| M-A Monitor 1 | | 0 | 200 |
| | 9 | | |
| Mordaunt-Short MS814 | ± I | 0 | 150 |
| | | | |
| Paradigm Mini Monitor | 0 | 0 | 200 |
| Pioneer CS-5030 | 0 | 0 | 170 |
| | | 0 | |
| Polk M2 | * | 0 | 180 |
| D. II DT7 | | | |
| Polk RT3 | 9 | 0 | 200 |
| Polk AB610 | * | 0 | 200 |
| | | 0 | |
| Rega Kyte | | 0 | 198 |
| | | | |
| Revolver Colt | 9 | 0 | 139 |
| Revolver The 230 | 9 | 0 | 169 |
| | | | |
| Revolver Purdey Mkll | 9 | 0 | 199 |
| R Allen Minette 3 | ¥ | 0 | 159 |
| | | | |
| R Allen Dim'n 5/1 Compact | | 0 | 179 |
| | | | |
| R Allen RA6 | 2 | 0 | 199 |
| Rogers GS1 | | 0 | 179 |
| | | | |
| Royd A7X | | 0 | 155 |
| | | | |
| Sequence 200 | * | 0 | 199 |
| Solid Monitor | | 0 | 200 |
| | | | |
| Sony SS-126EB | 9 | 0 | 150 |
| Sony SS-176E | | 0 | 200 |
| | ± | 0 | |
| Tangent Monitor 9 | #1 | 0 | 150 |
| | | | |
| Tangent Monitor 11 | * | 0 | 180 |
| Tannoy Mercury M2 | | 0 | 140 |
| | | | |
| Tannoy Revolution R1 | | 0 | 200 |
| TDL Nucleus 3 | - | | 200 |
| | ¥ | 0 | |
| Technics SB-CS95 | <u> </u> | 0 | 150 |
| | | | |
| Technics SB-M20 | 9 | 0 | 200 |
| TLC Maestro 70S | | 0 | 159 |
| | | | |
| W'dale Valdus 300 | B | 0 | 150 |
| W'dale Diamond 7.3 | | | 150 |
| | 9 | 0 | |
| W'dale Modus Music Two | | 0 | 200 |
| | | | |
| W'dale Diamond 7.2 Ann'y | | 0 | 200 |
| W'dale Valdus 400 | ±I | 0 | 200 |
| ** daic values 700 | - | | 200 |
| | - | ALIEN A | · · |
| £201 TO £300 | | | |
| | | | |
| Acoustic Energy AE200 | | 0 | 250 |
| | = | | |
| Arcaydis Baby 1 | | 0 | 299 |

| TLC Maestro 70S Wdale Valdus 300 Wdale Diamond 7.3 Wdale Modus Music Two Wdale Diamond 7.2 Ann'y Wdale Valdus 400 £201 TO £300 | 명 명 명 명 <u>이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이</u> | 159 150 150 200 200 200 |
|---|--|--|
| Acoustic Energy AE200 | | 250 |
| Arcaydis Baby 1 | | 299 |
| Audio Gem Opal | 9 0 | 230 |
| B&W CWM6i | ± □ | 280 |
| B&W DM602 | <u> </u> | 300 |
| Bose 151 | 9 0 | 220 |
| Bose 301 IV | 0 0 | 300 |
| Boston 361 | → □ | 219 |
| Boston CR8 | 9 0 | 239 |
| Boston 381 | → □ | 259 |
| Boston CR9 | . 0 | 279 |
| Boston Voyager | P 0 | 299 |
| Castle Isis | | 250 |
| Celestion C1 | B 0 | 299 |
| Celestion 23i | ₩ □ | 299 |
| Cerwin-Vega VS-8 | £ 0 | 250 |
| Cerwin-Vega CT-330 | ¥1 0 | 300 |
| Chario Syntar 100 | | 249 |
| Chario Ref 100 | B 0 | 299 |
| Chario Hiper 1000 | <u> </u> | 300 |
| Dali 102B | <u> </u> | 260 300 |
| Dali 150 | 9 0 | 249 |
| Eltax Linear Response GLL Imagio IC238TL | ₽ □ | 250 |
| Heybrook Optima | ¥1 0 | 259 |
| Heybrook Heylios | 9 0 | 269 |
| Interaudio XL3000 | 2 0 | 230 |
| Interaudio XI 4000 | 9 0 | 260 |
| Jamo Cornet 175 | ¥1 0 | 230 |
| Jamo Classic 4 | | 250 |
| Jamo Art | → □ | 300 |
| Jamo D265 | ¥I 🖸 | 300 |
| JBL CM62 | 9 0 | 250 |
| JM Lab Tantal 507 | <u> </u> | 295 |
| JPW ML710 | ₩ 0 | 230 |
| JPW ML810 | ± 1 □ | 260 |
| JVC SX-SW10 | ₽ □ | 300 |
| KEF Coda 9 | ₩ 0 | 299 |
| KEF Model 70S | 9 0 | 299 |
| KLH 83A | 9 0 | 205 |
| KLH 183A KLH Soundbites System | ⋣ □ | 265 |
| KLH Model 81 | → 0 | 276 280 |
| KLH Model 41 | 9 0 | 290 |
| KEIT WOODE TI | I 0 | 250 |

KLH Model 41

9 Linn Kan 0 Mission 772 DI + 101 0 0 0 0 0 0 Mission 703 M-A Monitor 2 Mordaunt-Short MS815 和 Mordaunt-Short MS816 NAD 802 00000000 Paradigm Monitor 5 Paradigm Monitor 7 Pioneer CS-7030 Pioneer CS-9030 Polk AB505 Polk M3 II Polk RT5 0000 Polk M5 Promenade SP1 **本中的存在** R Allen Dimension Five 1 0 0 0 0 R Allen RA8 R Allen RASM R Allen Dimension Five 2 0 西西村田 Rogers GS3 Royd The Envoy 0 0 Sequence 300 **廿日本本日本本中日** 250 250 Sony SS-176EB 000000 Tannoy Precision P10 TDL Nucleus 4 TLC Maestro 1309 TLC Voyager 350 W'dale Modus Music Four <u>+</u> 0 Yamaha NS10M ZYP A1 ZYP A2S 0 0

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295 £301 TO £500 Acoustic Energy AE105SE • 0 320 五 Acoustic Energy AE209 450 **→**日子日日日日日子 Allison Model 2A Arcavdis Baby 2 0000 399 Arcaydis ASC 399 Arcavdis AK1 449 Audiovector C1 399 AVI Neutron 0000 499 B&O Beovox CX50 325 B&O Beovox CX100 425 B&W CWM8i 350 B&W CDM2SE 0 0 0 R&W DM603 B&W Signature 7 500 **★** Bandor Pictures 352 平平市 Boston Micro 90 Sat 369 0 Boston Micro 80 Sys 369 Boston VR20 380 **本本本中本** Castle Eden 0 500 Celestion 25i 0 399 Celestion 30i 449 499 Celestion 35i 中中日本 0 0 Chario Syntar 100T Chario Ref 1000 399 Clements 300si 395 **中市本中** 500 Dali Royal 0 0 0 Def Tech Celsius 395 Dynaudio Audience 40 平平平 GLL Imagio IC248TL 0 0 350 GLL Imagio IC258TL 450 GLL Imagio IC348TL 500 Heybrook Heylo ¥ 0 330 Jamo Classic 6 Jamo Comet 195 平平 Jamo BX-100A 0 350 Jamo 98 Jamo D365 400 → 四 → → → → □ □ Jamo Graphic 400 000000 Jamo 128

Jamo BX-150A

JM Lab Micron

JM Lab Megane Jordan Watts JHFLG

Jordan Watts JH200

JBL Ti 200

Jamo Atmosphere JBL LX60



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|--|----------|---|------------|
| Acoustic Energy AE1 SE | | | |
| | 0.000 | | 200 |
| JPW ML910 JPW SS553 | # | 0 | 330 400 |
| JPW ML1010 | <u>₩</u> | 0 | 400 |
| JPW Ruby 1 | <u> </u> | 0 | 400 |
| JPW Ruby 2 | 9 | 0 | 500 |
| KEF Q35 | ¥ | 0 | 349 |
| KEF Q55 | Ŧ | 0 | 499 |
| KEF RDM One Keswick Aria II | | 0 | 499 379 |
| KLH 283A | ± | 0 | 310 |
| KLH 383A | Ŧ | 0 | 335 |
| KLH Model 51 | Ŧ | 0 | 375 |
| KLH Model 71 | ¥ | 0 | 420 |
| KLH Model 62T | Ŧ | 0 | 486 |
| Linn Sekrit | * | 0 | 395 |
| Magnat Vector 55 Magnat Vector 77 | # | 0 | 349 449 |
| Mission 751f | 4 | 0 | 348 |
| Mission 773 | Ŧ | 0 | 350 |
| Mission 704 | ¥ | 0 | 450 |
| Mission 774 | 业 | 0 | 500 |
| M-A Monitor 3 | 业 | 0 | 350 |
| M-A Silver 5 M-A Studio 2SE | Ŧ | 0 | 400 |
| M-A Monitor 4 | <u>₽</u> | 0 | 500 |
| M-A 700 PMC | H | 0 | 500 |
| Mordaunt-Short MS817 | ¥ | 0 | 500 |
| Mus Tec Harrier | # | 0 | 400 |
| Mus Tec PM15 | 2 | 0 | 475 |
| NAD 804 | Ŧ | 0 | 400 |
| Neat Critique Opera Duetto | 9 | 0 | 445 395 |
| Opera Prima | 9 | 0 | 495 |
| Origin Live OL-1AS | 0 | 0 | 399 |
| Origin Live Monarch | | 0 | 399 |
| Paradigm Studio/20 | <u>=</u> | 0 | 350 |
| Paradigm Monitor 9 | Ŧ | 0 | 400 |
| Pentachord A Pioneer S-LC2 | 和 | 0 | 469 450 |
| Polk AB705 | 7 | 0 | 330 |
| Polk RT8 | ¥ | 0 | 400 |
| Polk RT10 | ± | 0 | 500 |
| Polk AB805 | ₹ | 0 | 500 |
| Prof Monitor Co TB1SM Prof Monitor Co TB1 | # | 0 | 403 |
| Prof Monitor Co TB1S | <u>n</u> | 0 | 430 |
| Prof Monitor Co TB1M | | 0 | 447 |
| Prof Monitor Co XB1 | 9 | 0 | 499 |
| Promenade SP2 | <u>P</u> | 0 | 399 |
| Promenade SP3 | Ŧ | 0 | 499 |
| Rega Jura | Ŧ | 0 | 450 498 |
| Rega ELA MkII Revolver The 260 | 和 | 0 | 350 |
| R Allen Dimension Five 3 | #1 | 0 | 349 |
| R Allen Dimension Five 4 | ¥ | 0 | 429 |
| Rogers GS5 | ¥ | 0 | 379 |
| Rogers GS6 | ¥ | 0 | 429 479 |
| Rogers GS8 Rogers C6/20 | # | 0 | 499 |
| Royd The Squire | ±1 | 0 | 350 |
| Royd Minstrel SE | Ŧ | 0 | 399 |
| Royd Doublet | 业 | 0 | 485 |
| Ruark Icon | <u>-</u> | 0 | 399 |
| Sequence 400 | 권 | 0 | 329 |
| Solid Verticale S Coast Odette | 9 | 0 | 400 325 |
| Spendor S3/5 | <u>H</u> | 0 | 499 |
| System 1 130 | # | 0 | 500 |
| Tannoy Precision P20 | ¥ | 0 | 400 |
| TDL G20 | ₩ | 0 | 380 |
| TDL Can | <u>B</u> | 0 | 450 500 |
| TDL G30 Technics SB-M300 | 田 | 0 | 350 |
| Technics SB-M500 | ± | 0 | 450 |
| TLC Altus 300 | ¥ | 0 | 366 |
| Triangle Titus TZe | <u>_</u> | 0 | 379 |
| Triangle Lunn | Ŧ | 0 | 500 |
| W'dale Modus Music Six W'dale Modus Music Eight | 和 | 0 | 330 430 |
| W'dale Modus Music 1/6 | 和 | 0 | 500 |



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Acoustic Energy As

Allison Model 4A

Acoustic Energy AE100i



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| 1441-1-C-1-1-007 |
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| Meridian A500 |
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| S Coast Hades | #1 | 0 | |
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| Tannoy Definition D100 | 2 | 0 | |
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| Titan Logic T/2 | - | 0 | |
| TLC Classic 2 | Ŧ | 0 | |
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Acoustic Energy AE509 Acoustic Energy AE520 Acoustic Energy AE2-II Acoustic Solutions Eight

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| B&W Matrix 805 V | 묘 | 0 | 1,095 |
| Bandor Trident | 2 | 0 | 846 |
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| Bose 701 | 9 | 0 | 1,000 |
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| Castle Harlech | 业 | 0 | 900 |
| Celestion A1 | - 5 | 0 | 899 |
| | - | | 999 |
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| Diapason Prelude II | | 0 | 875 |
| | | 0 | 1,275 |
| Diapason Karis | <u>B</u> | | |
| Dynaudio Contour 1.1 | | 0 | 879 |
| Dynaudio Audience 70 | ¥ | 0 | 1,100 |
| Dynaudio Contour 1.3 | | 0 | 1,198 |
| Dynaudio Audience 80 | | 0 | 1,460 |
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| Electrocompaniet EC-Qube SE | 9 | 0 | 1,495 |
| Epos ES15 | Ŧ | 0 | 890 |
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| Infinity Overture 1 | 9 | 0 | 900 |
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| Jamo Concert 8 | 业 | 0 | 1,365 |
| JBL SVA 1600 | ¥ | 0 | 850 |
| JBL 4312 MkII-WX | | | |
| JDL 4J 1Z IVIKII-VVA | <u> </u> | 0 | 1,000 |
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| JBL SVA 2100 | 业 | 0 | 1,250 |
| JM Lab Cobalt 815 | ¥ | 0 | 900 |
| JM Lab Electra 905 | 2 | 0 | 1,095 |
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| JM Lab Cobalt 820 | 和 | 0 | 1,175 |
| Jordan Watts JH1+1 | ¥ | 0 | 1,150 |
| JPW Ruby 4 | 业 | 0 | 1,000 |
| KEF Q75 | ¥ | 0 | 999 |
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| Kelly KT3 | 1.5 | 0 | 1,200 |
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| Keswick Torino | ¥ | 0 | 999 |
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| Magnat Vintage 720 | ¥ | 0 | 1,199 |
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| Magneplanar SMG-C SE | # | | 990 |
| Magneplanar MG-0,6 SE | 和 | ň | 1,370 |
| Meridian Argent 1 | <u>a</u> | - | 995 |
| M&K S-125 | - | 0 | 1.150 |
| | _ | 0 | 100000 |
| Mission 705a | Ŧ | 0 | 900 |
| Mission 754f | Ŧ | 0 | 1,298 |
| M-A Studio 6 | 2 | 0 | 900 |
| M-A Silver 9 | Ŧ | 0 | 1,000 |
| M-A 705PMC | 业 | 0 | 1,150 |
| Mus Tec Condor | ± | 0 | 1,000 |
| Mus Tec Hawk | 业 | 0 | 1,250 |
| Mus Tec Eagle | Ŧ | 0 | 1,500 |
| Naim Credo | 业 | 0 | 1,090 |
| Opera Terza | Ŧ | 0 | 995 |
| Opera Callas Gold | 9 | 0 | 1,095 |
| Opera Divina II | 2 | 0 | 1,495 |
| Origin Live Soveriegn | Ŧ | 0 | 1,130 |
| Paradigm Studio/100 | Ŧ | 0 | 950 |
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| Polk RT20p | Ŧ | 0 | 1,500 |
| ProAc Tablette 50 SIG | 2 | 0 | 899 |
| ProAc Response 1 SC | 9 | 0 | 1,199 |
| Prof Monitor Co LB1 | 9 | 0 | 935 |
| Prof Monitor Co AB1 | - | 0 | 1,496 |
| Rega XEL | 业 | 0 | 1,040 |
| RMS Revelation S 1 | ₩ | 0 | 1,299 |
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| Ruark Paladin | ¥ | 0 | 1,099 |
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| S Coast Merlin Monitor | 9 | 0 | 849 |
| S Coast Classic | 9 | 0 | 1,495 |
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| Spendor FL6 | ¥ | 0 | 1,099 |
| Spendor SP2/3 | | 0 | 1,187 |
| Spendor FL8 | ₩ | 0 | 1,355 |
| T+A TAS 1200E | ¥ | 0 | 1,050 |
| T+A TB 120 | ¥ | 0 | 1,060 |
| Tannoy Definition D300 | 业 | 0 | 999 |
| TDL Cheviot CF300 | ¥ | 0 | 850 |
| Technics SB-M1000 | ₩ | 0 | 1,500 |
| Titan Enigma T/3 | 2 | 0 | 822 |
| Titan Sovereign T/4 | ¥ | 0 | 1,292 |
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| £1501 TO £3000 | | | |
| Assumble Faces AF1 Sig | | | 1005 |
| Acoustic Energy AE1 Sig | <u>=</u> | 0 | 1,995 |
| Acoustic Energy AE2 Sig Alon I Mk II | 2 | 0 | 2,995 |
| Alon II Mk II | Ŧ | 0 | 1,795 |
| | Ŧ | 0 | 2,495 |
| Apertura Agora Signature Apertura Tanagra | # | 0 | 2,295 |
| Apertura Tanagra Sig. | +1 | 0 | 2,795 |
| ATC SCM20SL | • | 0 | 1,750 |
| ATC SCM203L ATC SCM20 Tower SL | # | 0 | 2,400 |
| Audio Note AN-E/D | 5 | 0 | 1,520 |
| Audio Note AN-E/SPx | 0 | 0 | 2,250 |
| Audio Physic Spark 2 | - | 0 | 1,749 |
| Audio Physic Tempo | Ŧ | 0 | 1,999 |
| Audio Wk'p Cyclone 34 | +1 | 0 | 2,000 |
| Audiostatic DCI | ¥ | n | 2,495 |
| Audiovector M3 | Ŧ | 0 | 1,899 |
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| B&W Matrix 804 | 业 | 0 | 1,695 |
| B&W Matrix 803s2 | ₩ | 0 | 2,495 |
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| Bandor Bandora/Mora | ₩ | 0 | 2,350 |
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| BKS Audio Hybrid 128 | Ŧ | 0 | 2,549 |
| Bose 901 VI | <u>B</u> | 0 | 1,650 |
| Boston Lynfield 300L | <u> </u> | 0 | 2,000 |
| Bravura Virtuoso Bronze Cary SP-301 | Ŧ | | 2,995 |
| Celestion A3 | Ŧ | 0 | 2,295 |
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| ¥ | | 11,990 |
| 和 | | 13,950 13,990 |
| 和 | | 18,950 23,950 |
| | 0 | 3,095 3,475 |
| 和 | 0 | 3,850 |
| 和 | 0 | 4,550 8,400 |
| 和 | | 3,250 3,999 |
| ¥ | 0 | 4,000 |
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| 和 | | 5,995 5,495 |
| <u> </u> | 0 0 | 8,390 10,995 |
| <u> </u> | | 10,553 |

| B&W ASW 1000 subwoofer | | | |
|---|---|----------|--|
| Wilson Audio Maxx Wilson Benesch Actor Wilson Benesch Act 2 Wilson Benesch The Bishop Wilson Benesch The Bishop Wilson Benesch The Bishop | KEF Model AV1 Kenwood SW500 Kenwood SW501 | (a) (TH) | 499 2,499 250 349 1,299 350 |
| | KLH ASW12-120 | 0 | 380 |

| Wilson Benesch The Bishop | Ŧ | 0 | 20,000 |
|---------------------------|----------|---|--------|
| | 7 | | |
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| | <u>/</u> | | |

SUBWOOFERS

| for use in Home THX installations. | | | |
|------------------------------------|---|-----|------------|
| Acoustic Energy AE108S | 0 | | 300 |
| Allison Mini Ref Sub | | | 210 |
| Alon Poseidon | 0 | | 12,000 |
| ATC SCM 0.1/15 | 0 | | 3,810 |
| Audio Physic Terra | 0 | | 3,499 |
| B&W ASW1000 | 0 | | 500 |
| B&W AS6 | 0 | | 500 |
| B&W ASW2000 | 0 | | 800 |
| B&W ASW3000 | 0 | | 1,000 |
| B&W Matrix 800ASW | 0 | THX | 1,500 |
| Boston CR400 | 0 | | 300 |
| Boston VR500 | 0 | | 450 |
| Boston VR2000 | 0 | THX | 800 |
| Celestion CS135 | | | 139 |
| Celestion CSW MkII | 0 | | 329 |
| Celestion S1i | 0 | | 349 |
| Celestion A6s | 0 | | 800 |
| Cerwin-Vega HT-10D | | | 200 |
| Cerwin-Vega HT-12D | | | 250 |
| Chario Syntar Bass | | | 299 |
| Chario Hiper Bass | | | 499 |
| Credo SDC 001 | 0 | | 3,054 |
| GLL Le Bass | 0 | | 350 |
| Jamo SW303E | 0 | | 200 |
| Jamo SW400E | 0 | | 250 |
| Jamo SW410e | 0 | | 300 |
| Jamo SW505E | 0 | | 300 |
| Jamo Sub One | 0 | | 400 |
| JBL Control Sub 6 | 0 | | 200 |
| JBL Control Sub 10 | 0 | | 300 |
| JM Lab Tantal SW20 | 0 | | 349 |
| JM Lab Cobalt SW27A | 0 | | 595 |
| JM Lab Electra SW33A | 0 | | 895 |
| JM Lab Sub Utopia | 0 | | 2,200 |
| JPW Subwoofer | | | 130 |
| JPW SW40 | 0 | | 199 |
| JPW SW60 | 0 | | 350 |
| JPW SW-120 KFF Model 20B | 0 | | 500 349 |
| KET IVIUUEI ZUB | 0 | | 349 |

| KEF Model 30B | (a) | | 499 |
|------------------------------------|------------|------|----------------|
| KEF Model AV1 | 0 | THE | 2.499 |
| Kenwood SW500 | _ | | 250 |
| Kenwood SW501 | 0 | | 349 |
| Keswick Alto | | | 1,299 |
| KLH ASW10-100 | 0 | | 350 |
| KLH ASW12-120 | 0 | | 380 |
| Linn AV5150 | 0 | | 2,850 |
| L Voice RW24 | | | 11,500 |
| Magnat Vector Sub 30P | | | 149 |
| Magnat Vector Sub 30A | 0 | | 299 |
| Meridian M2500 | 0 | | 1,595 |
| M&K VX-7MklI | 0 | | 450 |
| M&K V-75 MKII | 0 | | 650 |
| M&K V-125 | 0 | | 800 |
| M&K V-125 (THX) | 0 | THX | 800 |
| M&K MX-70 | 0 | | 900 |
| M&K MX-150 (THX) | 0 | THX | 1,500 |
| M&K MX-700 M&K MX-200 | 0 | | 1,595 |
| M&K MX-350THX | 0 | TEX. | 1,800 |
| M&K MX-5000 (THX) | 0 | - | 1,995 2,900 |
| Mission 70as | 0 | THX | 300 |
| Mission 75as | 0 | | 548 |
| M-A ASW110 | 0 | | 500 |
| M-A ASW110 | 0 | | 700 |
| Mus Tec Sub | 0 | | 650 |
| Muse Model 22 | 0 | | 1,890 |
| Muse Model 18 | 0 | | 3,790 |
| Neat Gravitas | _ | | 1,095 |
| Paradigm PDR10 | 0 | | 250 |
| Paradigm Servo 15A | 0 | | 800 |
| Polk PSW50 | 0 | | 350 |
| Polk PSW150 | 0 | | 500 |
| Polk PSW300 | 0 | | 750 |
| REL Q50 | 0 | | 375 |
| REL Q-100E | 0 | | 495 |
| REL Strata II REL Strata III | 0 | | 575 600 |
| REL Storm | 0 | | 695 |
| REL Stadium II | 0 | | 995 |
| REL Stentor II | 0 | | 1,800 |
| REL Studio II | 0 | | 4,000 |
| Revel Sub-15 | 0 | | 2,195 |
| Revolver The Recoil | | | 100 |
| R Allen Gold Sub | 0 | | 149 |
| R Allen Dim'n Active | 0 | | 499 |
| R Allen Magnum Active | 0 | | 699 |
| Rogers AB1 | | | 549 |
| Rogers Sub-bass | 0 | | 679 |
| Roksan Ojan 3S | | | 795 |
| Sequence FW120 | - | | 249 |
| Solid PB100 Sony SA-W305 | 0 | | 350 130 |
| Sunfire Sub Junior | 0 | | 1.099 |
| Sunfire True Sub | 0 | | 1,499 |
| Sunfire Trus Sub Sig. | 0 | | 1,699 |
| TDL Nucleus SBR | • | | 200 |
| TDL CF75 | (a) | | 700 |
| Triangle Sat III | 0 | | 650 |
| Tsunami TS300 | 0 | | 300 |
| Tsunami TS200 | 0 | | 300 |
| Tsunami TS210 | 0 | | 399 |
| W'dale Modus Sub Bass | | | 180 |
| Wilson Audio Puppy 5.1 | | | 8,450 |
| Wilson Audio Whow III | 0 | | 10,999 |
| Wilson Audio XS | - | | 17,000 140 |
| Yamaha YST-SW40 Yamaha YST-SW80 | 0 | | 180 |
| ramana 131-34400 | | | 100 |

LOUDSPEAKERS (CONTINUED) Yamaha YST-SW150 Yamaha YST-SW300 0 350 **TONEARMS** Pivoted. - Parallel tracking

| # - Faranci tracking. | 100,000 | | |
|------------------------|---------|---|--------|
| Air Tangent IC | | # | 4,600 |
| Air Tangent 10B | | # | 8,600 |
| Air Tangent Reference | | # | 14,000 |
| Audio Note AN-ARM 1 | 9 | " | 169 |
| Audio Note AN-0s | 0 | | 795 |
| Audio Note AN-1s | 0 | | 995 |
| Audiomeca SL5 | | # | 2,500 |
| Dynavector 507 | 0 | " | 1,995 |
| Graham 1.5 Basic | 0 | | 1,695 |
| Graham Mk 2.0 | 0 | | 2,650 |
| Helius Orion 4 Copper | 0 | | 549 |
| Helius Cyalene 2 | 0 | | 1,495 |
| Kuzma Stogi S | 0 | | 399 |
| Kuzma Stogi | 0 | | 750 |
| Kuzma Stogi Ref | 0 | | 1,250 |
| Linn Akito | 0 | | 500 |
| Linn Ekos | 0 | | 1,500 |
| Moth Mk I | 0 | | 109 |
| Moth MKIII Stainless | 0 | | 146 |
| Moth Mk III Tungsten | 0 | | 174 |
| Moth Moth 900 | 0 | | 598 |
| Naim ARO | 0 | | 1,070 |
| N'ham Space | 0 | | 450 |
| N'ham Paragon 3 | | # | 550 |
| N'ham Paragon 2 | | # | 800 |
| N'ham Mentor | 0 | | 800 |
| N'ham Foot | 0 | | 1,100 |
| N'ham Paragon 1 | | # | 1,600 |
| Pro-Ject 9 | 9 | | 350 |
| Rega RB250 | 0 | | 109 |
| Rega RB300 | 0 | | 174 |
| Rega RB900 | 9 | | 598 |
| Rockport Series 7000 | | # | 6,000 |
| Roksan Tabriz | 0 | | 350 |
| Roksan Tabriz Zi | 9 | | 450 |
| Roksan Artemiz | 9 | | 895 |
| SME 3009 Ser II Imp | 9 | | 309 |
| SME 3009 S2 Ser II Imp | 0 | | 338 |
| SME Series II 3009-R | 0 | | 514 |
| SME Series II 3010-R | 9 | | 526 |
| SME Series II 3012-R | 9 | | 565 |
| SME 309 | 9 | | 689 |
| SME 310 | 0 | | 705 |
| SME 312 | 0 | | 802 |
| SME Series IV | 9 | | 983 |
| SME Series V | 0 | | 1,461 |
| Triplanar V1A | 9 | | 3,500 |

| Triplanar V1B Wilson Benesch Act 0.5 Wilson Benesch ACT2 Zeta AS Zeta VDH | |
|---|-------|
| Wilson Benesch ACT2 Zeta AS | 3,750 |
| | 795 |
| | 1,350 |
| | 469 |
| االع | 549 |
| arturi | |

| TUNERS | |
|---------------------------------|--------|
| KEY | |
| 'P20' (etc.)- Number of presets | |
| RDS – Radio Data System; | |
| receives text information on st | ation, |
| programme type etc. | |

| | | | 10,550 |
|------------------------------|-----|------------|--------|
| Akai AT1200 | P30 | | 170 |
| AMC T7 | P30 | | 130 |
| Arcam Alpha 7 | P24 | | 230 |
| Arcam Alpha 8 | P24 | | 280 |
| Arcam Delta 280 | P20 | | 300 |
| Ariston TX-510 | P20 | | 60 |
| Aura TU80 | P30 | | 350 |
| AVI S2000MT | P16 | | 599 |
| AVI S2000MT2 | P99 | RDS | 899 |
| Creek T43 | P68 | | 399 |
| Cyrus FM7 | P29 | | 398 |
| Davidson-Roth FM Ref Classic | | | 5,590 |
| Denon TU-260L MkII | P40 | RDS | 130 |
| Denon TU-215RD | P40 | RDS | 150 |
| Denon TU-425RD | P40 | RDS | 200 |
| Denon TU-1500RD | P40 | RDS | 250 |
| Fanfare FT1 | P08 | | 1,395 |
| H/K TU930 | P30 | | 150 |
| H/K TU950 | | RDS | 200 |
| Kenwood KT-2080 | P20 | RDS | 130 |
| Kenwood KT-3080 | P30 | RDS | 180 |
| Linn Kudos | P50 | | 775 |
| Linn Kremlin | P80 | | 2,600 |
| Magnum Dynalab FT11 | | | 499 |
| Magnum Dynalab FT-101A | | | 79 |
| Magnum Dynalab Etude | | | 1,250 |
| Magnum Dynalab MD108 | | | 4,99 |
| Marantz ST-48 | P60 | | 120 |
| Marantz ST-17 | P60 | RDS | 600 |
| McIntosh MR7084 | P50 | | 2,49 |
| McIntosh MX118 | P50 | | 4,999 |
| McIntosh MX130 | P50 | | 6,99 |
| Meridian 504 | P30 | | 69 |
| Michi RHT-10 | P16 | | 89 |
| Micromega Minium FM Mk2 | P39 | | 331 |
| Micromega Tuner | P39 | | 70 |
| Musical Fidelity E50 | P20 | | 30 |
| Myryad T-30 | P39 | | 40 |
| Myryad MT100 NAD 412 | P39 | | 531 |
| NAD 412 NAD 414RDS | P24 | - | 25 |
| NAD 414KDS NAD 710 | P30 | RDS | 27 |
| NAD 710 NAD 712 | P24 | | 33 |
| Naim NAT03 | P24 | | 61 |
| INDIII IIIIDNI | | | 01 |
| | | | |

| Naim NAT02 | | | 1,130 |
|--|-----------|-----|-------|
| Naim NAT01 | | | 1,780 |
| Onkyo T 421ORDS | P30 | RDS | 180 |
| Onkyo T 409 | P30 | | 230 |
| Onkyo T 411RDS | P30 | RDS | 260 |
| Pioneer F-204RDS | P30 | RDS | 140 |
| Pioneer F-504RDS | P40 | RDS | 250 |
| Pioneer F-504RDS Precision | P40 | RDS | 300 |
| Quad 99 | P25 | | 700 |
| Quad 77FM | P25 | RDS | 700 |
| Rega Radio | P24 | | 298 |
| Roksan Caspian | P50 | | 695 |
| Rotel RT-935AX | P20 | | 160 |
| Rotel RT940AX | P20 | | 200 |
| Sony ST-SE200 | P30 | | 100 |
| Sony ST-SE300 | P30 | RDS | 120 |
| Sony ST-SE500 | P30 | RDS | 140 |
| Sony ST-SB920 | P30 | RDS | 180 |
| Sony ST-SA3ES | P30 | RDS | 250 |
| T+A T1200R | P60 | RDS | 790 |
| TAG McLaren T20 | P39 | | 1,099 |
| Teac T-R400 | P40 | | 100 |
| Teac TR-460 | P40 | RDS | 120 |
| Teac T-H500 | P30 | RDS | 170 |
| Technics ST-GT350L | P30 | | 130 |
| Technics ST-GT550L | P39 | RDS | 180 |
| Technics ST-GT650L | P39 | RDS | 230 |
| Thorens TRT-2000 | P59 | RDS | 499 |
| Thule Audio Spirit TU100 | P40 | RDS | 499 |
| Yamaha TX-480L | P40 | | 100 |
| Yamaha TX-10 II | P40 | RDS | 130 |
| Yamaha TX-492RDS | P40 | RDS | 130 |
| Yamaha TX-59 2RDS | P40 | RDS | 180 |
| Yamaha RX-396RDS | P40 | RDS | 250 |
| | SECTION 1 | | |
| CONTRACTOR OF THE PROPERTY OF THE PARTY OF T | | | 2000 |



TURNTABLES

 \bigcirc † – Arm included. - Cartridge included.

| UP 10 £500 | 300 | | |
|---------------------|------------|-----|---|
| Audio Note AN-TT 1 | | | 349 |
| | | 125 | 100 E |
| Dual CS435-1 | ⊙ † | - | 150 |
| Dual CS455 | O 1 | | 190 |
| Dual 505-4 UK | 01 | | 250 |
| Eclipse TT430 | 01 | | 70 |
| Genexxa Lab-710 | 01 | - | 60 |
| Genexxa Lab-810 | ⊙! | | 70 |
| Kenwood KD-492F | 01 | - | 100 |
| Michell Mycro | | | 455 |
| Moth Alamo | 01 | | 199 |
| Moth Kanoot Mkl Arm | 01 | | 279 |
| Moth Kanoot Mk3 Arm | 01 | | 329 |
| NAD 533 | 01 | | 220 |
| N'ham Interspace | | | 500 |
| Pioneer PL-J2500-C | O ! | - | 80 |
| Pioneer PL-990 | 01 | - | 130 |

Factsback

For access to past reviews see page 129.



995 1,995 1,895 3,500

1,995 2,995 5,400

5,495 7,495

8,200 10,300

705 3,900

695

695 3,750

1,100 1,750 875

1,995 1,200 1,500

2,600 5,500 3,370 3,800 680

750

3,900 7,000 50,000

1,295 2,750 3,403

10,675

12,135 6,500

700 550

1,050

1,850 2,980 3,900 5,300

1,995

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| Pro-Ject 0.5/OM10 | 01 | - | 170 |
|-------------------------|------------|---|-----|
| Pro-Ject 1/510 | 01 | | 200 |
| Pro-Ject 2/510 | Of | | 250 |
| Pro-Ject Classic/510 | 01 | | 360 |
| Pro-Ject 6/510 | 01 | | 400 |
| Pro-Ject 6.9 | 01 | | 500 |
| Rega Planar 78 | 01 | | 214 |
| Rega Planar 2 | 01 | | 214 |
| Rega Planar 3 | 01 | | 274 |
| Roksan Radius | | | 470 |
| Sherwood PM8550 | 01 | | 160 |
| Sony PS-LX150H | 01 | - | 90 |
| Sony PS-LX300H | 01 | | 150 |
| Technics SL-J110D | 01 | | 120 |
| Technics SL-BD20 | 01 | | 160 |
| Technics SL-BD22 | O 1 | - | 180 |
| Technics SL-1210MklI | 01 | | 400 |
| Technics SL-1200MkII | 01 | | 400 |
| Thorens TD-180 AT91 | 01 | | 190 |
| Thorens TD-280 IV/UK | 01 | - | 210 |
| Thorens TD-166 VI/UK/RB | O 1 | | 400 |
| Thorens TD-318 III TP50 | 01 | | 500 |
| | | | |

| | 15 | 18 | |
|----|----|----|---|
| 33 | 1 | | 1 |
| (| | | |
| | 7 | | |

| Dasis Debut Gold Vacuul |
|--------------------------|
| Chantry QT Level 2 |
| DNM-Reson Rota 1 |
| DNM-Reson Rota 2 |
| Impulse Moskito |
| Kuzma Stabi S |
| Kuzma Stabi |
| Kuzma Stabi Reference |
| Linn LP12 Basik |
| Linn LP12 Lingo |
| Michell Gyrodek |
| Michell Orbe |
| N'ham Spacedeck |
| N'ham Graphic |
| N'ham HyperSpacedeck |
| N'ham Mentor |
| N'ham Anna Log |
| Oracle Delphi |
| Oracle Delphi 15th Anniv |
| Pink Triangle Tarantella |
| Pro-Ject Perspective |
| Rega Planar 9 |
| Reson RS1M |
| Reson Rota 1 |
| |

OVER £500 Audio Note AN-TT 2 Audio Note AN-TT 3

Audiomeca Romance

Basis Debut Gold Std III Basis Debut Gold Vacuum

Audiomeca 11

Basis 2000 Basis 2001 Basis Ovation II

Basis 2500 Basis 2800

| N'ham Mentor | |
|-----------------------------|------------|
| N'ham Anna Log | |
| Oracle Delphi | |
| Oracle Delphi 15th Anniv | |
| Pink Triangle Tarantella | |
| Pro-Ject Perspective | 01 |
| Rega Planar 9 | 01 |
| Reson RS1M | 01 |
| Reson Rota 1 | 01 |
| Rockport Capella II | |
| Rockport Sirius III | 01 |
| Roksan Xerxes 10 | |
| Roksan TMS | |
| SME Model 20/2 | |
| SME Model 20/2A | 01 |
| SME Model 30/2 | |
| SME Model 30/2A | 01 |
| Stratosphere ST1 | |
| Technics SL-1200LTD | 01 |
| Thorens TD-146 VI TP50 | 01 |
| Thorens TD-2001 TP90 | 01 |
| Thorens TD-520 SME | 252 |
| Well Tempered Record Player | O 1 |
| Well Tempered Classic | 01 |
| Well Tempered Super | 01 |
| Well Tempered Reference | 01 |
| Wilson Benesch Circle | |
| Wilson Benesch WB Turntable | |
| Wilson Benesch Full Circle | ⊙ † |



Turn over for a full round-up of all reviewed products!



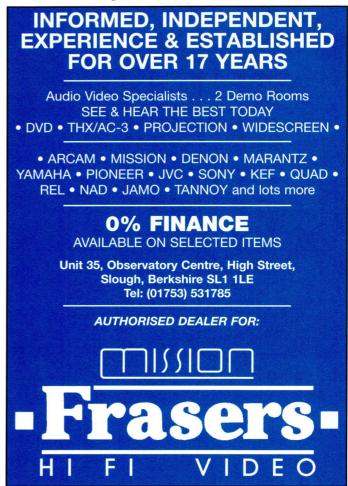
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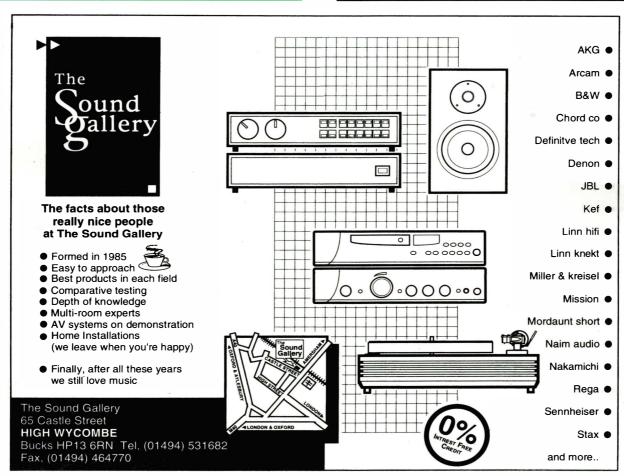


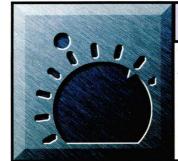
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Amplifiers

The amplifier is at the heart of any hi-fi system, accepting the outputs from various music sources, increasing the amplitude of their signal and then driving the loudspeakers to produce sound. One-box 'integrated' amps rule the roost at low-to-middle price points, but if you pay more, the low-level and highlevel signal processes are separated into preamp and power amp boxes, and even separate 'outboard' power supplies come into play. Another luxury is a separate amp for each stereo channel such devices are known as monoblocks. Finally, output power and sound quality are not necessarily related. Some of the finest amplifiers outputs only 12 Watts, but will yield loudness aplenty when partnered with high-efficiency loudspeakers.

SPECIFICATIONS T O

LINE INPUTS: Number of input | phono pidsup cartridges. sockets for line-level (non-vinyl) REMOTE CONTROL: An infrasources such as CD players, tuners and cassette decks. MM PHONO INPUT: An input specially designed for moving magnet (high output) phono pickup cartridges. MC PHONO INPUT: An input

red handset to adjust volume etc. permits direct access to our faxed HEADPHONE SOCKET: An integral output for headphones. POWER OUTPUT (Watts): Our measurement of an amp's RMS power output into 8 Ohms. Hi-Fi Choice in which an original RECEIVER: An amplifier with built-in radio receiver (tuner).

SPECIFICATIONS

FACTSBACK REFERENCE: The Factsback Reference number review reprint service. For full info, see the Factsback advert on the penultimate page of the mag. ISSUE NUMBER: The issue of review appeared.

H High End Revie

for moving coil (low output) **BEST BUY**

RECOMMENDED



| L S | Amp | Amplifiers | | | | | | PHONO INPUTS NO INPUTS PHONO INPUTS PHONO INPUTS PHONO INPUTS POWER OUTPUT IN POWER O | | | | | | | |
|-------------|---------------------------|------------|--|-----------------|---|--------|-------------|--|-------------|-----|------|-----|--|--|--|
| STATUS | PRODUCT | (€) | COMMENTS | | ٧ | 7 | V | 7 | V | V | V V | | | | |
| | Alchemist Maxim | 319 | Vivid and colourful-sounding amp, but just too bold and brassy | | 5 | • | | | | 30 | 1737 | 15 | | | |
| 1 | Alchemist Kraken APD6A | 579 | Compact, with Darth Vader styling, yet sound quality is meek and mild, despite strong midband d | /namics | 5 | • | - | | | 55 | 2150 | 17 | | | |
| - | Alchemist Nemesis | | Good if ultimately undistinguished amplifier whose strengths include warmth, authority and distinguished amplifier whose strengths are strengths are strengths and distinguished amplifier whose strengths are strengths and distinguished amplifier whose strengths are strengths are strengths are strengths are strengths are strengths and distinguished amplifier whose strengths are strengt | | - | | 74. | | | 80 | 2006 | 16 | | | |
| - | AMC 3025a | 140 | Surprisingly potent and easy on the ear, if not especially analytical — classic bargain-basement mat | | 4 | • | • | • | • | 30 | 2045 | 17 | | | |
| - | AMC 3050a | 170 | Tremendous value for money, and a full, big, if rather uninformative sound | | 4 | • | • | • | • | 45 | 1970 | 10 | | | |
| - | AMC 3100a | | A head banger's delight, but sound quality can be muggy and brash on occasions | | 6 | | | • | • | 100 | | 1 | | | |
| - | AMC CVT3030a | 400 | Beer-budget valve amp, with valve-like virtues (euphony with dynamics) and vices (system depend | ency, noise) | 6 | • | | | • | 30 | 2001 | 1 | | | |
| i | Arcam Alpha One | 230 | Rather like an Alpha 7 but without the remote control and an what appears to be better sound | | 6 | | 1 | | • | 35 | | 1 | | | |
| OF SECTION | Arcam Alpha 9 | 500 | Not quite a match for the Alpha 9/9P combo, the solo integrated is nevertheless colourful and exp | | 7 | | | • | • | 70 | 2007 | 1 | | | |
| | Arcam Alpha 10 | 800 | Although not the best sounding in its class, the Alpha 10's modular nature demands it be taken se | riously | 5 | | | • | | 100 | | | | | |
| - | Aria S2 | 1000 | Glamorously packaged valve amp produces a real eyes closed, feet up kind of sound | | 4 | | | | | 12 | | 1 | | | |
| | Audio Analogue Puccini | 450 | Superbly finished, the entry-level Audio Analogue performs way out of its class | | 5 | • | • | | | 40 | 2147 | | | | |
| Ì | Audio Analogue Puccini SE | 595 | Upgraded, more powerful Puccini is disappointingly sluggish and curiously lacking in musical vitali | ty | 5 | • | • | | | 40 | | 1 | | | |
| | Audiogram MB1 | 493 | The only flaws are the amateurish build, a number of technical problems and inconsistent sound | | 4 | • | | • | • | 40 | 2235 | _ | | | |
| Ī | Audio Note Oto SE | 1,200 | Transparent, dynamic, clear and subtle, but offers limited power output | | 4 | | | | | 24 | | | | | |
| | AVI S2000MI | 999 | Fine, detailed amplifier with excellent timing and strong control of a wide range of loudspeaker lo | ads | 5 | | | • | | 100 | 2155 | _ | | | |
| A. costo | Bryston B60R | 1,249 | Great build, but the lazy bass and opaque treble bracket an articulate midband. Comes with 20 year | guarantee | 5 | 12/4 | | • | • | 60 | 2156 | | | | |
| i | Cambridge Audio A500RC | 200 | Load tolerance may be a problem for some, but this is an otherwise impressive, if tonally mute | | 6 | | 500 | • | | 50 | | 1 | | | |
| Ī | Copland CSA8 | 945 | Sophisticated yet transparent, this is one of those amplifiers that sounds good even when the glos | s has worn off | 5 | | | | | 60 | 2010 | - | | | |
| i | Copland CSA 28 | 1,249 | Elegant Scandinavian cool, abundantly detailed if somewhat system dependent | | 5 | • | | • | | 60 | | 1 | | | |
| - | CR Developments CR324 | 569 | Solid and capable on paper, this is a bit of a blunt instrument when let loose on the music | | 5 | | | | | 150 | | U | | | |
| | Cymbol CA1 | 499 | Lacklustre amplifier tends to underperform with complex material. Best with straightforward compact | loudspeakers | 6 | | | | | 40 | 2236 | | | | |
| | Creek 4330 | 279 | Compact, even pretty, but sounds dark and uninviting, with coarse treble and 'woompy' bass | | 5 | | | | | 40 | 2052 | - | | | |
| - | Cyrus Illi | 598 | Beautifully presented, but mid-dominated balance was not liked. Upgradeable using PSX PSU unit | | | • | | • | | 50 | 1854 | 1 | | | |
| | Cyrus SL | 398 | Articulate amplifier with build quality to die for, superb, outgoing midband and lean, though well- | extended bass | 6 | | | | | 50 | | | | | |
| i | Denon PMA-250SE | 140 | This amp can sound rough when extended, but within its limits it is open, detailed and likeable | | 5 | | | | • | 30 | 2046 | | | | |
| | Denon PMA-350SE | 180 | Reinvented in the minimalist tradition, this SE model is a control freak, but can sound wonderful | | 5 | | | | • | 50 | 1856 | | | | |
| 1 | Denon PMA-425R | 230 | Well-equipped and generally enjoyable but slightly ragged performer | | 3 | • | | • | • | 45 | 1973 | 1 | | | |
| | Denon PMA-725R: | 350 | Warm, bold, up-front presentation, but musically unexciting | | 5 | • | • | • | • | 97 | 1802 | 1 | | | |
| ĺ | Denon PMA-1500R | 500 | Recommended for its outrageous power, especially with problem speakers. | | 5 | • | • | • | • | 70 | | | | | |
| 1 | Densen Beat B-100 Mkll | 650 | High 'air guitar' factor, and can punch above its weight, but check it will complement your system | | 5 | | | | | 60 | 1855 | | | | |
| Ī | Densen DM-10 | 1,375 | Big, bold and expressive amplifier, but sometimes rough around the edges, and not as powerfu | I as it appears | 6 | | | | | 75 | | 1 | | | |
| Ì | DPA Renaissance | 595 | DPA's first integrated amp is typically innovative, but a little too 'crisp'n'dry' for our tastes | | 5 | • | | | • | 40 | 1582 | 1 | | | |
| Ì | EMF Audio Sequel | 450 | Relaxed and restrained design from Mike Creek | | 5 | • | | | • | 50 | | 1 | | | |
| i | Exposure XX Super | 700 | Rather transistorised, unexciting sound. Good coherence and rhythm. Best played loud | | 6 | | | | | 55 | 1743 | 1 | | | |
| | Exposure RCXXV | 1,000 | Unaccountably rather underwhelming top of the line integrated sounds a little soft and detache | d | 6 | | | • | | 60 | | 1 | | | |
| | Electrocompaniet EC1-2 | 995 | A 50 watt amplifier which sounds more powerful, and makes 'real sounding' music. | | 4 | | | | | 50 | 2158 | | | | |
| | Harman/Kardon HK610 | 180 | Lively and friendly sound, but could prove too exciting for the faint hearted | 1.00 | 6 | • | | | • | 30 | 1465 | 18 | | | |
| i | Harman/Kardon HK620 | 250 | Capable and musical amplifier which is one of the nicest at this price. Optional add-in MM/MC bo | ard available | 6 | | | • | • | 40 | 1858 | | | | |
| ĺ | Holfi Audis Signature | 750 | A 'no-feedback' circuit giving outstanding resolution, but significant load dependency | | 4 | • | | | | 65 | | | | | |
| | JoLida 202 | 695 | Well-built and technically accomplished, affordable valve integrated with subtle refined, if not quite grip | oing sound | 4 | HILL | | | 100 | 40 | 2011 | 1 | | | |
| İ | JVCAX-V4 | 200 | Respectable performance for a Pro-Logic AV amplifier. Lacks resolution and sparkle, though | | 5 | • | Ser. | • | • | 63 | 1805 | 1 | | | |
| | JVC AX-R5 | 200 | Versatile, and lots of even-handed, articulate detail; but let down by superficiality | | 5 | • | Tall of the | • | • | 45 | 1466 | 1 | | | |
| i | Kenwood KA-5090R | 300 | Large, well equipped and high tech integrated, but TRAITR output still gives a harsh, unsubtle per | ormance | 5 | • | • | • | • | 65 | 2053 | | | | |
| į | Kenwood KAF-3010R | 180 | Plenty of twiddly bits yet weak on inputs, and basically good, but somewhat uneven sound qua | | 4 | • | | • | • | 70 | | | | | |
| | Lavardin Model IT | 3,200 | | | 4 | Ura 19 | | | | 40 | | | | | |
| Ì | LFD Integrated Zero | 549 | Lively and brisk, but at the same time cold and unsympathetic | | 6 | | | | | 50 | 1584 | | | | |
| i | Linn Majik (phono) | 800 | The cornerstone of Linn's modular hi-fi system is innovative, but sounds vague and confused | | 5 | • | • | | • | 33 | 1013 | 8 | | | |
| i | Magnum IA120 | 265 | Mirror finish amplifier with bold, colourful delivery, but needs careful system matching to avoid lo | ss of clarity | 6 | | | | • | 65 | 2054 | 100 | | | |
| 1 | Magnum IA170 | 330 | Gives a realistic sense of instruments playing within a very believable acoustic; preserves colour at | nd dynamics | 6 | | | | • | 96 | 1260 | | | | |
| Ī | Magnum IA200 | 599 | Sweet, valve-flavoured solid state amplifier which flatters where it doesn't cast light | | 7 | | B. (4) | | | 160 | 1860 | | | | |
| | Magnum Class A | 690 | Lashings of rich and compelling music, but the Class A circuits trade lushness for accuracy | | 4 | • | • | | | 60 | | B | | | |
| | Magnum Class A SE | 795 | A MOSFET amplifier drawing inspiration from the world of valves, this is an erratically refined, detail | iled amplifier | 5 | • | | | | 80 | 2159 | B | | | |
| Ì | Marantz PM-48 | 150 | Fine entry level amplifier has excellent midband resolution and top, with a slightly coarse textur | | 5 | • | R AV | • | • | 50 | | 1 | | | |
| | Marantz PM-57 | 200 | Well equipped but ultimately anodyne amplifier which lacks for nothing but star quality | | 5 | • | FIFT | • | • | 50 | 2049 | _ | | | |
| - | Marantz PM-66SE | 230 | A bit lush, and power output is limited, but it gives airy, large-scale music. An excellent budget bu | / | 5 | • | | • | • | 50 | 1969 | | | | |
| ĺ | Marantz PM66 KI-Signature | 400 | It knows how to rock and roll with holographic detail and stereo, but prefers small/medium scale acc | | 5 | • | | • | • | 50 | 2003 | _ | | | |
| | Marantz PM-17 | 900 | Probably worth it for the WBT terminals and other build features alone, but this model doesn't sir | | 6 | • | • | • | 98 | 60 | | | | | |
| The same of | Marantz CD-17KI Signature | 1,300 | Full feature audiophile amp where the end results doesn't quite justify the fantastic ingredients | | 6 | • | • | • | | 60 | | 1 | | | |
| | Micromega Tempo 2 | 900 | Idiosyncratic but flexible amplifier with an attractively forward and expressive sound quality | | 7 | | | • | • | 70 | | | | | |
| ĺ | Monrio ASTY | 400 | Engaging, but ill-disciplined, even OTT amplifier with unpredictable system compatibility | | 5 | | | | | 55 | 2237 | _ | | | |
| Ì | Musical Fidelity E1 | 199 | Richly flavoured tone and realistically-scaled imagery distinguish this entry-level Richer Sounds spe | ecial | 6 | | 1 | | | 30 | 2050 | _ | | | |
| | | 299 | Well built minimalist amp with a 5 year guarantee, but can sound congested when extended | | 6 | _ | P. C. C. C. | 0 | William III | | 2232 | | | | |

| | CONTINUED | | 00 | SPECIFICATIONS | | | | | | | |
|--------|---------------------------------------|------------|--|----------------|-------|--------------------------|---------------------------|--------|--------------------------|--------|------------|
| STATUS | Amp | li | fiers | MM PHONO IN | WONO! | MEAD NOTE CO NPUTS | POWER PHONESO WIROL | OUTPU. | FACTSBA CEIVER (W) | CK NO. | P |
| 5 | PRODUCT | (£) | COMMENTS | | V | V | V | | V | VV | N/A |
| 4 | Musical Fidelity X-A1 | 479 | Idiosyncratic visuals just another plus for an amp that is powerful, well built, and serves the music su | inerbly | 6 | | | | 50 | | 181 |
| 1 | Musical Fidelity A2 | 500 | Lucid, transparent midband and a full upper bass are provided by this highly proficient A1 replacement | | 5 | | | 17 5 5 | 25 | 1862 | 162 |
| | Musical Fidelity A220 | 700 | Powerful, authoritative and well turned-out amplifier that is easy to match with comparably priced speaker | | 5 | | | | 50 | 2012 | 168 |
| | Musical Fidelity X-A100R | 999 | Sings like a thoroughbred, but better with Mozart than Motorhead | | 6 | | • | | 75 | 2012 | 189 |
| | Myryad MI120 | 600 | Well styled, well built: a good, even tempered amplifier, though it can sound rather brittle | | 6 | | | | 60 | 2153 | 175 |
| | NAD 310 | 100 | Fleet and sure of foot, it seems likely to set all appendages tapping with its blend of enthusiasm and | | 5 | | | | 20 | 1468 | 149 |
| | NAD C320 | 200 | Excellent budget amp from the makers of the seminal 3020 offers better clarity and neutrality and | | | | | | 40 | 1400 | 186 |
| | NAD 314 | 260 | Lively if coloured presentation that is musically engaging and easy on the ear | | 6 | | 200 | | 53 | 1807 | 157 |
| • | NAD \$300 | 1,900 | Substantial integrated with loads of power and no shortage of finesse, slightly bass strong | | 5 | | | | 100 | 1007 | 189 |
| | Naim Nait 3 | 575 | Distinctive and highly musical sounding integrated amp. Perhaps too distinctive for some tastes | | 5 | - | | | 30 | 1748 | 154 |
| | Naim Nait 3R | 780 | Remote control variant of the basic Nait has a similarly dynamic credible sound but ultimately lack | | 5 | | • | | 30 | 1740 | 189 |
| | Orelle SA-100 | 499 | A musically rewarding amplifier that grows on you. Trace of coarseness in treble | | 5 | | - | | 50 | 1749 | 154 |
| | Orelle SA-100RX | _ | | | 7 | | Ont | 13.9 | | 1749 | |
| | Pioneer A-300R | 649 | In its latest guise, this is a fluid, articulate and transparent design — and excellent value | | 5 | | Opt | • | 75 | 1460 | 181 |
| | Pioneer A-407R | 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 | 149 |
| | Pioneer A-400X | 230 | Clean, consistent, finely detailed sound, good finish and (mainly) good build | | | | • | | 45 | 1545 | 186 |
| 1 | | 300 | On second audition, this amp was tonally unchanged but less compelling than on its first outing | | 6 | | | - | 50 | 1545 | 138 |
| 1 | Pioneer A-300R Precision | 400 | Sophisticated variant of the A-300R. Not an obvious winner, but will slowly plys you with its subtle ch | | 5 | | - | • | 35 | 1863 | 162 |
| | Pioneer A-07 | 999 | Curious blend of high-end attributes and inconsistent, though undeniably detailed sound | | 5 | • | • | | 80 | 2160 | 175 |
| | Præcisa Acustica Sonoro | 1,800 | It is not often that transistor amplifiers are made to sound so palpably valve-like | | 5 | | | | 100 | 10 | 189 |
| 1 | Primare A-20 Mk II | 799 | Everything except packaging has changed in mkll version: but ballsier model has lost none of its refin | | 5 | | • | | 70 | | 181 |
| 1 | Primare A30.1 | 1,499 | Superb build and aesthetics, and undemonstrably musical down to its smallest screw | | 6 | | • | | 100 | | 189 |
| | Pro-ject Model 7 | 300 | A minimalist amplifier brimming with good intent, but too quirky for its own good. Either MM or MC | | _ | • | | 15.12 | 40 | 1264 | 142 |
| 1 | Quad 77 Integrated | 700 | Compact and sophisticated amp. Has limited inputs when used with 'foreign' components. (Optional system | | 3 | | | | 84 | 2013 | 168 |
| | Rega Elex | 398 | Minimalist amplifier, derived from Elicit, is a little uninspiring, though at least it is well behaved | | 4 | • | | | 50 | 1865 | 162 |
| | Restek Fantasy II | 1499 | Muscular, but ultimately rather strident amplifier which needs careful system matching | | 6 | | • | | 100 | | 189 |
| | Roksan Caspian | 695 | Well-built, open and articulate amplifier, which is also consistent from system to system, and well built | | 6 | | • | | 70 | 2014 | 168 |
| | Rose Scion | 615 | Unique two-box integrated gives real subtlety and low level resolution, but the sound lacks scale and | - | 5 | • | • | | 65 | 2009 | 168 |
| | Rotel RA-931 | 150 | Rather dry and unforgiving sound from this internally well specified and attractively priced amplifier | | 4 | • | | • | 35 | 2048 | 171 |
| | Rotel RA-971 | 200 | Budget buy par excellence, especially for large rooms and insensitive speakers | | 6 | | | • | 70 | | 186 |
| 1 | Sony TA-F448BE | 250 | Minimalist interface is matched to carefully considered circuit with satisfactory effect — but keep the volume | me in check | 5 | • | | | 55 | 2055 | 171 |
| 1 | Sony TA-F3000ES | 500 | Champagne 'shoebox amp' may lack power reserves, but is quick and articulate. In every sense a known | ockout | 5 | | • | | 35 | 2239 | 178 |
| | T+A PA-1220R | 1445 | Unique presentation and feature set, but sometimes rather relentless sound quality | | 7 | | • | • | 100 | | 189 |
| | TAG McLaren 60i | 800 | Clean, slightly antiseptic sound from this beautifully turned out entry level Audiolab 8000LX replace | ement | 6 | | | • | 60 | | 189 |
| j | TAG McLaren 60iRv | 999 | Looks, feels and sounds better than the Audiolab it supersedes. Smooth, open, refined but lacks bod | dy and drive | 6 | | • | • | 60 | | 184 |
| | Talk Electronics Storm 1 | 500 | Good soundstaging and strong detail are provided by this unassuming and not especially powerful n | model | 6 | | | | 50 | 1868 | 162 |
| | Talk Electronics Storm 2 | 650 | Crisp, clean, well defined sound, arguably lacking warmth, but a good midrange purchase overall | | 6 | | • | | 50 | 2154 | 175 |
| 1 | Teac A-BX7R | 700 | Characterful balance mars a meticulously designed amplifier. Includes a balanced input, optional MN | //MC stage | 5 | | • | | 50 | 1869 | 162 |
| Ì | Technics SU-A660 Mk 3 | 200 | Plenty of wellie for the price, but the sound can be a tad coarse and lacking in fine detail | | 5 | • | | • | 37 | | 186 |
| Ì | Technics SU-A700 Mk 3 | 250 | Fully equipped, high-tech amplifier ultimately fails the authenticity test, and can sound messy and ina | articulate | 5 | • | | • | 45 | 1870 | 162 |
| | Technics SU-A800D Mk 2 | 300 | Two-box amplifier looks great, has plenty of gadgets, and makes good, if slightly over-exuberant mus | sic | 5 | • | • | • | 55 | 2234 | 178 |
| | Technics SU-A900D Mk 2 | 400 | Looks like a pre/power amplifier, but in effect it's an integrated, with a rather soft-centred sound to m | | 5 | • | • | • | 70 | 2149 | 175 |
| ı | Token Audio K50 | 350 | Stainless steel finish, others available. Sound is warm and attractive, though a little undynamic | | 5 | | | | 50 | | 186 |
| | Woodside ISA230 Disc | 1,249 | Smooth and inoffensive valve amplifier, though it lacks the sparkle and euphony required for ultimat | te success | 3 | • | | | 30 | | 116 |
| | Yamaha AX-492 | 220 | Powerful, well equipped amplifier at an attractive price, offers powerful and engaging music-making | | 5 | • | • | • | 85 | 2231 | 178 |
| | Yamaha AX-592 | | Fine, middle ranking amplifier, with a detailed midband but performance declines at frequency extremes | | 5 | • | | • | 100 | 2056 | Auto-Santa |
| ı | PREAMPLIFIERS | 200 | The, made ranking amplifier, was a detailed middle but performance decimes at requestly externes | | , | | | - | 100 | 2050 | |
| ı | | 3,000 | Three-box affair with a clean, spacious sound and plenty of slam. A touch steely, but undeniably p | ntent | 5 | 1111 | • | • | 50 | | 187 |
| | Alchemist Kraken APD7A Mkll | | Unusual looks and unusual sound too, rather rough and lacking detail | | 6 | | | | 30 | | 187 |
| | Arcam Alpha 9C | 400 | Well specified and flexible preamp with sound only just lacking in greatness | | 6 | | | • | - | | 187 |
| | Copland CTA-301Mkll | | Sweet sounding, but never gets bogged down in audio treacle | | 4 | | 5250 | | | 1630 | 151 |
| | Creek P43R | 1,399 | Excellent sound, remote control operation and upgrade options from this fine value preamp | | 6 | | | • | | 1030 | 187 |
| 1 | | 350 | Good, clear sound, including a decent phono stage, but flexibility is limited | | 3 | | | | 1 | | 187 |
| | Crimcon CCC10 | | A DEBT A DEST STORED TO DESCRIPT A CHEER OF THE DESCRIPT STATE OF THE DESCRIPT OF THE DESCRIPTION OF THE DES | | J | • | | | | | 107 |
| | Crimson CS610 | 450 | | h | 5 | | • | | | | 100 |
| | Crimson CS610 Cyrus aCA7 Crimson 610C | 798 875 | A decent enough unit at the price but not as good as the Cyrus aPA7 power amp it was tested with Not entirely satisfactory preamp which has dynamic strengths, but underachieves when the volume is | | 5 | | • | • | | | 190 181 |

OPERA PRIMA

"Beautifully made speakers with a sound that will satisfy for years" - What Hi Fi?

Opera Prima is no ordinary loudspeaker. We use one inch thick solid hardwood for the cabinet, to give high mass, great rigidity and complete freedom from resonance. As well as being acoustically inert, real wood is a beautiful, natural material, and the Prima is a tribute to our cabinet makers' art, refined and supremely elegant. **So elegant** in fact that What Hi Fi? wrote: "such is the standard of cabinet work that we're amazed Opera has managed it the right side of a grand". **Beneath** the elegant exterior, advanced acoustic research and top quality components combine to give a sound rich in detail, space and warmth. **If you are looking** for quality and refinement from affordable loudspeakers, Opera Prima will enthral you. And at just £495 for the pair, so might the price.



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CONTINUED

108 HI-FI CHOICE June 1999

SPECIFICATIONS nolifiers MM PHONO INPUTS MC PHONO INPUTS REMOTE CONTROL MEADPHONER OUTPUT (N)
OTE CONTROL
VPUTS

NEUTS

NEU FACTSBACK NO. ISSUE NUMBER LINE INPUTS COMMENTS PREAMPLIFIERS (CONTINUED) Exposure XVII 850 Superbly rhythmical; maybe a bit overpowering in the midband. Tested in Sessions with XVIII Super 5 142 4 French tubes, beautiful build, nostalgic styling and delightful midrange. (Tested with JA 30 power amp) 60 Strong ergonomics, generally decent sound, but a little lacking in detail LFD Mistral Linestage 6 1930 165 1303 145 Meridian 501 695 Tight, positive sound, but dispassionate: intense at high levels. (Tested with 555 power amp) 5 Meridian 562V 995 Transparent and capable preamp, also features six digital inputs 9 140 Extremely sophisticated analogue controller with tremendous flexibility and a fast and tidy presentation Meridian 502 162 1,295 7 Michell Orca 1,650 Line-level design with a gorgeous remote and focused, spacious sound. (tested with Alecto power amps) 187 Modular system gives cracking results. Passive preamp and power amp warrant Best B 1931 165 Moth 30 Active Line Stage 349 Excellent-sounding ultra-simple miniature preamp 4 Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp 5 166 Muse Model Three 1,990 4 Musical Fidelity X-PI Cleverly configured preamp with many upgrade options, and open, lively and engaging sound 2152 175 Musical Fidelity Nu-Vista 182 1295 Fully remote, nuvistor tube equipped, with fine coherence and musicality Beer-budget preamp, sounds focused, detailed and consistent 1932 4 **NAD 114** 270 6 16 Naim NAC92R Upgradeable preamp uses proprietary socketry. (Tested with NAP90 power amp) 1936 165 5 Passive preamp that's more likely than most to cause treble loss 187 **NVA P50** 350 1941 850 Sophisticated design with 2-way remote control console; open colourful sound and very flexible Rega Hal 998 Passive line stages dedicated to Exon power amps 1942 165 4 Rose RV-23 You can pay more to get a more transparent sound, but it's hard to criticise at the price 77 450 Rotel RC-971 Low price is offset by rather coarse sound quality with certain types of music. (Tested with RB-971 power amp) 5 178 4 145 Big. natural and tidy-sounding with very natural reproduction of acoustic and electric instruments 1305 Sumo Athena IIB 767 TAG McLaren PA20R 1.500 Refinement of Audiolab original with clean, detailed sound but limited thrill power. (t/w 125M monoblocks.) 6 184 Talk Hurricane 2L 649 Design of integrity which gets to the heart, if not the soul, of the music 6 1937 165 Technics SU-C3000 2.997 Price includes SE-A3000. Supremely clean and even sounding combo, though it could be more musically involving 5 188 187 Thule Spirit PR100 400 High-tech preamp slightly marred by tendency to veil the sound Woodside SC26 Phono 2.233 Synergistic with STA35, with a cool, controlled sound, good focus and transparency. (Tested with STA35) 5 100 POWER AMPLIFIERS 55 187 Alch. Kraken APD8A Mk II Unusual looks and unusual sound too, rather rough and lacking detail 549 Clear, colourful and well-disciplined, the Arcam is a strong all-rounder that can compete with conviction Arcam Alpha 10F Well made and flexible: upgradeable to 3 channels. Good sound lacking the last degree of detail 100 187 4 Switchable triode, ultralinear output stage. In triode mode, these are 15 of the sweetest Watts around 15 109 Art Audio Quintet Single ended valve power amp with passion, grace and fire, and plenty of grunt to boot 196 E 67 1630 151 Copland CTA-505 Grown-up amplifier with a refined, yet never over-civilised air Well designed and built amplifier with plenty of power, detail and refinement 4 Crimson CS630 Space-saving slimline monoblocks with both grunt and finesse 100 187 800 Crimson 620C 181 Not entirely satisfactory power amp which has dynamic strengths, but underachieves when the volume is raised 50 50 183 Cyrus Power 498 Detail and midband clarity and stand-out qualities. Smooth and refined with most types of music but bass-soft Cyrus aPA7 1.896 Low feedback design thats a departure from the transistorised norm, (tested with the Cyrus aCA7 preamp) 150 190 800 Expensive but highly musical. Colourful and and warm sound with strong timing and listener involvement 100 183 Densen B-300 EAR 509 Mk I Combining sonic strengths of transistors and valves, this amp warrants attention. (Tested with 802 Preamp) 100 63 Tested with Vista. Wind up the volume and blow a breath of fresh music into your system LFD Mistral Power 449 Infectious upper band vitality, but LF dynamics lacking — likewise 'grip' and transparency 60 1930 165 Meridian 555 750 By providing an open window on the music, this amp is wide open to RF and low level IM distortions 60 1303 145 4 Open, well-focused imagery with natural, refined textures Michell Alecto stered 1.150 50 165 Michell Alecto Monoblocks 1.950 Hefty beasts offering real power and striking imaging. Not the last word in timing (tested with Orca preamp) 100 187 Moth 60 Watt Stereo 599 Miniature power amp lacks control and finesse — not comfortable with difficult speaker loads 60 1931 165 Tested with Active Preamp. Demonstrated solid balance and proved adept at delivering vital musical qual ties 100 4 Musical Fidel ty X-A50 500 Cleverly configured and attractively packaged, open, lively and engaging sound. Reviewed with X-PRE 50 Myryad MA120 450 Based on MI120 integrated – see latter for comments, but sounds significantly better when bi-amped with MI120 60 1935 165 4 NAD 214 370 A little lightweight, but detailed, consistent sound quality, and excellent value for money 80 1932 165 Naim NAP90 Power amp from a Nait integrated with some improvements 30 1936 165 NVA A60 Rather coarse and uninviting sound 60 187 Technics SE-A3000 2.997 Price includes SU-C3000. Supremely clean and even sounding combo, though it could be more musically involving 100 188 Thule Spirit PA100 600 More successful than matching preamp: sound is gutsy and lively, and generally clean 100 187 Ouad 77 Pow Open, bold and colourful, with mild compression 4 Rega Exon Monoblock, priced each, dedicated for Hal preamp. Bold, outgoing, in-command kind of sound 1,196 125 165 1942 Illy and in conventional hi-fi terms. A power amp for people with long-term satisfa Rotel RB-971 200 Somewhat better than the accompanying preamp — clean, mean and bridgeable, (Tested with RC-971) 70 178 Rotel RB-980BX 450 Tames enthusiastically recorded material with a laid-back and occasionally smeared sound 120 155 Single MOSFET pair per side gives tremendous resolution and timing (balanced only) Sumo Polaris III Tested with Athena IIB. Big and tidy-sounding with very natural reproduction of acoustic and electric instruments 164 145 1305 Refined Audiolab replacement monoblocks with clean sound but limited thrill power. (t/w PA20R preamp) TAG McLaren 125M 2400 145 184 Talk Tornado 2 600 Good, but slightly retiring sound which lacks the authority to stand out in a crowd 65 1937 165 Thorens TTA2000 599 Low power shoe-box format, but gutsy and surprisingly subtle and articulate 30 1938 165 PHONO STAGES 4 A neat little unit with an essentially neutral and listenable character 0 189 Cyrus aEQ7/PSX-R 826 Very hi-tech product which tends too much towards smoothness except at climaxes, which can be rough 0 189 Densen DP-Drive/DP-02 Quite unusual design in many ways: sound is mostly good but never quite shakes off a 'synthetic' quality 0 189 Electrocompaniet ECP-1 An excellent phono amp that combines well-rounded balance with detail and low noise 0 189 Michell Iso/Lithos With the Lithos power supply upgrade, the Iso is a very capable phono stage with just a hint of bass fullness 189 Moth 30 S Fine sound all round, in any kind of music, from this bargain phono stage 4 Musical F delity X-LP 130 A little bass lightness does not seriously mar the performance of this fine value unit 0 . 189 NAD PP-1 A basic phono stage that does its job rather coarsely; a bit bass-shy too 189 4 QED Discsaver DS-1 35 It's cheap, it's cheerful, it's OK - perfectly adequate for use with a phono-less integrated, though not very refined 0 180 Roksan Artaxerxes X/DS1.5 1.150 Delicate and well balanced, slightly congested at climaxes. Power supply expensive, but runs two Roksan components 0 189 TAG McLaren PPA20 1,549 One of the best-equipped phono stages available. Resolution is excellent, but timing is marginally behind the best . 187



Cables

- C ables are an integral part of a hi-fi system, required to connect source components to amplifiers, and the latter to speakers.
- Analogue Interconnects connect source components and amplifiers, and run between pre and power amps. They are priced for one-metre terminated pairs.
- Digital interconnects connect CD transports to DACs or digital recorders.
 They come in optical and electrical varieties, the former being made of plastic or glass. The prices shown are for a terminated linear metre.
- Speaker cables are used between the amplifier and speaker. Our prices are per unterminated metre. Termination (plugs and soldering) costs vary.

KEY TO SPECIFICATIONS

- **SYMMETRICAL:** A twisted pair of conductors.
- COAXIAL: A central 'hot' conductor and a shield that carries the negative signal.
- 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.
- **A**
- DIG CABLE TYPE: O optical digital;
 E electrical digital for CD Players, DACS and digital recorders.
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback ad on the penultimate page of the mag.
- **ISSUE NUMBER:** The issue of *Hi-Fi Choice* in which an original review appeared.
- H High End Review







Cables

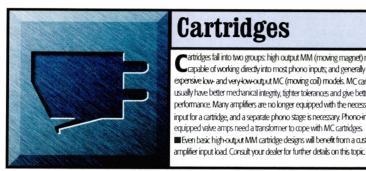
SYMMETRICAL STRANDED CORE SILVER ABLE TYPE NO. MER

| A | 0002 | J | | | April 1 | | | £ .0' . | N |
|-----|----------------------------|------------|---|---|---------|---|------|------------|-----|
| 5 | PRODUCT | (£) | COMMENTS | V | 7 V | V | /AVA | V V | V |
| | ANALOGUE INTERCONNE | CTS | | | | | | | |
| | Acoustic Precision Eikos | 89 | Not entirely neutral: probably best suited to upbeat music. Very stiff construction | | • | | | | 188 |
| | Audio Note AN-A | 18 | Not especially impressive: warm but well-rounded balance that restricts 'air' but is quite clear | • | • | • | | | 108 |
| | Audio Note AN-C | 35 | Neutral but lacking in subtle texture and unable to distinguish fine detail | | | | | 1687 | 131 |
| 4 | Audio Note AN-S | 99 | Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass | • | | • | • | 1687 | 131 |
| | Audio Note AN-V | 179 | 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 |
| | Audioquest Topaz X2 | 60 | Well made but let down by a pervading sense of muddle and congestion in the sound | • | | | | | 188 |
| 4 | CableTalk Advanced 2 | 35 | Slight roughness in loud music barely detracts from a well-balanced performance with good imaging | | | | | 2166 | 176 |
| 4 | Cable Talk Studio 2 | 65 | A first-class performer from tonal, dynamic and rhythmic standpoints | • | • | | | | 160 |
| | Cambridge Pacific | 30 | Lacks subtlety and bass impact but is otherwise quite serviceable for the price | | • | | | 2167 | 176 |
| 4 | Cambridge Audio Studio Ref | 40 | Dynamic cable with strong soundstaging and only a slight lack of detail | | • | | | | 160 |
| | Cambridge Silver Spirit 60 | 100 | Good bass but a lack of detail and differentiation of instruments | • | • | | | | 188 |
| | Chord Cobra 2 | 50 | Good, strong sound with full-bodied music, less happy with smaller forces | | • | • | | 2167 | 176 |
| | Chord Chameleon 2 | 90 | Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance | • | • | • | | | 188 |
| 4 | Connections Midas HD | 39 | Canary yellow cable with excellent plugs and an open sound. Slight treble glare | • | | | | | 160 |
| 4 | DNM TCC75 | 34 | Price for 0.75m High resolution cable, but best in short runs due to higher than average series impedance | | | | | 1690 | 131 |
| | DPA Slink | 41 | Slightly bright and zingy with flat soundstaging and hollow bass, though vocals and strings sound convincing | | | | | 1690 | 131 |
| | DPA White Slink | 75 | Bass recedes as the music gets complex; midrange and treble better with quite good detail and imaging | | | | | 2168 | 176 |
| 4 | DPA Black Slink | 245 | Initially dark and meaty but after running in, it's lucid and transparent. Quad geometry, Gore-Tex dielectic | • | | | | 1691 | 131 |
| | Goertz M1 Interconnect | 145 | Soft sound lacking in bite, with excessive and plummy bass (NB sample used in review was only 0.5m) | • | | | | 2168 | 176 |
| | Inser Audio IC100 MkII | 47 | Mostly good sound is let down by pervasive dryness | | • | • | | 2169 | 176 |
| B | lxos 104 | 20 | Open and detailed presentation, full bass and silky if overly smooth treble | • | | | | 1692 | 131 |
| | Ixos Gamma 1002 | 39 | Lumpy bass, grainy treble, and poor integration. Nice colour, though | • | • | • | | 2169 | 176 |
| 4 | lxos 103 | 45 | 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 |
| | lxos 101 | 100 | A cable with personality: its veiled and shut in quality bring an earthiness to vocals and rhythm guitar alike | | • | • | • | 1693 | 131 |
| 8 | Kimber PBJ | 68 | Assured sound, solid and natural bass and clear treble — excellent performance all round | | | | | | 188 |
| 4 | Kimber Hero | 110 | Slight roughness detracts from some music; seems well suited to rock and jazz. Lively and detailed | • | • | | | 2170 | 176 |
| 7.7 | Moth Ley Line Black | 100 | Offers a full sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy | • | | | • | | 108 |
| | Moth Ley Line Grey | 200 | Detailed, but there's a sense of distance between music and listener: vocals are coarse rather than liquid | • | • | | • | | 108 |
| | Nordost Black Knight | 60 | Flat black cable that is distinctive but slightly coloured – but not in a wholly negative manner | • | • | | | | 160 |
| R | Nordost Solar Wind | 85 | Good tone and dynamics, with just occasionally a touch of bass-lightness in busy music | • | | | | | 188 |
| 4 | Nordost Blue Heaven | 145 | Very good bass and only slightly grainy treble add up to a well integrated, natural-sounding cable | • | | | | | 176 |
| - | Precious Metals SS35 | 50 | Extended bass, but dry character suits electronic music better than acoustic | | | • | | | 188 |
| 4 | Prowire Silver | 60 | A good cable in every way, with just the occasional hint of coloration and coarseness | | • | | • | 2171 | 176 |
| - | PAD Elementa | 145 | A fat, heavy and frankly rather lazy-sounding cable; best with music for small forces | • | • | • | | 2171 | 176 |
| 8 | QED Qnect 2 | 30 | Very well balanced, refined and detailed, this is everything a good cable should be, and excellent value | | | | | 2172 | 176 |



| TREDUCES Comment Comm | | CONTINUED | | | | FCIFIC | ATLONE | | |
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| A sea che Mil Source 188 | 4 | Tara Labs Prism 22 | 64 | Mild tendency to plumminess offsets some hardness in complex music with mixed results | | • | • • | | |
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| Moth Legine Datalink 140 A fain, coasial westoon of Legine Black with a rather hand and untropywing disorder. To expensive E 108 Secunds | | lxos 105 | 25 | Extended but soft-edged treble that's mercifully free of fatiguing colorations; plenty of weight | ht, smooth | • | • • | E 1707 | 131 |
| Section Sect | 4 | | 50 | A STATE OF THE STA | | | | | |
| Silecch HF-6 | | | - | | pensive | • • | | | |
| Soniciank Creen 65 Spacious, positive and engaging if a bit over-crisp at times — very compelling, however 6 E 1709 101 very eart that The First 105 Exerptionally natural abest signify cautious compared to some Pleety of stable information and integration 6 E 1709 101 LOUIS 27 ARCE ACTUSTS ARI Nordan OMM 5 Generally neutral abest signify cautious compared to some Pleety of stable information and integration 6 E 1709 101 Audio Note AND 4.05 Spapiled in Intent, non-polarized lengths that are twisted into stereo pairs. Sounds rather grippy and forward 4 Audio Note AND 150 Well sude that very expensive vool emittodin but unintrusive and musical 1771 133 Audio Note AND 150 Well sude that very expensive vool emittodin on was appreciated by the partel, which was happy to accept its fobles 1772 133 Audio Note ANSP 150 A calm and civilised presentation, very qualet in the way it reveals subtle bow level detail. Creat pose and draity 109 Audioquest Type 4 5 Four 18-gauge CPHC copper conductors wound in a Utz-spe feshion increases capacitance but restrains 'bite' 109 Audioquest Type 6 9 A very inflexible cable in which the sonic ends don't quite justify the means 109 Audioquest Type 6 9 A very inflexible cable in which the sonic ends don't quite justify the means 109 Audioquest Type 6 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too steely for closical strings 100 Patelled and up-best cable. A but too s | 4 | | | | and systems | • • | | y | 100000 |
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| A C STATE TO THE COURT OF THE STATE OF THE S | | | | | | • | • | 1800 | |
| | 4 | SonicLink AST150 | 3.95 | Slightly plummy bass and a useful way of holding musical strands together | | • | • | | |

SPECIFICATIONS FACTSBACK NO. Cables SYMMETRICAL DIG CABLE TYPE STRANDED COAXIAL SOLID COPPER SILVER Supra Ply 3.4 6.95 Clean sound which stays together well at high levels, with full bass - perhaps a touch of treble restriction 183 Tara Labs Klara 2.95 A good budget cable with an even spread of virtues - and very minor vices - across the board . • . 183 van den Gold Water Bass becomes shy when there's a lot happening, and detail could be clearer . . . 183 van den Hul The Clearwater Despite its evocative title, the Clearwater turns out to be a disappointingly murky-sounding cable 109 van den Hul The Magnum 38 Touted as vdH's most prestigious twin-lead cable, Magnum sounds soft and old fashioned . . . 109 van den Hul The Wind 40 'The Wind' kicks up a storm with its lush midrange and bone-crunching bass! 109 van den Hul Revolution 76 Silver-plated OFC combined with carbon fibre prompts a sombre character with an easy and relaxed treble • 133 XLO Pro Type 625 Lively but natural and relaxed-sounding — a hint of congestion at frequency extremes . . . 1726 133 XI O Pro 600 16.60 Basically neutral tonality but can become aggressive and two-dimensional • • . 168



Cartridges

artridges fall into two groups: high output MM (moving magnet) models, apable 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-inputequipped valve amps need a transformer to cope with MC cartridges. ■ Even basic high-output MM cartridge designs will benefit from a customised

KEY TO SPECIFICATIONS

■ MM: Moving-magnet cartridge with a normal output, suitable for all amplifier phono inputs.

 MC: Moving-coil cartridge with a low output, only suitable for high-sensitivity MC amplifier

• REPLACEABLE STYLUS: Most MM cartridges have a stylus (needle) that can be removed and replaced when worn out.

• OUTPUT (mV): Cartridge output in millivolts. MASS (g): The mass of your chosen cartridge

affects the choice of partnering tonearm. Consult dealers or manufacturers to establish which arms and pickups work well together.

• FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback ad on the penultimate page of the mag. • ISSUE NUMBER: The issue of Hi-Fi Choice in

which an original review appeared. H High End Review



RECOMMENDED **BEST BUY**



Cartridges

SPECIFICATIONS REPLACEABLES FACTSBACK NUME OUTPUT MASS (8)

| STATU | OCCI U | | ugos | M "1C | 457 | nus my | (8) | TOK, | NO. MBE | P |
|----------|---------------------------|-------|--|-------|-----|----------|-------------------|----------|---------|-----|
| 15 | PRODUCT | (£) | COMMENTS | 杨素、 | VV | V | V | V | V | V |
| B | Audio Technica AT-95E | 20 | Clear and dynamic, though richly balanced | | | • | 2.8 | | | 48 |
| B | Clearaudio Signature | 1,495 | A great all-round performer with fine dynamic vitality and a seductive midband intimacy | | • | - | - | 11.5 | 2142 | 175 |
| 4 | Denon DL110 | 70 | A fine all-rounder, this high output MC model is likely to perform well | - 8 | • | | 1.0 | 6 | | 48 |
| | Denon DL160 | 90 | Although listeners just preferred the 110, its brother here survived lab tests and is still 'thoroughly competent' | | • | | 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 | | • | MARIE I | 0.1 | 6 | | 103 |
| B | Denon DL304 | 200 | Uncoloured, detailed, tracks superbly. Top notch altogether, and a bargain at the price | | • | | | 72.7 | 72 | 103 |
| | Dynavector Karat 17D2 mk2 | 450 | Clean and controlled sound with taut, tuneful bass. Detailed and musically cogent | | • | C |).15 | 5.3 | | 158 |
| R | Dynavector Te-Kaitora | 1,698 | A real smoothie, but pricey. Worth checking out for its delicate laid-back transparency and low needle-talk | 7 | • | 0 | .25 | 8.5 | 2142 | 175 |
| - 1 | Dynavector XX-1L | 998 | Very clear, very detailed; a response lift around 20kHz seems to do no harm | | • | | - | 12 | | 84 |
| - | Dynavector XX-1 | 998 | Good, but not immensely competitive at the price, and not helped by comparison with the low output version | | • | | 2.0 | 12 | | 84 |
| 4 | Goldring Elan | 19 | A lightweight and frisky-sounding MM apparently based on Nagaoka MM4 body | • | | • | 5.0 | 7 | | 67 |
| - | Goldring 1012GX | 79 | Slightly harsh but plenty of life and detail. Some high frequency coloration apparent | | | • | 5.5 | 7 | | 85 |
| _ | Goldring 1022GX | 99 | As with 1012, a touch harsh; detail and transient purity improved | | | - | 5.5 | 7 | | 85 |
| | Goldring Eroica LX | 110 | Not the most subtle cartridge in the world: can sound edgy at times, but lively and informative | | | - | 0.5 | 8 | | 84 |
| • | Goldring 1042 | 120 | Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively, though | • | | | 5.5 | 6 | | 91 |
| | Goldring Elite | 220 | The basics are right, and it will cheerfully tackle any source material, but its sound is not the cleanest | | • | (| 0.5 | 8 | | 103 |
| | Goldring Excel VX | 525 | Good bass drive but dull and imprecise higher up. An old-fashioned sound that falls short of the true high end | | • | | .45 | 8 | 2143 | 175 |
| | Grado Prestige Gold | 149 | Rich sounding with an unusually refined top-end for a moving magnet-type cartridge | | | • | 4 | 6 | | 158 |
| 7 | Grado Reference | 995 | Loads of tracking headroom but treble is limited. A prospect for mid-oriented valve amp users | | | | 1.7 | 6.5 | 2143 | 175 |
| A | Linn K9 | 125 | Linn improved this model by beefing up the Basik's bodywork and adding a super stylus | | 7 | | 1.5 | 5 | 27.0 | Col |
| 7 | London Decca Maroon | 259 | Now manufactured under the London brand name, this Decca cartridge is as iconoclastic as ever | | | - | 5.0 | 6 | | 67 |
| | London Decca S Gold | 399 | Immediate and detailed, but coloured and nonlinear, with a questionable effect on records | | | - | 5.0 | 6 | | 84 |
| | Lyra Lydian | 649 | Superbly capable all-round musical performer that improves markedly when its body cover is removed | | • | - | _ | 7 | | 158 |
| | Lyra Clavis Da Capo | 995 | A stable tracker, and one of the finest cartridges we've heard | 120 | | - | 71747 | 7 | | 143 |
| 7 | Lyra Parnassus D.C.t | 1,895 | A real little jewel of a cartridge, with many good qualities, but handicapped by a rather too obvious treble peak | | | | - | 10.5 | 2144 | 175 |
| 4 | Ortofon 510/P | 38 | For the price, a good blend of virtues – weight, clarity and neutrality | | | - | CENTRAL PROPERTY. | 5 | 2111 | 85 |
| | Ortofon 520/P | 65 | Sensitive to load capacitance, but the 520/P has a lively, effervescent sound | | | - | _ | 5 | | 67 |
| | Ortofon MC3 Turbo | 130 | The 3 Turbo is bright, cheerful and bouncy, but unsubtle – take it as it comes! | | • | | 3.3 | 4 | | 103 |
| 4 | Ortofon MC15 Super II | 130 | A good all-rounder, with outstanding resolution, if slightly bright and close up | | | | .35 | 7 | | 103 |
| - | Ortofon MC25E | 180 | An excellent upgrade for a mid-price turntable | | • | - | - | 11 | | 139 |
| | Ortofon MC25FL | 250 | A bit too stark and honest, but faithful to what's on the LP | | • | - | | 11 | | 139 |
| | Ortofon MC30 Supreme | 525 | Highly detailed and even-sounding cartridge that has a special affinity with female vocal recordings | | • | | - | 10.7 | 500000 | 158 |
| B | Ortofon Rohmann | 1,000 | A class act in nearly every respect, with fine groove security and a very smooth and even-handed sound | | | | .25 | 0.500000 | 2144 | 175 |
| | Ortofon MC3000II | 1,100 | A real ear-opener. Nothing to criticise anywhere — one of the very best | - 12 | | 7 | 112 | | 2111 | 84 |
| | Ortofon MC5000 | 1,500 | Limited tracking ability, bright and forward sound, but good stereo | | • | | _ | 10 | | 91 |
| | Rega Bias | 39 | Difficult to mount in some arms due to its shallow body, but the Bias offers a gentle, refined sound | | | | 5 | 4 | | 67 |
| | Rega Elys | 85 | Clearly superior to the Bias, the Elys is more detailed, accurate and convincing | | | | | 5 | | 67 |
| | Roksan Corus Black | 130 | Recognisably related to the Corus Blue, but smoother and more civilised | | | | 5.5 | 5 | | 91 |
| _ | van den Hul MM-1 | 250 | If woody midrange could be tamed, imaging and security would pull it through | | | | 5.5 | 6 | | 103 |
| 7 | Ton activity with t | 250 | in Hoody findingse could be tained, inaging and security would pull it tillough | | | Marie 1 | ,,,, | U | | 103 |

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REPLACEABLE STYLUS OUTPUT MASS (8) Cartridges FACTSBACK NO. van den Hul DDT-II Outstanding stereo imaging and neutral balance are appealing, but rhythmically the DDT-II is a bit lazy 0.35 7.6 158 van den Hul MC-10 750 A neutral, balanced performer, gives fine depth and focus and a firm, extended bass 0.4 6 60 A van den Hul MC-One 900 This extends all the positive qualities of the 10, but adds greater authority and scale – worth all the extra money 0.4 6 60 4 van den Hul MC-Two 1.200 MC-Two rewards with a highly detailed yet fluid and musically convincing portrayal 0.4 6 72 van den Hul Frog 1 1.500 Seems to control suppress surface noise better than its rivals. This delicate and subtle performer has great charm 0.65 2145 175 van den Hul G' hopper IIIGLA 2,800 Undoubtedly one of the finest cartridges available. It has tremendous bandwidth, energy and finesse 122 Extraordinarily well balanced cartridge: neutral and detailed yet lively and rhythmically assertive 4 Wilson benesch Matrix 786 0.58 158 6 Wilson benesch Carbon 1,573 Carbon fibre body contributes to a delightfully clean and open midrange, and a quick, lively and coherent sound 0.45 2145 175



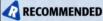
Cassette Decks

he compact cassette is still the world's most versatile and ubiquitous music storage medium. Cassette decks hook up to the 'tape loop' inputs and outputs offered by most modern amplifiers. It's worth taking care to choose the best tapes for a specific machine. For example, expensive metal tapes will be a wasted investment for a cheap deck. Many better-specified decks have manual or automatic bias adjustment to get the best from specific samples of tape. Twin decks offer the possibility of copying from tape to tape, playing two cassettes sequentially or recording onto two tapes at once. Autoreverse is a useful feature, but uni-directional mechanisms promise better sound. Dolby S is the ultimate noise reduction system, and three-head decks permit record monitoring off-tape

SPECIFICATIONS

- DOLBY B/C: The first and second Dolby hiss-killers.
- DOLBY S: A desirable derivative of Dolby SR professional noise-reduction.
- DOLBY HX-PRO: Extends headroom for cassette recording.
- 3-HEAD: Permits monitoring off-tape while you're recording. TWIN DECK: Contains two
- decks for dubbing and continuous play. • AUTOREVERSE:
- Automatically plays both sides of the cassette.
- AUTO CALIBRATION: The deck will automatically set up bias and EO for any tape.
 - ADJUSTABLE BIAS: Permits manual optimisation of tape.
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full
- info, see the Factsback advert on the penultimate page of the mag. ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.
- H High End Review





SPECIFICATION



Cassette Decks

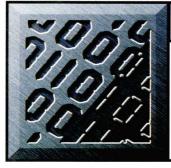
| ns | Cass | SE | ette Decks | DOLBY SV S | HX PRO | TWIN | AUTO REVERS | ADJUSTA UBRAD | FACTSBA BLE BIA | SSUE, ICK N | NUMBE | |
|--------|---------------------|-----|--|---------------|--------|------|-------------|------------------|--------------------|----------------|-------|-----|
| STATUS | PRODUCT | (£) | COMMENTS | V | V | V | 7 7 | <u> </u> | ON THE | | | V |
| 4 | Aiwa AD-F450 | 120 | Basic but well-designed deck. Astonishing value; only the poor metering gives the game away | • | | • | | | | • | 1513 | 136 |
| B | Aiwa AD-WX727 | 170 | High-class twin for those who want bells, whistles — and music | • | | • | • | • | | | 1377 | 146 |
| B | Denon DRM-550 | 160 | There are some technical limitations, but this remains a fine-sounding deck, and excellent value | | | • | | W. | | | 1011 | 158 |
| | Denon DRW-580 | 200 | Twin deck: OK for casual use, but will quickly pall with more quality critical applications | • | R/A I | • | • | • | | • | | 171 |
| 4 | Denon DRS-640 | 200 | Draw-loading deck, with simple facilities and smooth, well-adjusted sound | • | | • | • | | | • | 1591 | 140 |
| 4 | Denon DRM-650S | 230 | An improvement on predecessors, it offers a wide-ranging, sound. Dolby S is not the best feature | • | • | • | 1000 | | • | • | 1920 | 164 |
| - | Denon DRM-740 | 270 | Breathed-on DRM-710, with good external treatment, offers good, if somewhat detached sonics | • | | • | • | | | • | 1514 | 136 |
| 1 | Denon DRS-810 | 310 | Draw-loading deck, carefully designed yet lacking in subtlety on audition | • | | • | • | | | | | 127 |
| 1 | Harman/Kardon TD420 | 250 | Minor inconsistencies detract from a well-conceived, minimum features design | • | | • | • | | | | 1592 | 140 |
| | Harman/Kardon TD450 | 350 | Draw loader with poor tape navigation features; good midband but shallow bass | • | | • | • | | | • | 1920 | 164 |
| 1 | JVC TD-R472 | 200 | Excellent auto-reverse deck which doesn't suffer the usual disadvantages and is very sharply priced | • | Milita | • | | • | | • | | 158 |
| 1 | JVC TD-V662BK | 270 | Assured, clean and agile-sounding recorder, if not quite the most refined in its class | | | | | | • | • | 1380 | 146 |
| | JVC TD-W718 | 300 | Twin deck. Good for creative live recording, but no timer standby. Respectable performance | • | | • | | • | • | | 2039 | 171 |
| 4 | Kenwood KX-W6080 | 200 | Modestly decent-sounding twin deck, with some transport instability and ragged bass | • | | • | • | • | | • | 2040 | 171 |
| | Marantz SD455 | 170 | Works well as a single deck, especially on replay, but dubbing at high/low speed compromises sound | • | 5 15 | • | • | • | | | | 184 |
| | NAD 613 | 230 | Rough and ready, but enjoyable sound, though marred by mechanical motor noise | • | | • | | | | • | | 158 |
| | NAD 616 | 300 | Twin deck with basic features. No Dolby setting memory, transport is too unstable for audiophile use | | | • | • | • | | | 2041 | 171 |
| 4 | Onk o K-611 | 460 | Cute drawer-loading mini-size component with 3-heads and dual capstan transport | • | | • | | | • | • | 1384 | 146 |
| 4 | Pioneer CT-S550S | 250 | Great features, good with cheap low bias tapes, but slightly synthetic sound quality | • | • | • | • | | • | | 1920 | 164 |
| | Pioneer CT-W806DR | 300 | Had it not been for the iffy transport quality, this sophisticated twin would have been Recommended | • | | • | • | • | • | | 2042 | 171 |
| 4 | Pioneer CT-S830S | 500 | High-class mechanism, if lacking in battleship externals, and superb sound | • | • | • | | | • | • | 1385 | 146 |
| 4 | Sony TC-KE600S | 300 | Mild setting-up problems notwithstanding, this UK-tweaked design has a smooth, open sound | • | • | • | • | | • | • | | 158 |
| | Teac V01050 | 180 | One of the cheapest 3-head machines around, but it shows in very 'thick' sound | • | | • | • | 300 | | | | 184 |
| 4 | Technics RS-AZ6 | 200 | For those who can't afford the RS-AZ7; clarity over the widest bandwidth thanks to AZ thin-film head | • | 1000 | • | • | Y | • | | 1920 | 164 |
| 4 | Technics RS-AZ7 | 270 | Thin-film head gives a solid, almost CD-like bass and midrange. A clear advance in state-of-the-art | • | | • | | 132 | • | • | | 158 |
| 4 | Yamaha KX-490 | 200 | Electrifyingly transparent and capable deck whose only flaw is a trace of audible wow and flutter | • | | • | | | • | • | | 158 |
| 4 | Yamaḥa KX-580SE | 250 | Subtle, engaging and transparent deck, with a lightweight tonality, but stability and strong detail | • | • | • | | | • | • | 2043 | 171 |



HI-FI CHOICE LETTERS

TELL US WHAT YOU THINK ABOUT ALL MATTERS HI-FI AND WIN A GIFT FOR YOUR EFFORTS! SEE PAGE 19

ETEC DICINA ON POLL ON A D/DVD Players OPTICAL 5T BAL ANEADPHONES ANUTADAS TYPE WELEC DIC OUTDIG OUT OUT OUT OUT OUT OUT OUT UTPUT OUT Alchemist TS-D-1 300 24/96-equipped DAC sounds tidy but a little shut-in with both 16-bit CDs and 24-bit, 96kHz DVDs Audio Note DAC1 Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer MR 127 1,500 A new 20-bit DAC and revised Karik transport have cleaned up; but sounds a bit dry and humourless MB 1323 144 Musical Fidelity X-24K 300 24/96 ready with a warm, natural sound and good soundstaging (tested with Pioneer DV-717) MB 187 PS Audio UltraLink 2 HDCD 2,590 The sound positively sparkles with colour and resonant detail. (Tested with Lambda transport) MB 1106 133 PS Audio Reference Link 4,550 Consolidates reputation of PS Audio for high performance digital electronics MB 1069 132 Roksan Attessa ATT-DA2/DS5 1,145 Not the most detailed or refined but capable of good excitement with the right material 1bit 1867 162 Teamed with VRDS-T1 for test, this superb quality unit is tidy and composed BS 1325 144 Teac D-700 600 With P-700, the D-700 may lack the resolution, but is bubbly and enter MB Thorens TDA2000 700 Lively and up-front presentation not helped by rather loose bass and splashy treble BS 1867 162 Trichord Pulsar Series One 1,395 Very detailed, precise, controlled yet involving; a first-rank performer. Switchable phase, dither etc Hyb 1867 162 **DVD PLAYERS** 1.600 The first DVD-V player that ain't bad as a CD player. A fine musical device BS Denon DVD-3000 700 Enjoyable rather than analytical, includes 24/96 and AC-3/MPEG-2 Audio BS Hitachi DV-P2E 400 DVD player, based on last generation Pioneer, is good but uninspiring 24/96 190 JVC XV-S2000 475 DVD player with excellent picture but flat sound in most modes PEM 190 Kenwood DVF-9010 1000 DVD player with brilliant picture and clean, lively sound 24/96 190 Micromega Premium DVD 1,500 Unique lack of regional coding constrictions but both DVD and CD replay are compromised RS 183 Panasonic DVD-A150 400 Simple, mid-market DVD player is vice-free but limited for the audiophile 24/96 190 700 24/96 converter and AC-3 & MPEG-2 Audio included, well balanced, if slightly blurred and shut in Panasonic DVD-A350 . BS 180 Pioneer DV-515 Unusually well equipped (CD-R compatible etc) DVD with more than fair sound and picture quality MR 190 Pioneer DV-717 Superb DVD player with good picture quality and which really knows how to play 24/96 discs MB Pioneer DVL-909 900 DVD and LD player: self-recommending to AV nuts; musically detailed but occasionally seems disjointed RS 180 Samsung DVD-907 500 DVD player with below average picture, and lacklustre sound quality 24/96 190 Sony DVP-S715 600 24/96 converter for DAD compatibility, sharp, forward, but slightly unsubtle sound BS 180 Thomson DTH2000 380 This DVD player's main attributes are reasonable pricing and fair to good all round performance 24/96 190 Toshiba SD3107B 550 Dynamic sound and good stereo which lacks lowest stratum of detail BS 180 Yamaha DVD-S700 DVD player, similar to Panasonic DVD-A350 but cheaper – an excellent buy . 24/96 190



Digital Recorders

Domestic digital recording has been possible since the launch of digital audio tape (DAT) in the '80s. Since then DAT has remained expensive and largely esoteric, favoured only by well-heeled or professional users. Digital Compact Cassette and MiniDisc (MD) were laun ed in the early '90s but only MD has stayed the course. A little later came domestic CD-Recorders using CD-R discs, while the latest twist is the arrival of re-recordable CDs know as CD-RW discs. The recording quality hierar y is as follows: DAT, CD-R/CD-RW, MD. MD is probably the most convenient to use, and offers sophisticated editing facilities, while CD-R is ideal for making digital 'dones' of prerecorded CDs. DAT is the medium of choice for high-quality location recording

KEY TO SPECIFICATIONS

FORMAT: Type of recorder see left for descriptions.
 DAC TYPE: Digital to

analogue converter: BS - Philips Bitstream; MB - multibit; Hyb hybrid of multibit and bitstream; 1bit - single bit types such as MASH, bitstream, PWM etc

 ADC TYPE: The analogue to digital convertor (ADC) converts

BEST BUY

sound into digits during live recording. Types of ADC are as per DACs (qv).

PORTABLE: Battery operable, but not necessarily personal-stereo-sized.
 OPTICAL IN/OUTPUTS:

Digital socketry for optical cable.

• ELEC IN/OUTPUTS: Digital socketry for electrical cable.

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of HFH Choice in which an

original review appeared.

H High End Review

EDITOR'S CHOICE

Digital Recorders

SPECIFICATIONS

OPTICAL FLOW IN THE STATE OF
| Ē | 7-9 | LUC | u recognition | , PE | IPE | OFF | 100 | TPUTS | UTS | NO. MBE | R |
|----|----------------------|-------|--|------|-----|-----|-----|-------|-----|---------|-----|
| 12 | PRODUCT MINIDISCS | (£) | COMMENTS | V | V | V | V | V | V | • | V |
| | Denon DMD-1000 | 300 | A good machine, but it still doesn't manage to shake off the MiniDisc plague of losing the listener's interest | MB | BS | N | • | • | | | 184 |
| | Denon DMD-1300 | 500 | Sound sometimes lacks integration but tonal balance is good and it handles loud music with panache | MD | BS | BS | | • | | 2193 | 177 |
| 4 | Kenwood DM-9090 | 550 | Slight sibilance and image vagueness do not detract from excellent balance and solid bass | MD | BS | BS | | • | • | 2194 | 177 |
| | Onkyo MD-121 | 450 | Midi-sized deck that sounds slightly coloured at times, though immediate and lively | MD | BS | BS | | • | | 2195 | 177 |
| | Sharp MDR3H | 300 | Nifty machine combining a 3-disc CD changer with a MD recorder. Sound on both is rather below par, though | BS | BS | N | | • | • | | 184 |
| 4 | Sharp MD-R2 | 300 | Budget recorder that loses little or nothing in comparisons with much more expensive models — highly capable | MD | BS | BS | | • | | 2196 | 177 |
| 4 | Sony MDS-JB920 | 300 | One of the better MD decks, its sound is neutral and dynamic. European Audio Recorder of the Year '98-'99 | BS | BS | N | • | • | | | 184 |
| | CD RECORDERS | | | | | | | | | | |
| 4 | Philips CDR-880 | 499 | Capable of making perfect copies of CD digital, and very acceptable copies of anything analogue too | BS | BS | N | | • | • | | 184 |
| 4 | Pioneer PDR-555RW | 480 | Competitor to Philips' CDR880; it can't make perfect copies but has the edge in replay and analogue record sound | BS | BS | N | • | • | | | 184 |
| | Pioneer PDR-04 | 700 | Scaled down version of the PDR-05 with auto level setting but all the socketry and features you need to make CDs | CD-R | BS | BS | | • | • | | 171 |
| | Pioneer PDR-05 | 1,000 | The first domestic CD-R deck — excellent sound quality | CD-R | BS | BS | | • | • | 1652 | 152 |



Headphones

here are several different ways of making a headphone. The most There are several critical in ways or making a management of the pensive models employ electrostatically-driven diaphragms within an open-backed earcup. Most mid-price designs feature dynamic, moving-coildriven diaphragms in open, semi-open or dosed-back designs. An openbacked headphone can sound remarkably transparent, but also permits the ingress of external noise. Closed-back designs keep out unwanted sound, but may be less comfortable to wear and more coloured. The latest development is the cordless headphone using either infrared light or, more recently, radio waves. Quality is improving, but has yet to match the best corded designs.

KEY T O

- TYPE: Operating principle: D - dynamic; E - electrostatic. • SUPRA AURAL: Where a flat
- pad presses on the outer ear. earcup endoses the ear. OPEN BACK: Offers an open sound but lets in noise.
- CLOSED BACK: Keeps out external noise MASS (g): Mass in grams

IMPEDANCE (Ω): Load offered to the headphone amplifier. Many headphones offer a significantly higher value GRCUMAURAL: Where the than loudspeakers, for example, but this does not mean they will

SPECIFICATIONS

• 3.5MM JACK ADAPTOR: Compatible with mini-jacked components, eg personal stereos.

be incompatible with the

majority of amplifiers.

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RECOMMENDED BEST BUY



Headphones

SPECIFICATIONS SUPRA-AURAL CACUMAURAL BACK BACK (B) AMASS (B) AMACK (B) APOLO NO.

| STATU | | | Pilolios | M | -W | 9 | 4 | | -115 | J. Mar. | OR NO. | -CR | |
|-------|---------------------------|-----|---|---|-------|---|------|-----|------|---------|-------------|------|-----|
| ST | PRODUCT | (E) | COMMENTS | V | V | V | V | V | V | V | V | V | V |
| 4 | AKG K1000 | 700 | One of the best dynamics on the market, hooks directly into speaker outputs | D | | • | • | | 270 | 120 | | | 99 |
| | AKG K 240 DF | 100 | Inoffensive 'phones that are very laid back, if lacking in grunt | D | | • | • | | 240 | 600 | • | | 186 |
| 4 | Audio Technica ATH910PRO | 80 | The closed back 910s are an improvement on the 909s, with a nice rhythmic quality rarely found | D | • | | | • | 280 | 40 | 100 | | 55 |
| 4 | Audio Technica ATH-M40 | 120 | Incredible detail and honesty from these classically designed studio 'phone | D | | • | | • | 250 | 60 | P.G | | 186 |
| | Beyer DT311 | 50 | Uncharacteristically tight, unrefined sound quality from this otherwise well engineered 'phone | D | • | | • | | 124 | 40 | • | 1098 | 133 |
| | Beyer DT411 | 63 | A reasonable but not very thrilling headphone that doesn't really offer enough at the price | D | • | | • | | 120 | 250 | | | 111 |
| | Beyer DT431 | 81 | Nice looking 'phones that may not be the best players on the field, but will always give 100 per cent | D | Shirt | • | • | | 210 | 40 | • | | 186 |
| | Beyer DT100 | 160 | Rugged, modular professional design, but bass is woolly and treble lacks detail | D | | • | | • | 350 | 600 | | | 157 |
| | Beyer DT511 | 106 | Superb midband clarity and speed slightly at odds with soft bass. High tingle factor, even so | D | | • | • | | 200 | 250 | | 2063 | 172 |
| | Beyer DT531 | 135 | A good buy for serious, heavy-duty music making | D | 400 | • | • | | 245 | 250 | | | 144 |
| 4 | Beyer DT831 | 140 | These provide silky, smooth textures in abundance and we're not just talking about the velvet ear pads | D | | • | 1/2 | | 295 | 250 | • | | 186 |
| 4 | Beyer DT911 | 170 | 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 |
| | Denon AH-D750 | 130 | Loud and gutsy, meaty bass, good with rock and dance. Can sound thick and clumsy | D | | • | | • | 250 | 30 | • | 2063 | 172 |
| | Grado SR-40 | 45 | Cheap and nasty appearance largely redeemed by cheerful, up-beat sound. Very comfortable | D | • | | • | | 120 | 32 | • | 2064 | 172 |
| | Grado SR-80 | 100 | Open and dynamic with pedantically open mid-band. Crude physical design, rough frequency extremes | | • | | • | | 60 | 8 | • | 1801 | 157 |
| _ | Grado SR125 | 150 | What these 'phones lack in style they make up for ten-fold in musical quality | D | • | | • | | 200 | 32 | | | 186 |
| | Grado SR-225 | 200 | Warm, darkly-coloured tonally and ultimately lacking in clarity, but true to the spirit of the music | D | • | | • | | 200 | 32 | | 1883 | 163 |
| - | Jecklin Float Model 1 | 79 | While very unusual in appearance, the Floats give remarkable sound quality and openness | D | | • | • | | 400 | 200 | | | 55 |
| 4 | Jecklin Float Model 2 | 99 | Helmet shaped, but open sounding and comfortable in the long term, despite lack of adjustment | D | | • | • | | 400 | 200 | | | 63 |
| | IVC HA-W60 | 49 | Remarkable lack of interference and hiss ameliorates adequate sound of this cordless design | D | • | | | • | 165 | I/R | • | | 172 |
| | IVC HA-D910 | 65 | Broadly acceptable if unexciting design with low level losses and some colorations | D | • | | | • | 220 | 32 | • | | 121 |
| 4 | IVC HA-W OORF | 75 | Distinct lack of hiss from these FM cordless 'phones ensures that detail and depth are easily heard | D | | • | 130 | • | 280 | 20,000 | • | | 186 |
| | Koss R/100 | 100 | Rather cheap looking 'phones that supply good detail but are severely lacking in midrange excitement | D | | • | | • | 215 | 60 | • | | 186 |
| - 1 | Precide Ergo Model 2 | 140 | Still has much of the spaciousness of the Float from which it is derived, but coarse mid/top | D | | | • | | 380 | 100 | - | 1892 | 163 |
| 4 | Philips SBC 3396 | 70 | Remarkably airy for closed-back designs. Fine tonal balance, punchy delivery. Amazing for money | D | 16.14 | • | 1116 | • | 255 | 32 | • | 2064 | 172 |
| | Philips SBC HP900 | 90 | Sharper, snappier midrange than 3396: initially impressive but blows it on balance and listenability | D | | • | | • | 200 | 32 | • | 2065 | 172 |
| | Sennheiser IS 380 | 55 | As close as you'll get to real hi-fi with infra-red phones at this price. Inevitable hiss spoils the illusion | D | • | | | • | 192 | I/R | • | | 172 |
| 4 | Sennheiser HD 455 | 55 | Inoffensive, if nondescript sound; modular, but can become dislodged from head | D | • | | • | | 185 | 60 | • | 1801 | 157 |
| | Sennheiser HD 500 | 70 | A disappointing pair that offer good stereo-imaging, but little else | D | 200 | • | • | | 210 | 32 | • | | 186 |
| - 4 | Sennheiser HD 475 | 80 | Elegant, uncluttered sound and very comfortable but lean bass saps satisfaction | D | • | | • | 133 | 120 | 60 | • : | 2065 | 172 |
| | Sennheiser RS 400 | 80 | FM cordless 'phones that are very wearable, but slightly woolly sounding with interference problems | D | • | | | • | 160 | N/A | • | | 186 |
| - | Sennheiser HD 545 | 125 | Fine all-rounder that takes all styles of music in its stride. Ear-clamping headband | D | Fle A | • | • | | 255 | 150 | | 2066 | 172 |
| - 1 | Sennheiser HD 565 Ovation | 150 | Wide bandwidth design which is refined, expressive and extremely comfortable | D | | • | • | | 255 | 150 | • | 1801 | 157 |
| | Sennheiser HE 60/HEV70/UK | | Very nearly a superb electrostatic, with a pure midband, but top end is sibilant and edgy | E | | • | • | | 260 | N/A | The same of | 1898 | 163 |
| | Sony MDR-605LP | 50 | Funky looking headphones that have a very bold, but tiring sound, with coloured bass | D | | • | • | 120 | 145 | 40 | • | | 186 |
| | Sony MDR-CD770 | 100 | Neutrality and comfort make the Sony easy to live with. Correct-sounding too, yet musically unrewarding | D | | • | | • | - | - | | 1801 | 157 |
| | Sony MDR-CD1700 | 200 | Astonishingly detailed, uncoloured and free of the usual artefacts from a sealed back headphone | D | | | | • | 325 | 32 | 4100 | 1901 | 163 |
| - | Sony MDR-F1 | 100 | Natural, easy-going sound teamed with great looks and comfort. Shame about the lightweight bass | D | -510 | • | • | | 300 | 12 | | 2066 | 172 |
| . 4 | Technics RP-DJ1200 | 130 | Functional design with head-pulping bass and muggy tonal balance. Good job they're sweat-proof | D | • | | | • | 230 | 32 | | 2067 | 172 |
| - 1 | Stax Lambda Nova Basic | 449 | Refined, articulate, yet with real presence – and a notable bargain by electrostatic standards | E | | | • | | 347 | N/A | | 1902 | 163 |
| - 4 | Vivanco Cyberwave FMH3000 | | The only cordless 'phone to offer genuine walkabout freedom, but sounds like a cheap FM tuner | D | • | | | • | 210 | FM | • | | 172 |
| | Vivanco IR5800 | 50 | Consistently musical infra-red design. Doesn't reach for sonic heights so hiss can be forgiven | D | • | | 1/2 | | 226 | I/R | • | 1051 | 172 |
| 7 | Vivanco SR650 | 50 | Unusually comfortable 'phone with excellent detail resolution but aggressive | D | • | | • | | 175 | - | 200 | 1801 | 157 |
| - 1 | Vivanco SR750 | 60 | Cossetting physical design, attractive sound, though suffers overhang and lacks ultimate dynamics | D | • | | • | | 188 | 0.000 | • | 1801 | 157 |
| - 4 | /ivanco FM7980 | 80 | A fair amount of whine and crackle detracts from 'phones which are otherwise very listenable | D | | | | | | 9,000 | | | 186 |
| | Vivanco FM8180 | 99 | Well thought out features and a better than average sound are, at times, marred by intrusive hiss | D | | _ | | | 240 | 9.000 | | | 186 |



HI-FI CHOICE HELP

FOR ASSISTANCE IN BUYING THE ULTIMATE SYSTEM, CHECK OUT THE HELP SECTION ON OUR WEB SITE AT www.hifichoice.co.uk



Hi-Fi Loudspeakers

s the last link in the hi-fi chain, loudspeakers are at the mercy of incoming A signals. Nevertheless, distortions introduced by loudspeakers (and rooms) tend to be the most obvious. The average loudspeaker comprises an endosure containing two drive units. Inside the box, a simple electrical circuit (the crossover or dividing network) splits the incoming, full-frequency-range signal into the right portions for specific drive units to handle: highs to the 'tweeter', lows to the 'woofer'. For any given box size, designers must balance the 'sensitivity' of the loudspeaker (how loud it goes for a given electrical input) against bass extension (how low it goes). Subwoofers augment bass and are either passive (unamplified) or, preferably, active (self-amplified).

SPECIFICATIONS

• SIZE wXhXd (cm): Width by height by depth in centimetres.

• FLOORSTANDER: Requires no stand support.

• SENSITIVITY (dB/W): How much sound results for a given electrical input - the higher the figure, the louder the speaker. ● IMPEDANCE (52): Impedance, measured in Ohms,

the speaker presents to an amplifier. As impedance decreases, demands on an amplifier increase.

 BASS FROM (Hz): The lowest frequency that a speaker can reproduce effectively. • FREE SPACE: Speakers which should not sit dose to walls. ● CLOSE TO WALL: Speakers

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indicates how much resistance

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Hi-Fi Loudspeakers

| 1 | TT: TT | - | | SPEC | | | | | | | | |
|--------|-----------------------------|-------|---|----------------|----------|---------|------------|-------|--------------|-----------------|--------|----|
| | | | | SENSITIVITY (6 | EDAN BAN | ISS FRO | FREEDM (H. | CLOSE | FACTS, TO WA | ISSUE BACK A | NUMBER | P |
| | PRODUCT | (E) | COMMENTS | 10.75.504 | A | | M | | | | | |
| - | Acoustic Energy Aegis One | 150 | At a new low price, this has a very natural and transparent midband, erring a little on the dull side | 19,36.5,24 | | 87 | 6 | 40 | • | | 2100 | 18 |
| - | Acoustic Energy AE200 | 250 | Metal-cone miniature has a tendency to shout but is still lots of fun, and well built too | 18.5,30,25 | | 87 | 6 | 40 | | • | 2199 | 17 |
| - | 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 | 16 |
| - | Acoustic Energy AE120 | 500 | Attractive presentation and good sonic headroom, but a heavy, uneven overall balance | 18,98,28 | • | 89 | 4 | 25 | • | | 1904 | 1. |
| | 0/ | 1,000 | Could be more neutral, but high-class build is reflected in a high-class sound. Very elegant too | 21,98,30 | • | 91 | 3 | 25 | • | | | 19 |
| - | | 1,599 | Massively built, invariably informative but the rather forward presentation can be uncomfortable | 24,44,31 | | 83 | 8 | 28 | | • | | 8 |
| **** | Audio Gem Emerald | 540 | Pretty compact floorstander with lively if lightweight sound | 18,94,21 | • | 87 | 6 | 40 | • | | 1905 | 16 |
| _ | Audio Note AN-J/B | 799 | Light damping and local unevenness add some coloration, but don't spoil the speaker | 38,58,25 | | 93 | 8 | 25 | | • | | 1 |
| - | | 1,299 | Coherent, dynamic and transparent, with extended bass and high sensitivity — but ugly! | 36,84,28 | • | 94 | 8 | 20 | | • | | 10 |
| - | | 1,999 | Tall and unusually-styled floorstander has stunning stereo but suspect bass tuning | 22,107,47 | • | 88 | 8 | 28 | • | • | 1344 | 14 |
| _ | Audiovector C2 | 799 | Elegant two-and-a-half-way has a big, full bandwidth sound, but midband seemed a little under-developed | 19,106,27 | | 90 | 4 | 20 | • | | | 19 |
| Inchis | | 1,399 | High-class, smooth and slightly laid-back performer has driving bass. It's upgradeable, too! | 20,102,30 | • | 89 | 4 | 22 | • | | | 18 |
| - | AVI NuNeutron | 500 | A smooth and subtle though pricey sub-miniature, albeit with the inevitable limitations of the breed | 14,27,23 | | 86 | 4 | 50 | | • | | 19 |
| - | AVI Positron | 899 | This 'mini-floorstander' is capable of great precision and delicacy, but in a rather small scale way | 17.5,74,245 | • | 85 | 6 | 40 | • | | 2130 | 17 |
| - | B&W CDM2SE | 400 | Beautifully styled and finished, respectable midband. Lacks definition towards frequency extremes | 22,32,25 | | 87 | 6 | 40 | | • | | 18 |
| | B&W DM302 | 150 | Highly competent and neutral all rounder; clever Prism enclosure | 19,32,22 | | 88 | 4 | 45 | | • | 1778 | 15 |
| int. | B&W DM601 | 199 | | 20.5,35.5,23 | | 88 | 6 | 30 | • | | 1779 | 15 |
| | B&W DM602 | 300 | Prefers tall stands and space, but offers impressive midband dynamics and musical tension | 24,49,31 | | 90 | 8 | 30 | | • | 1654 | 15 |
| - | B&W DM305 | 350 | Ridged paper cone gives lively sound, clever box, but a little uneven | 22,87,31 | • | 89 | 4 | 40 | • | | 1908 | 16 |
| | B&W DM603 | 500 | Squat floorstander with decent dynamics and well-judged, restrained balance; bass could go deeper | 23.5,88,29 | • | 89 | 7 | 45 | • | | 2030 | 17 |
| - | B&W CDM1SE | 600 | A great looking stand-mount with one of the best midbands around, and a subtle blend of other qualtes | 22,37,29 | | 88 | 5 | 40 | • | | 2209 | 17 |
| 100 | | 1,000 | A combination of serious welly and physical elegance; but a basic lack of midband smoothness | 22,97,29 | • | 90 | 4 | 22 | • | | 2131 | 17 |
| _ | | 6,000 | Outstanding example of the high tech speaker builder's art, needs real power but gives real sound | 39,111,55 | • | 91 | 8 | 34 | • | | | 18 |
| 100 | | 8,500 | The 801 is a magnificent loudspeaker in nearly every respect, but it is one that likes to play loud | 52,111,69 | • | 91 | 8 | 34 | • | | | 18 |
| | Cabasse Farella 400 | 950 | Exciting but very upfront-and-in-yer-face sound. High sensitivity, fine build and good dynamic drive | 26,92,32 | • | 92 | 5 | 28 | | • | | 18 |
| | Castle Isis | 250 | A great miniature at a competitive price. Sound is lightweight but very coherent, with a fine overall balance | 17, 35.5,21 | | 87 | 8 | 45 | | • | 2019 | 17 |
| | Castle Kendal | 500 | A beautifully finished compact floorstander with a decidedly forward but communicative sound. | 17,76,20 | • | 86 | 6 | 45 | | • | 2204 | 17 |
| | Castle Severn 2 | 539 | Carbon fibre cone gives lovely, subtle midband but treble is a bit dull and bass a bit thumpy | 21,84,25 | • | 87 | 8 | 30 | • | | 2120 | 17 |
| | Castle Avon | 730 | Lovely box and lovely voices from carbon-fibre composite cone | 22,91,28 | • | 85 | 8 | 22 | • | | 1909 | 16 |
| 1 | Castle Harlech | 880 | Handsome big-sounding floorstander, great value and dynamic midrange | 20,96,33 | • | 88 | 8 | 28 | • | | 1820 | 16 |
| | 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 | • | | 1078 | 13 |
| | Celestion 12i | 119 | Not without virtue, but the relentless enthusiasm and mid-band colorations can become wearing | 19,31,21 | | 88 | 6 | 45 | | • | 2254 | 17 |
| 1 | Celestion 23i | 300 | Cosmetically flawed, but the bottom end has fine get-up-and-go, and works well with dance tracks | 24,86,27 | • | 89 | 6 | 30 | • | | 2200 | 17 |
| | Celestion A1 | 899 | Rich, warm and laid-back, but a true quality sound; lovely build | 24,41,35 | | 88 | 6 | 25 | • | | 1910 | 16 |
| | Celestion A2 | 1500 | Full scale, big sound from ultra-elegant floorstander. Smooth and slightly laid back presentation | 24,93,39 | • | 89 | 6 | 22 | | • | | 18 |
| | Cerwin-Vega VS10 | 350 | Not very refined but extremely ballsy; these rock boxes have no shortage of gung-ho | 33,70,29 | • | 95 | 6 | 37 | • | | 1758 | 15 |
| | Chario Syntar 100 | 249 | Pretty with a pleasantly easygoing balance, but not the most communicative or exciting sound around | 18,32,27 | | 87 | 6 | 45 | • | | 2020 | 17 |
| 1 | Chario Hiper 1000 | 300 | Classy looking stand mount has a sweet, easygoing sound with fine midband voicing | 18,35,28 | | 87 | 4 | 45 | • | | | 18 |
| | Chario Constellation Lynx | 550 | Beautiful near-miniature is let down by a midband too laid back for its own good. | 20,36,26 | | 87 | 3 | 40 | • | | | 19 |
| | Chario Academie | 1650 | Pricey Italian stand mount, has high class sound and appearance. Solid walnut enclosures | 25,40,31 | | 84 | 8 | 40 | • | | | 18 |
| | Chario Academy Millennium 2 | 2,100 | Price includes stands. A showy speaker that lives up to its own hype | 22,53,35 | | 90 | 4 | 55 | • | | | 19 |
| | Dali 606 | 400 | A big bruiser at a tempting price. Sounds refined and polite, but also packs some punch | 22,97,32 | • | 91 | 4 | 25 | • | | 2121 | 17 |
| - | Dali Royal Menuet MkII | 400 | Classy sub-miniature with a beautiful box and fine ingredients, but a little lacking in subtlety and excitement | 16,26,18 | | 87 | 3 | 50 | | • | | 19 |
| | Dynaudio Audience 5 | 400 | Follows the Dynaudio tradition for fine midband transparency, but the overall timbre is a bit thin | 20,31,26 | | 85 | 4 | 40 | | • | 2205 | 17 |
| - | Dynaudio Audience 40 | 400 | Classy engineering content creates a winning combination of neutrality, dynamic range and involvement | 17,28,25 | | 87 | 4 | 40 | • | | | 19 |
| 1000 | Dynaudio Audience 50 | 577 | This stand-mount doesn't look big, but sound quality can match many models at twice the price | 20,33,25 | | 86 | 4 | 30 | • | | 2122 | 1 |
| - | Dynaudio Contour 1.8 Mkll | 1,842 | Wonderful voice-band delicacy and loads of deep bass from a very elegant and compact box | 21,95,29 | | 85 | 4 | 20 | • | | 1986 | 1 |
| | Eltax Liberty 3+ | 150 | Bright, bassy, laid back and attractively evenhanded, but dynamically challenged. Big box for your dosh | | | 86 | 4 | 25 | • | | | 18 |
| - | Eltax Linear Response | 249 | A curiously dumpy shape, but smooth, laid-back performer is easy on the ears, with fine tonal accuracy | 25,35,32 | | 85 | 4 | 40 | • | | 2201 | 1 |
| - | Epos ES12 | 499 | High quality luxury stand-mount has great midband and stereo imaging | 20,38,25 | | 85 | 8 | 45 | • | | 1823 | 1 |
| - 54 | Epos ES14 | 675 | Substantial stand-mount delivers delightful midrange focus and delicacy with good bass control | 23,49,29 | | 87 | 8 | 25 | • | | | |
| - | Epos ES25 | 1,655 | Handsome floorstander with a rather uneven and bass heavy balance | 24,90,35 | • | 88 | 6 | 22 | • | | 1346 | 1 |
| - | Faraday Siren | 445 | High mass concrete cabinet is let down by imbalance of ageing driver combination | 25,27,46 | | 90 | 4 | 48 | • | | | |
| - | Gale 2i | 140 | Unspectacular sound and appearance fail to help this solid little miniature stand out from the crowd | 22,40,27 | 100 | 88 | 7 | 40 | | • | 2021 | 1 |
| - | Genexxa Pro | 160 | Terrific treble and upper-mid but coloured and cuppy lower-mid and bass. A mixture of genius and grot. | 14,27,14 | | 86 | 8 | 90 | 700 | • | 2255 | 1 |
| - | GLL Imagio IC130 | 500 | Lots of speaker for the money, but sound is decidedly dull and shut in | | • | 88 | 4 | 20 | • | | 1824 | 1 |
| | Heybrook Prima 2 | 159 | Great openness, speed and timing. Sounds fresh and vital, though sometimes lacks scale and weight | 20,29,18 | | 87 | 6 | 50 | 102 | • | 2256 | 1 |
| | Heybrook Heylette B | 200 | Attractive traditional-style near-miniature with classy main driver now has fine overall balance to match | 19.5,30,22 | | 88 | 4 | 45 | • | | 2230 | 1 |
| - | Heybrook Heylios | 389 | Great all-round performance in a pretty package at a sharp price | 24,36,27 | | 87 | 6 | 25 | | | 1912 | 1 |
| - | Heybrook Heylo | 439 | Good vocal reproduction, but sounds thin and bass seems an afterthought | 23,73,19 | • | 88 | 8 | 30 | • | | 1658 | 1 |
| - | | | | | • | | | 45 | | | 2126 | 1 |
| | Heybrook Ultima | 649 | Has the bass wallop to justify its dual hi-fi/home cinema roles, but doesn't excite | 22,97,29 | | 89 | 6 | 45 | • | | 2120 | |

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|---------------------------|---------------------|--|---|---|---|---|---|--|--|---|--|
| HI-F | | Loudspeakers | SENSITIVITY (| PEDAN (db/W) | SS FRO | FREEDM (H. | CLOSE | FACT. | ISSUE SBACK N | NUMBER O. | |
| DUCT | (£) | COMMENTS | V | V | V | V | V | V | | V | V |
| rook Octet | 1800 | Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband | 24,97,31 | • | 90 | 6 | 25 | | • | | 18 |
| ty Delta 60 | 700 | Striking and massive floorstander, lots of speaker for the price, but seems a victim of its own complexity | 16-29,115,41 | • | 90 | 4 | 25 | • | | | 18 |
| y Reference 1i | 150 | Although not to our tastes, this is a competent speaker, and decent material value | 20,34,20 | | 89 | 6 | 50 | • | | 1403 | 14 |
| BX100A | 350 | Offering 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 | 15 |
| 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 | 15 |
| Cornet 195 | 350 | Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractively | 20.5,91,31 | • | 90 | 3 | 26 | • | | | 18 |
| 477A | 500 | Very prettily styled, but build and sound quality are disappointing at the price | 19,77,28 | • | 88 | 4 | 40 | • | | 1549 | 13 |
| .507A | 700 | Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch | 22,94,37 | • | 88 | 3 | 40 | • | | 2126 | 1 |
| X2 | 250 | Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm | 22,40,27 | | 87 | 8 | 40 | • | | 2022 | 1 |
| 20 | 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 | 13 |
| VA1500 | 700 | A distinctive Pro-style bi-radial hom tweeter, with a fun sound, enlivened by a juicy bass thump | 17.5,51,31 | | 86 . | 8 | 40 | • | | 2127 | 17 |
| 40 | 1,000 | Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance | 30,65,31 | | 88 | 4 | 23 | • | | 1976 | 10 |
| 1312 II | 1,000 | Crude but startlingly effective dynamics. The original party animal knows just how to rock 'n' roll. | 36,60,30 | | 94 | 4 | 25 | | • | | 19 |
| VA 2100 | 1,250 | Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness | 37,114,52 | • | 91 | 8 | <20 | • | | | 18 |
| .90 | 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 | 14 |
| X70 | 550 | Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble | 26.5,94,30 | • | 91 | 4 | 33 | • | | | 18 |
| ab Spectral 909.1 | 1,375 | Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness | 27,107,35 | • | 90 | 4 | 20 | • | | | 18 |
| ab Tantal 515 | 495 | Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript | 20,94,26 | • | 92 | 5 | 32 | • | | | 18 |
| ab Mezzo Utopia | 7,250 | Looks good and sounds even better. A genuinely big speaker with fantastic coherence | 35,115,47 | • | 92 | 4 | 30 | • | 1000 | | 18 |
| in Watts JH400 | 565 | Piano-finish hexagon has controversial sound, with uneven balance but delightful mid | 28,38,21 | | 86 | 8 | 50 | | • | | 10 |
| Mini Monitor | 60 | Ultra-cheap miniature works well in a limited way | 18,27,17.5 | | 86 | 8 | 50 | | • | 1781 | 15 |
| Gold Monitor | 80 | More informative than Mini Monitor — but fiercer too | 18,27,17.5 | | 86 | 8 | 50 | | • | 1782 | 15 |
| ML510 | 130 | Lots of good-quality speaker for the price, but not an ideal match for cheap budget components | 20,34,22 | | 88 | 5 | 50 | • | 300 | | 16 |
| ML710 | 230 | Good material value but disappointingly uneven bass — check out the 510s instead | 20,88,30 | • | 88 | 5 | 40 | • | | 2202 | 1. |
| ML910 | 330 | Loads of speaker for the money, plenty of headroom and loudness capability, but sounds dull | 23,104,30 | • | 91 | 4 | 43 | • | | LLUL | 18 |
| ML1010 | 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 | | | 2031 | 1 |
| | *** | 100 - 0000 00 | 19,32,21 | | 87 | 6 | 55 | • | | 1572 | 1. |
| Ruby 1 | 400 | Very pretty but pricey luxury metal-cone miniature has good, if slightly edgy balance | 22,94,26 | • | 88 | 8 | 25 | • | | 2132 | 1 |
| Ruby 4 | 1,000 | Twin metal-cone main drivers improve the dynamic performance and bass extension, with little sacrifice | - | | - | | 50 | | • | 1783 | 15 |
| Coda 7 | 129 | Lovely open voice reproduction, but bass could be tauter; build tougher | 18,30,23 | | 88 | 6 | - | - | | | 15 |
| Coda 8 | 189 | Outstandingly well-balanced, bass is deep but a little vague | 20,32.5,29 | - | 86 | 6 | 28 | - | | 1784 | _ |
| Q15 | 200 | Beautifully balanced and voiced stand-mount, but a potentially tricky amplifier load at high frequencies | | | 90 | | 30 | | • | 1705 | 18 |
| Coda 9 | 299 | Uneven budget 3-way floorstander with poor bass definition | 20,86,28 | • | 89 | 6 | 30 | • | | 1785 | 15 |
| RDM One | 499 | Cute and tiny, nice midband but lack of bass warmth and weight | 23,30,24 | | 88 | 6 | 70 | - | • | 1913 | 16 |
| Q65 | 799 | Dumpy-looking three-way has loads of bass and a laid-back midband; goes loud but lacks poise and impact | 23,95,31 | • | 92 | 2.5 | | • | | | 19 |
| RDM Three | 1,500 | Definitely a speaker aimed at long-term satisfaction rather than immediate impressiveness. Nice | 24,100,27 | • | 90 | 4 | 40 | • | | 0.000 | 18 |
| Reference Model 2 | 1,599 | Classy, large floorstander that has massive headroom and clean mid-to-treble, but limited deep bass | 23,103,34 | • | 89 | 4 | 30 | • | 200 | 1987 | 1 |
| KT2 | 700 | Chunky floorstander has tacky finish but whopping sensitivity and a very involving, (if characterful) sound | 23,89,34 | • | 94 | 4 | 33 | | | | 18 |
| KT3 | 1,200 | Super-high-sensitivity, hefty floorstander sacrifices smoothness for dynamic realism | 25,95,36 | • | 95 | 4 | 28 | • | | 2133 | 1 |
| vick Audio Aria II | 379 | Confident and dynamic sound, if a little crude and shut in | 21,42,24 | | 89 | 8 | 20 | | | 1405 | 14 |
| vick Audio Torino | 999 | Good value, lively contender with distinctive styling. Goes loud and deep but could be smoother | 18-26, 93,28 | • | 90 | 4 | 20 | • | | 1977 | 16 |
| Kan | 295 | Great bass discrimination from size, ensuring a very informative, if slightly shut in experience | 19,31,19 | | 86 | 4 | 45 | | • | | 18 |
| Keilidh Passive | 750 | Stunning timing and coherence, and awesome bass drive | 20,83,28 | • | 87 | 4 | 22 | | • | 1552 | 13 |
| Kaber Passive | 2,000 | Dry, bright balance emphasises dynamics and transients, but can sound unforgiving | 20,90,28 | • | 87 | 4 | 25 | | • | | 1 |
| g Voice Auditorium | 1,500 | Pretty, compact floorstander has wonderful coherence, high sensitivity and fine dynamic integrity | 21.5,98,29 | • | 91 | 4 | 25 | • | | | 18 |
| nat Vector 77 | 450 | Tall, dark and a lot of speaker for the money. Beautiful balance, but lacking in subtlety and transparency | 22,115,29 | • | 89 | 5 | 30 | • | | | 18 |
| nat Vintage 720 | 1,200 | Slightly crude in some respects but lots of heart, fine scale, decent dynamic coherence and integrity | 29,113,32 | • | 88 | 4 | 20 | • | | | 18 |
| ion 700 | 130 | A lot of speaker for the money. Good bass weight and extension and goes loud with ease | 18,34,26 | | 87 | 8 | 40 | | • | 2257 | 1 |
| ion 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 | 55 | | • | | 10 |
| ion 771 | 170 | Beautiful stand-mount miniature has a delightfully well balanced and voiced sound, and real wood finish | 17,31,22 | | 86 | _ | 45 | | • | | 18 |
| ion 750LE | 250 | Fabulous cosmetics and a great midband carry the day, though size will out and bass is inevitably limited | 17,28,27 | | 86 | 7 | 45 | | • | 2203 | 1 |
| on 733i | 330 | New tweeter gives a more open sound; a good all-rounder that doesn't sound as big as it looks | 20.5,88,30 | • | 88 | 8 | 45 | • | | 2027 | 1 |
| ion 774 | 500 | Gorgeous floorstander is an entertaining communicator, despite some balance oddities (bright treble) | 18,95,31 | • | 90 | 4 | 40 | • | | 2021 | 18 |
| | | A beautifully judged compromise in the art of combining presentation with a decent sound | 20,90,25 | | 89 | 8 | 40 | | | 2123 | 1 |
| ion 752 Freedom | 578 | | | | _ | - | | • | | | - |
| ion 753 Freedom | 798 | Great styling. New, more restrained tweeter reveals fine midband dynamics Tall but occopying the place of the property of the | 21,90,31 | • | 89 | 4 | 40 | | | 1914 | 1 |
| ion 754 Freedom 5 | 1,298 | Tall but exceptionally elegant floorstander gives fine midband projection; goes loud but limited deep bass | 22,111,31 | • | 88 | 4 | 40 | • | | 1981 | 1 |
| itor Audio Monitor 3 | 400 | An exceptionally discreet floorstander; sonically uneven, but capable of fine results | 16,91,21 | • | 88 | 5 | 30 | | • | 2032 | 1 |
| itor Audio Monitor 4 | 500 | An oddball balance but an entertaining sound, and a good looking real-wood-box at a realistic price | 20,87,24 | • | 84 | 6 | 23 | • | 100 | 2210 | 1 |
| itor Audio MA700 PMC | 600 | Good-looking luxury compact with all-metal diaphragms: lovely midrange, but occasionally edgy | 22,35,26 | | 89 | 8 | 45 | • | | 1661 | 1 |
| itor Audio 702PMC | 700 | A good all-round stand-mount with intimate midband focus | 20,40,25 | | 87 | 8 | 30 | • | | 2128 | 1 |
| itor Audio MA703 PMC | 800 | Lovely but pricey floorstander has up-front, coherent, 'shiny' sound | 20,89,27 | • | 88 | 8 | 50 | • | 120 | 1826 | 1 |
| itor Audio Studio 12 | 1,000 | A real looker, but sound and content are a bit on the small side for the price | 17,92,20 | • | 90 | 8 | 28 | • | | 1349 | 1. |
| itor Audio 705PMC | 1,400 | Beautifully finished compact floorstander with fine midband coherence, but limited bass and top end | 20,94,28 | • | 89 | 4 | 25 | | • | | 1 |
| daunt-Short MS812 | 100 | Quirky styling and a very laid back presence, but great musical integrity and solid value for money | 20.5, 42, 25 | _ | 88 | 5 | 44 | • | | 100 | 1 |
| cal Technology Kestrel SE | 300 | Brighter and drier-sounding than the standard Kestrel (and not the better for it) | 20,84,19 | • | 84 | 5 | 50 | • | | 1915 | 1 |
| ical Technology Harrier | 400 | Very pretty package, good measured performance and even sound. Sensitivity is low, and dynamics limp | 25,80,23 | • | 86 | 8 | 25 | • | | 1663 | 1 |
| cal Technology PM15 | 450 | A subtle, understated but very involving example of the 'classic' luxury-finish compact standmount. | 20,41,27 | | 88 | 5 | 38 | | | | 1 |
| cal Technology Condor | 1,000 | Lots of clever ideas in a floorstander, which places transparency and smoothness ahead of dynamic drama | 25,91,23 | • | 85 | 4 | 28 | • | | 2134 | 1 |
| ical Technology Falco | 680 | Big speaker has a big but also surprisingly smooth and civilised sound. Fine material value too | 33,117,30 | • | 89 | 4 | 22 | • | | | 1 |
| n Intro | 660 | Great dynamic range and info retrieval, but thin, lacks warmth | 24,89,27 | • | 89 | 6 | 30 | • | | 1916 | 1 |
| n Credo | 1,060 | Involving sound, but rather forward and cold. Good clarity, but some coloration and a lack of richness | 24,89,30 | • | 88 | 8 | 28 | • | | | 1 |
| n SBL Passive | 1,970 | Lively and punchy – smoother but more upfront than before | 27,89,27 | • | 88 | 6 | 25 | | • | 1352 | 1 |
| Critique 2 | 445 | Contemporary standmount has a clean, crisp sound with lovely natural midband voicing | 22,32,24 | | 86 | 6 | 50 | | • | | 1 |
| Mystique Mk2 | - | | | • | | | - | | | 2211 | 1 |
| Petite II/Gravitas | | | | | | _ | - | | | | 16 |
| ra Prima | | | | | - | _ | | • | - | .500 | 19 |
| Mystiq Petite II | ue Mk2 /Gravitas | ue Mk2 575 /Gravitas 2,000 | ue Mk2 575 This elegant package delivers a fine overall sound quality, some might find the top end too insistent /Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound | ue Mk2 575 This elegant package delivers a fine overall sound quality, some might find the top end too insistent 20,86,18 /Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 | ue Mk2 575 This elegant package delivers a fine overall sound quality; some might find the top end too insistent 20,86,18 • (Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • | ue Mk2 575 This elegant package delivers a fine overall sound quality, some might find the top end too insistent 2,086,18 85 /Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 85 | ue Mk2 575 This elegant package delivers a fine overall sound quality, some might find the top end too insistent 20,86,18 85 6 /Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 85 6 | ue Mk2 575 This elegant package delivers a fine overall sound quality; some might find the top end too insistent 20,86,18 • 85 6 23 (Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 | ue Mk2 575 This elegant package delivers a fine overall sound quality; some might find the top end too insistent 20,86,18 • 85 6 23 • Caravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • 25 | ue Mk2 575 This elegant package delivers a fine overall sound quality; some might find the top end too insistent 20,86,18 • 85 6 23 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth and ribbon tweeter gives | ue Mk2 575 This elegant package delivers a fine overall sound quality; some might find the top end too insistent 20,86,18 • 85 6 23 • 2211 /Gravitas 2,000 Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound 23,105,40 • 85 6 25 • 1988 |

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| ļ | | | | SENSITIVITY (| / Carlo Carlo | S FRO | | | FACT TO W | all de la constant de | NUMBER NO. | 2 |
|---|---|----------------|--|----------------------------------|---------------|--------|---|----------|--------------|---|---------------|-----|
| | PRODUCT Origin Live Conqueror | (E) 1,650 | COMMENTS Chunky floorstanding three-way has lovely cabinetwork and lively sound, but limited deep bass | 24,94,27 | • | 88 | 8 | 30 | | | 1989 | 167 |
| | PMC TB1S | 430 | Pro-audio version of TBI | 20,41,30 | | 87 | 6 | 40 | • | | 2207 | 177 |
| | PMC TB1 | 482 | A classy, laid-back performer that likes going loud and loves the bass guitar | 20,40,31 | | 87 | 8 | 45 | • | | 1830 | 160 |
| | PMC LB1 | 935 | Delightful smoothness and transparency, though bass and treble are both limited | 18,53,25 | | 89 | 4 | 33 | • | | | 110 |
| | PMC AB1 | 1,496 | Lovely panel-like transparency, slightly shut-in balance, needs a big room | 26,79,43 | | 89 | 6 | 22 | • | | | 114 |
| - | Polk LS50 | 800 | No enthusiast tweaks here, but powerful and beautiful balance | 27,83,29 | | 89 | 8 | 25 | • | | 1155 | 13 |
| - | Polk RT16 Polk LS70 | 799 | Bass rich, lively and powerful, but suspect top end; big and not very pretty | 22,105,39 31,94,37 | • | 91 | 8 | 22 | • | | 1831 | 160 |
| | Proac Response 2.5 | 1,200 2,700 | High sensitivity, but balance has too much midbass boom; mid-top is laid back For aspirant high-enders looking for seriously good boxes, this speaker should be first port of call | 22,107,25 | • | 86 | 8 | 30 | • | | 1457 | 149 |
| | QLN Signature | 1,000 | Attractive pyramidal stand-mount with heavy, laid-back balance but remarkably unboxy sound | 27,37,36 | • | 83 | 4 | 25 | • | | 1737 | 167 |
| - | Quad ESL-63 | 3,450 | Classic electrostatic lacks punch, but has strengths some can't live without | 66,93,27 | • | 86 | 8 | 34 | • | | - | 60 |
| | Rega Kyte | 198 | Has splendid timing and coherence, sounds very explicit and informative | 19,31,19 | | 87 | 8 | 50 | | • | | 114 |
| | Rega EL8 | 298 | Kyte drivers in compact floorstander give more bass but less coherence | 17,72,20 | • | 86 | 8 | 55 | | • | | 12: |
| | Rega ELA Mk II | 498 | Pretty and smooth, the latest incarnation has a superb midband and excellent communicative skills | 30,80,20 | • | 87 | 8 | 40 | • | | 1578 | 139 |
| 40,00000 | Rega XEL | 1,040 | Looks and sounds great: balance bright but even, with delightful coherence and timing | 20,82,30 | • | 89 | 6 | 40 | • | | 1083 | 132 |
| - | Rehdeko RK 115a | 1,700 | Single-driver system has limited bandwidth and obvious coloration, but wondrous dynamic coherence | 34,42,27 | | 95 | 8 | 55 | 1 | • | 1982 | 16 |
| | Revolver Colt | 139 | A good all-rounder, if a little bland, and excellent value for money | 30,19,22 | | 88 | 6 | 48 | • | | 1407 | 148 |
| - | Revolver 250 | 250 | A nice price for a floorstander, but over-bright sound balance has potentially fatiguing consequences | 21,85.5,25 | • | 87 | 8 | 22 | • | | 2023 | 170 |
| | RMS Revelation Series 1 | 1,299 | Innovative metal-box compact with integral port/stand – clean with good timing but very laid-back balance | 20,99,24 | • | 81 | 8 | 22 | • | | 1983 | 16 |
| | Rogers dB101 Roksan ROKone | 100 595 | This shapely sub-miniature is fast and agile but lightweight and forward: great voices; lacks bass Large stand-mount is musically very communicative if a little coloured | 20,26,20 21,45,33 | | 88 | 6 | 45 30 | | • | 2024 1834 | 160 |
| į | Roksan Ojan 3 Black | 795 | Squat, stylish and black, great bass extension and somewhat uneven balance | 28,76,46 | • | 88 | 8 | 20 | • | | 1082 | 13: |
| | Roksan OJ3X Black | 995 | Innovative low-line, 2-way floorstander with decoupled tweeter; great bass and fine dynamic range | 28,79,46 | • | 84 | 8 | 20 | • | • | 1979 | 16 |
| Ì | Royd Minstrel | 275 | Not much wellie or loudness but fine coherence and timing; a bit bright | 18,69,12 | | 86 | 8 | 30 | | | 1167 | 13 |
| 7 | Royd Doublet | 485 | Great value compact floorstander: lively and very informative, if a little uneven | 18,93,19 | • | 90 | 4 | 28 | • | | 1835 | 160 |
| | Royd The Sorcerer | 595 | Extremely musical and communicative speaker that's fun to listen to. Aesthetics could be better, though | 20,31,18 | | 86 | 8 | 35 | • | 17.00 | 1000 | 139 |
| | Royd Abbot | 695 | Dynamic and fine transient qualities are hampered by a rather coloured mid-forward balance | 20,81,30 | • | 90 | 8 | 43 | • | | | 118 |
| 1 | Ruark Epilogue | 269 | Beautifully finished miniature with a lively balance and plenty of charm; best suited to smaller rooms | 17,29,23 | | 87 | 8 | 47 | | | | 183 |
| | Ruark Sceptre | 599 | 'Traditional' cabinetwork with classy veneer and shiny gilt fixings, hampered by rather wayward sound balance | 21,38,31 | | 87 | 8 | 40 | • | | 2129 | 174 |
| | Ruark Talisman II | 749 | Less ideologically committed than some, strength lies in fine all-round coherence | 23,84,32 | • | 88 | 8 | 30 | • | | | 118 |
| | Ruark Crusader | 1,599 | Elegant luxury three-way with wonderfully even-handed, if rather laid-back balance | 24,94,31 | • | 85 | 6 | 22 | • | | 1990 | 167 |
| - | Ruark Equinox | 1,849 | The primary strength of this speaker is its ability to vanish behind the music | 25,88,34 | • | 88 | 6 | 45 | • | | 1227 | 140 |
| - | Ruark Excalibur | 7,000 | A big handsome speaker with a big, laid-back, but open sound, rocking bass and loads of headroom | 30,125,53 | • | 90 | 4 | 30 | • | | | 186 |
| - | SD Acoustics SD3R | 649 | SD3 has the agility and charm of a quality miniature, good bass and low sensitivity | 20,38,30 | | 87 | 8 | 25 | • | | 1001 | 100 |
| The second second | SD Acoustics SD5 Sequence 400 | 1,549 | Bass suspect but forward midband is delightfully smooth. Has ribbon tweeter Clever hang-on-wall panel is well voiced, though bass isn't too great | 20,110,30 | • | 88 | 8 | 30 45 | • | • | 1081 | 132 |
| | Shahinian Arc | 329 1,875 | Occasionally wonderful, small, floorstanding omni directional design: bright but coherent and revealing | 25,100,7 35,69,25 | | 88 | 6 | 24 | • | | 1917 | 164 |
| - | Silverado Raider | 695 | Beautifully built audiophile compact: neutral if bright, tough work for amps | 20,40,25 | | 83 | 3 | 30 | | • | 1918 | 16 |
| - | Snell K.5 | 795 | Classy AV-ready stand mount is very solidly engineered. Sound is neutral but lacks excitement | 22,46,30 | | 87 | 6 | 25 | • | | 1510 | 190 |
| | Spendor 2030 | 599 | Discreet slimline floorstander with delicately coherent, laid-back sound | 18,89,27 | • | 87 | 8 | 30 | • | | 1836 | 160 |
| | System Audio 1130 | 499 | Super-slim, super smooth, involving experience, but not ideal if you like your bass deep and loud | 3,100,21 | • | 89 | 4 | 43 | • | | | 183 |
| | System Audio 1150 | 749 | Pricey but persuasive, sonic subtleties sneak up to confound a dodgy first impression. Super-slim styling | | • | 90 | 4 | 30 | • | 1 | | 190 |
| - | Tangent Monitor 5 | 80 | An uneven performer best suited to small rooms and generous volume levels | 17.5,27,18 | | 83 | 8 | 55 | | • | | 169 |
| *************************************** | Tangent Monitor 9 | 150 | Budget floorstander that motors when the music demands, with a solid bass but occasionally raw treble | 19.5,75.5,22.5 | 5 • | 90 | 6 | 45 | • | | 1926 | 16. |
| 100000 | Tannoy Mercury M1 | 120 | Sounds much bigger and expensive than it is. Solid, tuneful bass, wide open soundstage, excellent imaging | 17,30,20 | | 87 | 8 | 50 | • | • | 2259 | 179 |
| - | Tannoy Mercury M2 | 140 | A fine all-rounder with big box and deep bass for the price; could be sweeter and tighter | 20.5,38,28 | | 87 | 8 | 25 | • | | | 169 |
| | Tannoy R1 | 200 | Pretty little mini-monitor is smooth, well mannered, and polite to a fault, lacks dynamic expression | 17,30,22 | | 86 | 4 | 30 | • | | | 187 |
| 1000000 | Tannoy Mercury M3 | 230 | Good-looking floorstander; very neutral and evenhanded, with fine midband but weak dynamics and drive | 20.5,87,28 | • | 87 | 7 | 20 | • | | 2025 | 170 |
| | Tannoy Precision P20 | 400 | A creative and attractive design with time-aligned drivers, but the sound lacks sufficient excitement | 21,80,30 | • | 88 | 5 | 25 | • | | 2208 | 17 |
| | Tannoy D300 Tannoy D500 | 999 1,999 | Gorgeous-looking compact floorstander. And a fine all-round performer, too! Plenty of muscle and stereo, but short of poise and delicacy. Hard work for amps | 16-24,85 ,2 3 31,93,34 | • | 91 | 6 | 26 20 | • | 10000 | 1355 | 163 |
| 100 | Tannoy Westminster TW | 6,600 | These awesome horn-loaded speakers are remarkably controlled and impressive | large | • | 99 | 8 | 38 | | • | 1333 | C9: |
| | TDL Nucleus 2 | 130 | A very competent miniature. Could be smoother, but no serious flaws, and hence good basic value | 20,29,22 | | 88 | 4 | | | | | 18 |
| | TDL RTL3SE | 450 | A touch of boom'n'tizz might be to taste, but this is a lot of box for the money, with floor-shaking bass | 20,91,39 | • | 89 | 6 | 22 | • | | 2124 | 17- |
| | TDL CF100 Chiltern | 450 | Tiny but classy monitor has a laid-back balance, a fine midband and a surprising bass; but needs space | | | 85 | 8 | 50 | • | | | 18 |
| | TDL CF200 Cotswold | 650 | Fine midband tonality and dynamic range, but less happy towards the bandwidth extremes | 22.5,78,23 | • | 86 | 6 | 40 | | • | 2212 | 17 |
| | TDL T-Line 3 | 700 | Plenty of bass and treble, but broad midband is rather repressed | 20,97,38 | • | 86 | 8 | 20 | • | | 1921 | 16 |
| ĺ | Technics SB-M20 | 200 | Well-balanced with natural perspectives and fine midband coherence, but bass is a bit boxy and uneven | 20,32,23 | | 70 | 8 | 50 | • | | 1413 | 14 |
| | Technics SB-M500 | 450 | This model offers a clean, open sound, offset by midbass, heavy balance and low sensitivity | 25,78,37 | • | 85 | 8 | 25 | • | | 1666 | 15: |
| | Triangle Zephyr II | 599 | Loads of fun. Dramatic dynamics and righteous timing will give any hi-fi system a wake-up call. | 22,94,29 | • | 91 | 4 | 25 | • | | | 19 |
| | Totem Model One | 1,195 | Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size | 17,31,23 | | 87 | 4 | 28 | • | 3077 | | 12 |
| | Vandersteen 2Ce | 1,395 | Elegant staggered baffle contributes to a refreshing freedom from boxiness | 41,101,27 | • | 88 | 7 | 23 | • | | | 8 |
| | Wilson Benesch Bishop | 20,000 | Deep and even bass sets new standards for cleanliness and clarity; lovely open midband too | 23,161,561 | • | 89 | 4 | S20 | • | | | 18 |
| | Wharfedale Diamond 7.2 W'dale Diamond 7.2 Anniversar | 140 | A good-hearted, lively and up-front performer that's a little lacking in subtlety and smoothness Lively and exuberant, but a tad untidy with it; can sound a bit cold and hard | 19,29.5,23 19,29.5,24 | | 88 | 4 | 45 40 | • | | | 16 |
| - | Wharfedale Valdus 400 | y 200 200 | Very loud with a minimum of amplification, but the sound is thick and uneven, with a heavy upper bass | 25,80,26 | • | 91 | 8 | 30 | • | | 1414 | 14 |
| | Wharfedale Valdus 500 | 300 | These rock boxes can move plenty of air, albeit not as subtly as alternatives | 25,108,26.5 | - | 91 | 4 | 40 | • | | 1758 | 15 |
| | Wharfedale MFM-3 | 350 | Smooth broad midband gives fine voice rendition; bass could be better | 22,89,28 | • | 87 | 8 | 40 | • | The same | 1922 | 16 |
| | ZYP AI | 199 | Cute metal-cased micro-miniature is quite coloured but great fun | 14,22,12 | | 88 | | 30 | • | | IJEL | 11 |
| | SUBWOOFERS | 100 | sace metal cased micro miniatarie is quite coloured sut great full | 111- | | | , | | | | | |
| | Acoustic Energy AE108S | 299 | Lots of loud subwoofer for your money, though ultimately more film than music oriented | 50,42,43 | | | | 20 | | • | 2247 | 17 |
| | B&W ASW1000 | 499 | (Active) Very competently engineered all round, and goes (unnecessarily) very loud | 54,47,48 | | | | 20 | | • | 2248 | 17 |
| | B&W AS6 | 500 | (Active) Good material value with a fair amount of low bass from 100W design | 45,51,45.5 | • | | | 30 | | 1 | 1736 | 15 |
| | Celestion CS135 | 139 | Compact hideaway passive sub lacks deep bass for high sensitivity speakers | 52,19,34 | • | 86 | 8 | 45 | | • | | 128 |
| | Jamo SW600 | 530 | (Active) Has some neat styling touches and remote control, but deep bass is limited | 38,41,53 | - | 000000 | | 30 | | | 1736 | 15 |

June 1999 HI-FI CHOICE 119

SPECIFICATIONS Hi-Fi Loudspeakers SENSITIVITY (db/W) SIZE WARD (CM) FLOORSTANDER IMPEDANCE (Q) FACTSBACK NO. ISSUE NUMBER BASS FROM (RZ)
W(C)
(N) 4 JPW SW60 349 55.47.39 2249 179 A real heavyweight, sounds clean and transparent, if perhaps a little understated. Usefully flexible 20 KEF Model 30B 499 (Active) Commendably discreet with good sense of timing but limited extension 38.5,37,43 45 1736 154 KEF AV1 2 499 (Active) Works well, looks great, shakes the windows but costs a lot and is bulky 56.43.50 45 128 M&K \/X-7R 450 (Active) Baby of a big range; this active design delivers deep, plenteous bass but lacks transparency 35.25.37 40 1736 154 M&K MX70 (Active) Justifies cost and belies its diminutive size, with an agility that makes sense of the toughest material 25.5,46,35 25 2250 4 REL O50 375 2251 179 (Active) Genuinely deep, clean bass from an attractively compact and cost effective package 40 41 42 20



Stands & Supports

Hi-fi supports are more important than you might imagine — they can have very unsubtle effects on the sound of your system! There are two kinds of support: those for equipment and those (stands) for loudspeakers. Equipment supports keep vibrations and resonances from affecting electronic components, while speaker stands hold endosures stock-still and ensure they are at the correct height for your ears. Equipment supports may be rigid affairs fabricated from steel or more exotic materials; or they may have a form of suspension. Speaker stands come in a variety of sizes and styles to suit different models, and vary between open-frame and solid-pillar types. Always check with speaker and electronics manufacturers to see which supports they recommend.

TO SPECIFICATIONS KEY

- HEIGHT (cm): How tall is your support?
 TOP PLATE SIZE (cm): Dimensions of top surface on stand or equipment support.
- FILLABLE: Some speaker stands can be massloaded with sand or lead-shot to improve sound. • WELDED: The better stands and supports are
- welded together rather than just bolted. • NUMBER OF SHELVES: The number of tiers on an equipment rack or support.
- SHELF TYPE: The material from which shelves | H High End Review
- are made. Wood generally means Medium Density Fibreboard (MDF).
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback advert on the penultimate page of the
- ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.







Stands & Supports

SPECIFICATIONS TOP PLATE SIZE (C ISSUE NUMBER NUMBER OF SHELF TYPE

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|---|---------------------------|------|--|-----------|---|-------|------------|----------|---------|----|
| 5 | PRODUCT | (E) | COMMENTS | V | V | V | V 1 | | V | V |
| | EQUIPMENT SUPPORTS | | | | | | | | | |
| | Alphason GR 17/17-AS | 275 | Great looks but sound can be bettered at this price | 36 | 60,39 | | 4 | Glass | | 18 |
| R | Elemental Isotube x 4/Ref | 1199 | Blockbusting size and build. Super sound quality | 92 | 45,49 | (| 4 | Marb | | 1 |
| | Fi-Rax R4 | 399 | Lively, exuberant sound, slightly weak bass | | | | 5 | Glass | 1633 | 15 |
| 8 | Frameworks H500/H175 | 404 | Two-shelf stand and isolation platform combo in tubular steel — made a spectacular impression on audition | 70 | 52,34 | • | 3 | Glass | 1952 | 16 |
| | lxos Deadrock 704 | 250 | Looks unassuming but sound is full and inviting | | 46,39 | | 4 | Resin | | 18 |
| _ | Kudos Corinthian | 599 | True heavyweight that doesn't quite manage knockout sound | 91 | 46,38 | | 4 | Wood | | 18 |
| 8 | Mana Acoustics Ref. Table | 350 | King of its type: angle iron, chipboard and glass combine to make a significant difference to sound quality | 56 | 49,39 | | 1 | Glass | | 14 |
| | Mana 5 Tier Sound Table | 600 | Infinitely upgradeable. Persuasive and thrilling glass and angle-iron design that adds speed and bandwidth | 91 | 49, 39 | | 5 | Glass | 1633 | 1 |
| 2 | Optimum Int 2000 OPT490 | 299 | 25kg stand with shelves between variable-height tubular uprights. Sounds smooth and relaxed with sturdy bass | 50 | 60,40 | | 4 | Glass | 1953 | 1 |
| | Optimum Int 2000 OPT660 | 349 | Glitzy style isn't reflected in sound, which is wholesome | 82 | 60,52 | | 5 | Glass | | 1 |
| | Quadraspire Q4 | 250 | Easy to live with, tonally neutral | 54 | 40,49 | | 4 | MDF | 1633 | 1 |
| | Sound Organisation Z038 | 135 | Too lively and lacking order – but inexpensive | 50 | 84,40 | (| 5 | Wood | 1633 | 1 |
| 3 | Sound Organisation Z560 | 160 | Welded and bolted members give structural integrity. While performance is not up with the best, it's great value | 90 | 46,36 | | 5 | Wood | 1954 | 1 |
| 8 | Soundstyle X100 | 230 | Looks lovely, sounds lively but slightly bright | 64 | 49,28 | (| 9 4 | Glass | | 1 |
| | Soundstyle Select 6105 | 290 | Respectable sonics: structurally solid and smart | 78 | 43,36 | | 5 | Glass | 1633 | 1 |
| | Soundstyle Finewoods W105 | 320 | Veneered shelves clamped between tubular uprights. Delivers with classical material | 82 | 48,27 | | 4 | Wood | 1955 | 1 |
| 1 | Sound Organisation Z545 | 150 | Budget gem from the stalwarts of sound supports | 70 | 46,36 | | 4 | Glass | | 1 |
| | Stands Unique Sound Tower | 289 | Wooden uprights combine with glass shelves to provide a fresh, forward sound, but bass could be quicker | 81 | 72,42 | | 5 | Glass | 1633 | 1 |
| 1 | Target B5 | 175 | Free of colorations, fine grip and good value | 81 | 49,36 | | 5 | Wood | 1633 | 1 |
| 1 | Townshend Seismic Stand | 1245 | It's big, it wobbles and it's pricey. But this is the ultimate equipment support | 72 | 58,45 | | 3 | Wood | | |
| ١ | Wilson benesch Asside | 590 | Sounds even better than it looks. And it looks wonderful | 72 | 37,50 | | 4 | Wood | | |
| | SPEAKER STANDS | | | | | 1000 | | | | |
| | Alphason NC I | 45 | Filled single-column design without threaded spike holes, that's appropriate for non-critical applications | 40-60 | 16,16 | • | | | 1373 | 1 |
| | Alphason NCII | 85 | Tall, slim and elegant, though sound and value are unexceptional | 40-60 | 17,17 | • | 83 | | | 1 |
| | Alphason HDS | 85 | A reasonable stand with a smooth but rather bland sound balance. Good finish options. | 45-60 | 15.5,15.5 | • | | | | 1 |
| | Alphason Titan | 125 | Excels in the midband and allows voices to come across in a detailed and expressive fashion | 40-60 | 16,16 | • (| | | 1373 | 1 |
| | Apollo Olympus | 75 | A popular stand and a decent performer, but unremarkable by today's standards | 40-60 | 15,12.5 | • | | | | 1 |
| | Apollo AZ6 | 80 | Fine engineering value, but sound is unexceptional and top-plate small | 66 | 15,13 | • (| | | | 1 |
| 1 | Atacama BD21 | 55 | Good-looking and good value, but doesn't match the SE24's sound quality | 56 | 15,17 | • | | | | 1 |
| 1 | Atacama R724 | 150 | Atacama uses its market strength to deliver a superbly appointed product at a very reasonable price | 60 | 15,17 | | | 9 10 10 | | 1 |
| Ī | Atacama SE24 | 70 | Stands out from the budget crowd because of the consistency and overall quality of its performance | 61 | 1 | | | - 300 | 1373 | 1 |
| | AVF Tower 400 | 35 | Ridiculously cheap and much better than no stand at all | 54 | 17,20 | • | | | | 1 |
| | Black Box Speaker Stand | 797 | A strange and costly beast. Bass is a touch thick, but performance with synthetic music types is worthy of the price | 92-112 | 40 | - 100 | | NAME OF | | 1 |
| ľ | Custom Design R/S 300 | 70 | | 40.6-60.9 | 15.15 | 9 | | 10000 | 7,700 | 1 |
| | Elemental Isotube SZse | 599 | Stands of distinction, able to free the speaker's sound from its box in a way budget stands simply can't | 61 | Name and Address | | | | | 1 |
| | JPW HS1 | 120 | A purposeful stand, a touch dry-sounding but particularly strong with bass. Great for rock and dance music | 61 | CONTRACTOR OF THE PARTY OF THE | • | | | | 1 |
| ı | Kudos S50 | 100 | Better sound than the budget stands, particularly in low-frequencies | 60 | - | • | | The same | | 1 |
| | Kudos S100 | 270 | The best all-round stand around Probably | 63 | 15,21 | | | | | 1 |
| | Mana Soundframes | 125 | For use under floorstanders and equipment racks, these make music effortless and natural. Can be stacked | 5 | 10121 | | | | 1373 | 1 |
| ľ | Partington A-4 | 119 | An odd-ball stand with a sound that's sheer class. More open and focused than almost anything below £150 | 50-100 | 19,22 | | | | 1373 | 1 |
| | Revolver RS1 | 70 | A good blend of performance and appearance for the price | 53 | 18,18 | 1000 | | | | 1 |
| 1 | RMS/Stands Unique Vivus | 349 | Pricey carbon fibres give ultra-clean sound with exceptional voices | 50 | N/A | | | No. | | 1 |
| | Russ Andrews Torlyte | 599 | Subtle and musical-sounding stands, though a touch more 'pizazz' is need for Recommendation at this price | | 33.5,24 | - 100 | - | | | 1 |
| | Sound Organisation Z524 | 69 | A coherent-sounding stand with particular strengths in the midband, though quality drops at the frequency extremes | | 16,17 | | - | | | 1 |
| | Stands Unique HP | 220 | Real wood disguises high-performance tuned technology | 59 | 22,23 | | | | | 1 |
| | Target R1 | 280 | Truly high-mass four-pillar design with superb weight and speed, giving music delicious attack | 53 | 15,21 | | | Total I | 1373 | 1 |
| | Target TR60 | 68 | Lively, dynamic midrange and detailed treble from a less-than-audiophile-oriented, twin-column design | 60 | 15,15 | | | | 1373 | 14 |
| ٠ | raider thoo | 00 | every, whitehire midiange and detailed treble from a less-trializatiophilic-oriented, (will-column design | 00 | 13,13 | | | | 13/3 | |



HI-FI CHOICE ARCHIVE

NEED A BACK ISSUE OR COPY OF A PARTICULAR REVIEW? FIND OUT IN **OUR ARCHIVE, PAGE 129**





Tonearms

ess expensive tumtables are usually supplied with a matching tonearm (and often a 'starter' cartridge, too). However, hard-core vinyl fans should invest in a more expensive separate motor unit with specialist tone-arm — the only way to make the most of vinyl LPs. It is essential to achieve operational synergy between such components, so this is one area of hi-fi where the skills of a knowledgeable dealer are invaluable. The quality of a tonearm's construction and design affect sound quality significantly. There are three basic arm designs listed in the key, and each has strengths, but pivoted designs are the most popular, being usually the most practical and affordable.

KEY TO SPECIFICATIONS

 EFFECTIVE MASS: This relates to cartridge compliance. Generally high mass arms are suitable for low compliance cartridges and vice versa.

 PARALLEL TRACKING: An arm which allows the cartridge to track the disc in a linear fashion PIVOTED: Arms which allow the cartridge to

describe an arc as they traverse the record. • UNI-PIVOT: Pivoted arms with a bearing that allows movement in two planes

• EFFECTIVE LENGTH (CM): Length of arm

from bearing to cartridge mounting. ADJUSTABLE HEIGHT: Important for accurate cartridge set-up.

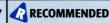
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H End Review

SPECIFICATIONS

UNI-PIVOT PIVOTED

BEST BUY





Conearms

EFFECTINE LENGTHON FACTSBACK NO. PARALLEI TRACKING EFFECTIVE MASS PRODUCT Kuzma Stogi Ref Large, solid and well-made arm, gives exceptionally clear sound with just a hint of brightness High 1.250 4 Linn Ekos 1,500 Superb, state-of-the-art design which builds significantly on predecessor's strengths Medium 229 67 Moth Arm 95 The ultimate budget arm? Refined, sweet, detailed and natural A Rega RB300 174 60 Despite its modest price it sets exceptional standards and could be used on many high-end turntables 4 Roksan Tabriz Basic 91 275 Targeted at the Xerxes, this is a good alternative to the Rega arm in many cases - a touch bright though SME Series IV R 60 983 Superb engineering and finish with a finely balanced sound, impressive stereo focus and low coloration Low 233 233 4 SMF Series V 1,461 Excellent in all respects, this arm arguably sets the standards for pivoted arms, regardless of price 60 Low



Tuners

TV has stolen radio's status as the foremost broadcast entertainment medium, but with its Radio Four plays and Radio Three music, the BBC still makes a potent case for audiophile reception equipment. For how much longer, under the cost-conscious Birtist régime, remains to be seen. Another new imponderable is the arrival of digital radio broadcasting, though reception apparatus is currently non-existent outside of the in-car market. These days tuners play second fiddle to hi-fi sources like CD, but in many ways they are a greater engineering challenge than digital equipment, and thus higher pricetags dearly equate to superior performance. High-quality, roof-mounted antennae are essential for audiophile listening, so factor them into your budg

ΤQ SPECIFICATIONS KEY

● WAVEBANDS: FM - (VHF), REMOTE CONTROL: Infra-M - MW, L - LW.

• PRESETS: Number of station quencies that can be stored. ● RDS: (Radio Data System) was originally designed for in-car applications. RDS tuners can identify and display the name of the radio station being received. traffic news and other

information about broadcasts

BEST BUY

red control handset supplied. SIGNAL STRENGTH METER: Indicates strength of signal from aerial - useful for aligning your 'twig' during

ROTARY TUNING KNOR: Experience has shown that this analogue throwback is ergonomically far superior to the • FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info. see the Factsback advertion the penultimate page of this issue. • ISSUE NUMBER: The issue

button-based approach

of Hi-Fi Choice in which an original review appeared. H High End Review

RECOMMENDED



Tuners

REMOTE CONTROL

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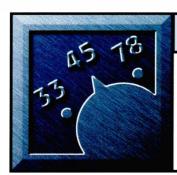
ONC. CONTRO FACTSBACK NO. ISSUE NUMBER PRESETS RDS

| STA | | | | - | | 4 | | | • | - | - 17 |
|-----|----------------------|-------|--|--------|----|---|------|---|---|-------|------|
| 2 | PRODUCT | (£) | COMMENTS | V | V | V | V | | V | V | |
| 4 | AMC T7 | 130 | Performance adequate but price is sharp, especially with remote control. Some hum | FM, M | 30 | | • | | | 1945 | 166 |
| 4 | Arcam Alpha 7 | 230 | Indifferent RF performance but a touch of audiophile sound quality with clean, strong signals | FM,M,L | 24 | | | | | 1946 | 166 |
| | Arcam Delta 280 | 300 | Fine sound quality marred by mild synthesiser whine; RF performance only average. Remote £60 extra | FM | 20 | | | • | | | 120 |
| 4 | Denon TU-425RD | 200 | A fine all-rounder with advanced RDS, good RF performance and decent sound. Remote extra | FM, M | 40 | • | | | | 1947 | 166 |
| 4 | Denon TU-1500RD | 250 | A well-balanced and clean sound with good bass and treble extension | FM,M | 40 | • | | | • | 57.63 | 184 |
| | Magnum Dynalab FT11 | 499 | All-analogue tuner: receives weak or tightly packed stations but loses out on noise and sonic neutrality | FM | 3 | | | • | • | | 184 |
| 4 | Harman/Kardon TU950 | 200 | Bulky but effective, delivering fine RF performance and good sound for the price | FM,M,L | 30 | | 1936 | | • | 1948 | 166 |
| 4 | Linn Kremlin | 2,600 | Controversially good sound at a very high price | FM | 80 | | • | • | | 1254 | 142 |
| 4 | Magnum Dynalab FT101 | 825 | Although fairly expensive given its minimum set of facilities, its excellent sound provided ample compensation | FM | | | | | | | 72 |
| B | Marantz ST-48 | 120 | A classic budget model which manages a performance only just behind much more expensive models. | FM,M | 60 | • | | | | | 184 |
| 4 | Micromega Tuner | 750 | Has digital output but even without the Micromega DAC, this provides exceptional sound quality. Looks good too | FM | 39 | | • | • | | 1810 | 157 |
| | Mission Cyrus FM7 | 400 | Open, generous soundstaging gives the music plenty of foundation, if a touch shut-in at the top | FM | 29 | | • | • | • | 1254 | 142 |
| | Musical Fidelity E50 | 300 | Sounds involving if coloured and with a subjectively larger-than-life presentation | FM | 20 | | | | | 1810 | 157 |
| | Myryad T-10 | 530 | A very smart unit which works well and offers good rhythmic drive and vitality, albeit at a price | FM | 20 | | | • | • | | 184 |
| 4 | Naim NAT01 | 1,730 | There may be better sounding tuners in the world, but we have yet to hear one | FM | | | | | | 1254 | 142 |
| | Pioneer F-504RDS | 250 | Cable-friendly with advanced RDS and excellent RF performance; slightly disappointing sound | FM,M | 40 | • | | • | • | 1949 | 166 |

June 1999 HI-FI CHOICE 121

E C T O R Y ESTE

CONTINUED SIG STRENGTH METER REMOTE CONTROL FACTSBACK NO. uners ISSUE NUMBER WAVEBANDS PRESETS 4 Pioneer F-504RDS Precision Lots of features, plus a sound that's low on noise and high on communication, adds up to a good value package FM.M 40 184 Roksan aspian 595 Neat facia with great ergonomics, but sound is not really any better than models at half the price FM 184 50 Rotel RT-935AX 160 Good ergonomics and sound quality at a realistic price, but limited features and RF selectivity FM.M 166 20 1950 Sony ST-SA3ES 250 Clean, lean presentation but needs a quality aerial to perform at its best FM,M,L 30 1810 157 Sony STS-B920S 180 A little hiss and image compression don't detract from the clean performance of this feature-packed tuner FM.M.I 30 184 Technics ST-GT350L Decent RF performance is offset by sound quality more typical of a mini/midi system 1254 142 130 FM,M,L 30 Thorens TRT2000 Not exactly neutral sounding, but nonetheless makes listening fun FM,M 1810 157 499 59



Turntables

Specialist turntables are at the heart of high-fidelity sound. CD players may offer ultra-low noise and a flat frequency response, but they can't match the dynamics and superlative rhythmical timing taken for granted by serious tumtable users. Less expensive tumtables are usually supplied with a matching tonearm (and often a 'starter' cartridge, too). Still better quality is found at higher prices among the separate motor units and tonearms. Because turntables are mechanical devices, designed to retrieve micron-small modulations engraved into vinyl, engineering quality is of paramount importance. This is also the reason why turntables cost as much as they do, and require the finest equipment support systems

SPECIFICATIONS

 MANUAL: You do all the work AUTO: The record player does all the work. ● SEMI-AUTO: You put the needle on, the turntable lifts it off at the end of the record. SPEEDS: In RPM to correspond with longlaying records or seven/12-inch singles.

 SUSPENDED SUBCHASSIS: Sprung suspension to minimise structural interference EXTERNAL PSU: Outboard power supply; generally indicative of higher-quality performance • SUPPLIED WITH ARM: Many turntables do

BEST BUY

not come with a tonearm fitted, but if this category is checked, the deck is already thus equipped. SUPPLIED WITH CARTRIDGE: If a turntable comes complete with arm and cartridge • FACTSBACK REFERENCE: The Factsback

Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback ad on the penultimate page of this issue • ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared. H High End Review

RECOMMENDED



Turntables

SUPPLIED WITH ARM SUPPLIED WITH CART SUSP. SUBCHASSIS EXTERNAL PSU FACTSBACK NO. SEMI-AUTO SPEEDS ISSUE NO. AUTO Clearaudio Reference Opulent beast tested with Souther TO-1 arm. Tends to gloss over detail, but can sound bold **DNM Rota 2** Tonally slightly bleached, but extracts detail like few others. Works well on its own table 33/45 144 5.600 1328 Dual 505-4 UK Consistent sounding and well isolated turntable. It is slightly lacking in oomph 33/45 103 Kuzma Stabi/PS 1.950 (Tested with Stogi Reference) Solid oak plinth; sound is very clear, detailed and extended 33/45 91 Linn LP12 Basik 4 1.100 Trails the full LP12 significantly, but pace, rhythm, timing etc still top rank 33 103 Linn LP12 Lingo 1.750 The classic reference is improved by the Lingo, but charming character remains 91 4 Michell Gyrodeo 875 Sweet and natural-sounding player, well matched to Rega RB300 arm 33/45 55 Michell Gyro SE A stunningly desirable combination of looks, solidity and sound make this a tempting turntable 33/45 190 Rather coarse-sounding deck that requires decent isolation and comes with a Rega RB300 arm Moth Kanoot 329 33/45 1907 164 No frills, just a first-rate, outstandingly natural-sounding deck that will last forever Notts Analogue Spacedeck/Arm 33/45 Pro-iect 2 Remarkably effective at the price, with decent timing and a generally well defined sound 4 Pro-ject 6/Sumiko 850 Don't think of this as a deck with a good arm, but as a scaled-down Oracle Delphi — it's that good 33/45 138 Rega Planar 2 214 A remarkable product at the price, surprisingly articulate and confiden 48 4 Rega Planar 3 274 Sounds musical in a balanced manner, needs decent isolation and suffers a little pitch instability 164 33/45 1907 Reson RS1 Supplied set-up and ready-tuned, this unconventional deck is packed with mid-band detail 4 Roksan Radius 3/Tabriz z Elegant-looking turntable with a tidy, ordered sound. Bright and breezy if a shade lightweight 33/45 159 SME Model 20.2A 4 863 Beautifully built, extremely neutral damped and suspended deck with superb sound. Inc V arm 33/45/7 186 Thorens TD166 VI/UK/RB Refined, solid sound with well-focused imagery; suitable for use with good MM/MC budget cartridges 33/45 Thorens TD2001 Balances convenience and sound well, but deck lacks detail and bass could be better controlled 33/45 159 Well Tempered Record Player !.850 Intriguing and challenging. Musically not ideal, but its limpid quality and lack of artificiality set standards 33/45 . 1180 136



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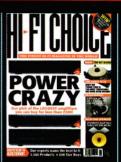
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- 1 Dial (0930) 110118, from the handset of your fax machine, which must be switched to 'tone'. You will be connected to an automated switchboard. The system works using a series of index numbers corresponding to individual reviews and features. which are printed in The Directory.
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3. VISIT OUR WEBSITE

The Hi-Fi Choice website holds copies of reviews from the past two years. It also offers a user-customisable search facility for specific products and price-points. In addition, there is a unique opportunity to swap hints, tips and gossip in our online 'chat' areas. Our site has been remarkably successful since its launch earlier this year, and is currently scoring approximately 405,000 hits per month, with a total of 90,000 page impressions. The site has no less than 6,700 unique users!

http://www.hifichoice.co.uk

4. ORDER A REVIEW REPRINT

If you are interested in an HFC review of an older component, and the back issue has sold out, we can send photocopies of old reviews to any UK address for a flat fee (inc. p&p) of £5.00 per review. You must know in precisely which issue the original review appeared; we are unable to search back issues for old reviews. Send a written request, enclosing a cheque made payable to Dennis Publishing Ltd, to: Hi-Fi Choice Reprint Service, Dennis Publishing Ltd., 19 Bolsover Street, LONDON W1P 7HJ. PLEASE NOTE: THIS SERVICE IS ONLY FOR OTHERWISE UNOBTAINABLE REPRINTS.

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- SEE PAGE 27 FOR DETAILS! -

THE JULY/AUGUST 1999 EDITION OF HI-FI CHOICE WILL BE ON SALE THURSDAY **JUNE 1999. DON'T MISS IT!**

HOW TO ENTER

Find the letters in the highlighted boxes within the crossword which form an anagram of a hi-fi related word, for you to decipher.

THE HI-FI RELATED WORD HIDDEN IN THE CROSSWORD IS:

Post this entry form to:

Hi-Fi Choice Competition (CHFC 906B) Bradley Pavilions, Bradley Stoke North, Bristol BS 12 OBQ

All entries must arrive by First Post, Thursday 24 June 1999.

Name Job Title

Company Name Address (inc postcode)

Day-time Telephone Number

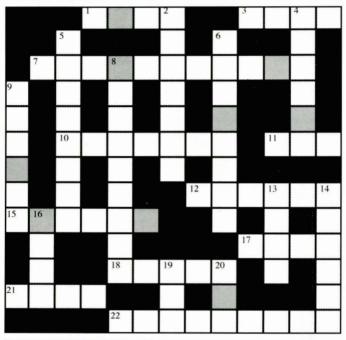
- ☐ Please tick here if you are under 18. ☐ Please tick here if you do not wish to receive further information on other products or services.
- Please tick one only of the following:
- ☐ Are you a current subscriber? OR
- ☐ Are you a regular reader? OR☐ Are you an occasional reader?
- Competition Rules

1) The Closing Date for the Reference

- Cable Competition is Thursday 24 June 1999.
- Winners of the competition will be judged from all correct entries submitted, and drawn at random after the Closing Date given in 1) above.
- 3) All winners will be notified by post.
- 4) The Editor's decision is final and no correspondence will be entered into.
- 5) The Reference Cable Competition is not open to employees of Dennis Publishing Ltd nor their suppliers, agents or associates.
- 6) We regret this competition is open to UK residents only.
- 7) No cash alternatives will be offered.
- 8) We reserve the right to substitute alternative prizes with equal value to these shown, in the unlikely event of stock being temporarily unavailable.
- 9) By entering the competition, you agree to be bound by the rules.
- 10) 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 906B

THE HI-FI CHOICE CROSSWORD

Test your hi-fi knowledge and win a complete set of Reference Cables worth almost £1,000!



THE CLUES

CLUES ACROSS:

- 1) Start regarding the Kyte loudspeaker's maker (4)
- 3) Something fish-y below treble and midrange (4)
- 7) Rendition of a Fase Evoluzione amplifier (11)
- 10) Magnum analogue tuner from a somewhat dynamic little laboratory (7)
- 11) Arrow-firer with a Wazoo amplifier (3)12) Sonic Frontiers integrated amp
- playing our national song (6) 15) Danish manufacturer of the Beat series in a hidden sentence (6)
- 17) They make an Intro to a speaker (4)
- 18) Acute company behind the
- MD-R3H CD/MD combo (5)
- 21) Flying insect gets the Kanoot turntable (4)
- 22) Alan meets a pharmacist creator of the Nexus CD player (9)

CLUES DOWN:

- 2) A serial about radio antennas (7, anag)
- 4) Two-channel sound from such a piece of equipment (6)
- 5) Digital audio specialists found at midday (8)
- 6) Gesture to the musicians on FM or AM (8)
- 8) Boundaries that follow a Sonic firm (9)
- 9) Can Rod name Johnson's hi-fi partner? (6, anag)
- 13) Phones the school boss for a private listening (4)
- 14) Get a Gamma amp in an instant (6)
- 16) Resound under the
- Beam PP-21 preamp (4)
- 19) Budget amp specialist in a tramcar(3, init)
- 20) Disturbed a rep before amps (3, anag)

WIN WIN WIN

Get your hands on a grand Reference Cables prize

Inleash your system's full high-end potential with a full set of top-of-the-range cables and interconnects. Ecosse Manufacturing is this month's generous prize-giver with a selection of superbly made top-notch, non-directional, monocrystal cables from the much respected Reference Cable company.

This tremendous, once-in-a-lifetime give-away comprises two sets of speaker cable: MS2.15, worth £338, and MS2.3, worth £238. Both come in 5m pairs for bi-wiring the tweeter and woofer respectively and are supplied terminated according to your requirements.

The impressive collection of interconnects comprises three 1m RCA to RCA pairs of: MS2 – recommended for connection between pre and power amplifier and worth £165; MA2 – recommended for connection between CD player and preamplifier – worth £155; and MD2 – recommended for connection between CD and DAC – worth £71.50.

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So, get your brain in gear, complete the form opposite and post it to us by Thursday 24 June for your chance to get wired and you could soon be reaping the musical rewards – for free!



AFTER SOLVING THE PUZZLE, UNSCRAMBLE THE LETTERS FROM THE HIGHLIGHTED BOXES TO SPELL OUT THE HI-FI RELATED PRIZE WORD.

HIGHLIGHTS OF NEXT MONTH'S ISSUE ...

AMPLIFIER MEGA TEST

Choice looks at some of the latest hot integrated amps from the likes of Arcam, Creek, Denon, Edmund Audio, harman/kardon, Marantz, Myryad, NAD, Pioneer and Yamaha. We put ten models in three price groups, from £170 to £400, through their paces.

SPEAKER CABLE

We all know that to get the best performance from your hi-fi components it is worth investing in some top-notch cables. Richard Black takes a Super Test look into the world of recalcitrant speaker cable from the likes of Audioquest, Cable Talk, Chord Co, Ixos, Kimber, QED, Nordost, Sonic Link, Straightwire and van den Hul.



SPINNING VINYL

A long awaited Super Test look at turntables and cartridges. Turntables come from the Michell, Pink Triangle, Pro-ject and Wilson Benesch stables, with six cartridges on test from Audio Technica, Dynavector, Lyra, Ortofon, Reson and Sumiko.

HIGH-END LOVELIES

Next month's combined July/August issue brings you high-end reviews on the KEF Maidstone and ProAc Studio 125 loudspeaker (pictured left), and features Krell's KAV500i monster integrated amp.

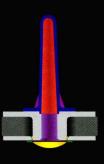
■ The July/August issue will be on sale from Thursday 17 June 1999.

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