# THE FINEST HI-FI MAGAZINE IN THE WORLD



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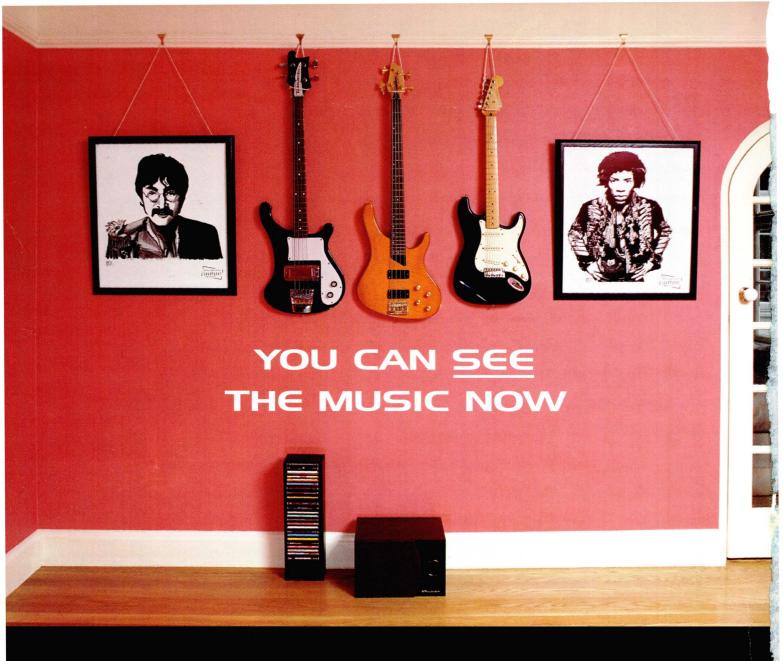






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Dennis Publishing Ltd, 19 Bolsover Street, London W1P7HJ . Company registered in England, number 1138891 • Entire contents of this issue © 1998 Felden Productions ISSN 09551115



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

## **EDITOR'S NOTEBOOK**

**Stan Vincent introduces this month's special gift!** Plus: has hi-fi shopping changed forever?

his month with *Hi-Fi Choice* you'll find a fantastic free gift: Car Hi-Fi Choice. This 12-page guide to car hifi has been produced in association with our friends at Sony, and is crammed full of essential information about the latest kit, how to buy it, and how to get the ultimate sound in your vehicle. If your idea of in-car entertainment is demisting the rear screen, you need to read this supplement. It'll be well worth your while if you enter and win the exclusive competition! (We regret that Car Hi-Fi Choice is only available with UK copies of Hi-Fi Choice.)

#### CONSUMER MADNESS

Since my column in HFC 182, the Monopolies & Mergers Commissions' Domestic Electrical Goods Order has come into effect. In case this is news to you, the Order aims to ensure that retailers are free to price certain electrical goods as they see fit. This concerns Hi-Fi Choice readers because one specified goods category in the Order is 'hi-fi systems'. (Others include TVs, VCRs, and camcorders, but exclude portable and car systems.) There are numerous legal complications, but the bottom line is simple. If you ring up Sony, Sharp, Kenwood or any other company which makes 'hi-fi systems', no longer can you obtain a Recommended Retail Price (RRP) from them, and nor can we, for publication.

In fact, hi-fi separates are exempt from the Order. But its terms are being applied by the big Far Eastern companies to all of their products, across the board.

From September 1, affected manufacturers are likely only to give retailers a trade price list. The retailers are free to set as high or as low a price as they desire. Shopping on the basis of a preset budget just got a whole lot more difficult.

For example, suppose there was a retail chain with branches all over the country. Suppose it took a CD player which would have had an RRP of £300 prior to September 1. Suppose it sold this player for two weeks only, in its remotest branch up in the Scottish Highlands, for £600. Suppose then that it opened up national distribution on this line, and dropped the price to £400.

It would be perfectly legal for the retailer to promote this as a discount bargain, £200 off. But it would still cost £100 more than the old RRP, and the consumer's only way of knowing would be to conduct an extensive programme of market research among competing retailers.

· Is this progress? I think not. It goes without saying, now more than ever, to heed that old warning 'buyer beware'. Still, perhaps it'll force people to trust their instinct, not just follow the herd mentality, when choosing what to buy.

#### MEASURED PERFORMANCE

As you will read in our CD Player Megatest (p74 onwards), we experienced problems with two samples of the Arcam Alpha 9 during our formal group test review. I hasten to add that Arcam had independently discovered the same problem at the same time, and has since changed the production-line manufacturing technique responsible. However, I would just like to explain why our Lab Report found no trace of the artefacts heard by Alvin and his listening panel. The explanation is that for administrative reasons, we did not lab-test the selfsame unit which served for listening, but another from the same batch. However, Technical Editor Paul Miller is now investigating the auditioned amp, and will report next month.

#### THIS MONTH'S EDITOR'S CHOICE

Editor's Choice is a new HFC award conceived to recognise the achievements of unusual or expensive hi-fi components.



#### LAVARDIN IT £3,200 p33

It's not often that our Consultant Editor Paul Messenger gets all worked up about an amplifier. It would be even more extraordinary if he threatened to abandon the trusty stack of Naim amps that have kept him in Watts for most of his long and illustrious career. However, like his saintly Biblical namesake, Paul has had a Road to Damascus experience. Listening to the Lavardin IT integrated amp has caused scales to fall off his ears. But what on earth can a 40-Watt, four-input integrated amp offer, that Naim's finest cannot match?

According to Paul, the secret lies in Lavardin's claim that so-called 'memory distortion' is the problem with many audio components. Lavardin claims that as electrons pass through solid-state silicon components, the latter retain a trace of their passing. Valve amps avoid this because they use electrons passing through a vacuum.

Whatever the explanation, the valve-meetstransistor sound of the IT has knocked Paul for six. This is news indeed, and merely for the shock-factor alone, the Lavardin IT has been selected as this month's Editor's Choice.

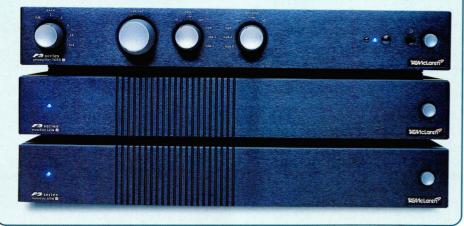


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## PHIL STRONGMAN

Once again, rare and classic tracks are found on new and shiny CDs. Shop and bop till you drop.



Can you name that tuner in one? p40





#### PAUL MESSENGER

Committed airwave fondlers beware. Digital radio is well and truly on its way, and Paul Messenger is far from impressed.

#### **1** JIMMY HUGHES

Home is where the hi-fi heart is, and with wooden floorboards, it'll be a lovely home at that.

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What's new and hot? Catch up on the top stories with Charlotte Ricca and Jason Kennedy.

#### **NEWS IN BRIEF**



#### ■ BOSTON ACOUSTICS has

announced details of the CR4 and CR5 Compact Reference Series loudspeakers. No taller than a hardback book they retail at £99.99 and £129.99. The CR4 (above) uses a 4.5" full-range driver, while the CR5 adds a 3/4" dome tweeter mounted within a 4.5" woofer.

**2** (01767) 641171

■ WHARFEDALE has launched a range of Topaz subwoofers for home theatre. There are three models: the SW-10, £299.95; SW-12, £399.95; and SW-15, £499.95. In the same order these comprise a 25-litre enclosure housing a 250mm woofer, a 35-litre enclosure with a 300mm woofer and 60-litre enclosure with a 375mm woofer. All three are built within MDF cabinets and finished in black **2** (01480) 431737



- TITAN has moved into the AV sector. with its £400 Midi T4 centre speaker. This 53x36x28cm design has a power handling of 100 Watts, and comes in oak, cherry and mahogany finishes. Also available is the rather unusual Cotton Reel CR2 (above) speaker at £400. ☎ (01702) 206870
- TDK has a new line-up of audio tape cassettes. The range includes the SuperD, a chrome position tape. The new packaging is designed to aid the consumer, with a graph illustrating the style of music best suited to each tape, and the equipment to use



■ PIONEER has announced some intriging new products. For example the transparent Loopmaster (above), a personal CD player at around £100. You can wear it around your neck

# Quad's waiting game



As first unveiled in HFC 176, Quad has finally released its 99 Series electronics and two new models of electrostatic speaker — the first new transducers from Quad for 15 years.

The 99 Series is a fully-integrated system, which is an evolution of the 77 Series.

Comprising a preamp control unit, CD player, a choice of three power amps and optional FM tuner, the rig is priced at between £1,799 and

£2,499, depending on amp. The CD player and preamp at the heart of the system are not available separately.

Virtually all of its facilities can be operated via remote control, and additional 99 Series products can be attached through the unique Quadlink bus connection.

The new ESL988 and ESL989 speakers draw heavily on the existing ESL-63's technology. However, many improvements have been made, including a more rigid construction, higher-power audio transformers, new power-supply assembly and new coils and board layout.

The ESL-988, priced at £2,999, is a replacement for

the ESL-63, although the electrostatic diaphragm has been re-aligned. The £3,999 ESL-989, however, claims to have a greater diaphragm area, offering "dynamism, space and a complete 'being there' experience". Quad 2 (01480) 447700



O Quad 99: providing separates quality with system integration.

# Holier than thou



Wilson benesch has launched its most ambitious product yet, in the form of the Bishop loud-

speaker. Priced at a ground-shaking £20,000, the Bishop features eight of Wb's Tactic drive units operating in isobaric fashion, one facing another for maximum bass control. A ninth Tactic produces midrange while a soft dome tweeter takes on the high frequencies.

As with many of Wilson benesch's products, carbon fibre/Nomex composites play a large part in the construction of this five-foot, six-inch design, but the baffles are made of aluminium and the base of solid wood. The Tactic driver breaks a few moulds by its use of a neodymium magnet, which allows a very compact profile complementing the minimalist basket. Combined these elements give maximum ventilation to the Isotactic polymer diaphragm — a new material developed by Professor Ian Ward at Leeds University, and first used on the Orator model which we reviewed in HFC 179.

Wilson benesch's new flagship uses the isobaric principle to create claimed low bass without having to use largediameter or large-excursion drive units. Wilson benesch

**☎**(0114) 285 2656

O Bishop power: eight cylinder bass.

## QED's cables for all

QED has two new additions to its range of cables, with models that should appeal to both the audiophile and music-lovers just starting out in hi-fi.

The flagship interconnect, Silver Spiral, claims to offer levels of transparency and information retrieval not previously heard at this price. Its four silver-plated oxygen-free (SPOFC) conductors have dual co-axial spiral geometry, while the new Reference plugs incorporate a split centre pin and locking mechanism.

Silver Spiral interconnect is available in three sizes, 0.5m, 0.74m and 1m, and these are priced at £78, £84 and £90 respectively.

Alternatively there is the Qnect 1 at £20 for a 1m pair — this "guarantees signal integrity by using a low loss polyethylene dielectric and 99.999 per cent oxygen free copper." That's told you. It also comes complete with high-grade phono plugs.

QED Audio Products Ltd 2 (01276) 451166

## MS bats on at oval

Mordaunt-Short has added two new floorstanding models to its radical, oval-drive-unit equipped MS800 range. The MS816 at £600 and MS817 at £900 are three-way designs with home cinema as their primary application. Both feature twin oval bass drivers (240x160mm), oval midrange (190x130mm) and a metal-dome tweeter (25mm). Separating the two is an extra 130mm of height and a tri-wiring facility on the dearer model.

These are joined by the MS821C centre channel (£150), MS824D surround dipoles (£400) and the MS826S 150 Watt subwoofer (£500). Mordaunt-Short 2 (01705) 498866





# **Cambridge Audio names its tune**



Cambridge Audio claims to have been working for years on the T500 Double Superheterodyne tuner, priced at £179.95.

It is able to preset up to 29 FM, 29 MW and nine LW stations via its digital rotary-encoder control. Other features include a glass-fibre printed circuit board which enables a "high level of interference suppression and the ability to lay very short signal paths for maximum performance". It also has the latest-generation RF coils and a single master-clock generator.

Finally, software has been written to drive all controls via a two-wire digital bus, which, thanks to automatic frequency control, may be turned off when not in use. This is said to reduce interference. Cambridge Audio claims this also allows the T500 to discriminate a weak distant signal from a strong local one, while maintaining low noise and high fidelity.

Cambridge Audio 🕿 (0171) 940 2240

O Cambridge is hoping to re-kindle FM with its new T500 tuner.

# **AVI pulls its weight**



AVI launched its Graviton speakers at the Hi-Fi Show, Heathrow. Priced at a high-end £3,995, the company claims they have sound to match,

with "substantial dynamic range and clarity." The low-frequency enclosure comprises a sealed MDF

cabinet braced with a tulip-wood frame and bitumastic damping pads. The two, 254mm drive-units handle up to 600 Watts and provide an output down to 20Hz.

Unusually, the mid and treble unit drivers sit in a separate 'topped pyramid' enclosure and consists of 127mm doped paper midrange and 28mm hand made tweeter.

The crossovers are housed in a separate compartment in the bass cabinet and each has its own PCB, positioned at a distance from one another. AVI used second order Linkwitz Riley filters modelled on a circuit analyser for total accuracy. AVI 2 (01453) 752656

O Graviton proves AVI can play loud.



# **Number cruncher**



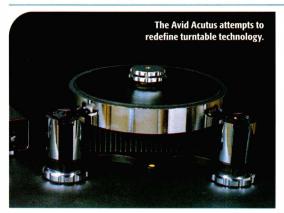
Path Premier is the new UK distributor for Entech products, a new division of Monster Cable Products Inc.

The first products to debut are two DACs: the Number Cruncher 205.2 and the Number Cruncher 203.2, along with the Director AV 4.1 Input Source Selector.

The two DACs, priced at £489.95 and £299.95 respectively, utilise 20-bit Sigma Delta processing, and offer a choice between coaxial RCA and Toslink optical inputs. The NC205.2 provides nine independent voltage regulators which allegedly give better separation of the digital and analogue stages than normally found, while the NC203.2 comes with five.

The DAV 4.1 is a professional grade audio-video switcher for the home which allows switching of S-video, composite video and stereo audio. It is priced at £379.95 and features high-speed, high-performance audio and video buffers.

Path Premier 2 (01494) 440360



Avid has just launched the stunning Acutus turntable priced between £3,995 and £4,995. It is a belt-driven, sprung-subchassis design, which

is nothing unusual by itself. However, rather uniquely, the vibration caused by the stylus during playback is dissipated by a patented mechanism in the subchassis while external vibrations are isolated by a suspension system. In addition the power supply is coupled to a hand-made motor which, Avid claims, is ten times more powerful than normal, and drives a 10kg platter.

Avid 🕿 (01525) 717487

#### **NEWS IN BRIEF**

and create psychedelic patterns via an effects disc placed on top of the CD being played. Also available are three headphones, in a range called Streetmasters

**2** (01753) 789500



- ACOUSTIC ENERGY has launched the AE 101. This is a two-way speaker. designed for surround/effects using a 130mm mid/bass driver with a 19mm soft-dome tweeter. Finished in black ash it costs £140, or with optional centre channel speaker for £200. Also available is the updated AE108S subwoofer (above) at £300.
- (01285) 654432
- REGA has confirmed that its new Planar turntable, as mentioned in HFC 183 will be called the P25, and will be supplied with an RB600 tonearm - a modified version of the RB300. @ (01702) 333071
- LORICRAFT has moved its Garrard production facility back to Wiltshire, not far from where Garrard originally produced turntables in Swindon. It has also set up a distribution arm. Loricraft Audio International. Its roster includes Art Audio and Quad-Musicwiedergabe GmBh - the only company which still manufactures and repairs Quad ELS 57 speakers. **2** (01488) 72267



- RMT (above) has come up with a solution for repairing damaged CDs. The PressIT kit, priced at £29.95, can be used on any CD format and repairs up to 25 discs. Also available are CD re-writable labels at £9.95. The re-Right Label kits contain five sheets of both white base and clear plastic labels, along with black/red markers and an eraser tool. **☎** (01483) 277711
- FREEPLAY has created a self powered lantern that doubles as a power source for personal stereos. Utilising the Baygen wind-up generator to charge rechargeable batteries, this £49.95 (below) torch can power other small appliances (up to 3V). Twenty seconds of winding gives you four minutes of torch light



# NEWS & VIEWS

# **PREVIOUSLY** UNHEARD

Phil Strongman digs out rare and classic tracks appearing on CD or virgin vinyl for the first time. Turn on, tune in, bliss out....





#### THE KINKS (Above)

#### Everybody's In Showbiz (Konk Velvel)

Like many Kinks albums, Everybody's... is a bit of a Curate's egg, but it grows on you. The Lola-like calypso of Supersonic Rocket Ship, the brisk Here Comes Another Day and the touching Celluloid Heroes are all great (a verse from the latter obviously helping Bernie Taupin with Candle In The Wind). Bonuses include a live version of Til The End of The Day. Mixed by chief Kink Ray Davies, just after he'd stopped being stepfather to one Sid Vicious.

00000

#### **SIMON AND GARFUNKEL**

#### Bookends (MFSL)

These two were once cutting edge witness the surreal backing vocals and brooding synths on Save The Life of My Child, brilliantly reproduced here, as well as the samples of OAP chat leading into the searing Old Friends. Plus America and Mrs Robinson. An Original Master Recording disc.

00000

#### **SARAH VAUGHAN (Below)**

#### Crazy And Mixed Up (JVC XRCD2)

We finally get to hear the full timbre of

jazz-queen Vaughan's unique voice, dazzlingly real on this self-produced 1982 set. The casual scat of Autumn Leaves and the moving Love Dance are the two stand-outs from an outstanding set. Repeat-play for the mellowest of weekends. OOOOO

#### **SHEP & THE LIMELITES**

#### Daddy's Home To Stay (Westside)

A harmony act who were just a trio, Shep and co worked without overdubs but made a big beautiful sound. This has Daddy's Home, a US Number Two in 1961, and 13 unreleased cuts. 44 gems from the age of the 45. OCOCC

#### VARIOUS Bumpin' On Denmark Street -Acid Jazz (Westside) (Below)

The rare groovy sound that shook Soho from JTQ, Snowboy, Mother Earth and the Brand New Heavies. Cut in the same smokey AJ Studios at No. 22 used by the young Stones. OCOOO

#### MENTIONED IN DISPATCHES **AL GREEN**

Greatest Hits (DCC) Every deck should have one — 180 grams of pure emotion on virgin vinyl. Vivante London

**☎** (0181) 977 600. **☎♀♀♀** 

#### **MARIANNE FAITHFUL**

A Perfect Stranger: Island Anthology (Island) Bittersweet broken English from the girl from Mars. OCO **TEARS FOR FEARS (Below)** 

#### Songs From The Big Chair (MFSL)

With moody eight-minute mixes of Everybody Wants To Rule The World and 'Shout'. \\\

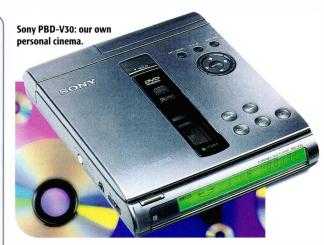
#### The Original Soundtrack (MFSL UDCD)

I'm Not In Love with this but Life Is A Minestrone still sparkles brightly.









# **DVD** goes mobile

Sony has introduced its first DVD Discman, the PBD-V30. Like the Panasonic DVD-L10 (reviewed in HFC 182) the 'V30 offers jet-set-

ting movie lovers the luxury of taking digital cinema entertainment with them wherever they go.

Andrew Warren, Sony's Product Manager, explained: "Initial sales of DVD-Video players have been very promising. Hundreds of DVD titles are expected in Europe on DVD-Video by the end of this year."

Weighing just 570g, the PBD-V30 can be connected to most screens, including laptop PCs. It also doubles up as a CD player, and comes with a remote control.

It has 96 kHz sampling and 20-bit resolution as well as a one-bit audio DAC for music replay. With its horizontal resolution of 500 lines, Dolby Digital and MPEG-2 multichannel surround-sound compatibility, Sony claims the "experience will be outstanding." Watch this space! Sony 2 (0990) 111999

# THX sets ultra new standards



LUCASFILM California based Lucasfilm THX has introduced a new set of standards for mid-priced receivers and speakers, based on the same values as the

original Home THX specification (now called THX Ultra). THX Select, as it's been dubbed, has been designed to ensure that "consumers shopping for mid-priced

components will be able to enjoy the superior performance of THX certified products," explained Marc Spector, Director of Marketing for the company.

The THX Select Standard has been designed to reflect a 2,000 cubic foot room, and handle the most demanding 5.1 channel material. New products bearing the THX Select mark include Pioneer's DV-05 DVD player.

Newly available are THX controllers including the SSP-24 from Classé (a new THX licensee), Lexicon DC-2, Parasound's AV/C-2500 and the McIntosh MX132 Decoder/Preamp. New five-channel amplifiers include the Bryston 9BTHX, Lexicon 512, NAD 925 and Madrigal's Proceed AMP5.

Several speaker manufacturers also plan to unveil THX products in the US, which among others, include Triad and Atlantic Technology.

Lucasfilm Ltd 2 + 415 492 3900





## **Look no wires**

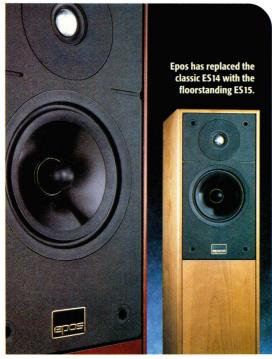


Sennheiser is bolstering its headphone range with a high-performance cordless-radio design. Sennheiser claims that the RS 400 is the first

radio headphone to comply with tough European (ETSI) requirements. These govern the performance of radio transmitters and receivers operating at 863MHz.

Each kit comprises two parts: a lightweight headphone with FM receiver, audio electronics and rechargeable battery pack; plus a transmitter/charger that plugs into any audio source.

With a range of up to 50m their transmitters work through walls and floors. They also have filtration against amateur radio transmissions and TV interference. Sennheiser 2 (01494) 551532



# A whole new Epos!



The ES15 is Epos Acoustics' latest floorstanding loudspeaker. This two-way, reflex-loaded model is encased in real-wood veneer and priced at £890.

The bass driver comprises a 150mm injection-moulded polymer cone with 32mm voice-coil, while the crossover is a minimalist, mechanical design. The 25mm aluminiumdome tweeter is the same as used by the award-winning ES12 bookshelf design, although the larger cabinet provides a new bass alignment that allegedly delivers an "extensive and fulsome low frequency" performance. Epos 2 (01705) 498866



## PAUL MESSENGER

The DAB thing — is it up to the task?



all me a cynical Luddite, but the more I ponder the digital radio/DAB scenario, the more sceptical I become. Kevin Hilton provides the broad overview of this new technology on p55, so I'll avoid covering similar ground and confine myself to playing Devil's Advocate. Digital radio seems poorly conceived, badly timed, and could well spell the end of radio's long-standing reputation as a serious source of high-fidelity music.

Granted, DAB has some advantages over analogue FM, though these tend to

...I'd be most surprised if DAB proved able to provide the sort of transparency that hi-fi enthusiasts have come to expect from top-quality analogue FM...

be of much more benefit to in-car users than fixed/domestic installations. It is true to say that DAB's effective immunity from co-channel interference will be good for everyone, while the avoidance of multi-path distortions will benefit those unable to put up a good external aerial clear of reflections.

So much for the good news. The bit that worries me most is the 'digital compression' system (known as MPEG-2 Layer II) which DAB is locked into, for two main reasons. First, it's a standard that was set way back in 1994, sufficiently long ago, in this fast changing field, that a Second Edition — MPEG-2

AAC (Advanced Audio Coding) - has evolved, promising twice the conversion efficiency.

While I've yet to try a DAB receiver, and am quite certain there will be no problems over basic intelligibility, I'd be most surprised if it proved able to provide the sort of transparency that hi-fi enthusiasts have come to expect from top-quality analogue FM — or even from Nicam stereo TV sound.

The BBC transmits its four main stereo networks on DAB using MPEG-2 at a bit rate of 192kb/s. When I asked whether the same bit-rate would be used for the similarly MPEG-2-coded sound which will accompany its imminent Digital TV transmissions, I was told that the latter would operate at 256kb/s, because 192kb/s gave insufficient phase accuracy for good-quality Dolby Pro-Logic decoding.

The implications look pretty horrendous for anyone who takes hi-fi sound quality seriously. Digital radio is obviously likely to sound inferior to digital TV sound, which isn't the case with our present systems. However, the real worry is that it seems very probable neither of them will sound as good as what we have at the moment.

By comparison, the Nicam TV stereo sound signal (which uses a very simple and non-intrusive 'compander' form of compression) runs at 728kb/s, whereas CD's full 16-bit PCM stereo signal runs at a bit rate of around 1.4Mb/s. Chucking away enough of the information to run digital stereo audio signals at 192 or 256kb/s requires much more elaborate processing - so-called 'perceptual coding' techniques. This approach, in my opinion, is entirely incompatible with the ideals of high fidelity.

# HI-FI SHOW REPORT

#### **GALLERY**

1) TAG McLaren prototype

2) ELAC LA Tube 1

3) Electrocompaniet prototype

4) ART-M

5) Orchid Natural Force

6) Monitor Audio Silver Series

7) Cymbol DAB tuner

8) Beard BB30-60MkII

9) Densen B200

10) Living Voice Rude Boy

11) Alema AMP









# **ROOM SERVICE**

#### Jason Kennedy pounds holes in his soles at the Hi-Fi Show.

s ever, new loudspeakers were abundant at the 1998 Hi-Fi Show, with at least 16 brands showing their latest creations. There have been a few mergers too. JPW has joined forces with Heybrook, Quale Audio and DC cabinets — Quale showed a complete range while Heybrook had the £799 Duet and £1,199 Quintet on display. Castle has been using noted industrial designer Allen Boothroyd to style its Project Theta speakers. These are decidedly upmarket designs for a company with a very 'sensible' reputation. But in a shock move, Castle is abandoning black finishes.

Some less conventional but attractive styling could be found on the Pininfarina Aliante range, as well as on German Elac's extensive metal-domed selection, that is lined up for UK distribution via Sennheiser. AVI seems to have discovered the joy of the big box with its Gravitron (see p7), a £3,995 three-way that dwarfs its existing models and sounded rather interesting. ATC, on the other hand, has delved into bass with a the SCM0.1/15, a 1,000-Watt subwoofer that should do bass properly.

There were some new brands on the scene as well. Cura, for example, showed three models priced from £699 to £1,799; while Systemdek's Derek Dunlop unveiled the ART range, also three strong, featuring the £10-£12,000 ART-M — a three-way with a unique midrange unit that claims pistonic operation over a 250Hz to 10kHz range.

Not brand-new, but new to me, was the Innersound hybrid electrostatic which comes complete with active crossover and bass amplification at a competitive £3,995. While one product that I had sneak-previewed was the Living Voice Avatar, a £2,100 refinement of its Auditorium floorstander on a higher plinth. Lurking elsewhere in the same room was a prototype three-way with the working name of Rude Boy, a self-toeing-in



design produced to give horn-style dynamics from a reflex-loaded enclosure.

Another hybrid specialist, Cadence, unveiled its least expensive 'static/dynamic so far, the £2,300 Anina. Less than a metre tall, it features the brand's distinctive curved mid-treble panel. Epos has finally replaced the product which launched the company, the ES14, with the floorstanding ES15 — founder Robin Marshall's legacy is no more (see page 9 for details).

A blast from a more distant past was heard from Octave Audio's recreations of classic '50s Tannoy horn cabinets, including the GRF corner and Autograph models into which buyers can fit Tannoy's dual concentric drive units. Funny, I

thought it was the drive units that were sought after!

#### THE DIGITAL DOMAIN

Igh-end and mass-market brands alike are vigorously pursuing the new 24-bit/96kHz digital music format. Ayre Acoustics, Muse and Resolution Audio had DAD players, while Proceed, Theta, Kenwood and Pioneer showed new DVD-Video players. The latter is a rather nice decoder-free machine at £550 called DV-717. No DVD-Audio was evident; we'll have to wait for that until next month. There were a couple of SACD dems from prototype machines, however, by Sony and Marantz. The former had brought in specially-tweaked US Sony speakers, and used one of many Seismic Sinks for support purposes. Marantz, on the other hand, used Tannoy's new Turnberry speaker, a £2,800 dual-concentric design in the old-school mould. It also made some good noises with the £3.5K CD7 CD player.

DAB made its debut with models from Arcam and Cymbol, which had products at £799 and £999 that we're eager to try, even though their computerised ergonomics will be unfamiliar at first. There were, of course, miles of wire, but Kimber gave me a dem so it would be churlish not to mention its new Select range of interconnects and speaker cables priced from £300. And finally, Carfrae, the big horn builder, played a cartridge that requires no RIAA eq. That's a prototype to look out for.

#### PUMP UP THE VOLUME

Of course there's more to life than speakers — there was a good showing on the amplifier front as well. Witness demonstrations of the Tact digital amp and more megabucks offerings from Krell, Audio Research and Mark Levinson to name but a few. Tube designs are still very popular with the keen audiophile and there's no shortage of models to choose from. One, Tube Technology, had the entry-level Syrinx H50i integrated at £1,000 alongside the M45 monoblock, and CD players starting at £1,100 designed by John Westlake (ex PT, Cambridge). Orchid Precision Audio had managed to install several examples of its huge Natural Force 220-Watt power amps, at £13,000. They pack eight KT90s per channel and too many kilos. It was good to see Bill Beard back on the scene with his BB 30-60 mkll integrated at £1,495, an attractive wood-faced design which operates in either stereo or monoblock configuration.





Gate added a nice little SE300 monoblock design to its range of stainless-steel clad units, with a price of around £3,000. It was one of many tube brands to have taken advantage of Western Electric's blanket dispersal of megabucks 300B tubes, a reborn classic still earning respect. On the trannie side, Densen showed

> the B-200 microprocessorbased preamp. This is a multi-room-ready remote-control design at £1,000. Priced likewise was the Beat -

B400 CD player due out this December. Tube specialist Alema played its trans-

impedance design, the AMP. At £1,700 in stereo form, this 50-Watter uses output transformers and claims to be a technological first.

Elsewhere, Exposure, now teamed with Monitor Audio, showed its £500 Super X integrated, and Nagra previewed power amps to match the lovely PL-P preamp.

#### THE SOURCE OF IT ALL

CD players were less abundant, but one brand deserves more attention. Audio Synthesis now has its own Transcend CD transport and Decode A/D converter to match the DAX Decade DAC/preamp. And Bow Tech

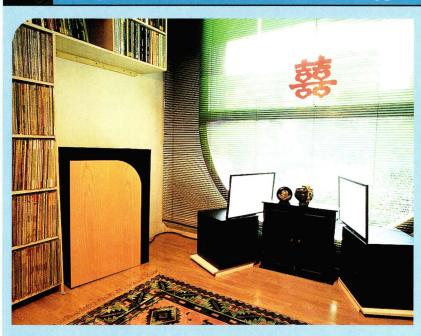
showed a beautiful three grand player whose name looks set to change from Wizz to Wookie, but anything's possible. Naim brought along the finalised CDS II, now with XPS power supply, while Mark Levinson launched the No 32 Reference processor.





## JIMMY HUGHES

Jimmy has been down to IKEA for his latest upgrade!



ips for improving the sound of your hi-fi usually concentrate on the equipment itself, and how it's put together. But the listening room also plays a big part in determining the final sound. Recently, I replaced the carpet in the lower part of my split-level listening room. Not with more carpet, but with wood flooring panels from Ikea.

Swapping a soft absorptive floor-covering for one that's hard and reflective is bound to alter the sound of the room. I had a gut feeling that the change would be beneficial, and by listening after quickly laying a few temporary panels over the old carpet, my hopes seemed to be confirmed. But would it still sound good with the whole surface covered?

It took the best part of a day to lay the new floor surface, and I couldn't wait to reconnect the system and listen. I expected the sound to be slightly tonally brighter and a shade livelier, but feared the bass would boom if the floor vibrated in sympathy with the music. Choosing a Mozart piano concerto, which was not too demanding sonically, sat and listened apprehensively. No question: the sound was very different.

It was sharper and more solidly focused, more immediate and articulate. Tonally, the upper midband seemed more prominent, giving greater presence and fine detail. The bass seemed deeper too, and firmer; it certainly didn't boom as I feared it might. I felt that the music was filling the room more easily, subjectively making it possible to reduce volume levels slightly without losing presence.

On the debit side the tonal balance

#### O Floorboards can make a big difference!

was slightly harder, and leaner. But that wasn't a drawback, as most systems I've used in this room have had a tendency to sound slightly 'thick' tonally unless everything was working well.

The new floor cost about £200 in materials, giving an improvement greater than I'd have got by spending this amount on the system itself. Whether the same flooring in another room with another system would be an equal suc-

...The new floor cost about £200 in materials, giving an improvement greater than I'd have got spending this amount on the system itself...

cess is hard to say. But if you wanted a keener, more immediate and articulate sound, replacing carpet with wood flooring will give you that. If the change is excessive, a few carefully placed rugs should help - I did eventually add a rug.

Wood flooring has some practical drawbacks for the hi-fi enthusiast. Spiked feet are an obvious no-no, though some sort of intermediate support could be used under the spike to stop scratching. There's also a possibility of resonance at high volume levels, though provided you glue the panels together and everything fits snugly, there shouldn't be a problem. I'm certainly pleased with the change, and it looks great too!

# PAUL MILLER'S OASIS OF SANITY

# Technical Editor Paul Miller compares the new TAG McLaren Audio CD20R (reviewed on p34) with its Audiolab forebear. The differences, it appears, are measurable!

nless they'd been living on Mars for the past few months, no hi-fi enthusiasts could have failed to notice the roar from TAG McLaren's corporate engine as it extends its operations into domestic audio. No less than 12 separates have been launched, all evolutions of the 12 components in Audiolab's range prior to it being absorbed by the motor-sport giant.

Thanks largely to the determination of Dr. Udo Zucker, TAG McLaren Audio's CEO, improvements to the core circuit design, the physical appearance and manufacturing quality of familiar products (including the 8000CD and 8000S) were implemented at breakneck speed. The aforementioned CD player and integrated amplifier have now evolved into the CD20R and 60iRv sl (straight line), respectively, thanks to a two-tiered approach involving teams of inhouse design engineers and socalled "golden-eared" listeners.

#### THE F3 CHALLENGE

THE

MEASUREMEN

All of which brings us to the subject of this month's *Oasis*.

You see, while happy to pronounce a uniform improvement in the sound-quality of these hifi separates, Dr. Zucker tells me that his engineers "can find no measurable difference" between the Audiolab and 'equivalent' F3-branded products. "Even the German reviewers," I was informed "could find no distinction". I could not understand quite what he meant by this, but felt sure that British test and measurement practice would not be found wanting, even by the most stringent Continental standards. TAG McLaren Audio's CD20R was the subject for our investigation.

So to the challenge. By general consensus, Audiolab's original 8000CD was at least mildly compromised by a sense of muddling, manifest as a pervading 'greyness', a lack of stereo depth and loss in transparency. I last tested the 8000CD as part of a huge group back in *HFC* 163, where it was described as "not so much laid back as laid out". This referred to its neutral but overly smooth, fettered and generally undramatic performance. TAG McLaren's CD20R

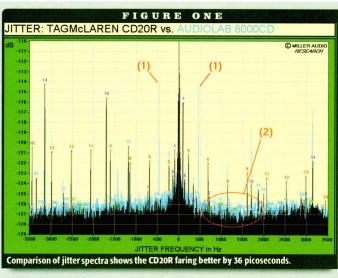
seeks to shake free of these subjective chains, offering a fresher, cleaner and more invigorating musical perspective.

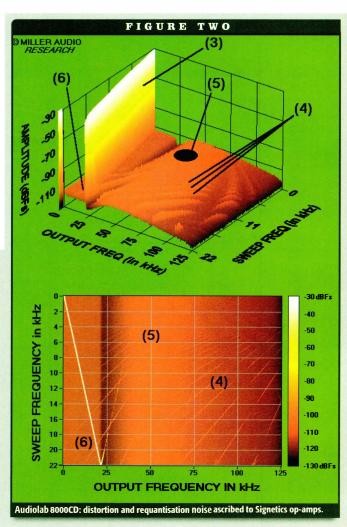
We had linked this by-nowfamiliar 'Audiolab sound' to the Signetics-based analogue stages used in all its digital products. Interestingly, these chips are replaced by Burr-Brown's OPA134 op-amps in the latest CD20R. A two-channel version of this op-amp is also found in the player's DC-servo circuit alongside upgraded WIMA polyester capacitors. Generous use of Vishay's metal-film resistors in the analogue stage completes TAG McLaren's list of component substitutions. Otherwise, the use of Philips' CDM12.4 transport and SAA7345 decoder, with Crystal's older '20-bit' CS4329 bitstream DAC, remains quite unchanged.

...the assertion
that there are no
measurable
differences between
the 8000CD and
CD20R is borne out,
provided we only
skim the objective
surface...

## THE SOUND OF CORRELATION...

For this feature, I re-tested a sample of Audiolab's 8000CD from the final production batch together with a CD20R from its first batch. The assertion that there are no measurable differences between the 8000CD and CD20R is borne out, provided we only skim the objective surface. Both players show a gentle





# MEASURING THE UNMEASURABLE TECHNOLOGY



treble roll-off of around -0.5dB at 20kHz, for example, while both benefit from a supremely low 0.0003 per cent midband distortion at 0dBFs (0.0025 per cent at -30dBFs), a low 100 Ohm output impedance, and a wide 104.5dB S/N ratio. They even show exactly the same errors in de-emphasis accuracy when replaying pre-emphasised CDs!

But let's look a little closer. Fig. 1 shows the jitter spectrum for the new CD20R overlaid atop that of the 8000CD (in light blue). The latter totals 258psec with key sidebands at 462Hz, 1.7kHz (purple mkrs 10) and 3.14kHz (purple mkrs 14). The CD20R mirrors the 8000CD, minus the components at 462Hz (1) and benefits from a universal reduction in random noise (2). This represents an overall improvement of 36psec.

Channel separation, particularly at high frequencies, is influenced by subtle changes in the CD20R's board layout and here we see a 14dB difference between both players at 20kHz. Distortion is also changed quite significantly at 20kHz (by a factor of 20dB or x10) as the original Signetics op-amps hold up better than the new Burr-Browns. Nevertheless, at the more important -30dBFs level, the BBs take over with an improvement of 10dB over the Signetics-based filter.

All of this will exert some subjective impact, but the improved quality of the new opamps — especially in response to ultrasonic noise — is most clearly revealed by the two 3D plots (Figs. 2 and 3). Here we see the entire spectrum of distortion and requantisation noise

ejected by both players in response to a full 0-22kHz sweep (3) at -30dBFs. The characteristic stopband pattern from Crystal's CS4329 is evident from both players (4) as the analogue filters are mathematically identical. However, in practice we can also see a higher release of ultrasonic noise around 50kHz from the Audiolab player (5) together with very high-order IM distortions (6) that track directly into the audioband. Both phenomena would have compromised the 8000CD's transparency and are notably improved in the CD20R, despite the fact it uses precisely the same digital building blocks.

Finally, and perhaps most

importantly of all, is the huge difference in modulation noise between the Audiolab and TAG McLaren players (see Fig. 4). This unique test (first introduced way back in HFC 100) provides a measure of the accumulated errors from dissimilar-sized Least Significant Bits (LSBs) during conversion. Ideally, CD's 16bit code allows for 2-to-the-power-16 (65,536) successive digital numbers, all one LSB apart. In practice not all the 'steps' are identical and the errors manifest as a modulation — or 'beating'— of the residual noise. The significant decrease in modulation noise through the CD20R's midrange (black barchart) is a principal factor in its

## ○ TAG McLaren Audio CD20R: its enhanced sound is not hard to quantify.

improved transparency over the older Audiolab 8000CD.

On this evidence, improvements in sound quality are manifestly quantifiable, and justify TAG McLaren's speedily-executed modifications to the stalwart components of the former Audiolab range.

Do you have a subject matter for the Oasis? Please contact P.Miller via e-mail on MILLER\_AUDIO\_RESEARCH@ compuserve.com

#### GLOSSARY

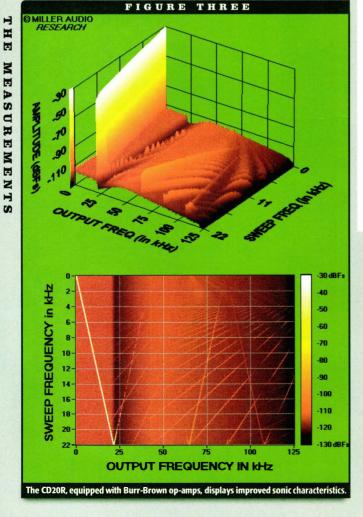
**OP-AMP**, or Operational Amplifier: provides (typically) two or more stages of gain but is not necessarily an integrated circuit.

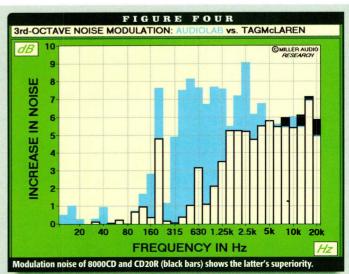
**LSB:** or Least Significant Bit is the smallest step available to a digital code. CD's 16-bit data would total 2-to-the-power-16 (65,536) LSBs.

**JITTER:** Any variation in the timing of digital data. During conversion to analogue (music), jitter manifests as distortion sidebands.

**REQUANTISATION NOISE:** Errors that result from a re-shaping of the digital data (such as the truncation from 16 to 4 bits, for example) are realised as distortion and requantisation noise.

MODULATION NOISE, or Noise Modulation: represents a dynamic fluctuation in noise due to discrepancies in the 'size' of the LSB during Digital-to-Analogue conversion.





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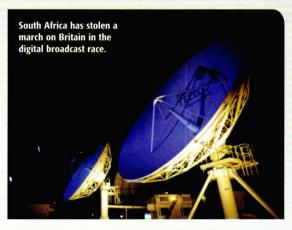
#### LETTER OF THE MONTH

#### DIGITAL GOES SOUTH

I've only just read your May '98 issue (you heard correctly) and it's interesting to know that maybe for once, South Africa is ahead of Britain in one respect. Although your great magazine takes ages to get here - and then costs a fortune, too - we've had digital satellite for quite a while now, so I thought I'd let you know my honest opinion.

Yes, digital signals are far better than their analogue counterparts. This may be especially true in Cape Town, with its mountains on every street corner (lovely to look at, but absolutely sadistic signal blockers) and dubious land-based transmission technology.

Sound is close to CD quality (in my opinion) and the picture quality seems as good as its source. However, satellite signals are affected by climate. Heavy cloud cover means some picture noise, and a thunderstorm could cause a complete loss of signal. Also, Pro-Logic surroundsound doesn't seem to work very well on



encoded movies. My Yamaha gets very confused in surround mode - I don't know why.

Finally, there are about 60 channels covering almost any musical genre, broadcasting 24 hours a day, with no DJs.

Hope that you enjoy it when it arrives! Chris McEvoy, via the internet industry, always rushing to get the next chip out, so that as soon as you buy it, it's out of date. Where will all of this end?

D Murphy via e-mail

#### **NEXT TO GODLINESS**

As someone who buys secondhand CDs on a regular basis, I read with interest Jimmy Hughes's Hints & Tips (HFC 182).

One method I find particularly effective for cleaning CDs is to rinse them under a running tap with copious amounts of washing up liquid. Any surface marks can be lightly wiped off with a finger. and the flow of water prevents any scratching and carries debris away from the surface as soon as it is dislodged. To dry, simply pat between two sheets of kitchen roll. The CD should be lifted straight up from the lower sheet (not wiped across) to avoid scratching

This method is the only way I have found of cleaning my CDs without scratching the surface, a problem with the several commercial cleaners I've tried. It leaves them clean and in an ideal state for applying a restoration polish.

sticky label is useful in a hurry -Post-It notes seem pretty effective. Ben Irvin, Dore, Sheffield

Jimmy Hughes's idea of using a

#### **DVD AS EASY AS 1,2,3**

I write in reply to Karl Todd's letter ('As Clear As Mud') published in HFC 182. I, too, have a Yamaha DSP-E1000 processor and wondered how to get DVD incorporated into my system. However, through the HFC Website chat forum, I heard about a firm called Videotec (www.videotec.co.uk).

This company is able to modify equipment for various purposes, and one of their current specialities is the addition of a six-channel input to existing processors/ surround amps that cannot take the output from a DVD player. In a nutshell, it adds a small control board inside the processor, a discreet LED on the front panel, and a multi-pin D-type connector on the rear panel. It also supplies a one-metre Ixos cable with six phonos on one end and D-connector on the other. Total cost for this upgrade is £300.

Switching to the DVD input is by a time-latch function on one

of the existing front-panel buttons. Merely holding the button down for a few seconds does the trick. Essentially, the modification takes the six-channel signal and routes it straight to the power amps in the processor and the main output sockets, bypassing the Yamaha processor circuits, although leaving them intact.

Colin Hickson, Reading, Berkshire

The Editor adds... Remember that any third-party modification can invalidate manufacturer warranties still in force.

#### **OLDIES, BUT GOODIES**

Is the future of technology going to be like computer hardware?

For example, MiniDisc. Loads of companies are making their own machines, which are purchased by customers thinking it will be a few years before the next version is out. But they then discover that within a month or two there's another version, then another.

Why is it that companies feel they have to rush to produce hardware, sell it, find flaws, and then produce the next one ASAP and sell that instead?

Where does this leave the consumer? It's just like the computer





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# ROICE COILS



To achieve the lowest possible moving mass, all advanced Dynaudio Magnum voice coils are made from pure aluminum wire wound in our patented Hexacoil technique that uses many windings on a long coil in a short gap. The large diameter voice coil provides maximum efficiency, optimum drive of the diaphragm and plenty of headroom with regard to power rating to ensure total control of even the most minute membrane displacement. That's why only a Dynaudio can touch you up to fifty-thousand times per second. We know. Do you'l



Roksan's Xerxes 10 turntable, which I have owned for years and from which I have derived many hours of pleasure, listening to my vast vinvl collection. To date I haven't found a better, more reliable turntable than the Xerxes 10. XPS5 and DSU combination with Roksan's tonearm and cartridge.

I hope that your omission was a mistake rather than a statement. Rangzeb Hussain, Bradford

Jason Kennedy replies... This wasn't intended to be the definitive list, simply a selection of recommended turntables. For more details you should refer to our Directory, which starts on p122.

#### RELUCTANT PLAYERS

I am writing in response to the letter from M Austin (HFC 181) regarding his Philips CDR870. I run a small studio and use two of these machines, both of which refuse to play many discs - mostly

WRITE TO US

- The Editor-in-Chief, Hi-Fi Choice,
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- f 0171-917 5512.
- e editorial.hifichoice@dennis.co.uk.
- We reserve the right to edit all letters. Concise correspondence preferred!
- All letters must include address and daytime telephone numbers.

#### **WIN A T-SHIRT AND PEN!**

Every letter published on these pages wins a KEF pen while the best letter every month wins a stylish KEF polo-shirt.



which also refuses to play the same discs without glitching, sometimes not even recognising them at all. It seems they are only

...In my studio I use two machines, both of which refuse to play many discs - so much for robust CD technology!...

happy when replaying a new disc. So much for 'robust' CD technology – our 11-year-old Sony DAT recorder is much more reliable.

Speaking of which, how about a test of the latest generation DAT recorders? Also Paul Miller's article on the quality of pre-recorded CDs makes me wonder about the quality of pre-recorded MDs. Could you do an article on how near to overload they are mastered, and what version of ATRAC is used?

T Stapel, Dorset

#### THE NAKED TRUTH

I am writing in response to the outrageous Acoustic Energy advert in HFC 183.

For your information, yes I am a woman, and yes I do love music and hi-fi. Therefore I find it infuriating that an already male-dominated, malecontrolled industry is using blatantly gratuitous naked women to flog their products.

I understand fully the idea behind the concept; but come on, let's be honest, it's a fairly feeble excuse to get tits (I don't suppose you'll print this word, although it's fine to show them in your magazine) on the page in the hope of enticing men to buy hi-fi. If it is simply about being 'natural' then why not have a man

in the picture with her?

I expected more from Hi-Fi Choice, a magazine I respect and which I have bought for many years. It now seems that no media is immune to the adage that 'sex sells' - or is it just that advertisers' money talks?

Louise Bond, Surrey

Neil Truckle, Marketing Manager of Acoustic Energy, replies... There are a number of marketing reasons behind our advert. First, research into this 95-per-cent male-oriented market has proved that using human (often female) elements can increase brand recall. Also, the message and theme of the advert follows through from the headline, the photograph and the body copy and, as stated in Louise's letter, is fully understood.

Countries such as the Netherlands, France, Germany and Italy make our campaign look tame by comparison.

Finally, research is also proving that there is extensive cross-readership between hi-fi titles and the men's style mags.

#### LOOPY INDUSTRY

As a long-time audiophile and ex-contributing editor to two Slovenian hi-fi magazines, I would like to address a very specific problem rarely mentioned in the audio press. It goes like this: WE WANT MORE TAPE LOOPS, THANK YOU!

We have seen an explosion in

home-recording equipment like DAT, MD, CD-R/RW and analogue cassette, while there are still recording maniacs who want to own a good old open-reel deck.

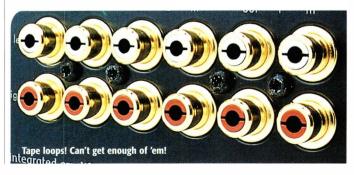
Would someone please tell me how the industry expects a collector of home-recording equipment, or just a user of the incoming crop of recording decks, to opt for a high-end integrated or pre-amp with only one tape loop?

As far as I know, input and output connectors are not expensive. Even so, a few pounds won't stop us buying otherwise well-designed and good-sounding equipment. Au contraire, I am not willing to pay even a penny for a high-end amp with only one tape loop.

Andrej Balaban, Slovenia

The Editor replies... If that's what you want, then look no further than page 36 for our review of the new TAG McLaren PA20R pre-amp, which features three tape loops. Fantastic!







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# COMPETITION

# REVELATIONS FROM ROGERS

## Four pairs of new Rogers Revelation speakers, comprising the Revelation Compact and Compact Tower – worth over £1,000 – must be won!

escribed as the most stylish product ever to emerge from Mitcham, Rogers' new Revelation range refines the bookshelf speaker aesthetic. Its most distinctive visual feature is the curved mesh grille, which dispenses with the usual pegs and sockets approach by simply clipping into the speaker baffle. This has the sonic advantage of minimising diffraction and thus improving stereo

**HOW TO ENTER** 

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

#### The Ouestions

- 1) What is the Revelation's cone made of?
- a) Cheese and onion
- b) Paper and Kevlar
- c) Carbon fibre and Kevlar
- d) Titanium
- 2) What type of crossover is used in the Revelation?
- a) Second nature
- b) Second order
- c) Third order
- d) Second helping

#### Post this entry form to:

Hi-Fi Choice Competition (CHFC812A) Bradley Pavilions, Bradley Stoke North, Bristol BS12 OBQ All entries must arrive by First Post, Thursday December 3rd, 1998. Please remember to tell us whether you are over 18 years of age.

Name	
Job Title	
Company Name	
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#### 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 regular reader? OR
- Are you an occasional reader?

#### COMPETITION RULES

- The Closing Date for the Rogers competition is First Post, Thursday 3rd December 1998.
   Winners of the Rogers Competition will be judged from all correct entries submitted, and
- drawn at random after the Closing Date given in 1) above
- All winners will be notified by post.
- 3) All winners will be nothfied by post.
  4) The Editor's desicion is final and no correspondence will be entered into 5) The Rogers Competition is not open to employees of Dennis Publishing I International (UK) 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 temporarilyunavailable.

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

  10) All entires 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 812A

imaging in the process. Another neat touch is the contouring of the baffle edges, a rare feature in speakers at these price points.

Both Revelations use a fully-shielded woofer (making them TV safe) with a polymer chassis and a 125mm Aerogel matrix cone, the latter being made from a mixture of Kevlar and carbon fibre. It has a soft polymer phase-plug to equalise the response, and the tweeter is matched to the woofer by using a low-mass, phase-corrected polymer diaphragm. Tweeters are also magnetically shielded for AV use.

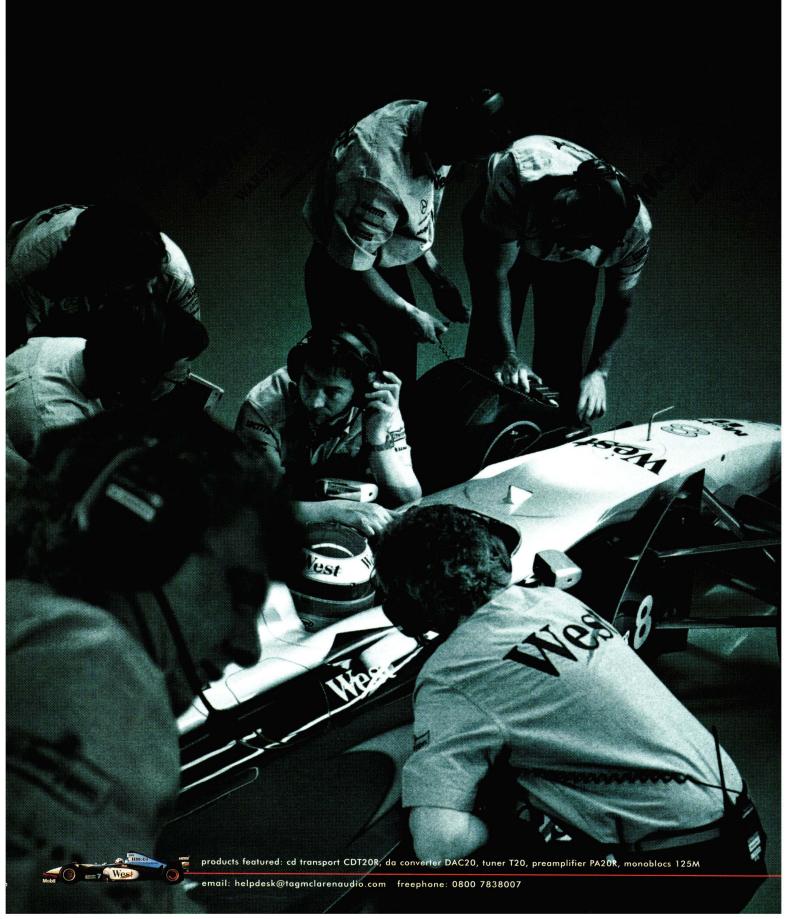
The two drive units are integrated by a secondorder crossover that has been designed to ensure

even dispersion for optimum stereo imaging. Cable connections are made via a pair of heavy-duty, goldplated terminals, bi-wirable for maximum control.

Priced at £200, the Revelation Compact measures 295x180x250mm (HxWxD) while its brother, the £350 Revelation Compact Tower, weighs in at 860x180x 275mm. The first two lucky readers to have their entry forms pulled out of the hat will each win a pair of Rogers Revelation Compact Tower speakers, while the second two successful entrants will each receive a pair of Rogers Revelation Compact speakers. The winners can choose from the following finishes: rosewood, white ash, light walnut, cherry and black.



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DIGITAL SOURCE DESIGN Krell KPS 20i/l Theta Data III

DIGITAL CONVERTOR DESIGN **Krell Reference 64** Theta Generation V

SIGNAL PROCESSOR DESIGN Angstrom 200 Audio Research SDP1

TUBE ELECTRONICS DESIGN **Audio Research Reference One** Audio Research VT60SE

> CABLE DESIGN **Transparent Music Link**

BEST LOUDSPEAKER DESIGN Wilson WATTS/Puppy Sonus Faber Guarneri

BEST LOUDSPEAKER VALUE Martin Logan Aerius Sonus Faber Concertino

> BEST NEW COMPANY Angstrom

DIGITAL SOURCE DESIGN Audio Research CD2 Krell KPS 20i

DIGITAL CONVERTOR DESIGN Theta DS Pro Generation Va

> SIGNAL PROCESSOR DESIGN Krell AV Standard Theta Casablanca

TUBE ELECTRONICS DESIGN **Audio Research Reference One** 

> SOLID STATE ELECTRONIC DESIGN Krell FPB600

CABLE DESIGN Transparent Reference XL

> BEST LOUDSPEAKER DESIGN Sonus Faber Concerto

BEST LOUDSPEAKER VALUE Sonus Faber Concertino

BEST AESTHETIC DESIGN **Martin Logan Statement** 

AUDIO DIGITAL SOURCE DESIGN Krell KPS25s Krell KAV 300CD

> VIDEO SOURCE DESIGN Theta Data III

DIGITAL CONVERTOR DESIGN Theta DS Pro Generation Va

> AUDIO PROCESSOR DESIGN Z-systems rdp-1

SURROUND SOUND CONTROLLER DESIGN

Theta Casablanca

VIDEO PROCESSOR DESIGN Krell AV Standard Theta Casablanca

TUBE ELECTRONICS DESIGN Audio Research VT200

SOLID STATE ELECTRONIC DESIGN Krell FPB650M

> BEST VIDEO PROJECTOR Vidikron Vision One

BEST LOUDSPEAKER DESIGN Wilson X1 Grand Slam II

> BEST LOUDSPEAKER VALUE Sonus Faber Concerto

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# 

**Having trouble reaching audio** Nirvana? Worry no more, **Choice** has the answers!

#### QUERY OF THE MONTH

#### SHAKEN AND SLURRED



Congratulations on the new format - it's so much more informative than the competition. I've recently added a pair of superb Celestion A3 to my kit (Marantz 17KIS on a

Seismic Sink, AQ Quartz 3 i/connects, Audiolab 8000S and PX biamping via AQ Crystal). They sound fabulous but I think they're highlighting a problem further back in the chain. There's some slight slurred sibilance on some vocals - a kind of Sean Connery effect, which might be a trait of the Crystal cable. There's also a steely, vibrating edge to operatic sopranos.

I need to upgrade the cables to accommodate a change of listening room in any case, so your suggestions for a warm, detailed bi-amp cable (or two runs of different treble/bass cables) would be very welcome. Over the longer term I will probably move towards preamp plus four monoblocks: with an eye to the new TAG McLaren range if they offer an upgrade deal to old Audiolab customers; or to a good deal on 8000Q plus MXs if they don't. I look forward to your reviews of the new range. Roger Flory, Ipswich

IK Replies... You're the second reader with cable conundrums and the 8000S/PX combo this month — is there something we haven't been told? However, you have been rather more explicit in your requirements, which helps. It's likely that some of your problems stem from the AQ Crystal – we found some graininess when it was reviewed. The cables to consider are much the same as those suggested in Nicola's letter (right) with the addition of van den Hul's The Wind and Audio Note's AN-L. We don't recommend mixing speaker cables for treble and bass, because although this can be used as a subtle tone control, you are introducing variations in timing and dynamics that will mess things



#### **GET A JAMO LEATHER CD WALLET!**

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

#### THE GODFATHER OF VINYL



I would like to ask you a simple question about, vinyl. Some days ago I

discovered a box of old Italian 78rpm records in my house.

The problem is that they're full of dust and mildew. How can I clean them without spending money on special liquids? Is this possible, or would I be better off putting the records back in the dusty corner of my house? Daniele Lorenzon via e-mail

JK Replies... We have to admit that 78s are rather beyond our dayto-day experience here at HFC

Towers. We have heard fantastic results on occasions, but mildew removal is not something we've tackled lately. Shellac, however, is pretty hardy stuff and as good a place as any to start would be with warm, slightly soapy water and a soft cloth. This is the same approach recommended for particularly soiled vinyl. That should get rid of the worst of it, then when they're dry, use isopropyl alcohol heavily diluted in distilled water to remove any remaining residue.

We presume that you have something suitable to play them on, hidden away somewhere!

#### MAKING THE CONNECTION



Could you please advise me on the best interconnects and speaker cables to use with my separates? I have the following setup: Marantz CD-63 SE CD player, Audiolab 8000S on the treble and 8000PX for the bass

Can you recommend interconnects for the 8000S and 8000PX? I am currently using one metre Chord Cobra. Can you also recommend speaker cable for bi-amping with the 8000S and PX? I am currently using Audioquest Indigo 2. Nicola Morris, Gowerton, Swansea

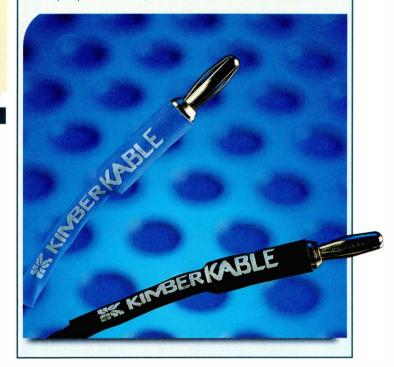
with B&W CDM1 speakers.

JK Replies...Cable upgrades are tricky things, as interactions between components can often affect the perceived balance of the cable. There is also the question of what you wish to achieve - exactly what is it about the current set-up that you feel is lacking?

Looking at your system, it seems pretty well balanced, albeit

that the amp and speakers are capable of supporting a better front end — an area we suggest you concentrate funds on at some point in the future. However, if you are keen to get re-wired, there are a couple of courses open to you. The first would be to continue mixing and matching brands with the aid of your dealer; the second would be to go for single brand connections throughout - an approach that works well in many instances. Try combining Kimber Hero with twin runs of its 4TC speaker cable, or DNM's insubstantial (but very effective) cables if great timing is your goal. One ideological (if not brand) match that we enjoy is Acoustic Precision Interconnect with Electrofluidics Monolith 20/20 speaker cable, although the speaker cable may prove a little expensive if you need long runs. Goertz M1 would be a good alternative.

O Kimber 4TC - match with Hero.





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#### **CHANGING ROOMS**



My system at present is: Arcam Alpha 8 CD player and amp, B&W

DM601s on Sound Organisation stands, Yamaha KX580 tape deck and Denon TU-260L tuner. It's linked up with Audioquest Ruby II and Indigo II.

I would like to get more focus and detail, while keeping the sound on the warm side of neutral. As my room will shortly be changing, I would much rather hang on to the speakers for now and change the amp for something in the £600 to £700 range. Would the 601s cope with this?

Soundstaging is of less importance than tonal accuracy and remote control is essential. My musical tastes are wide, ranging from acoustic blues to Portishead. Carlton Fry, Port Talbot, South Wales

JK Replies... To take your latter point first, the DM601 will revel in a better amplifier; whether they will be able to make the most of one is another matter. To achieve your aims, a speaker upgrade needs to follow the amp change in short succession - at least as soon as you have moved. As for suitable candidates, you seem satisfied with the balance of the current set-up so it makes sense to move up the Arcam range for your new amp.

There are two obvious options: you could either bi-amp with an Alpha 8P or trade in your amp for an Alpha 9. The latter option will give you more detail and focus, while the former will beef up the sound some. We recommend the remote control 9.

O Move up the range with Arcam.



#### TWO FOR THE PRICE OF ONE



I have been using a Denon AVC-2800 AV amp for listening to

music with a Pioneer PD-8700 CD player and Musical Fidelity X-DAC. Now I am planning to get an integrated amp - probably Musical Fidelity's X-A1. The size of my living room, which is about 11' x 14', is not quite enough for two pairs of speakers. I am using KEF Q70s at present.

Is it OK to have two pairs of speaker cables and plug in either of them whenever I listen to music or enjoy movies, or plug in both of them to the Q70s and only switch on one amp at time?

I know that there are integrated amps which provide an AV by-pass function, such as the Krell KAV 300i, but that's a bit expensive are there any other suggestions? Edmund Cheung via e-mail

IK Replies...It seems likely that the integration of multi-channel AV and stereo hi-fi set-ups could become an important topic for manufacturers to address in the near future. Few affordable AV amps give decent stereo performance, but who wants two pairs of main speakers in their living room?

At present, there are no easy and reasonably-priced answers. All you can do is swap speaker cables between amps, or purchase a switching box to save the inconvenience but deteriorate the sound (though not grotesquely). I suspect that this may be your only option in the short term: buy a decent budget amp such as a Cyrus SL, Pioneer A-300R Precision or a Magnum IA170, and get a QED MA19 system switching unit (£30) to split your speaker cables at the amp end.

### **HINTS & TIPS**

In theory, the more power an amplifier has, the

louder it will go. However, sound quality plays a part, and some costly lowpowered valve amplifiers can sound powerful despite lack of paper Watts. More important than high power is an amplifier with sufficient drive to partner the loudspeakers of your choice.

Most modern loudspeakers are fairly efficient (sensitive) and easy to



drive, so this makes the amplifier's job easier. But if your choice falls on a speaker that's insensitive with a complex crossover, you may need a very big amplifier to maintain sound quality. Don't forget that the relationship between volume level and power isn't linear. Every time you double amplifier power, the sound level increases by just 3dB. To subjectively double loudness, you need to increase output power by a factor of about ten.

#### **UNE ALLIANCE DE DÉTAIL**



fructueux avec mes Zephyr mk2 dont le

maitre mot serait l'EMOTION: une alliance de détail, vivacité, dynamique, texture, avec une image stéréophonique précise.

Mes écoutes sont éclètiques: jazz, trip-hop, pop, classique...

Mon budget est de +ou-£1100 pour le CD et amp. Le choix pour le lecteur CD se concrétise pour le Marantz CD-63MKII KI Signature, mais pour l'ampli, mes envies se tournent vers: Audio Analogue Puccini (SE ou non), Musical Fidelity A2, Thule Spirit Serie, Magnum IA170.

Neira Qoquaq, Biez, Belgium

JK Replies... Un mariage fructueux, eh! Le Triangle Zephyr est un speaker sensitive et dynamique, je suppose, et le Marantz est un lively little CD player avec aplomb et spirit. So un amplificateur avec un

O Choisir MF pour joie de musique.

characteur laid back might be appropriate, n'est-ce pas?

En Angleterre nous n'avais pas d'experience avec le nouveux Thule gear, mais the old stuff was quite interessant, so it might be worth un ecoute. Alternatively there's le Puccini (SE non), un amp formidable mais possiblement tros formidable pour votre system. Which leaves le Musical Fidelity A2, un favorite dans cette parish, avec low power et un relaxed, fluid sound, où le Magnum, un autre Class A avec un penchant pour le musique acoustique. Out of the bunch le A2 est probably le bon choisir, mais il y a un autre to consider. C'etait le petit Pioneer A-300R Precision, il avait une image stereophonique precise sans doubt!

#### IS LESS MORE?



My system comprises a Marantz CD-72II SE CD player, Musical Fidelity

E-20 preamp, Sherwood AM7040 power amp (seven-year-old MOSFET design) and a pair of Totem Model One loudspeakers. I listen to baroque and chamber music as well as jazz and rock.

I want to replace the Sherwood and have a budget of £1,000. I have considered a pair of Musical Fidelity X-A200s or a NAD 218, or a pair of NAD 216s bridged for big power! Alternatively I could go for less power but more refinement, from the likes of Electrocompaniet's AW60B, Audio Analogue Donizetti etc. Zoltán Gerencsér, Kemecse, Hungary

JK Replies...The Totem Model 1 is a power hungry little brick, but subtle and effective, too, and we would recoil at the thought of throwing THX-style power at it. Rather we would encourage a quality and power route that, though expensive, should get the results required. To this end, the Musical Fidelity X-A200 and Sumo Polaris seem to be among the most suitable choices. Both offer decent power output, combined with the sort of finesse that your speakers deserve.

#### **INSALATA TRICOLORE**



I currently own the following set-up: Sonus Faber Concertinos, REL

Storm sub and an Analogue Audio Puccini amp.

I was thinking of buying Arcam's Alpha 8SE CD player or Musical Fidelity's new 24-bit X-RAY. Which of them do you think would combine best with my set-up?

Please feel free to make any other suggestions as long as they are in the same price bracket Shrikesh Pattni via e-mail

JK Replies...It's a pity we haven't come across any fine-sounding yet affordable Italian CD players for you to complete the system with style. However, there are a few very nice options to consider.

Although, as of this month, we wouldn't include the X-RAY among them, the Alpha 8SE is, as ever, a contender, as are the Alchemist Nexus, Marantz CD-17, Mission Cyrus dAD3 and Musical Fidelity A2. There is also the Helios Model Three – we haven't yet formally

tested this French model, but reports have been favourable and its stablemates most impressive.

Another option might be a DVD Video player giving the option of playing the new media as well as CDs. But if the results of our latest budget CD player tests (p74) are any indication, for the meantime you'd be best served by a dedicated machine. Matters might change when DVD Audio players come on line, but as that won't be until later next year, and bearing in mind that early versions are always expensive, you're best off with a test-proven CD player for now.

...There are a few very nice options which you could consider within your budget - and the Alpha 8SE is, as ever, one of the strongest contenders...

#### REGGAE TO BAROQUE



My system is a NAD 705 receiver. Marantz CD-40 CD and Mordaunt-Short

MS-20i speakers.

I want to improve the sound and think the best way is upgrading the CD. As it's old and I can't find it in any reviews, I am unsure what to spend. I listen to all types of music from reggae to baroque, so I need a good all-rounder. Vocal quality and realism is important. As I am in Israel, I may not be able to obtain specialist makes, although there is no problem with Marantz, Sonv. Kenwood or larger firms' models. Steve Rogers, Israel

*JK Replies...* The issue here is what standard of player will represent a significant upgrade, yet not unbalance the rest of the system. Given the progress of digital audio technology, modern players are more than a match for five-year-old ones twice their price and, in the context of your speakers and amp, a budget of £250 to £300 will bring rewards. Denon's £180 DCD-635 would be worthwhile: also listen to the Kenwood DP-4090 and the Rotel RC-D971 (see CD player

review this issue, p89).





#### MATCH THAT TUNE



I've got a bit of a problem with choosing the right tuner to go

with my existing system. I've shopped around and have been trying to educate myself by reading articles in Hi Fi Choice. My existing system comprises Yamaha DSP-A780 amp, Marantz CD-63SE CD player, Tannoy 633 speakers and Yamaha NSE80 sparklers, to provide the rear sound effects, with a KEF Model 90 Reference Series centre speaker.

I am not quite sure which tuner would be best suited as I am looking for something that would

blend in perfectly with my existing system. My budget is £200-300.

Could you please also advise the colour of the tuner, as all the separates are black and any other colour would spoil the décor.

I'm not aware of what RDS stands for - please explain. Jason Masand, London SW16

JK Replies... Let's take this one from the end. RDS stands for Radio Data System, a tuner-feature primarily designed for in-car use, but which serves to display the name of the radio station on domestic radios. In terms of finish, it's difficult to buy a tuner which isn't black, so you

shouldn't have any trouble there.

As for selecting a tuner, there is the spectre of DAB (see pages 9 and 55) looming, with the longterm prospect of FM broadcasting (as we know it) being switched off eventually. However, as this isn't likely to happen for up to ten or 15 years yet, an FM tuner is still the cheapest way to listen to free music. Allocate half your budget to a decent aerial installation and go for this month's winning tuner, the Marantz ST-48 — it'll match your CD player a treat.

O Marantz ST-48 is the budget superstar in this month's test (p43)



#### **HINTS & TIPS**

Source components turntables, CD players,

radio tuners – play a vital part in determining the final quality of sound. If the source is badly flawed, it's very hard to get a good sound from your system. But what can go wrong? Assume a poor CD player that sounds edgy and tonally thin with subjectively compressed dynamic range.

On such a CD player, all discs (to a greater or lesser degree) would exhibit the characteristics outlined. Any recording that already sounded thin or edgy would have its faults emphasised by the complimentary faults of the player. If the ideal system lets you play most CDs and enjoy the music, you'll have to go a long way to improve upon it.

Of course, it's possible for weaknesses in other parts of the chain to highlight small shortcomings in the source. So if your system is unusually source-critical, it's possible the fault lies with the amp and speakers!

#### RETURN OF THE MINI



I am very interested in the TEAC AV-500 mini system, retailing at

£900. This appears to be a fabulous little set-up, comprising a strong set of components.

The problem is that it doesn't come with speakers and the choice in the marketplace is so wide! Also, this is an obvious way to spoil everything by choosing the wrong ones.

To further complicate things, I cannot decide if bookshelf speakers would be more appropriate than floorstanders.

What's more. TEAC doesn't make any recommendations of its own. Any advice from you would be gratefully received. Alex Knell, Sandy, Beds

JK Replies...When we reviewed this system in its stereo guise (issue 174) we got fine results with Mission's 731 Pro speakers, a model that has recently been replaced with the 770 but may still be around in the shops. If you need a surround system on the other hand, Alan Sircom from Home Entertainment suggests the Tannoy Mercury range. These are fine speakers which offer the sort of easy load that your amp will be able to cope with.



#### **CRAMPED CONDITIONS**



My system includes a Musical Fidelity X-A1 amp, Denon DCM460

CD multi-player and Monster cables. I'm looking for a pair of bookshelf speakers with deep and controlled bass, sweet and detailed treble.

My room measures 3.5x4.5m and there is no floor-space. My musical tastes are mainly rock, blues and jazz. I have been considering the Monitor Audio Monitor 2 Gold. B&W DM601 or CDM1SE.

Can you recommend the best match? Fernando Cappucci, São Paulo, Brazil

JK Replies... Another 'moon on a stick' type request. we fear. With a real world amplifier like the X-A1 there will be a limit to the extent of deep, controlled bass on offer, but hopefully not too obvious a limit. In fact, if you really intend to mount the speakers on a bookshelf, it would pay to be fairly cautious with regard to deep bass. This can be difficult to control with bookshelf mounting.

The models we would suggest you audition would be as follows: Castle Isis, Mission 750LE, Musical Technology PM15, Ruark Epilogue, Neat Critique 2 and B&W DM602. The latter has greater bass extension than the alternatives, yet represents an easier amp load than the CDM1SE and provides better sound quality than the DM601.

The Castle Isis may be just the space-saver you need.



#### **HINTS & TIPS**

No component in a hi-fi system is more sensitive

to positioning and placement than the loudspeakers. Where you place the speakers in a room, what you sit them on, how far apart they're placed, where you sit in relation to them - all of these things can profoundly influence the sound you get.

It helps clarity and bass tightness and control if the speakers are mounted solidly, and most enthusiasts use carpet-piercing steel spikes to couple the speaker firmly to the floor. Small speakers should be mounted on rigid spiked stands with the high frequency unit at ear level.

The further apart the speakers are, the wider the stereo soundstage. But beware the 'hole in the middle' effect, which creates weak central images. Angling the speakers so that their axes cross in front of the listener, helps to give a more solid centre image and also reduces treble brightness.



I have an ageing hi-fi, the newest part of which is a Pioneer

A-400 amp. The CD player is a Philips that was a Best Buy at around £100 when I bought it around 10 years ago. The Dynaco bookshelf speakers are even older. I am looking to shell out around £500 on some new compact loudspeakers.

I see the Tannoy M1 is very highly rated, but maybe I could do even better in my price range. I guess you are going to tell me ιο throw out the entire system, but any recommendations you make will be welcome.

Actually, I was thinking about changing the CD player as well, which I had provisionally put around £300 aside for. Peter Mapleston, Milan, Italy

O Try PMC TBI or TB1S speakers.

#### YESTERDAY'S SPEAKER

JK Replies... Not being familiar with Dynaco speakers, we'll have to take your word that they are the weakest link. The CD player would undoubtedly benefit from replacement but can wait until you've got your speak-

> ers and the need becomes more dramatically apparent.

The A-400 was a popular amp in the early '90s, its strength being the ability to

work with more expensive speakers quite happily. You should aim higher than Tannoy Mercurys, as good as they are. Instead, go for something that will make the most of the amp without overloading it like a PMC TB1 (or its cheaper non veneered TB1S brother). B&W DM603 or a Heybrook Heylios. Spend the rest of the budget on decent stands and cable.



# DON'T BUY IT JUST BECAUSE IT'S BEAUTIFUL



Titanium dome tweeter.



Extruded aluminium cabinet.



Die-cast aluminium top cap.



Gold plated bi-wire terminals.



Audiophile crossover components





These may be the best looking speakers ever made - but our engineers hope you'll ignore their stunning appearance.

They admit that the extruded aluminium cabinets are undeniably elegant. But they want you to appreciate how their shape and rigidity reduces internal resonance.

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#### **UNKNOWN QUANTITY**



I am in the process of purchasing a CD player, amp, and speakers. After

initially listening to Copland CSA 28, CDA 266, and Sonus Faber Concerto speakers — which I liked very much, especially the build quality - the only reservation was that the sound did not appear as open or sweet as a Meracus Intrare and Tanto. We preferred this sound but the units do not appear to have the weight or build quality, and I've never heard of this hi-fi manufacturer.

Whilst I appreciate many systems are good and choice is down to personal preference, since this is a big purchase, I would appreciate some advice. Would different cables make a significant difference to the Copland's openness? Is the Meracus an obscure make, and is it of comparable quality?

Our room size is about 15x12ft. but I expect to move into a larger listening room. Listening is varied,

from chart music to some classical and jazz.

Richard Hyde, Woking, Surrey

JK Replies...Meracus is a German brand, from the same company that makes the glamorous Pyramid range (not available over here). We looked at the Tanto last year, and found it to sound very good; less positive comments however, were levelled at finish and styling. So we would seem to agree thus far.

As for cables, yes they do make a difference, especially to aspects such as openness, and it always pays to buy cables at the same time as the rest of the system. That way you can listen to the dealer's recommendations and make your own comparisons with ease

I would recommend you do this with regard to the whole system, at least a couple more times, thus acquainting yourself with the variety of options available. And make sure you play both your quiet and loud music through them.







I'm taking the first steps towards a new upgrade and require your Help!

I've just purchased some KEF Q35s to replace my ageing Wharfedale 801s, and have also purchased a Soundstyle HC100 rack to put my (soon to be replaced) Technics separates on. One of the drawbacks (!?) of living in Cyprus is the lack of direct choice, even though mail order is a possibility, with Marantz, Audiolab, Rotel and Mission being the only makes on offer.

I have a Technics SL-P420 CD and a SU-V55A amp connected by some vdH 'The Source'. Both are 12 years old now, and don't really do the KEFs justice. I have been offered a new Audiolab 8000CD and 8000S integrated amp for £1,000 but is this offer really too good to be true, should I put this money on something else? I listen to a wide range of music (classical

O Marantz PA-66KI amp.

to rock) and, as I often move service quarters, the room size varies. Alan Cook, BFPO, Cyprus

JK Replies...Yes, the Audiolabs do look like a bargain, but there is a reason for this. The Audiolab brand is no more — it has been replaced by slick new TAG McLaren products in the recently-launched F3 series (see pages 33 to 37). However, this doesn't make Audiolab stuff any less desirable at those prices.

Alternative options from your rather tight shortlist should include the Rotel RCD-971 CD player and Mission Cyrus SL amplifier or Marantz's budget KI Signature kit, the CD-63mkII and PM-66. The latter is the more proven option of the two.

O TAG McLaren 60iRV replaces 8000s.



# COPLAND O Copland CDA 266 - as sweet as a Meracus Tanto?

#### SPOILT FOR CHOICE



I intend to buy a CD player, amplifier and a pair of speakers and

am able to spend around £600-£900 per item.

My room size is 5 x 3 meters with a ceiling height of 2.7 meters. I would have to place the speakers relatively close (about a foot) to the rear wall (but far enough from the corners) for reasons of practicality. I would prefer floorstanders.

If you can't recommend suitable floorstanders, a pair of good quality bookshelf types (for closeto-wall placement), with matching stands, may be an alternative.

My taste is mainly electrical and acoustical jazz with some classical and rock.

I would like an open (but not over-bright), detailed sound, with weight, attack, and 'bite', plus fair bass extension. Unfortunately, Linn and Naim equipment is not available in this country.

Zoltan Pentek via e-mail

IK Replies...With the exception of the Linn Keilidh, there is only one floorstanding wall mount speaker that both fits your budget and warrants Recommendation. This is Castle's £500 Kendal – however, it may not meet your criteria for bass extension. We would suggest a decent stand-mount instead. The models that come to mind are the

Acurus ADC11: a CD to consider.



Audio Note AN-J/B or Acoustic Precision's Eikos FR1. Although the latter doesn't really plumb depths either, it tends to make up for it with sheer verve

So, working around the Audio Note, try and hear some of the following amplifiers: Audio Analogue Puccini, Copland CSA8, Densen Beat B-100mkII, Musical Fidelity A2, Roksan Caspian and Sony TA-F3000ES. You should be able to find some of these, and a comparative listen through the AN-J/Bs will quickly reveal which has the best balance for you.

As for a source component, favourites in your price band include the Acurus ACD11, Arcam Alpha 8SE, Helios Model 2, Cyrus dAD 3Q and Pioneer's PD-S505 Precision. Again you'll find a broad

> range of styles here but each should have something to tempt you - all you have to do is listen and enjoy.

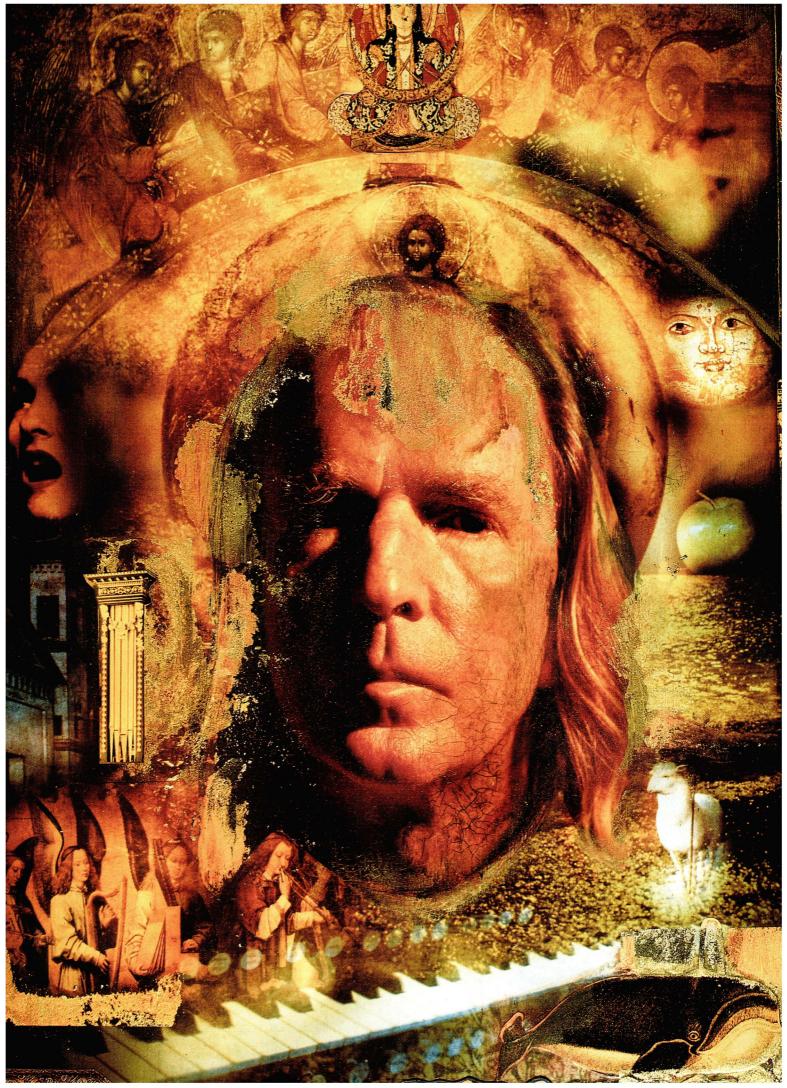
#### **HINTS & TIPS**

Although it's possible to buy a complete separates

hi-fi system from a single maker, most people prefer to assemble their set-up from different manufacturers, cherrypicking the best items from each range. By doing the latter, you should end up with a combination that gives the best sound possible for a given price. Sadly, it might not work out that way.

Although magazines do their best to give authoritative and impartial advice about which components sound best, a system put together from 'best buys' won't necessarily produce stunning results. When selecting a system, you're building a team that (hopefully) will produce results greater than the sum of the parts.

So take care to listen to the various combinations before you buy, and take advice from your dealer as to what goes best with what. Careful choice of interconnect cables will help to finetune the sound to your exact taste, but won't save a mis-matched system.



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REVIEW CASPIAN AMPLIFIER WHAT HI-FI MARCH 97

A £700 bargain. Mixes the best of solid state and valve worlds to produce a seductive sound.

The Caspian CD impresses like the Caspian integrated did. This is a very capable player and well worth £900.

REVIEW CASPIAN CD PLAYER HI-FI WORLD JUNE 97

Hi-fi rarely sounds as good as this.

Sounds absolutely great. Very difficult to fault.

REVIEW CASPIAN AMPLIFIER & CD PLAYER T3 MAGAZINE JUNE 97

Clearly ranks as Best Buy material thanks to its combination of musical excellence and fine build quality.

REVIEW CASPIAN AMPLIFIER & CD PLAYER HI-FI CHOICE JUNE 97

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# Have cake, will eat it

#### Lavardin's Model IT has amnesia, but apparently this is a good thing! Paul Messenger finds out more.

ntegrated amplifiers don't often make it into Statements, but integrated amplifiers don't often cost £3,200. And if that sounds like a lot of money to pay for a stripped-down, two-by 40 Watter – even one as chunkily built as this — don't be fooled. Lavardin's IT is actually one of hi-fi's great bargains. £3,000 is not a lot of money by serious high-end standards, yet this unassuming-looking black box is a genuine high-end contender, no question.

You've probably never heard of Lavardin Technologies. Neither had I until last summer, when I visited speaker manufacturer IMLab in France, which used amplification from Lavardin to demonstrate its topof-the-line Utopia models. I liked what I heard so much, I arranged to borrow one via UK distributor Absolute Analogue.

Now I'm even more impressed. It took only a few seconds after switch-on to realise that this amplifier was something very special. The midband has the delicacy and transparency normally associated with valve-driven designs. while the bottom end has the sort of power and authority attributed to solid-state electronics. In a very real sense, you can have your cake and eat it.

Ever since them I have been trying to find any significant chinks in its all-round performance. I don't fall in love with amplifiers very often, but



O The IT doesn't major on features, with only four inputs and 40 Watts. O Simple lines and rather nice knobs give the Lavardin high-end appeal.



...£3,000 is not a lot of money by serious high-end standards, yet this unassuminglooking black box is a genuine highend contender, no question.

Lavardin's IT has inspired some unexpected passions. I even find myself prepared to suffer the loss of remote-control idleness for the sake of the glorious sound quality.

#### A DISTORTED MEMORY

According to the company, the technical basis of the IT arose from identification of a new form of distortion, called 'memory distortion'. For example, in valve amps, the electrons pass through a vacuum, which retains no memory, whereas solid-state silicon components retain a trace of flux after the passage of electrons. By choosing engineering components to avoid this 'memory distortion', the company claims

SPECIFICATIONS		
■ Dimensions	43x13x38cm	
■ Power	40W/8 Ohms	
■ Inputs	4 line	

transparency of the best valve amps, alongside the low distortion and wide bandwidth of a high-feedback transistorised design. (See www.lavardin.com for more details.)

This concept is difficult to prove objectively, if only because current test equipment is naturally subject to the same effect, and it's also the sort of claim that immediately raises the hackles of any long-in-thetooth reviewer. Happily, Lavardin's IT does live up to its billing. I can't prove the 'memory effect', and don't have the know-how to analyse the internal circuitry, but it does carry a ring of truth, both philosophically and subjectively. If many components tend to show an unwanted 'memory effect', for example, this would tend to explain why reducing the number of components tends to enhance sound quality.

It would also go some way towards explaining why the IT sounds so astonishingly 'clean' and free from hash and artifice. I found this extraordinary 'cleanliness' almost disconcerting at first, as it seemed to leave the music understated almost to the point of malnourishment. But the more time I spend exploring the high points of my very extensive record collection, the more I'm becoming convinced that this amplifier is actually more accurate than the competition.

Its music making is not only uncommonly 'tidy' and delicate, but also unusually informative. Previously

O The Lavardin IT proves that 'high-end integrated amplifier' is no oxymoron.

undeciphered lyrics on 'parental advisory' rap albums became intelligible, while the usual unwanted intrusion of vinvl surface noise was notably diminished. Timing is right on the button, the bottom end is deep, firm and even, while tonal colours sound uncannily 'right', and the balance is reassuringly neutral. All these factors were further enhanced by using Lavardin's own partnering interconnects.

The outline price-versuspower equation might not look too promising, the feature count is sparse in the extreme, and I'd certainly suggest that partnering loudspeakers ought to have above-average sensitivity. But in every important sonic respect the Model IT is a revelational experience, and I strongly recommend that all audiophiles should make the effort to give it a hearing.

#### VERDICT SOUND 00000 BUILD VALUE PRICE £3,200.00 Lavardin's discovery and banishment of 'memory distortion' has created an amp which combines the best of valve and transistor sound quality. **■ TWO YEAR GUARANTEE** ☑ Absolute Analogue, PO Box 1532, Fordingbridge, Hants SP6 1SB **1** (01425) 654488

# Designs in the key of life

TAG McLaren Audio draws upon motor racing heritage. But can its amp and CD combo go the distance? David

**Vivian** investigates?



xcellence and desirability are not the same.
Beautifully engineered as a TAG Heuer watch is, not everyone wants one for Christmas. What works for David Coulthard wannabees might seem vulgar and pretentious to, say, a member of the London Symphony Orchestra.

McLaren's image is even more uncompromising: smooth, state-of-the-art Formula One technology, the world's fastest and most expensive road car, science sharp enough to slice salami. "Efficient", "clinical", "winner" are key words. And yet you'll always see more Ferrari flags at a Grand Prix.

It seems to be a question of precision versus passion.

McLaren and its associated companies may be at the cutting edge, but are perceived as being rather slick and coldblooded. Ferrari is flawed but its fans detect heart and soul. So which company would you rather have making your hi-fi?

Perhaps that's a little unfair. TAG boss, Dr Udo Zucker, is a hi-fi buff who happened to be in a position to buy his own hi-fi company (Audiolab).

O Note dual speaker outlets and plentiful socketry on the 60iRv (above). Couch accessory! (right).

His ambition, he says, is to create a line of TAG McLaren hi-fi that outperforms the Krell/Apogee set-up he listens to at home — so far the best he's heard. So really, deep down, it's a personal thing.

However, the question, "do you actually like what TAG McLaren stands for?", is one Zucker and his team have invited on themselves. The decision to project McLaren's image forcefully into the world of hi-fi has been pro-active and glory seeking. It comes with a fully formed set of consequences.

Audiolab, for instance,
which had a hard core of
loyal devotees, has
been completely
subsumed by
the TAG
McLaren
Audio hype.
All that's left is
a smattering of
key personnel —
founder Derek
Scotland is Technical

Director in the new régime — and the base architecture of Audiolab's 8000-series products, which are now TMA's entry-level F3 range.

If you squint from a distance at the £999 60iRv integrated amp and £1,248 CD20R stand-alone CD player, their size, shape and blackness are vaguely remi-

The charm of grey: both CD20R and
 60iRv have 4mm aluminium front panels.
 The high mass of the CD20R is no surprise with its crammed component bay.

niscent of the Audiolab antecedents. Close up, you'd never guess. Car designer Peter Stevens has gone for ultra clean surfaces

and, on the amp, beautifully tactile aluminium knobs that are so good to touch, the remote powered volume hardly gets a look in. The casing has been re-engineered to exclude exposed screw heads and build quality is of a greater magni-

...If you get off on close-tolerance cardboard, sculpted black polystyrene and instruction manuals in CD jewel cases, TAG McLaren's lavish approach can't fail to impress...

tude than Audiolab ever attempted. All this has a direct correlation with TAG McLaren's expertise with metalwork and machining. The neon-blue LEDs, which look stunning against the black casework, were apparently chosen in pref-

erence to the more usual red or green items by a clinic of customers — obviously fans of Chord's latest amps.

Although the basic 8000 layout remains inside, all the PCBs have been redesigned and all the old components – that's right, all of them — auditioned against higher-grade items. If found wanting, they've been swapped for new components. TAG McLaren claims there have been thousands of changes and a considerable investment in man hours. Upgrades include premium-grade metal film resistors, high-spec servo opamps, special power-supply capacitors and PTFE-shielded, silver-clad OFC wiring.

Before the sound, a word about the packaging and presentation. It's the best I've ever seen at the price (and some way above). If you get off on close-tolerance cardboard, sculpted black polystyrene and instruction manuals that come in CD jewel cases — so you can store them with your CDs — TAG McLaren's lavish approach can't fail to impress. You even get a discreet "F3" lapel badge.

Presumably by now, you won't need persuading that TAG McLaren's approach to designing, building and selling hi-fi is thoroughly professional. But you might be a little surprised by the way this gear sounds. Despite the deeply suggestive badges on their smooth black facias, 'racy' isn't the first word that springs to mind. Nor



O Signature electronics: the microprocessor 'brain' of the 60iRv amplifier.

the second for that matter.

In sound, the TAG McLaren CD/amp ensemble is characterised by its transparency, lightness of touch and a lovely delicate treble. It's a lucid, undemonstrative, easy-breathing delivery, notable for its smoothness and absence of fatiguing effects. A wealth of information is present in the music but it's well integrated and weighted; you're not overtly 'aware' of it.

Of the two components it's the CD player that has the sharper focus and snappier timing. The CD20R can sound wonderfully incisive, clean and quick, but not muscular. Hard rock lacks grit and grunt, while big orchestral works never really let rip. They are always beautifully coherent and well resolved.

It isn't exactly hi-fi at 200mph but it is rather good. Think Audiolab but more refined. And more expensive. Seriously, now, what did you expect?

#### **CD20R VERDICT** SOUND 00000 BUILD 666666 VALUE PRICE £1,248 Fabulous build and remote operation, but transparent, highly-detailed sound lacks meat and is bettered at the price. **2 YEAR GUARANTEE 60iRv VERDICT** SOUND 00000 BUILD VALUE 00000 £999 PRICE Looks, feels and sounds better than the Audiolab amp it supersedes. Smooth, open, refined, but lacks body and drive. ■ 2 YEAR GUARANTEE

■ Tag McLaren Audio 🕿 (0800) 783 8007

#### LAB REPORT

This is a combined Lab Report for both the 60iRv integrated amplifier and CD20R CD player, the latter being covered in more depth on p12 where it's compared to Audiolab's 8000CD. In brief then, the CD20R still uses the familiar combination of Philips CDM12.4 transport mechanism and Crystal's older CS4329 bitstream DAC. This is the 20-bit forerunner of the so-called '24-bit' CS4390.

Distortion is kept to vanishingly low levels (<0.0003 per cent) across the midband but increases by a factor of 100x through the far treble as the new analogue stage becomes stretched at peak outputs. Nevertheless, at more realistic levels (-5dBFs to -30dBFs), distortion actually falls back closer to 0.006 per cent to ensure a smoothsounding treble. Low-level linearity remains true to within tight +0.0/-0.3dB limits over a full 100dB range and jitter is very low - if not state-of-the-art - at just 222psec. The 104.6dB S/N ratio is pretty typical for Crystal's DAC but it's the low +1.8dB noise modulation that really propels the CD20R forward.

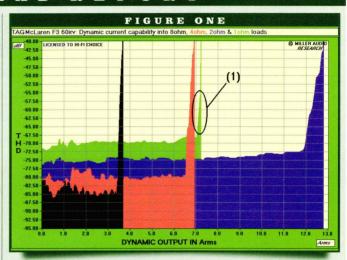
The 60iRv amplifier is an evolution of the Audiolab 8000S. TAG rates this unit at 60W/8 Ohms but, in practice, it'll achieve around 80W/8 Ohms across the board, increasing to 108W under dynamic conditions (102W for 20msec). You might like to compare the dynamic current profile for the 60iRv with that for the 125M monoblocks (p36). These amplifiers use similar output stages and very similar protection circuitry, so the steady increase in current delivery to 12.8A into 2 Ohms (blue trace) followed by muting at levels above 7.2A into 1 Ohm loads (green trace) (1), is familiar. This trend is equivalent to a dynamic power output of 108W, 192W, 329W and 52W into 8, 4, 2 and 1 Ohm loads, respectively.

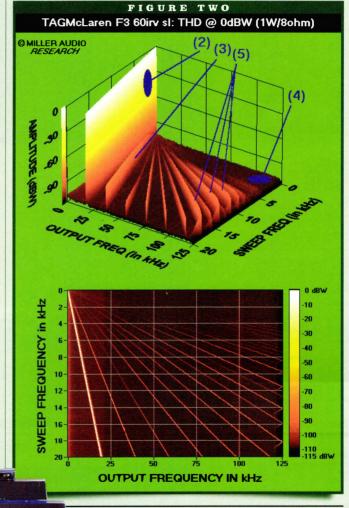
I've used the same vertical axis on both plots with -40dB (=1 per cent THD) at the top and -95dB (=0.0018 per cent) at the bottom. Note how the levels of distortion remain pretty much

unchanged at both low and high power outputs, despite increasing uniformly as the amplifier drives tougher 8 then 4

then 2 Ohm loads, etc. By contrast, the 125M monoblocks have 5-10dB lower levels of distortion at low power.

The 3D plot allows us to visualise these patterns of distortion in response to a full 20Hz-20kHz sweep (2) at 1W/8 Ohms. Once again, a dominant second harmonic (3) accounts for much of the 0.025 per cent total, while the low (high





frequency) noise (4) allows an extended fan of high-order crossover distortions to thrust upward and outward.

Once again, note how the stronger 7th, 9th and 11th harmonics (5) — visible as brighter tracks on the 'overhead plot' — differ from those of the 125M. This is all part and parcel of the 60iRv's subjective 'flavour' which, with its healthy delivery, low 0.05 Ohm output impedance and

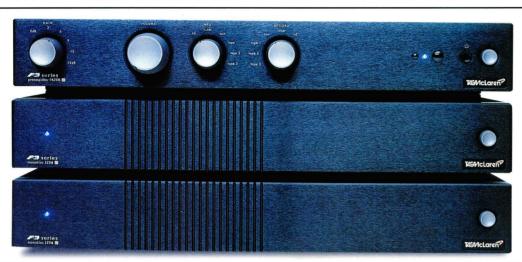
excellent immunity from RFI, should ensure reasonably consistent, if unexciting, behaviour.

unexciting, bendvious	
CD20R SPEC	IFICATIONS
<b>■</b> Dimensions	45x7.5x31 cm
■ Analogue Outputs	2x RCA phono
■ Digital Outputs	RCA phono electrical
■ DAC Type	1-bit
60iRv SPEC	IFICATIONS
■ Dimensions	45x7.5x35cm
■ Power Output	60 Watts
■ Inputs	6

0

# Top gear!

Jason Kennedy trials TAG McLaren's new preamp and monoblock threesome. They look superb, but can they offer sound to match?



e've been waiting for this moment since last autumn's surprise announcement: that one of the country's bestestablished brands, Audiolab, had been purchased by one of the most prestigious names in motor racing, TAG McLaren. In fact, it was acquired by the company because the guy who runs TAG Electronics, Dr Udo Zucker is a hi-fi nut when not being an award-winning physicist. His audio qualifications run to a Krell/Apogee system, which infers a fair degree of commitment from a man who works too long and too hard. In fact, I don't think Udo was ever the sort to sit at home and build a tube and horn rig.

It has taken just over nine months for Udo and the team to revise and rebuild Audiolab's 8000 series, which is pretty good going considering it took nearly 15 years to come up with the originals. But now. of course, the company has access to the prototyping facilities used by the Formula 1 team, and it doesn't like to hang around. What TAG McLaren Audio has created in the F3 series, as it's known, is not merely a selection of restyled 8000 components, but re-engineered designs with all-new circuit layouts and a re-evaluated selection of components. So even though TAG McLaren has succeeded in emulating (while refining) the Audiolab casework, enabling existing users to mix and match, the sonic performance, or so we're told, has been improved.

One thing's for certain: the packaging has been upgraded quite dramatically. All three of these products came equipped with two CD jewelcased booklets: one a general guide to the product-type in question, written by HFC's illustrious Consultant Editor; the other, a comprehensive manual for the specific component. As well as this there's a Test Tracks CD of audiophile recordings, and an

> enamel F3 lapel badge. These, in a large, shiny box, make powerful first impressions.

Front-panel finish and styling are very good.
From the bright-blue LED to the carved-from-solid, anodised-aluminium knobs, you can tell this is a

thoroughly-engineered product. Operation is gratifying, too, with microprocessor-operated relays making little clicks just after you move the input knob. The preamp mutes between input selections, for sound-quality reasons.

Around the back, things appear largely unchanged since the Audiolab days, or at least as far as I remember those components. On the PA20R preamp, for instance,

you have three standard-line inputs and three tape loops.
This will be a boon for all home recordists, if we're to judge

from our readers

letters this month (see p15). In addition, there is a pair of phono outputs, and alternative balanced XLR sockets. The latter seem logical enough until you notice that there are no matching XLR inputs on the power amps. It would have been nice if this had resulted from the F3 makeover.

○ Slickly-executed innards of the PA20R (above); remote handset (left). Underneath, the 'rocket red' company flash is echoed in stylish crimson Sorbothane feet anchored in aluminium retainers — a nice touch

Both PA20R and 125M monoblock power amps feature what is now being dubbed 'sl' (straight line) technology. In essence this refers to directsignal coupling without the use of capacitors at the output, but feedback to offset DC. The power amps claim a comfortable 145 Watts into eight Ohms, and deliver it via two pairs of BFA output sockets.

BFA plugs are not provided, so if you don't have spade terminals or (skinny) bare wire, you'll need adaptors. The 125Ms also feature input and output phono

...From the bright-blue LEDs to the carved-fromsolid anodised knobs, you can tell that this is a thoroughly-engineered product...

sockets, the latter for daisychaining amps or loading the input impedance. They also allow bi-amping with single interconnect runs.

The most significant difference between F3 and 8000 is in price. The PA20R is £1,499.95 and the 125Ms £1,199.95 each, making this almost a fourgrand package — nearly £1,000 more than the equivalent predecessors combined.

#### SOUND QUALITY

In my system, the F3 kit had two unenviable tasks: replacing the Sirius pre/power amps reviewed last month, and driving the mighty B&W Nautilus 802. The N802 didn't respond favourably, with its presumably tough amplifier load making the 125Ms' efforts seem dynamically challenged. But these boxes did reveal the extremely

clean, muddle-free nature of the F3s. Even the most chaotic material didn't faze them. This wasn't due to skimmed-over information: resolution was equally strong. Expressiveness, however, was lacking after the Sirius 200 Watter; and alternative speakers were a necessity.

Swapping speakers from the N802s was always going to be a revelation. Indeed, the subsequent Eikos FR1 and Audio Note AN-J/B suffered in contrast. But under less trying circumstances, the F3 range-toppers are agile devices. They offer strong imagery, in particular when highlighting differences between alternative recordings. The soundstage contracted and expanded both front-to-back and left-to-right with different productions. Timing was competent, speed impressive.

While using the Audio Notes, I substituted a DNM PA-3 power amp of similar price to the 125M, which revealed the latter's Achilles heel — a lack of musical coherence. With the DNM, one got a stronger impression of musicians playing together in a way that makes sense, while perspective and balance was a lot more natural and tone more finely rendered.

### CONCLUSION

TAG McLaren's makeover of Audiolab's flagships has been largely successful. I used 8000MXs earlier this year, and they weren't as clean as the 125Ms. Build, finish and styling are exemplary and the remote preamp is a dream to use. Sonically these components represent a refinement over their predecessors rather than a quantum leap. This means that if the Audiolab sound appealed to you, then this combination (or the non-remotecontrol PA10 preamp and 100P stereo power amp) should represent a worthy step up the ladder towards audio Nirvana.

## VERDICT SOUND BUILD VALUE PRICE E3,899.85 Refinement on the Audiolab model, very clean sound with good imaging, but undeniably short on thrill power. TWO YEAR GUARANTEE TAG McLaren Audio 22 (0800) 783 8007

### LAB REPORT

This is a slick and powerful combo. TAG rates its 125M monoblocks at 125W/8 Ohms but they'll actually achieve a minimum of 155W across the audio range. Read the literature and it soon becomes clear that the power amplifiers are designed to drive speaker loads down to 2 Ohms, with protection against shorts being invoked thereafter. We can see this from the profile of its dynamic current output into 8, 4, 2 and 1 Ohm loads (black, red, blue and green traces in Fig. 1).

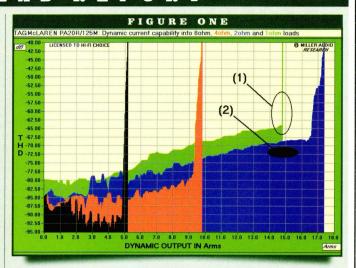
In practice, voltage clipping limits the perceived 'maximum' current to 5.2A and 9.8A into 8 and 4 Ohm loads, while a full 17.3A is available to sustain momentary power outputs of 600W into 2 Ohm loads. This should be more than sufficient for most conventional loudspeakers! Into 1 Ohm, however, protection cuts in (1) at 14.8A (or 16.7A over 5msec), thereby limiting the maximum power to 218W. The dynamic power available over 10msec into 8, 4, 2 and 1 Ohm loads is 216W, 385W, 600W and 218W, respectively.

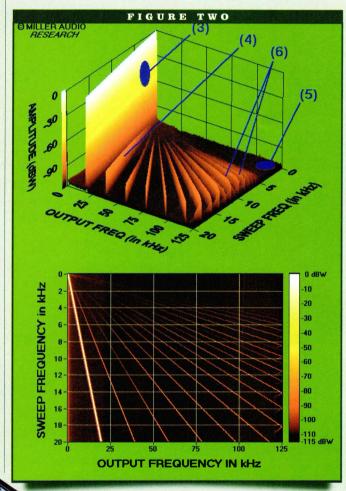
Throughout the 8 Ohm profile (black trace) distortion never rises above 0.006 per cent, and even when wrestling with a 2 Ohm load, never exceeds 0.04 per cent as far as 550W (2). So, though TAG's protection may seem rather brutal, it will mute the amplifier rather than allow it to output a potentially damaging signal. You may notice a 'swishing' sound and increase in distortion as the preamp's volume control is adjusted, but this is a sideeffect of the DC-servo as it tracks changes in volume and kills any harmful DC offset. The same circuit was called 'Zq Servo' in the 'equivalent' Audiolabs. The 3D plot (Fig. 2) gives us a more

detailed view of distortion at low power in response to a full audioband sweep from 20Hz-20kHz (3). A strong secondharmonic (4) reaches 0.03 per cent at high frequencies but, because of the amplifier's exceptionally low noise (5), a 'fan' of high-order distortions is also revealed (6). These extended harmonics are typically caused by a combination of crossover distortion (as the 125M's power transistors rouse from their quiescent state) and a gradual reduction in the effect of negative feedback at high, treble frequencies. You can follow these patterns in the 'overhead' image, and compare subtle - but visible - differences between the same plot of TAG's 60iRv integrated amplifier (p34). In other amplifiers, such distortions might be

O 'Overhead' image of the 125M.

buried, but their exposure here may





well explain some of the less complimentary remarks of our listeners.
With the PA20R set to 0dB (unity) gain, the overall (pre/power)
A-wtd S/N ratio is an incredible -91.4dB (re.

1W/8 Ohms), deteriorating to -83.9dB at the full (+15dB) preamp gain setting. Bearing in mind that the 125M power amplifier requires just 1.3V for full output, this means the preamp can be left at 0dB gain and not run out of steam. If you do select a higher gain value, the masking effect of the extra noise may ultimately influence the sound quality.

### 125R SPECIFICATIONS

- Dimensions 75x445x325mm HxWxD
- Rated power output 145 Watts/8 Ohms
- Inputs/outputs Phono RCA/BFA speaker

### PA20R SPECIFICATIONS

- Dimensions 75x445x325mm HxWxD
   MM/MC phono no
- Inputs

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March 1998

MD-MS702H(2) Portable MiniDisc Recorder/Player



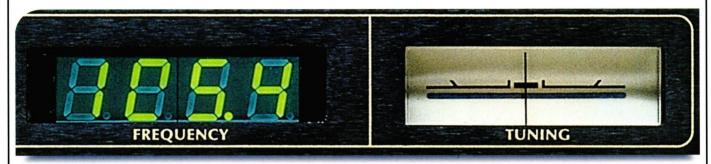






## SUPER TEST!

Now that digital audio broadcasting is just round the corner, is it still worth investing in a good tuner? Richard Black puts seven new radios on test in an attempt to find the answer



THE CAST LIST				
Denon TU-1500RD	£250	p41		
Magnum Dynalab FT-11	£499	p42		
Marantz ST-48	£120	p43		
Myryad MT100	£530	p44		
Pioneer F-504RDS	£300	p47		
Roksan Caspian Tuner	£595	p49		
Sony ST-SB 920	£180	p51		

M radio is now in a sense the 'senior' source in a modern hi-fi system — it's certainly a lot older than CD and cassette, and as such has had a lot of effort put into it's perfection over the years. Its perfection and, sadly, its demise, too, as broadcasters struggle to get more stations on air and to play louder than the next — which has led to the widespread use of heavy compression.

So is radio still a legitimate hi-fi source? I think the answer is yes,

as long as you want to hear what they're broadcasting, and want to hear it as clearly as possible, you are in the market for a good tuner. Next question: is an FM tuner still worth buying, given that digital audio broadcasting (DAB) is just round the corner? Again, yes, unless you're the kind of person who has to be first with everything, in which case you may like to know

...as long as you want to hear what the stations are broadcasting and to hear it as clearly as possible, then you are clearly still in the market for a good tuner...

that Arcam and Cymbol have just announced the forthcoming release of the first hi-fi DAB tuners. But it will take ages to get everyone from FM on to DAB, so FM will be around for a few years yet.

The important thing to remember about a radio is that it's not one component but two — the tuner and aerial. With a piece of damp string for an aerial, even the best tuner in the world won't hold a candle to a good budget model fed from an external aerial — at least not unless you're near, and have line of sight from, a powerful transmitter.

If you're in a building where an external aerial isn't permitted or practicable, you'll have to do the best you can with an indoor type — but, if at all possible, get a good rooftop aerial fitted. This shouldn't cost over £80, unless you are in a

Unless you must be first with DAB, FM tuners are still excellent value.

'fringe' area and need a particularly big one. Your hi-fi dealer may be able to recommend an aerial installer — but beware of sharks, as I found out recently when one bodged an aerial on a friend's house by bending it round the chimney pot! However, it's the only trouble I've come across.

Radio is cheap. The software, after all, is free, and good tuners start at little over £100. For the good news, read on...

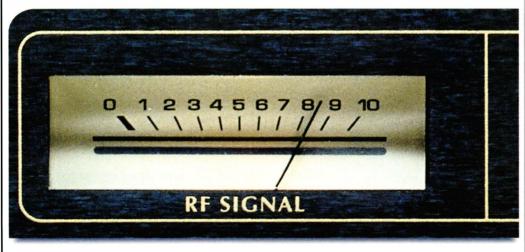
### **GLOSSARY**

AERIAL (ALSO ANTENNA): The bit that actually picks up the radio signal. Think of it as analogous to the cartridge in an LP player – yes, it's that important.

AMPLITUDE MODULATION (AM):

A way of encoding audio, but it usually just refers to the old Medium Wave and Long Wave bands.

FREQUENCY MODULATION (FM):
Another way of encoding audio —
usually refers to the VHF band.
MULTIPATH DISTORTION: If the
radio signal from the transmitter has
bounced off a lot of objects before it
reaches you, a rather objectionable
kind of distortion can arise, sounding
a bit like a miss-tracking LP. Solutions
include a better (longer) aerial, a
higher aerial, or a better tuner.
RADIO DATA SYSTEM (RDS): A
system for transmitting auxiliary data,
including station name and programme
type (PTY), along with the audio.



### **DENON TU-1500RD**



comes from the maker of the near-legendary TU260, the budget tuner which, for years, everyone else's model had to beat - not that many of them got anywhere near. And although not in the super-budget league, this one certainly looks as if it packs a lot in at its price. Not that it's got many automated features, but it does have full RDS, complete with traffic announcement mode, and it has a switchable RF attenuator (a lot of tuners have this, though usually you'll only need it if you're living within a couple of miles of a major transmitter) and switchable IF bands. The normal 'Wide' mode gives best sound if the RF signal is good, but if you have trouble with breakthrough from nearby stations 'pirates' can be a nuisance in urban areas - the 'Narrow' setting helps reject them at the expense of slightly worse distortion and channel separation.

A single rotary knob serves for manual tuning and also preset selection – there are 40 presets — but the control logic AUTOMANU has been arranged so that true manual tuning is only possible while in mono; a bit of a bore for those of us who prefer to do things manually. Inside the unit is the usual mix'n'match selection of ICs - I don't

O The Denon's station ID locks onto the big brick in Chris Evans' empire.

...bass seemed to extend down effortlessly to the bottom reaches of hearing while treble suffered no more restriction than any other tuner.

wish to sound cynical about this as there's no viable alternative if you're going to make a tuner for less than an arm and a leg, but the majority of modern tuners are pretty much permutations of a surprisingly small pool of generally-available ICs and tuner heads.

### SOUND QUALITY

This tuner might have done a lot better on the main listening tests (to real-live radio

> - mostly Proms, the summer being a good time to review tuners!) if it had been correctly aligned. This only came to light at a late stage while doing some quick checks in the lab, and perfor-

mance was soon brought into line with the claims in the manual by a swift tweak to an adjuster (don't try this at home unless you have a room full of test gear). All very well, but for one thing the tuner should have been

aligned in the first place, and for another the tweak required was amazingly small, only a few degrees of rotation for an improvement in distortion by a factor of three, making me wonder just how stable the alignment is.

So, slightly off-colour, the TU-1500 nevertheless proved itself highly listenable. It was not as

quiet as the reference Revox A76 but came close and was certainly quiet enough to allow one to hear studio noise fade down and up as Radio 3 handed over between announcers. Its main drawback was some congestion in the sound which collapsed images towards the centre and made details just slightly harder to follow than on some of the others.

Once realigned on the bench and auditioned via the stereo generator, however, this tuner really sang. In direct comparisons with the source CD it was possible to hear some compromising of the sound, and after a long period listening to the tuner the extra clarity of the source was clearly apparent. But in terms of freedom from obvious nasties noise modulation, crunching, tonal imbalance or serious congestion the sound was remarkably fine. Bass seemed to extend down effortlessly to the bottom reaches of hearing while treble suffered no more restriction than any other tuner - remember that FM stereo loses half an octave of treble as a direct consequence of its specifi-

### O Fully featured and solidly built, the TU-1500RD has RDS and remote control.

cation. Under these 'ideal' conditions noise also nearly vanished, suggesting that the RF stages are not the most immune to the vagaries of real reception conditions. Indeed, performance does seem to benefit noticeably from a really strong RF signal, so as usual, buy a good aerial! Even AM performance is well above average, if a touch bassy and for some reason louder than FM.

### CONCLUSION

This is potentially an exceptionally fine tuner for the money, but that alignment problem is slightly worrying. Assuming Denon can address that, a strong Recommendation is in order.





### **MAGNUM** Dynalab FT-11



everything, Magnum Dynalab makes great play of this being an analogue — sorry, 'analog' tuner. This possibly needs some explanation. Almost all modern tuners are 'digital' in that the local oscillator signal (the reference frequency generated internally which is modulated with the incoming RF to produce the audio) is generated by a digital multiplier circuit called a 'phase-locked loop' or PLL from a crystal oscillator. The actual audio path is (usually) purely analogue. However, the pros and cons of digital versus analogue local oscillators are much debated in radio circles. In general, if you want to produce a really stable and accurate frequency at a low cost, a crystal oscillator plus PLL is the way to go. For really cheap stuff such as clock radios a basic analogue oscillator does perfectly well, and in analogue tuners like

and lower RF distortion. A further advantage of analogue tuning is that it is continuously variable, rather than moving in the steps that characterise digital tuners (usually 50kHz or 25kHz). In fact, since the FT-11 uses a wirewound potentiometer to set frequency it still moves in steps,

the FT-11 a rather

more sophisticated

version of the same

including lower noise

thing is claimed to

offer advantages

O Basic facilities are complemented by signal strength and tuning guages.

but small ones of approximately

...where this tuner does definitely score is under less-than-optimum signal conditions. Especially with very weak signals, where the stereo blend is a real life-saver

3kHz. This is mostly useful as another way of sidestepping any interfering stations on a nearby frequency.

This is a relatively hair-shirt product, and gone are the multiple presets and RDS functions of typical digital tuners. However, there are three presets which can be set with a screwdriver and accessed via good old-fashioned pushbuttons. There's the usual

> stereo/mono switch, and in addition the FT-11 features automatic stereo blend at low RF signal levels, so that performance degrades slowly towards mono as the

signal fades. In practice it's a clever idea and works well allowing listenable stereo of only moderately compromised separation at levels where most tuners are either unbearably noisy or mono.

RF SIGNAL

Two traditional meters indicate signal strength (as so often, it could do with a bit less indicated sensitivity) and centre tune, and there's a digital frequency readout generated by a circuit apart from the RF and audio but just 'sniffing'

the local oscillator. That's about the lot. Inside the unit is a single well-made printed circuit board with two ICs (plus one for the frequency readout) and a discrete transistor RF front end. Components are generally of normal commercial quality.

### SOUND QUALITY

Despite the great things claimed for its analogue technology, this turned out to be the noisiest tuner in the test. Not by a great margin, and on paper by barely a whisker, but subjectively it had a rather intrusive noise quality. This was probably due to its spectrum being more concentrated in the middle of the audio band rather than in the high treble, as in most tuners. Why this should be is not obvious, and the FT-11 met its published specs without trouble all except channel separation for which a rather optimistic-looking figure of 50dB was quoted. It nearly managed it, too. In mono it's very quiet indeed.

Due at least in part to the noise, the sound of the FT-11 is generally somewhat veiled and unclear, and in passages of music with a lot of instruments playing independent lines it's quite hard to hear what they're all doing. There's also some slight muffling and coloration of very high treble sounds such as struck cymbal, which is reduced to a rather unexciting 'ping' sound. Solo voice sounds fairly clean, but when gathered en masse in choirs, voices can become quite confused.

Where this tuner does definitely

○ The FT-11 wears its 'analog' colours on its brushed aluminium sleeve.

score is under less-than-optimum signal conditions. Especially with very weak signals, where the stereo blend is a real life-saver, and also with breakthrough from nearby stations or distortion due to severe multipath, it maintains its cool longer than most others. With careful tweaking of the tuning knob it can often provide clear reception of stations which other tuners struggle with.

### CONCLUSION

A very mixed result, then, but a useful tuner to bear in mind for the radiophonically challenged. However, if you have a strong signal in your area it may not look so competitive.





### **MARANTZ** ST48



margin the cheapest tuner in this survey, and admittedly looks it, its list of features is quite impressive. Like most modern tuners it has RDS which displays information about the transmitting station and the type of music broadcast, although it doesn't display quite the full range of information. The user can also assign a title to a preset station. though with the basic key array it's a bit tiresome to do. The ST48 has a real-time clock built in, and in addition to a 'sleep' function which sets it to turn off automatically after a given time (from 10 to 120 minutes). It can be set

to turn on every day at a certain time – a sort of hi-fi version of the old clock radio, though of course you'll also need an amplifier on as well.

As I hinted above, it's not the smartest front panel around but it's perfectly functional and reasonably easy to follow. At this price it would be too much to ask for a rotary tuning dial — these things cost money, while the ubiquitous membrane switches cost next to nothing. Manual tuning is pretty slow, but fortunately there are 30 presets for each of the FM and AM (MW) bands and even an automatic tuning mode which will search out and store available stations. There's a signal strength

O It looks like Denon's TU-260L budget wonder finally has some competition.

...it was a surprisingly good match for most of the other tuners in terms of receiving distant stations or those affected by multipath...

meter which, as usual, is hopelessly optimistic, indicating full signal strength at levels barely adequate for quiet mono reception, never mind stereo.

Internally there's little enough to look at. Apart from the

> tuner 'head' there are five ICs — mostly Sanyo parts, the firm having almost a monopoly on radio ICs, apparently — and half a dozen transistors doing the audio work,

plus another IC handling display and control functions. The FM aerial input is on a male coaxial connector and the AM on screw-down clamps.

### SOUND QUALITY

NEXT

Given the proliferation of Sanvo parts, maybe that company should take most of the credit for this tuner's fine performance: and make no mistake, at the price it's more than respectable. It's not amazingly quiet but with the amount of compression applied to most broadcasts that's not such a great problem (compression, after

all, tends to boost hiss in quiet passages, to a high enough level to mask that of most tuners), and if it's a little hard to listen 'through' to hear what is happening in the inner parts of an ensemble, the information one seeks is still there. Connected to the outdoor aerial it was a surprisingly good match for most of the other tuners in terms of receiving distant stations or those affected by multipath, and with strong stations it turned in a good, clean performance.

With the indoor aerial performance was less good, which is rather ironic since people who have only £120 to spend on a tuner may well not stretch too much in the way of an aerial, but it was still not far behind the others in terms of listenability. Still, it does reinforce the message about the importance of a good aerial, and in fact on most stations this tuner with the outdoor aerial (estimated current cost including fitting less than £100) comprehensively outperformed all the other tuners including the reference Revox with a giveaway indoor wire aerial.

Listening to CDs via the FM generator system, the tuner's limits became more apparent, particularly the noise which showed up more strongly with an uncompressed source. It also clearly lacked the last few ounces of bass weight, but went down cheerfully enough to within a few notes of the bottom. Apart from that its sound was generally clean, with just a little congestion in the stereo image and some coarseness

### Marantz's ST48 David looks set to slav a few Goliaths in the tuner market.

when the music got loud. Lab tests showed clearly that the Marantz's measurements aren't up to the standards of the dearer tuners, but not in any alarming ways — slightly higher distortion and worse channel separation, but still adequate for the task. AM reception is OK — pretty good on spoken voice, in fact.

### CONCLUSION

This tuner would not have looked silly at a price some 50 per cent higher and as it is seems to offer a very good combination of features and performance at its modest price. A clear Best Buy.





### **MYRYAD** MT100



this is one of the more attractive hi-fi products to come my way in a while. The colours on the display, and their relative brightness, are well chosen and the red 'stereo' and 'on tune' legends almost appear to stand proud of the display. The front panel is a substantial chunk of brushed alloy and the whole affair is very well

made and assembled. This is a classic specialist hi-fi product, not quite minimalist but with absolutely no more features than necessary. Yes, it has presets (20) but no RDS, no AM and no switchable IF bandwidth. It can search for stations, though, and it has that rare commodity - a really useful signal strength meter. Strength is given as simply 'SI1' to 'SI8', but 8 doesn't light until the incoming signal is several millivolts of RF, plenty enough for optimum performance. Most tuners, if they have a meter, claim to be receiving full signal when in fact it is just barely strong enough for reasonably noise-free stereo. In practice, a good deal more is required for subjectively lowest noise and clearest sound, but I suppose manufacturers are worried that people might think their tuner is 'deaf' if it doesn't indicate full strength when a competitor's does. A pair of phono sockets at

O the MT100 does it audiophile style with an honest meter and no fripperies.

the sound is for the most part full-bodied with excellent bass, only becoming a little synthetic high up the keyboard...

the rear allow this tuner to be linked to other Myryad products for remote-control purposes.

Specialist British product this may be, but inside most of the functional parts are Far Eastern — good ol' Sanyo

ICs again and a front end from Mitsumi. The intermediate frequency (IF) amplifier is a discrete-transistor design, though, and there are a few more high-quality parts than most Japanese tuners can boast. You won't find a toroidal transformer, especially one this big, inside a 'big-name-brand' tuner either.

### **SOUND QUALITY**

In common with one or two others in this test, the MT100 was somewhat hampered by the character of its noise. No FM tuner is infinitely quiet. In fact, among the better examples, the specs on paper don't vary much, but quite large subjective differences can arise due to different frequency distribution of the noise. This one has a relatively 'warm' noise character but unfortunately that means that proportionally more of the noise is in the region where the ear is most sensitive, and it therefore intrudes more. Whether this will bother you depends not least on what radio stations you listen to - Radio 1 and most commercial stations are so compressed that noise is not even an issue, but Radio 3 at best, and occasionally Radios 2 and 4, can broadcast quite a wide dynamic range. It's becoming clear as people research the psychoacoustics of digital systems that really low noise is more important than anyone used to think, and it's a shame to waste even a dB of what dynamic range is broadcast.

Hence the MT100 shows off its best with loud music, especially when there's not too much treble in evidence. A good strong orchestral fortissimo has no terrors for it, although if a cymbal crash is added the result is not always entirely convincing. Likewise, with piano the sound is for the most part full-bodied with excellent bass, only becoming a little synthetic high up the keyboard, and slightly muffled by the noise in very quiet passages. In non-classical music of the vigorous persuasion it was one of the best in the group, maintaining a good driving bass line with aplomb, conceding only a little grain and lack of clarity on percussion instruments. Voices generally come over well.

Under poor reception conditions performance is about average, noise starting to rise as the signal

O Myryad proves that tuners can have style and need not be boring and black.

dips substantially below 1mV (about SI6 on the indicator) and with moderate resistance to multipath distortion. Myryad clearly assumes that people who buy this tuner will have a good aerial, which is probably fair enough.

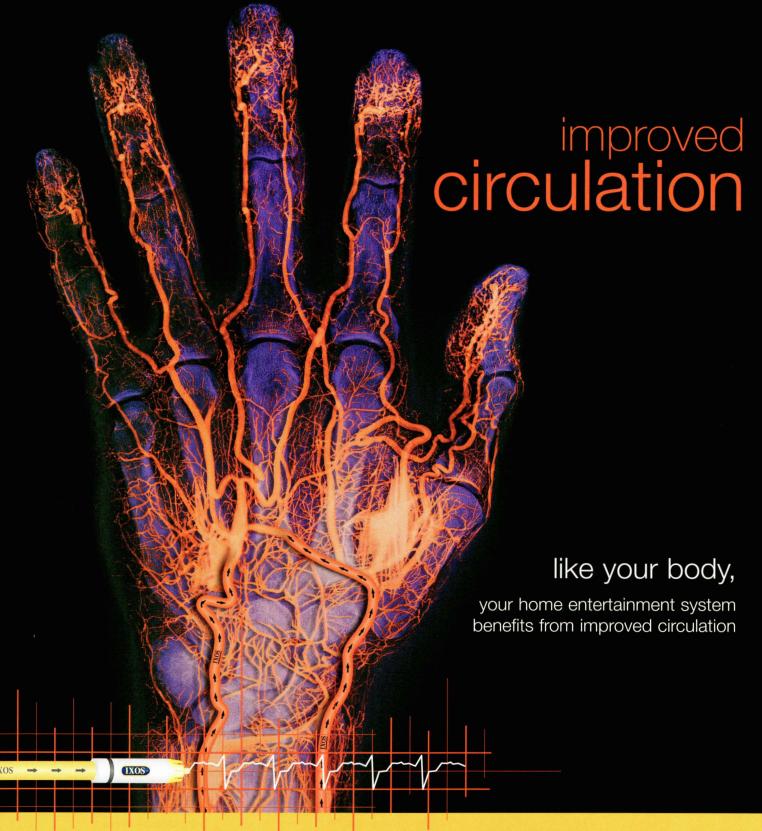
### CONCLUSION

This is undoubtedly an attractive product and it has no major flaws. but it is hard to avoid the conclusion that its performance is bettered overall by several cheaper tuners — a lot cheaper — which share the generic technology and also add more features. Worth a listen, though, especially for Myryad system owners.









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### **PIONEER F-504RDS Precision**



rates from Pioneer consists of souped-up versions of the 'standard' originals, the relevant audio witchcraft being conjured up by UK audio maverick Tom Evans. In this case the souping-up has been fairly subtle and the basic guts are clearly pretty much standard Pioneer fare, but as often as not it's the subtle details which can really pull a product up from the serried ranks of the ordinary and make it special. The basic F-504 was reviewed back in HFC 166 and didn't entirely blow Paul Messenger away: let's see if the tweaked one does any better.

There are plenty of features in evidence. Two aerial inputs cater for those folks with both an external aerial and a connection to a cable system. 40 pre-Classic sets should cope with enough FM and AM stations for anybody's taste, and there's full RDS on the FM band. Never having lived with RDS I didn't realise what I was missing, but I can definitely see the point of a system which will automatically search for a given programme type for you. Many's the time I have fruitlessly searched the bands for a news bulletin, doubtless just missing several on the way - an RDS radio will find one in seconds. Like e-mail, this seems to be a genuinely useful

O Full RDS means you can search by program type on the Pioneer F-504RDS.

...the Pioneer seems to make the most of the radio signal and to an extent compensates for the relative weakness of its audio section...

application of technology!

Other features include, on the reception side, switchable IF bandwidth, an RF attenuator, fine tuning (in 25kHz steps rather than the usual 50kHz) and a choice of direct frequency entry, rotary knob or automatic search tuning, while on the control side it's also

> possible to add title to preset stations. The F-504 will receive AM broadcasts, on the MW band only. There's a useful signal strength meter, that needs a healthy 1mV or so to peak.

Pioneer is one of the very few tuner manufacturers to buck the general trend of using standard IC parts for most of the work, preferring instead to design its own, for some jobs at least. The largest IC on the well-filled circuit board has Pioneer's trademark piece of copper plate glued to it, presumably to cut electromagnetic radiation and pickup. Really, specialist hi-fi manufacturers must look at this kind of product and weep — there's absolutely no way a small company could offer this much componentry inside a £300 box and there's only so much you can do in radio design with a small component budget. No wonder there are no budget tuners from specialists.

### SOUND QUALITY

All the busy circuit boards in the world are wasted if they don't do the business, however, and this tuner does seem to justify its existence well. It was actually the only tuner in the test that definitely made a better impression when receiving real broadcasts than when connected via cable to an FM generator. In the latter instance, although its amazingly low level of hiss (subjectively the lowest in the group) was a clear advantage, it gave rise to mixed feelings. On the one hand it is clearly very accurate tonally, while on the other it seems rather dull and shut in. Switching directly from source CD to tuner it was easy to hear the percussion section lose a good deal of its sparkle and brilliance and the sound became a little mechanical, but the lack of coloration and distortion made the result quite listenable nevertheless.

Off-air the results were very good. The Pioneer seems to make the most of the radio signal and to an extent compensates for the relative weakness of its audio section. It's not that it performed stunningly with very weak stations, but even a 'good' off-air signal is seldom as clean as that from a generator only a yard of cable away, and that's everyday reality in O The Precision treatment has turned the F-504RDS into a regular giant killer.

tuner world. Bass is good, treble in these circumstances no more restricted than on any other tuner, and the only disappointment was a slight lack of depth to the image, which barely detracted from a good overall performance. AM performance is considerably above average.

### CONCLUSION

Whether due to the 'Precision' mods, local reception conditions or simply better alignment, this does seem to be something of an upgrade on the standard F-504, and as such offers good sound for a fair price. Recommended.



■ Bands

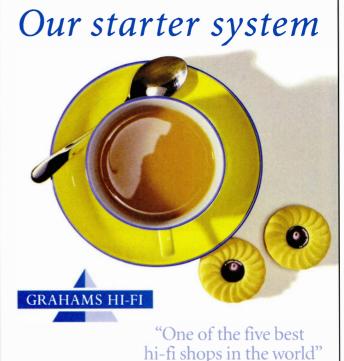
RDS



FM, MW

Yes





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### **ROKSAN** Caspian



range of products, all called Caspian. Confused? Well, only the tuner has a digital frequency display. After all the buttons and lights of the Japanese tuners in this test, Roksan's neat and restrained front panel comes as something of a rest for the eyes. It's a very attractive panel too, the only feature one might wish for in some circumstances being a way of dimming the display which can be just a shade too bright in a dimly-lit room.

Operation is about as simple as could be. The left-hand rotary knob selects the preset channel, scanning up or down the available 50. The 'Mode' button selects mono, stereo or standby, 'Store' does what it says and the righthand knob is for manual tuning, in 10kHz steps. That's really useful, actually: many tuners have 'fine' tuning in 25kHz steps which is handy for sidestepping interference from strong nearby stations, but quite often 10 or 20kHz is required; in fact, the less the better for optimum sound. As well as manual tuning the Caspian offers automatic tuning, activated by a really quick flick of the wrist on the tuning knob, and if you want the tuner to scan the entire band and memorise all the stations strong enough to listen to, it can do that too.

Roksan has produced a rather natty signal strength meter consisting of an array of seven by five

O No RDS but good fine tuning and signal strength display.

...essentially it has a pleasingly neutral tonal character with particularly good bass extension, and hiss is on the low side of average...

LEDs. A vertical line of these lights 'up when tuned to a station, the height of the line indicating signal strength (the indicated maximum is just a bit below the subjectively optimum level) and its horizontal position centre tune, just like an old-style meter. Ingenious and easy to use. At the rear of the unit are only aerial and audio connections, but if you have a Caspian system remote that can be used to control the tuner too.

Inside the very solid and wellmade case, the radio and audio circuits are on a very compact board a little over six inches square. As usual, most of the ICs used are fairly common parts from the Far East, and the RF front end is from Mitsumi (far and away the world's biggest supplier), but the immaculately finished double-sided circuit board, with a mixture of surfacemount and through-hole components, is a dead ringer for the hi-fi specialist manufacturer. Roksan has

also treated this tuner to a huge toroidal transformer of several times the required capacity.

### **SOUND QUALITY**

Any manufacturer getting into the tuner market at this sort of price is going to end up head-to-head with mass-market manufacturers who are basically using much the same parts to do the same job, but applying economies of scale in a big way. So it's unfortunate but true that although this tuner sounds very decent, it doesn't see off the models from, for instance, Denon and Pioneer in this review in the way that one might hope given the higher price.

Essentially it has a pleasingly neutral tonal character with particularly good bass extension, and hiss is on the low side of average. But the treble suffers from the congestion so common to FM tuners: it's not so much a lack of treble (as it happens the Caspian does roll off its response a fraction earlier than the others, but only by a little over a semi-tone) but a lack of precision in the top couple of octaves, which casts a veil over any treble-rich sounds and tends to collapse

the stereo image when

there's a lot of treble around. Subjective results tallied closely between off-air and FM generator listening, suggesting that the RF section is well set up and doing its job effectively, and indeed reception of 'diffi-

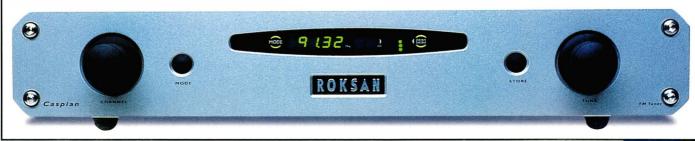
One knob good – two knobs better, Roksan has an eye for symmetry.

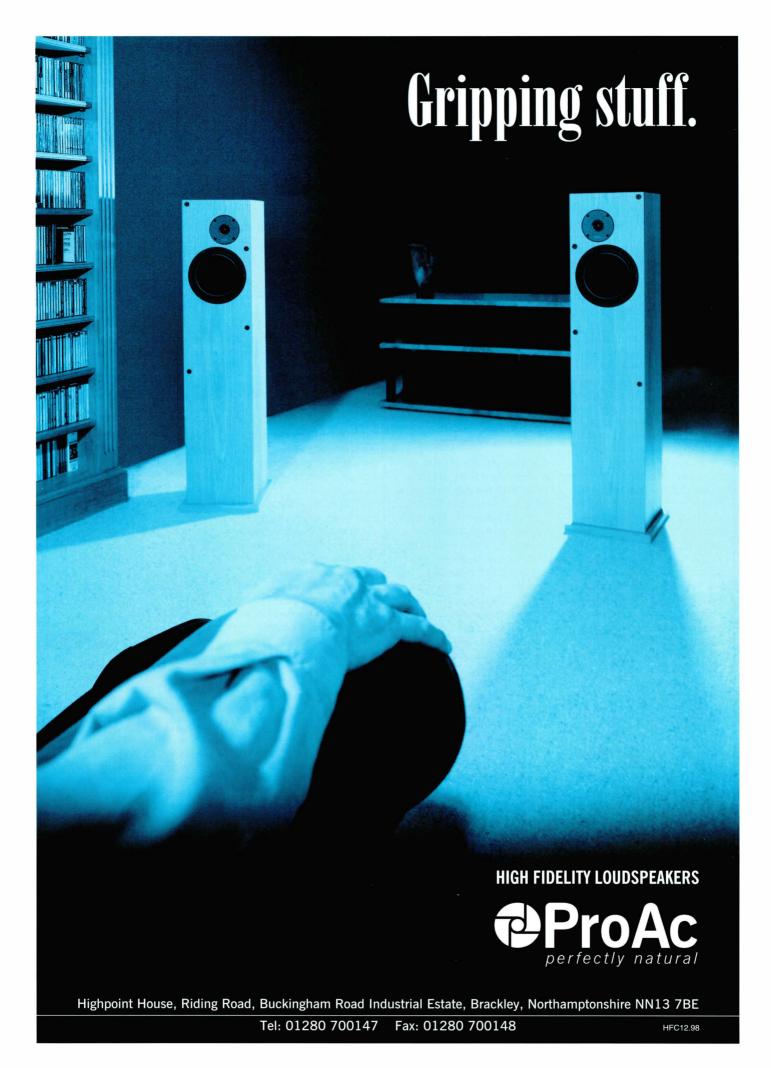
cult' stations is average to good. It seems cruel to complain harshly, as the overall result is, as with most of the tuners here, quite listenable — but in the area where most tuners are weak, this one is simply not any better than models costing a good deal less.

### CONCLUSION

That said, it's a lot smarter and arguably better made than cheaper models, and that surely counts for something. It will certainly appeal to Caspian system owners, and others who are not feeling too penny-pinched should certainly give it a spin.







### SONY FM STEREOVEM-AM TUNER ST-SB920 rust Sony to come decisively first in the features race. For

a start, it's the only tuner here with Long Wave, handy for polyglot listeners as it gives access, in southern parts of the UK, to several European stations. At first glance, the front panel seems to be guite bare, with only numeric buttons for access to presets (30) or direct frequency entry, plus a lovely weighted tuning knob which can traverse over 4MHz in one deft flick of the wrist. Lower the flap beneath the display, however, and there are a further 14 buttons for controlling the various RDS functions, station titling and recep-

tion control features. As you would expect, a full set of RDS features is included, and station name is stored in the preset along with frequency. Non-RDS stations can be given a name, and you can even sort previouslystored stations. On the reception front, there are two aerial inputs, an aerial attenuator, wide (normal) or narrow IF band and a really useful signal strength meter which gives a digital readout in dB (0dB=1uV). Sony recommends a signal of at least 50dB for optimum perfor-

O The ST-SB920 looks clean but a fold down flap hides a plethora of controls.

mance, but as with most tuners a

few dB more than that gives just

the minutest edge in noise perfor-

ness. Manufacturers tend to quote

mance and general sonic sweet-

...this tuner keeps up the generally very positive tone, with a sound that is clear and communicative, with particularly good bass and low hiss...

'full quieting' (maximum signal-tonoise) for quite low signal strengths, but subjectively one continues to get a small improvement as the signal improves. Signal attenuators are really only required when the signal is really

> huge, which can result in overloading of the RF input and all sorts of bizarre distortions.

> > This tuner has an 'Active Selection Mode' which automatically sets the attenuator and IF band according to con-

ditions, but it seems a little too keen to engage the attenuator and can be manually overridden. You can even dim the display and/or minimise the amount of information shown. All this is reasonably easy to use, a lot of it via a simple menu-driven system.

Inside the tuner, the only noteworthy feature is Sony's own RF front end, the rest being a selection of parts already familiar from other tuners in this test. There's one additional connector, an EON port which allows the tuner to control a compatible Sony amplifier and override whatever source is selected when a traffic announcement or news bulletin comes on the air.

### **SOUND QUALITY**

Getting back to the nuts and bolts of what hi-fi is really about, this tuner keeps up the generally very positive tone of this group of reviews with a sound that is clear and communicative, with particularly good bass and low hiss. That said, the hiss has an unusually strong bias towards the high frequencies, which may prove more irritating to some folks than others and won't suit systems with speakers that are already a bit bright, so do check for that when auditioning this tuner. Against the reference Revox tuner, the '920 had slightly less detail and a smaller soundstage, but it was still possible to hear clearly what was going on and to place instruments in the stereo image, given a decent broadcast.

Listening with the FM generator setup the good bass remained a strong impression, and there was very little tonal coloration. Very high frequency sounds suffered some congestion, as so often with tuners, and this made piano sound a little artificial while a wellrecorded high-hat sounded more like a battered small cymbal from a well-bashed drum kit, but that's not so disastrous – so many recordings sound like that already and one soon comes to adjust.

O A very high feature count and nicely weighted tuning knob mark this Sony.

More importantly, there are no attention-grabbing nasties in the '920's sound and it is possible to listen for long periods without fatigue setting in.

AM reception, at best hardly a hi-fi medium, is pretty rough very chesty and interferenceprone. Hi-fi, no, but listenable speech would have been nice.

### CONCLUSION

With its combination of decent sound and a multitude of features, this tuner looks like a good deal for the money. It doesn't quite make the sound quality running for a Best Buy, but it is certainly Recommended.





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### CUNDER. NCUSI

ur conclusion here is decidedly upbeat: the tuners of the moment are good. You'll hear a few people bemoaning the loss of a valve or early transistor wonder, and certainly some of the tuners of the '60s and '70s were pretty stunning.

For a long time the majority of synthesised tuners were disappointing. In recent years, however, new chipsets have become available to manufacturers, allowing them to make tuners with better specifications, better sound, more features, and all for less money.

As a die-hard FM fan I have a few classic tuners hanging around at home, and I find a lot less difference between the best of those and some of the budget tuners around today, than I did even five years ago.

The only parties for whom this

**HINTS & TIPS** 

To ensure good FM reception, get a good aerial. This will provide a stronger signal, but it won't necessarily improve rejection of interference from external sources such as cars with faulty ignition, and mobile phones. A ferrite sleeve over the aerial cable, just as it connects to

the tuner, can help. Decent intercon-

nects are a good idea as with any hi-fi

source, and most tuners are slightly microphonic so it's often worth experimenting with supports, especially those of the isolating kind, such as the Townshend Seismic Sink. And do make sure you're tuned to the right station sounds stupid, but for instance in London I can pick up two Radio 3 transmitters with plenty of signal, but one often suffers badly from multipath.

is not good news are the small manufacturers, who can't help but struggle to make tuners which compete on sound and price (let alone features) with massmarketed products. There isn't much they can do to be different, never mind substantially better, without spending more on parts than the retail cost of a complete Far Eastern tuner. None of the three specialist manufacturers came out of this review with a Recommendation, which is no criticism, but merely reflects that if half the money buys equivalent performance, why pay more? Only appearance and a longer guarantee justify the extra expenditure. That said, if you can stretch to more money there are definitely better products out there, and although the Magnum Dynalab FT-11 scored no accolades this time, for example, its bigger brothers have been very well received at HFC and by many audiophiles.

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

listened to radio broadcasts mostly on Radio 3, taking as reference a Revox A76 which compares well with many modern high-end tuners. I also listened to CDs played through an EAR stereo encoder and Sound Technology FM generator. Other equipment included EAR pre- and power amps and ATC speakers. Checks were also made on reception of weak FM stations, and basic lab performance, and AM reception (using a proper tuned loop antenna. Email for details at 100115.3701 @compuserve.com).

### THE BEST IN THE TEST



### **MARANTZ ST-48**

The £120 Marantz ST-48 may have been the cheapest in the group, but by no means did it trail the field in sound quality. It has limited RDS features and slightly cheesy build, but make no mistake: if you're after sound quality on a budget it's a mighty fine place to start. An easy Best Buy.



### **DENON TU-1500RD**

The Denon TU-1500RD offers more polish than the Sony and Marantz models, although there's a slight question mark over consistency given that the alignment of the review sample was less than perfect. (As was that of at least three others, though not so markedly.) At its best it was perhaps the most promising tuner in the test, and even though our sample was slightly compromised, it made a good enough impression for Recommendation to be assured.



### **PIONEER F-504 Precision**

For an extra £50 more than the Denon TU-1500RD, Pioneer adds another Recommendation to its long list with the F-504 Precision. Though still not the perfect tuner, it pips the Sony, and in some ways the Denon. It manages to persuade the listener that its flaws are outweighed by its good points. One of the best choices below at least £600.



### SONY ST-SB920

Sony's ST-SB920 looks, frankly, a lot more expensive than £180. It's loaded down with features but these are obviously not at the expense of sound – quite the opposite. Had its price been £50 more it would still have been Recommendable.

### AMPLIFIER COMPARISON TABLE

DENON	MAGNUM DYNALAB	MARANTZ	MYRYAD	PIONEER	ROKSAN	SONY
TU-1500RD	FT-11	ST-48	MT-100	F-504RDS 🔀	CASPIAN TUNER	ST-SB920 🎢
£250.00	£499.00	£119.90	£529.95	£300.00	£595,00	£179,99
00000	00000	00000	00000	00000	00000	00000
00000	00000	00000	00000	00000	00000	00000
00000	00000	00000	00000	00000	00000	00000
2 years	2 years	2 years	3 years	1 year	3 years	1 year
40 presets	3 presets	60 presets	20 presets	40 presets	50 presets	30 presets
FM, MW	FM	FM, MW	FM	FM, MW	FM	FM, MW, LW
YES	NO	YES	NO	YES	NO	YES
	TU-1500RD £250.00  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	TU-1500RD FT-11  £250.00 £499.00  \$\times \times \t	TU-1500RD FT-11 ST-48  £250.00 £499.00 £119.90  CCCCC CCCC CCCC CCCCC CCCCC  CCCCC CCCC CCCC CCCCC CCCCC CCCCC  2 years 2 years 2 years  40 presets 3 presets 60 presets  FM, MW FM FM, MW	TU-1500RD FT-11 ST-48 MT-100  £250.00 £499.00 £119.90 £529.95  ○○○○○ ○○○○○ ○○○○○ ○○○○○ ○○○○○ ○○○○○ ○○○○○ 2 years 2 years 2 years 3 years  40 presets 3 presets 60 presets 20 presets  FM, MW FM FM, MW FM	TU-1500RD         FT-11         ST-48         MT-100         F-504RDS           £250.00         £499.00         £119.90         £529.95         £300.00           ₩ 200.00         ₩ 200.00         ₩ 200.00         ₩ 200.00         ₩ 200.00           ₩ 200.00         ₩ 200.00         ₩ 200.00         ₩ 200.00         ₩ 200.00         ₩ 200.00           ₩ 200.00	TU-1500RD         FT-11         ST-48         MT-100         F-504RDS         CASPIAN TUNER           £250.00         £499.00         £119.90         £529.95         £300.00         £595.00           ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00           ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00           ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00           ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00         ₩ 500.00           ₩ 500.00         № 500.00         ₩ 500.00

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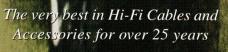


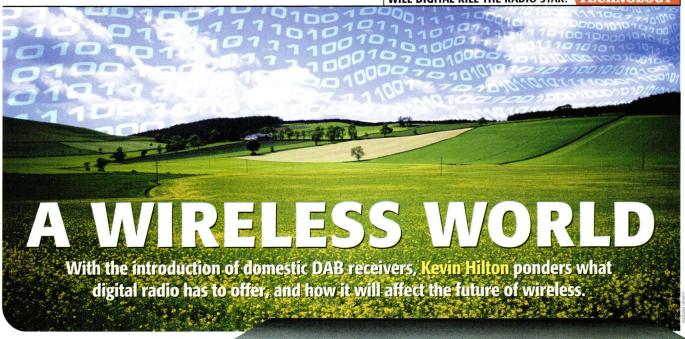
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igital technology has changed so many aspects of modern life, it was inevitable that it would come to affect the much-loved old 'steam' wireless. The BBC's current promo campaign for new digital services highlights their ability to let you "see radio", and while this is true in principle, it is only a small part of how developing technology will change a pictureless medium.

Everything started with a system known as digital audio broadcasting (DAB), but broadcasters and equipment manufacturers now prefer the term 'digital radio', for the reason that it is services which will sell, rather than the technology. The latter permits broadcasters to offer more choice within existing radio bands: whereas one radio station currently occupies the whole of a frequency slot (for example BBC Radio 4 FM on 92.4-94.6MHz), DAB can have a group (or bouquet) of stations on one digital frequency. This collection of services is known as a multiplex, and can encompass existing and new radio stations, data services, text pages and still pictures.

The BBC has been a DAB pioneer, starting a pilot service in September 1995 with digital transmissions of BBCs Radio 1, 2, 3, 4 and 5 Live, simultaneously transmitted with conventional analogue broadcasts. The service was augmented by additional Parliamentary and sports coverage. In July the Corporation announced plans for further programming: a pilot scheme based on the BBC's extensive rock and pop archive, a travel data service, and a nation-wide version of the BBC Asian network.

In the commercial sector there is only one bidder for the single national commercial multiplex. Digital One is a consortium owned by GWR Digital Radio, NTL Digital Radio and Talk Radio UK. It is proposing a variety of niche services including 24-hour classic rock, rolling news, a sports channel, teenage programming, a books/drama/comedy strand and club dance music.

Regional pilot services have been running in London and other metropolitan



areas since 1996, and full local licences will be advertised once details of the national bid have been settled.

While broadcasters have been working hard on programming, few listeners have heard it. After fanfares at the Berlin IFA consumer electronics show last year, only in July 1998 did DAB receivers arrive for the domestic market. These have been mostly for in-car use, since this area stands to benefit most from the new technology.

...while analogue fans hang onto their turntables, radio users may not enjoy the luxury... analogue services are due to cease in 10 to 15 years time...

Models already introduced on the in-car market include: Blaupunkt's D-FIRE (Digital Fully Integrated Receiver Engine); Clarion's DAB9475R which handles both FM and digital reception automatically; Grundig's DCR200 which is compatible with many of the company's radio head-units; Kenwood's KTC 959 offering a 16-segment text readout; and Pioneer's GEX-P900DAB which will convert any existing P-Series head unit into a digital receiver. Sony has now entered the field with the CDX-C90R and the XT-100DAB, expanding a line-up ranging in price from £499 to £1099.

In-car receivers encapsulate the advantages of digital radio: better reception, little or no interference, easier tuning and the extra information offered by text and data services. However, just as old-school vinyl LP

O Arcam has stolen a march on competitors with its Alpha 10DRT, the UK's first digital-radio tuner.

has proved itself ultimately sonically superior to the more youthful CD, it is true that a high-end FM receiver (with a proper aerial) will probably sound better than DAB, Nonetheless, the new format has consistency and in theory the services will not be compressed in the way of many commercial FM stations today. (This process limits a signal's dynamic range to make it sound louder than other stations).

However, while analogue equipment fans can at least hang onto their turntable and LPs, radio users may not enjoy the same luxury, as analogue services are due to cease transmission in 10 to 15 years time.

Hence there's an imperative to develop digital radio products for domestic and portable applications. Arcam recently launched its Alpha 10 DRT tuner (News & Views, HFC 183), which will retail for £799.90 and was due in production during October. This receiver is based on the Roke Manor Gold Card DAB module; Roke has also formed an alliance with software company RadioScape to produce digital radio products that can plug into PCs. Bosch, too, is developing PC units, alongside a portable 'miniDAB' radio which is currently in prototype form. Meanwhile the BBC has shown design studies for a two-button digital radio that could come to market in due course.

This last unit looks like the spook trap from *Ghostbusters*, perhaps underlining how high-tech radio has become. Forget turn-wheel tuning and waggling a funny pink aerial: this is the wireless for the 21st Century, whether you like it or not.

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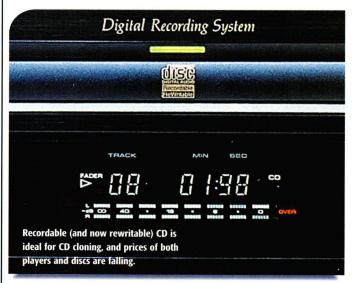


### HOME RECORDE





Recording mediums are so plentiful, it's hard to know where to start. But Richard Black has been trying all the options, and he has the answers to your dubbing dilemmas.





### THE CAST LIST

Denon DMD-1000	£299.99	p63
Marantz SD455	£169.90	p61
Philips CDR880	£499	p67
Pioneer PDR-555RW	£480	p69
Sharp MD-R3	£300	p64
Sony MDS-JB920	£300	p65
Teac V-1050	£179.95	p62

h, for the days when the only home recording format was cassette! It all seemed so simple - more money bought a better deck and that was an end to it. Now we've got to choose between at least three formats, with the prospect of more to come. What is one to do?

Of course, it all depends on what you want your recording machine to do. For instance, if you have a vast collection of cassettes recorded over the years, you may not be very interested in MiniDisc. If your main wish is to make CD compilations to play in the car or in your bedroom, a CD or MiniDisc recorder will do equally well, assuming you have the relevant player. If you wish to be a bit creative and do some off-air recording, MiniDisc offers unique editing

MiniDisc is flexible, friendly and robust. Ideal for music on the move. possibilities. However, if you're starting completely from scratch and have no particular need to be equipment- compatible, the world is your oyster and you can choose between the flexibility of MD and the sound quality of CD. When the cassette format eventually bites the dust, I won't spend too long mourning its passing.

The ultimate system is probably a combination of DAT and CD the former for original recordings, with limited editing abilities, and the latter for the final copy. But DAT starts at about £700, so you need to be pretty flush. In fact, for only about that much, if you already have a Pentium-class PC, you can get a digital input card and editing software. Just add an external CD recorder to gear up for full professional editing. A bit specialised maybe, but it adds possibilities to home recording.

And before you ask, we're prob-

...the choice won't get anv easier... ask yourself exactly what you want to do with a recording machine, and take it from there...

ably not going to see the ideal system, one which combines the 'bit-perfect' copying of CD with the editing convenience of MiniDisc. It's just too hot politically, and don't forget that some of the really big hardware players are also record companies, and don't want to encourage piracy. So the choice won't get any easier if you leave it longer. Ask yourself exactly what you want to do with a recording machine, and then take it from there.

## 05Tr 01m 13s

### **GLOSSARY**

ATRAC (ADAPTIVE TRANSFORM ACOUSTIC CODING): the system used to compress the audio bitstream to about one quarter of its original size to fit on a MiniDisc. Current software version is 4.5 or 5 depending on make. **DATA REDUCED:** a system such as ATRAC, which guesses which bits of the sound are audible, and saves space by ignoring the rest. **DOLBY:** The Dolby company licenses its cassette noise-reduction system to all manufacturers. Tapes recorded with Dolby must be played back the same way or sound will suffer. Three types, B, C and S, provide different levels of performance. S is restricted to highend machines. Dolby HX Pro is a record-only enhancement that operates automatically on playback. FINALISING: Normal CD players can't play CD-Rs until they have been 'finalised', at which point the table of contents is written and further recording becomes impossible. SAMPLE-RATE CONVERTER (SRC): CDs and MDs store audio, sampled digitally, at a rate of 44.1kHz. DAT and some other systems sample at 48 or 32kHz. An SRC converts from one rate to another digitally, with a small loss of quality, allowing direct digital copying to MiniDisc or CD.

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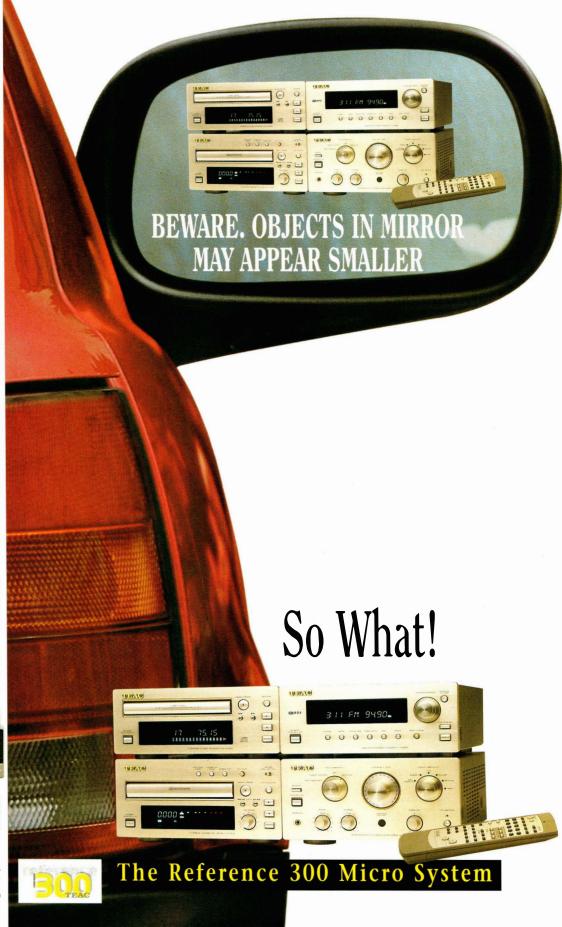


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T3 Magazine, May 1998

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DUE TO TECHNICAL DIFFICULTIES BEYOND THEIR CONTROL, OTHER MICRO SYSTEMS WILL NOT BE DELIVERING THIS LEVEL OF PERFORMANCE Chief Musical Officers' Warning

### **MARANTZ** SD-455



review equipment at the cheapest end of the market and though this Marantz is not the least expensive deck available. neither does it look like a million bucks. The front and back of the case are undisguised plastic, while the top cover is so thin, you could almost use it to wrap your sandwiches. However, in terms of material value for money, there are few grounds for complaint. When you tally up the components inside this recorder, it's hard to see how Marantz had any budget left to assemble it, never mind package, ship and sell it.

Twin decks don't vary much in terms of features. Usually one deck only plays; the other plays and records. In this case, both can play in both directions, automatically changing direction at the end of a side. Of course, the whole point of having two decks in one machine is to ensure easy cassette-to-cassette dubbing, so there's a single button for 'synchro dubbing', which starts the replay deck and the record deck simultaneously. Dubbing can be accomplished at single or double speed and there's no need — or option to alter the record level and Dolby settings, which are carried over

Apart from level and Dolby (B, C or off), there's nothing to adjust - no bias set or the like - and as with almost all modern decks. tape-type selection is automatic so you don't need to know if you're using chrome, metal or ferric. Although if you're dubbing, it's preferable not to mix and match, especially if the original tape was recorded with Dolby.

### SOUND QUALITY

If you're one of those who think all cassette decks below £300 sound terrible, and especially twin decks, you'll be pleasantly surprised by the SD-455. I began by playing pre-recorded tapes on either deck, where it made a good fist of various material. Even that real bugbear of cassette, pitch instability (wow and flutter) wasn't really noticeable on demanding programmes such as piano or organ, and the sound was steady overall, and solid, with commendable treble extension and good dynamics. Both Dolby B and C seem wellaligned and, generally, the music was lifelike and clear.

Next up was a test of material recorded from an external source and played back. Again, good results, not giving much away to

pre-recorded tapes (in fact, as a general rule home-made recordings on the analogue tape are often more successful than prerecorded material). Using good quality tapes (mostly Maxell XL-IIS, an excellent chrome tape), it was possible to push levels quite hard with most music, even a solo

...If you think all cassette decks below £300 sound terrible, and especially twin decks, you'll be pleasantly surprised...

female voice tolerating up to +5 on the meters before crunching This allowed fairly noise-free recordings with Dolby B. Dolby C, as so often on all but the best decks, led to slightly audible sideeffects, including the dreaded 'noise modulation'. Without noise reduction, dynamic material was hissy, but Dolby B seemed a good compromise.

Results varied quite a lot with

O Both Dolby B and C are well-aligned, and its music is clear and lifelike.

O In terms of what you get for your money, the SD-455 is good value.

programme, and while 'busy' stuff came over well, small details gave away the deck's price tag. A lone ping on a triangle, for instance, sounded comical and weedy.

Dubbing is a different matter. If the source tape is Dolby-less and copied at normal speed, results aren't bad, but as you add Dolby and double-speed copying, it goes downhill. Better not to dwell on this: it works, you get something you can listen to in the car - but it's not hi-fi

### CONCLUSION

Twin decks have their place, but whether that place is really in hi-fi, as such, is open to question. Though good for the genre, this deck will still be seen off by any decent single deck at the price.





### **TEAC**V-1050



455, the Teac V-1050 dispenses with the second mechanism and adds a third head to single mechanism instead. This places it firmly on the starting block for three-head decks. Traditionally, the preserve of highend machines, the three-head system (ie separate record and replay heads, instead of one head serving in both capacities) still commands a higher price due to the extra electronics required. It should, however, give substantial advantages over a shared record/replay head, all else being equal, because the optimum characteristics of record and replay heads are different.

The 'all else being equal', however, is a bit of a moot point, since they never are. If this deck had only two heads, it would have one less Dolby encoder and less amplification electronics, and would be in the £130 bracket or so. That means real budget stuff, and the construction and finish confirm this. Despite its impressive size, the deck is lightweight and plasticky and a look inside doesn't change that impression. Still, it's put together well enough. At this price, unfortunately, you don't get a dualcapstan transport but there are at least separate motors for capstan

a slightly unusual layout, with the transport in the centre and controls to the left, which is pleasing to use...

and hubs, which should help the speed stability.

Front-panel controls are pretty much the standard set, though Teac has always favoured a slightly unusual layout with the transport in the centre and controls to the left, which I find pleasant to use. Dolby B and C are provided, and there's bias adjustment, too — this is easier to perform on a threehead machine, as you can quickly adjust for the least tonal difference between the off-tape and input signals. The deck also comes with a remote control.

### SOUND QUALITY

It's rather ironic but, if anything, the performance of this deck is dominated by the line electronics rather than the actual tape section. When monitoring the incoming line signal, there's a marked thickening effect, which has little effect on tonality but seriously squashes images and makes detail harder to follow - a bit like hearing musicians from just outside the room they're playing in. This is noticeable with any kind of music at pretty much any level.

By contrast, allowing for that effect, performance when recording and replaying a tape is good, especially when quality chrome or metal tapes are used. Despite the simple transport, pitch stability is fair and there's only the slightest hint of wavering in solo piano generally the toughest test of tape transports. Very dynamic music can be a problem because, as with many cheaper cassette decks, there's some noise modulation: a form of distortion which causes the noise to rise as the signal does, and this is most obvious when recording 'hot' (at high levels) without Dolby. Dolby B, as so often, seems the best compromise; C is hardly quieter and sounds a bit disjointed, though it's more successful with metal rather than chrome tapes.

Replay of pre-recorded tapes is generally good and there seems to be no problem with Dolby alignment. The deck doesn't like really 'hot' tapes but there's no problem with commercial prerecorded ones. The sound is quite

O Line electronics let this deck down.

### O Controls are laid out for ease of use.

full and life-like, with powerful, though slightly lumpy bass; and treble which is adequately extended though just a shade dull with tough sounds like cymbals. This may be down to the line stage effects - without pulling the deck apart, one can't know whether input, output or both sections are to blame. On the lab bench, there's certainly some nasty-looking distortion present on line monitor, at all frequencies and any level above about -6dB. There's also a little transport noise, though probably not enough to be irritating in most instances.

### CONCLUSION

Although the third head does have undeniable advantages in some ways, at this price it may still be better to go for a really good two-head machine with better electronics and transport.





### **DENON DMD-1000**



audio, having got off to a flying start in the '70s with some of the first digital recordings ever made. In keeping with the company's approach, the DMD-1000 makes its first impression as a solid, no-nonsense machine. The front panel is neatly laid out and easy to follow, with buttons clearly labelled and input selection on a rotary switch. The input-level control has no facility for separate right and left channel adjustment, though I can't recall the last time I needed that function.

Connections include two Toslink digital inputs and one coaxial alongside the analogue inputs, with a single Toslink for digital output. Internally the unit has the usual Far Eastern array of circuit boards, fairly neatly linked. The main audio board is a singlesided printed circuit board with through-hole components mounted on one side, and surface-mount on the other. This type of arrangement has been common for some years, but in a product as complicated as a MiniDisc recorder, it seems astonishing that it is still cheaper to do things this way, than to make a double-sided board. Few UK designers would even consider it: even after all these years, there's still a lot of difference between us and the Far East! The mechanism

Operation of the DMD-1000 is typical of most MiniDisc recorders. Basic recording technique is similar to any other recorder of any type – set the level (if you're using analogue inputs), press Record, press Play and away you go. In fact, to allay technofear, that's all you actually need to know. But there are the usual editing features which give the format its unique flexibility. For a start, you can title discs and tracks. However, this is painfully slow because, as with all the MiniDisc machines I've seen, there's no keyboard, so you have to scroll through the entire alphabet to find a letter.

You can edit tracks by dividing, combining, moving and erasing them, effectively giving all the possibilities that a razor blade offers with analogue tape, although it's not easy to be accurate in locating edit points and the process is still a bit slow. It's useful for losing applause and inane commentary interjections in off-air recordings, for instance.

### SOUND QUALITY

Because MiniDisc is a datareduced format which quite deliberately throws away some of the data, in the belief that it represents inaudible details in a recording. and because the signal processors

different recorders, there is likely to be a degree of similarity between machines. But, if you're using a reasonably competent system, there is still room for individual differences, and this recorder does indeed seem to support the

66 ...Bass is wellextended and quite powerful, making music with a strong rhythmic drive so much more exciting on audition...

Denon reputation in terms of sound quality. Recordings made via digital input came across with good attack and vitality, and quite good ambience and 'space'. Bass is certainly well-extended and quite powerful, making music with a strong rhythmic drive so much more exciting on audition. Via the analogue input, the sound became a little muffled and lacking in image depth, suggesting that Denon has not regarded analogue as an area of major importance.

If there is a consistent weakness in MiniDisc, it seems to be a rather odd effect whereby one loses

O Recording an MD is just like recording on tape. Editing is more sophisticated.

concentration quickly, even though at first hearing there's nothing wrong. This would appear to be due to the brain missing some 'inaudible' bits thrown out by the signal processing, and later versions of the ATRAC system do show less of the effect. The DMD-1000 is one of the least prone to this and scored well on long-term listening. With music containing lots of near-silences, like solo piano, there's a feeling of disconnection from the music, but less dynamic styles like classical or rock fare better.

### CONCLUSION

SOUND

As MiniDisc goes, this is a good performer, if not outstanding in sound or features. Denon's traditional reliability shouldn't be too tarnished by the review sample's mechanism going wrong just as I was concluding the tests!

**VERDICT** 



74 mins

£2.00

### **SHARP** MD-R3H



can just imagine what the copyright police think about this one – a MiniDisc recorder in the same case with a three-disc CD changer, plus, surprise surprise, the facilities for copying a programmed selection from the latter to the former. It's pretty obvious, but then there was never much pretence about what MD was for – largely, copying from CD. The legal position is still ambiguous but the general consensus seems to be that as long as you're only copying your own CDs for your own listening, you aren't behaving too reprehensibly.

Anyway, Sharp has done it and others are bound to follow. In fact, Sharp has gone into the whole MiniDisc thing with total gusto, not previously having been involved in hi-fi separates since the days of Optonica in the 1980s, the machines have a distinct family look which is both unusual and easy to follow. At least having CD and MD in one box allows the jog wheel to select CD tracks as well. It's a mystery why more CD player manufacturers have not introduced a jog-wheel feature. Some of the buttons are a bit tiny but operation is generally easy enough. Digital input is via Toslink or coaxial, but output is Toslink only.

The CD changer mechanism has three separate trays for the discs, and while one disc is being

gone into the
MiniDisc business
with gusto... all the
machines have a
distinct look and
are easy to use...

played, the others can be changed - but the whole mechanism is terribly slow and clunky. The MD section is much better. Internally the construction is pure budget consumer electronics, with a surprising amount of loose wiring between boards. Audiophile it ain't, but if it works and doesn't pick up hums or crackles, it can't really be too bad. What is surprising is that the analogue input is passed through an electronic switch before going to the level control, which will distort the signal badly if the level exceeds about 2.6V — high, but not above the maximum output of a few CD players. A little more headroom would have been nice.

Most unusually, there's even a microphone input on the MD-R3, stereo at that. No, it doesn't allow you to mix your voice, karaokestyle, with pre-recorded discs!

### **SOUND QUALITY**

The simplest test of this recorder

after all go through the same electronics as an MD on replay. The results are variable. Imaging, often a weakness of cheaper gear, is pretty good and basic tonality is honest, with good detail. But deep bass is rather lumpy, even stodgy, and everything seems ever so upfront and unsubtle. Like so many budget CD players, it's the sort of sound that can prove fatiguing even though it might seem quite exciting initially.

Precisely because both sections use the same DAC and output buffer, the comparison between CD and MD is very fair and reveals the character of the ATRAC processing. There's a slight loss in transparency and detail, and the sound of MD is also less solid and three-dimensional than CD, though otherwise there's little to criticise. However, the classic MD failing of losing the listener's interest, though one can't put a finger on anything wrong, is detectable. As with the Denon deck, the size of this effect varies with the material but never quite vanishes.

Using the analogue inputs, there is a distinct thickening of the sound, a veiling of detail — even

• The handy jog dial (centre) makes light work of MD and CD manipulation.

### O The MD-R3H is a hardcore multi-CD copying machine.

when simply monitoring the input in record/pause mode. Tonally things are mostly in place but there's an obvious drop in the amount of detail coming through. This may be due, as much as anything, to the electronic switching mentioned above, which is known to be far from inaudible.

### CONCLUSION

It's an attractive-looking product and Sharp, as one of the originators of MiniDisc, is well placed to offer good value for money in terms of features. However, for many people the CD player will be of limited use as they'll already have one, and the relatively limited performance make the bargain look a bit less appealing. But it's quite a clever concept and will probably appeal to well-heeled folks with teenage kids!





### **SONY MDS-JB920**



f the esteemed editor gave writers unlimited space in which to describe features, we would all get very rich from Sony's MD recorders. The star feature on this one is undoubtedly the 'Mega Control'. It sounds so wonderful actually all it does is to allow the MD deck to control track selection on a suitable Sony CD player, connected via the Sony Control A1 link.

Not surprisingly, on this EISAaward-winning deck, there are the usual MD functions and features, including one coaxial and two optical digital inputs, and one output of each type. Add to that stereo or mono recording plus editing and titling facilities. To date, no manufacturer has matched Sony for editing ease and power. The JB920 includes a rehearsal function which, once you have approximately located the edit point, plays a couple of seconds before or after, as required, while you adjust the precise time of the edit. Better still, you can select edit times to within 12ms - much better than most other decks. That's plenty good enough for seamless edits within a piece of music.

Other functions include a realtime clock which writes the date and time to the disc as it records. Given this, and that the deck will work with an external timer, and that the on/off switch is only for standby with power continuously applied, it's a shame that Sony has not equipped the 'JB920 to function like a VCR, with a built-in timer

...To date, no manufacturer has matched Sony for editing ease... good enough for seamless edits within a piece of music...

to make unattended recordings. There's a digital record level control in addition to the analogue one, which allows level setting between -60dB and +12dB in fine steps. Time Machine Recording stores six seconds of audio and will enter record from record/pause six seconds before you pressed the button - useful when you want to catch a radio broadcast, announcements and all. A fader function allows fading into or out of a recording with user-programmable fade time.

Many of these functions are accessed via a menu system, which also offers a choice of output wordlengths - 16, 20 or 24 bits. This may be only decorative in a data-reduced system, especially since the deck seems to dither its digital signal processing correctly, but then again, why not? If you like to fall asleep to music, you can program the deck to switch off after 30 to 120 minutes.

Bedroom DJs may appreciate the variable speed/pitch function, which gives an amazing range from +12.5 per cent (2 semitones) to -98.5 per cent (five octaves - wow!) in whole semitone or 0.1 per cent steps, while still preserving a 44.1kHz digital output on the sockets.

Appearance and layout of the deck are good, though some of the buttons are small and cramped, and require such a hard push that the deck will move backwards on a polished surface before the switches operate. Internal construction is smart and tidy, with Sony's own mechanism, a slimline and simple affair. The rear panel is helpfully labelled in four languages.

### SOUND QUALITY

With all those features, it's still a MiniDisc recorder and — sorry to sound like a stuck record — it has that familiar sound which seems so far to be a characteristic of data-reduced formats. Initial impressions are very favourable and the sound seems immediate. clear and full-bodied. But there remains that peculiar lack of communication which causes the brain to switch off and lose interest in the music unless one makes an effort to keep involved. Hardly a problem if it's only background music you want, but it does interfere with serious listening.

Still, as MiniDisc recorders go, this is clearly a good 'un. In fact, it's

O The MDS-JB920 is ideal for editing, with edit frames of only 12ms.

### SONY MANIC STREE ....

### O Sony's 'Mega Control' permits track selection on a connected CD player.

quite possible that its fine performance in areas like tonality and dynamics only leave the intrinsic MD limitations the more nakedly exposed. Recording via digital inputs makes no immediately obvious mark on the sound, while via the analogue input there's nothing amiss besides a very small amount of chestiness; the detail and imaging are still very good. The sample-rate conversion and digital level control are as near transparent as makes no odds, in this particular context.

### CONCLUSION

Despite reservations about the ultimate quality of the format, one can appreciate that this is a fine machine which in many situations will perform very well. There are two questions you need to ask yourself: exactly what format would you like, and what machine do you want? If the answer to the former is 'MiniDisc', then the answer to the second may very well be 'this one'. Recommended.



### **PHILIPS CDR880**



hilips created quite a stir, and ruffled more than a few feathers in the copyright business, by introducing the CDR870 only months ago. It was the first audio CD recorder below £500 and the first to handle rewriteable CD-Rs (CD-RWs).

Paul Miller, writing in these very pages in HFC 174, uncovered a problem with the '870's samplerate converter. This device was included to allow complete compatibility with all digital sources, but actually introduced vast quantities of jitter even when copying from CDs which required no sample-rate conversion at all. Philips responded with commendable haste by updating the model to the CDR880, in many ways the same machine but with a few minor changes, including automatic disabling of said converter when copying from CDs, hence allowing 'bit-perfect' copies.

It is now received wisdom that there is no good reason why CD recorders need to cost much more than players. Both internally and externally the '880 sup-

ports that view. It looks, frankly, as if Philips will be in a position to ramp up production and drop the price as soon as sales take off this is clearly a very highly 'productionised' design. In fact the front panel, though smart enough, does look a bit naff in the company of most contem-

...if there's a difference in sound quality between original and copy, played on the same machine, it's very small indeed...

looks, entirely plastic and doesn't inspire confidence. Still, all the basic functions are catered for, although some people will miss the option of separate left-right channel recordlevel adjustment.

Connections include the usual analogue in and out plus both Toslink and coaxial in and out, allowing use with a good quality external DAC for replay. Inside the unit is a lot of fresh air, a power supply board and the mechanism, with pretty much the entire audio electronics section on a board barely 8 by 6 inches. The mechanism itself looks pretty basic, although it is, in fact, based on a cast-alloy chassis.

> Display and control functions are handled by a separate board. The display is a major let-down, with only eight coarse steps on the level display. As you probably know already, normal CD-R discs can only be

recorded once, with no editing or erasing possible. CD-RW discs can be re-recorded, but are hampered by the fact that the

erasing functions are limited to the last track or the whole disc. Furthermore, CD-RWs won't play on most normal CD players and are still very expensive (around £15, while consumer-use CD-Rs, which you have to use in all consumer audio recorders, are now below £3). At the time of writing, CD-RWs are also incredibly hard to find, so for now they appear to be something of a red herring.

### SOUND QUALITY

Tested as a straight CD player with normal commercial discs, the CDR880 acquits itself as an honestenough budget machine, around the £160 mark. It's listenable but lacks the hallmarks of greatness, so don't look for the last word in detail, subtlety or

polish. As a recorder, from digital inputs (CD), in theory it should be completely transparent, since what goes in comes out. And indeed it does — I copied a minute of material on and off disc and found not a single sample (in a total of around 5 million) different by even one bit. Sure enough, if there's a difference in sound quality between original and copy, played on the same machine, it's very small indeed. What variations there are derive largely from jitter, and that in turn is a function of so many variables

O CDR880 makes bit-for-bit CD copies, bypassing its sample-rate converter.

### The model proves CD recorders needn't cost much more than CD players.

in the replay equipment that one can hardly generalise about one disc being 'better' than the other. Copying from DAT at 48 or 32kHz sampling rates, there is some loss of precision whether it's due to jitter or filter details one can't know.

That said, the analogue inputs on the CDR880 do have their own character, and it's not at all bad. Completely transparent, maybe not, but only marred by some loss of detail and imaging. Few cassette decks at this price will do better, even when simply monitoring the input – off tape, forget it.

### CONCLUSION

The CDR880 does its job pretty well and as a CD copying device it is basically blameless, but the analogue input, sample-rate converter and ergonomics prevent this recorder from taking any higher accolade than Recommended.



■ Maximum recording time

■ Media cost per hour

■ Editing facilities

74 mins

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ALL PRICES CORRECT AT PRESS E&OE	Rega Jura speakers£449.00
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### **PIONEER PDR-555RW**



ioneer set the pace for domestic CD-R with its PDR-04 and PDR-05. The PDR-555RW is very much a riposte to the Philips CDR880, matching it pretty much spec-forspec and adding a few unique twists. Nevertheless, it's clear from the insides that Pioneer moved swiftly to bring this model onto the market. For example, this model does not share the Philips' highlyintegrated innards. And on the main digital board there is a revision to the circuit which clearly took place after the PCB tracks had been laid out initially. Not that this has any bearing on the unit's performance; it is just an indication of how quickly this unit has been developed.

The layout looks smarter and clearer than the Philips, and the front panel, while still plastic, manages to look a bit like brushed alloy. Input selection (optical, coaxial or analogue) is by a rotary switch and the record-level control has independent left and right adjustment. At the rear, all three types of output are available. Among the features is a fader which lets you fade in at the start and out at the end of a recording, though it's only accessible from the remote control. The recorder automatically increments track number to correspond to a source CD or DAT, if required.

As with the Philips recorder, the

...Recording via the digital inputs does not give a totally perfect clone, but you'd be pretty hard pushed to know it...

Pioneer has a built-in samplingrate converter. In this case, it's permanently in circuit which has the disadvantage of preventing bitperfect copies of any source. Even if the original is sampled at 44.1 kHz (CD or MD), the PDR-555RW will still resample the data from either digital input. From a purist point of view this is undesirable, but the particular chip entrusted with this task (different from the one Philips uses) has a good reputation for sound quality. If resampling is done properly there's no reason why it should be any cause for concern.

### SOUND QUALITY

The PDR-555RW uses Pioneer's noted 'Legato Link' filter system in its DAC, and that alone probably determines the replay sound quality to a large extent, at least in comparison with other makes. Legato Link attempts to 'recreate' ultrasonic frequencies lopped off in

the analogue-digital conversion process, but by doing so it has the potential to generate audible distortion. Like many LL players, the PDR-555 has an open, spacious sound with a good feeling of extension, but its imaging is sometimes less than perfect and it's not always possible to hear 'through' the sound. But on the whole longterm listenability is good and the tonal balance is neutral.

Recording via the digital inputs, as mentioned above, does not give a perfect clone as one might expect, but you'd be hard pushed to know it. If there are any discrepancies between source and copy due to the sampling rate converter, these would be on a par

with differences in jitter due to varying discs and players. It's hard to be sure whether there's a difference or not — and if so, which is 'better'.

Via the analogue inputs, the sound fares rather less well, with some upper mid-range coloration creeping in and some grain affecting complex, treble-rich sounds like violins. Image depth decreases somewhat, too, though width seems largely unaffected. This is more

The Pioneer has an open, spacious sound with a good feeling of extension. O Plastic front panel looks like alloy; control layout is smart and clean.

noticeable when copying from LP than from CD or radio, most likely due to ultrasonic frequencies (including surface noise) from the LP causing aliasing in the ADC's relatively 'relaxed' filter and some subsequent intermodulation. However, the overall effect of recording and playback is not vast, and frankly, only a few DAT and more expensive open-reel recorders have previously offered this level of performance in a domestic setting.

### CONCLUSION

These are early days for domestic CD-R. This recorder works well. sounds decent and doesn't cost too much, but inevitably, better (and probably cheaper) machines are likely to arrive before long. Nevertheless, Recommendation is roundly deserved.



**FEATURES** 

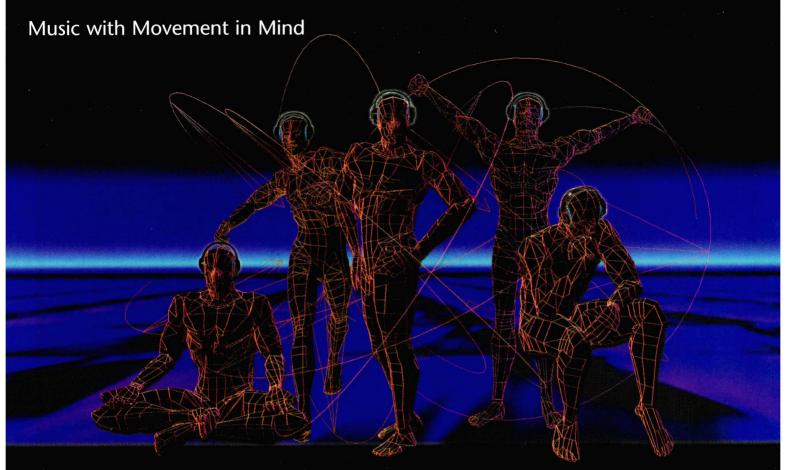
■ Recording time ■ Media cost per hour

**■** Editing facilities

() PIONEER 0 1:98 "

£2.50

Last track erase



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### HOME RECORDE

### CONCLUSIONS



ne inescapable conclusion kept coming back to haunt me in the course of this test: cassette has probably had its day as a hi-fi medium. I don't use it very often, but when I do, I'm fortunate to have a £1,000 Pioneer deck which performs as well as any. Even so, does tape really offer anything that MiniDisc doesn't? MD has its own limitations, and I have written before about its lack of long-term listener involvement. However, in fairness cassette isn't any better on that score, and its background noise, frequent compatibility problems between decks, and peak-level compression, have long plagued home recordists. In addition, it is not really much easier to use than CD-R, or at least CD-RW. Running costs of the two digital systems are nearing those of cassette and the recording machines are also low in price.

### **HINTS & TIPS**

The most important thing you can do to make good

tape copies is use good blank tapes. Many of the major manufacturers have reduced prices of chrome and metal tapes almost to the level of ferrics, and a good, brand-name chrome tape will run rings around a cheap ferric.

Cassette decks need to be kept clean. Run a cleaning tape or wipe heads gently with a cotton bud soaked in alcohol. The occasional use of a demagnetiser is beneficial too.

CD recorders must record on blanks marked 'For music' or 'For consumer' and there aren't many makes of these. Make sure you buy a reputable brand such as TDK.

Finally, don't forget to use good cables — analogue and digital!

It would be unfair to take the two cassette decks included here as typical of the genre, although informal experience suggests that the Marantz is not untypical of twin decks at least — a breed, to be brutally honest, that is not known for audiophile prowess. The Teac is ambitious for offering three heads at this price, but the stunt doesn't seem to come off. Both machines are cheaper than any of the digital recorders, but not by much.

Here's the scenario as I see it, in the light of these reviews. MiniDisc is the convenience format par excellence, but its sound quality limitations will restrict its appeal for true hi-fi buffs. Still, plenty of people will buy it if only for use on the move. CD-R lacks convenience but the discs (write-once, anyway) will probably play on CD players which are already part of existing systems. So, the dedicated folks who value sound quality above all else will use their CD-R to make copies of broadcasts, treasured LPs, whatever — warts and all. Play back the

### HOW THE TESTS WERE DONE

he cassette decks and CD recorders were tested as replay machines with commercial software. All three formats were then used to record and play back a variety of material, mostly from CD source but also from DAT and LP. Other equipment used included Micromega CD player, EAR pre- and power amps, ATC speakers. Pink Triangle LP deck with SME arm and Highphonic cartridge, and Sony DAT recorder. Recordings used included Concert Programme, The Penguin Cafe Orchestra; Cathedrals in Sound, Ronald Stevenson (piano); Bruckner 9th Symphony, Philharmonia.

finalised CD-R on your CD player and stand by with the pause control on the recorder to edit out announcements, LP run-in grooves and other annoyances. Slow, but not disastrously so, and editing MD isn't instant either.

Out of seven products, only three Recommendations and no Best Buys — that's statistics for you. The Denon DMD-1000 only just missed its swing tag, while the Sharp MDR3H, although a clever concept, fell at an early hurdle on the sound quality front. If you only want it for CD-MD dubbing, digitally, it's a good proposition (and I guess running the whole shooting match off one crystal oscillator should keep jitter low!); but if you've already got a CD player it's less attractive.



It may not be the swishest piece of hi-fi, but it seems like a functional piece of kit. It's the only machine in this survey that can, in theory, make perfect copies of CDs, and its analogue inputs and outputs are far from embarrassing. It is well deserving of a Recommendation.



### PIONEER PDR-555RW

Pioneer is very obviously firing straight back at the CDR880 with this model. It's a smarter-looking machine with a few more features and arguably slightly better replay sound, but it can't make bit-perfect copies. It seems to be selling for a few pounds less than the Philips, but basically these two are neck-and-neck on balance and you should definitely try the one if you try the other. Another Recommended.



### **SONY MDS-JB920**

Sony keeps its good record on MD with the MDS-JB920. As with most of its machines these days, this component does almost everything but wash your dirty underwear. Considering it is also one of the better-sounding MD decks around, at a far from punitive price, it seems quite deserving of Recommendation.

ORDI	ERS	COMP	ARI	SON	TABL	E
MARANTZ	TEAC	DENON	SHARP	SONY	PHILIPS	PIONEER
SD455 (Cassette)	V-1050 (Cassette)	<b>DMD-1000</b> (MD)	MD-R3H (MD)	MDS-JB920 (MD)	CDR880 (CD-R)	PDR-555RW (CD-R) -
£169.90	£179.95	£299.99	£300.00	£300.00	£499.00	£480.00
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1 year	1 year	2 years	1 year	1 year	1 year	1 year
2hr	1hr	74 min	74 min	74 min	74 min	74 min
50p-£5	50p-£5	£2	£2	£2	£2.50	£2.50
Punch-in rec	Punch-in rec	Edit to approx 0.1s	Edit to approx 0.1s	Edit to approx 0.1s	Section skip	Last track erase
	MARANTZ SD455 (Cassette) £169.90  \$\times \times \times \times \$1 year \$2hr \$50p-£5	MARANTZ         TEAC           \$D455 (Cassette)         V-1050 (Cassette)           £169.90         £179.95           ★★★★         ★★★★           ↑ year         1 year           2hr         1hr           50p-£5         50p-£5	MARANTZ         TEAC         DENON           SD455 (Cassette)         V-1050 (Cassette)         DMD-1000 (MD)           £169.90         £179.95         £299.99           ★★★★★         ★★★★★         ★★★★★           1 year         1 year         2 years           2hr         1hr         74 min           50p-£5         50p-£5         £2	MARANTZ         TEAC         DENON         SHARP           SD455 (Cassette)         V-1050 (Cassette)         DMD-1000 (MD)         MD-R3H (MD)           €169.90         £179.95         £299.99         £300.00           ★★★★★         ★★★★★         ★★★★★         ★★★★★           1 year         1 year         2 years         1 year           2hr         1hr         74 min         74 min           50p-£5         £2         £2	MARANTZ         TEAC         DENON         SHARP         SONY           SD455 (Cassette)         V-1050 (Cassette)         DMD-1000 (MD)         MD-R3H (MD)         MDS-JB920 (MD)           €169.90         £179.95         £299.99         £300.00         £300.00           €200.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00         €300.00           €300.00         €300.00         €300.00         €300.00         €300.00 <td>MARANTZ         TEAC         DENON         SHARP         SONY         PHILIPS           SD455 (Cassette)         V-1050 (Cassette)         DMD-1000 (MD)         MD-R3H (MD)         MDS-JB920 (MD)         CDR880 (CD-R)           €169.90         €179.95         £299.99         £300.00         £300.00         £499.00           ★★★★         ★★★★         ★★★★         ★★★★         ★★★★         ★★★★           1 year         1 year         2 years         1 year         1 year         1 year           2hr         1hr         74 min         74 min         74 min         74 min           50p-£5         £2         £2         £2         £2</td>	MARANTZ         TEAC         DENON         SHARP         SONY         PHILIPS           SD455 (Cassette)         V-1050 (Cassette)         DMD-1000 (MD)         MD-R3H (MD)         MDS-JB920 (MD)         CDR880 (CD-R)           €169.90         €179.95         £299.99         £300.00         £300.00         £499.00           ★★★★         ★★★★         ★★★★         ★★★★         ★★★★         ★★★★           1 year         1 year         2 years         1 year         1 year         1 year           2hr         1hr         74 min         74 min         74 min         74 min           50p-£5         £2         £2         £2         £2

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# Quality Range at

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Arcam Alpha 8SE	£ 599.9	Meridian 504	£ 739.95	Rotel RB971	£ 199.95	Denon DVD3000		£ 699.95
Arcam Alpha 9	£ 799.9	Myryad T30	£ 399.95	Rotel RB981	£ 299.95	Panasonic DVDA350		£ 539.00
Cyrus DADI	£ 399.9		£ 529.95	TAG McLaren 60P	£ 849.95	Pioneer DV505		£ 399.00
Cyrus DAD3	£ 599.9		£ 694.95	TAG McLaren 100P	£1099.95	Pioneer DVL909		£ 799.00
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Denon DCD425	£ 149.9		£1099.95	LOUDSPEAKERS (I				
Denon DCD635	£ 179.9		L1077.73	Acoustic Energy Aegis C		Sony DVPS715		£ 539.00
Denon DCD735	£ 229.9		£ 229.95	Acoustic Energy AEI00i		Yamaha DVDS700		£ 599.95
Denon DCD835	£ 279.9		£ 299.95	Acoustic Energy AE1001	£ 349.95	SURROUND AM	PLIFIERS	
	£ 349.9		£ 379.95	Acoustic Energy AE120	£ 499.95	Arcam AV50		£ 699.95
Denon DCD1550 AR					£ 849.95	Yamaha DSPA492		£ 199.00
Exposure CD	£1049.9		£ 499.95	Acoustic Energy AE505		Yamaha DSPA592		£ 299.00
Marantz CD48	£ 199.9		£ 799.95	Acoustic Energy AE509	£ 999.95	Yamaha DSPA1		£1599.95
Marantz CD6711	£ 249.9		£ 399.95	Acoustic Energy AE520	£1199.95	Yamaha DSPA1 Gold		£1699.95
Marantz CD6711OSE	£ 299.9			AVI NuNeutron	£ 499.95	SURROUND REC	EN/EDC	L1077.73
Marantz CD63IIKI Sign	nature £ 399.9	Cyrus III i	£ 599.95	B&W DM601	£ 199.95		EIVER2	
Marantz CD17K1 Signa	ture £1099.9	Denon PMA250SE	£ 139.95	B&W DM602	£ 299.95	Denon AVR I I 00RD		£ 299.95
Meridian 506 20 Bit	£1194.9		£ 179.95	B&W DM603	£ 499.95	Denon AVR I 400		£ 499.95
Meridian 508 24 Bit	£2149.9		£ 499.95	B&W CDMISE	£ 599.95	Denon AVR3200		£ 999.95
Myryad T10	£ 399.9		£ 799.95	B&W CDM7SE	£ 999.95	Kenwood KRV5090		£ 119.00
Myryad T20	£ 599.9		£ 899.95		Deluxe Extra) £ 249.95	Kenwood KRV9090		£ 249.00
	£ 699.9		£ 999.95		Deluxe Extra) £ 399.95	Kenwood KRV888D 8	y Demodular	
Myryad MC100						Sony STRDB925	x Demodulat	£ 539.00
Myryad MCD500	£1299.9		P.O.A.		Deluxe Extra) £ 579.95			
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ioneer PDS505 Precis			£ 229.95		Deluxe Extra) £ 879.95	Yamaha RXV592		£ 369.00
Roksan Caspian	£ 994.9		£ 399.95	Epos ES12	£ 499.95	SURROUND PRO	CESSORS	
Rotel RCD971	£ 349.9	Marantz PM17K1 Signature	£1299.95	Epos ES22	£1184.95	Cyrus AV Master		£ 699.95
Sony CDPXE310	£ 99.0		£ 844.95	Epos ES30	£2384.95	Meridian		P.O.A
ony CDPXE520	£ 129.0		£ 479.95	Kef Q15	£ 199.95	Yamaha APD I	Damadulas	tor £ 99.95
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	£1249.9		£ 599.95	Kef O55	£ 499.95	Yamaha DSPE492		£ 249.95
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ramaha CDX493	£ 179.9			Mission 700	£ 129.95	CENTRE SPEAK	:RS	
CD MULTIPLAYER		Naim Audio	P.O.A.			Acoustic Energy AEIC	7C	£ 149.95
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TAG McLaren CDT20F	£1499.9	Rotel RA931	£ 149.95	Mission 773	£ 349.95			£ 99.95
DACS		Rotel RA971	£ 199.95	Mission 774	£ 499.95	Mission 70cl		
Meridian 566 24 Bit	£1379.9		£ 159.00	Mission 750LE	£ 249.95	Mission 70c2		£ 149.95
Musical Fidelity X-ACT			£ 249.00	Monitor Audio Silver S3	£ 299.95	Mission 77C		£ 169.95
FAG McLaren DAC20	£1249.9		£ 799.95	Monitor Audio Silver S5		Ruark Dialogue One		£ 299.95
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Denon DMD1000	£ 299.9		L ///./3	Monitor Audio Silver S9		Yamaha NSC60		£ 59.95
			( 200 05			Yamaha NSC105		£ 79.95
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Marantz DR700	CD Recorder £ 599.9		£ 499.95		Deluxe Extra) £ 399.95		ALVERA (	
hilips CDR880	CD Recorder £ 399.0		£ 799.95		Deluxe Extra) £ 559.95	SURROUND SPE	AKEKS (P	
Pioneer PDR555RW	CD Recorder £ 429.0		£ 799.95		Deluxe Extra) £ 599.95	Boston		P.O.A
Sony MDSJE520	£ 179.0	Exposure 21	£ 999.95		Deluxe Extra) £ 799.95	Kef 65DS		£ 399.95
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Denon DRM550	£ 159.9		£ 199.95	Tannoy Mercury M2.5	£ 169.95	SUB WOOFERS		_ //.00
Denon DRW580 Twin	£ 199.9		P.O.A.	Tannoy Revolution R1	£ 199.95		000	( 200 05
				Tannoy Mercury M3	£ 229.95	Acoustic Energy AE10	53	£ 299.95
amaha KX393	£ 129.9		£ 149.95		£ 227.73	Rel Q50		£ 374.95
ramaha KX580SE	£ 179.0		£ 849.95	SYSTEMS	C 220.05	Rel Q100E		£ 494.95
TURNTABLES		TAG McLaren PA20R	£1499.95	Denon DM3 CD/Rec	ex spks £ 229.95	Rel Strata II		£ 574.95
1ichell Gyrodec	inc RB300 £1019.9		£1499.95	Denon DCI	inc spks £ 379.95	Rel Storm		£ 694.95
roject 0.5	£ 169.9			Denon DF88	ex spks £ 569.95	Rel Stadium II	(Blk)	£ 994.95
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Project   Fechnics SL1210 Fhorens TD280/IV	inc RR250 £ 300 0			Pioneer NS7T with tape		Yamaha YSTSW40		£ 139.95
Project   Fechnics SL1210 Fhorens TD280/IV Fhorens TD166/VI	inc RB250 £ 399.9	Cyrus DCYD Down C	PI L 327.73	Sony CMTED I	inc spks £ 269.00	Yamaha YSTSW80		£ 179.95
Project   Fechnics SLI2I0 Thorens TD280/IV Thorens TD166/VI		Cyrus PSXR Power Sup	£ 400 OF				CEC	
Project I Fechnics SL1210 Fhorens TD280/IV Fhorens TD166/VI FUNERS Arcam Alpha 7	£ 229.9	Cyrus Power	£ 499.95	T D-( 200	L C FOO OF	SPEAKER PACK		
Project 1 Fechnics SL 12 10 Fhorens TD 280/IV Fhorens TD 166/VI FUNERS Arcam Alpha 7 Arcam Alpha 8	£ 229.9. £ 279.9	Cýrus Power Exposure Super 18	£ 899.95	Teac Ref 300	ex spks £ 599.95	SPEAKER PACKA	AGES	£ 999 0E
Project 1 Fechnics SL1210 Fhorens TD280/IV Thorens TD166/VI FUNERS Arcam Alpha 7 Arcam Alpha 8 Creek T43	£ 229.9. £ 279.9. £ 399.9.	Cyrus Power Exposure Super 18 Exposure Super 18 Mono (pair)	£ 899.95 £1799.95	Teac Ref 300 Teac Ref 500	ex spks £ 799.95	Boston Micro 90t	AGES	
Project I Technics SL1210 Thorens TD280/IV Thorens TD166/VI TUNERS Arcam Alpha 7 Arcam Alpha 8 Creek T43 Cyrus FM7	£ 229.9. £ 279.9. £ 399.9. £ 399.9.	Cyrus Power Exposure Super 18 Exposure Super 18 Mono (pair) Meridian 556	£ 899.95 £1799.95 £ 949.95	Teac Ref 300 Teac Ref 500 Technics SCHD51	ex spks £ 799.95 inc spks £ 359.00		AGES	£ 999.95 £ 299.95
Project I Technics SL1210 Thorens TD280/IV Thorens TD166/VI TUNERS Arcam Alpha 7 Arcam Alpha 8 Creek T43 Cyrus FM7	£ 229.9. £ 279.9. £ 399.9.	Cyrus Power Exposure Super 18 Exposure Super 18 Mono (pair) Meridian 556	£ 899.95 £1799.95	Teac Ref 300 Teac Ref 500	ex spks £ 799.95 inc spks £ 359.00 inc spks £ 449.00	Boston Micro 90t Mission Cinema I		£ 299.95
Project IS	£ 229.9. £ 279.9. £ 399.9. £ 399.9.	Cýrus Power Exposure Super 18 Exposure Super 18 Mono (pair) Meridian 556 Meridian 557	£ 899.95 £1799.95 £ 949.95	Teac Ref 300 Teac Ref 500 Technics SCHD51	ex spks £ 799.95 inc spks £ 359.00	Boston Micro 90t		£ 299.95

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# ONTEST! CDPLAYERS

Even with DVD making in-roads into the audio market, the CD player is still the King of digital audio. Alvin Gold and Paul Miller try out 11 of the latest models.

### THE CAST LIST

Arcam Alpha 9	£799.90	p93
Denon DCD-835	£279.99	p77
Marantz CD-67IIOSE	£299.90	p79
Musical Fidelity X-RAY	£800.00	p95
Myryad T-10	£399.95	p85
Parasound C/DP-1000	£499.99	p87
Pioneer PD-S707	£300.00	p81
Rotel RCD-971	£349.95	p89
Sony CDP-XB720E	£199.99	p83
Teac VRDS-8	£599.95	p97
Yamaha CD-X993	£399.95	p91

### **GLOSSARY**

**DIGITAL CONVERTERS:** The slice of silicon that converts the digital music data off disc into an analogue (musiclike) waveform. They come in various forms: the traditional multibit or ladder type; the one-bit or Bitstream type (and variants), which overcome some of the problems at the expense of others, are the best known. dCS (through Arcam) has just introduced the Ring DAC, a radical new technology that largely overcomes the failings of both. **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 CD player 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 (for example, below 100 Ohms or so) 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 8kHz, though the standard is 47kHz — 100kHz) can result in audible treble losses.

JITTER: Jitter represents the uncertainty in the timing of digital signals. High values have various effects on sound quality such as loss of resolution. State of the art is a little below 150psec, but figures over 1000psec are not uncommon.

ot all test groups are born equal, and this one has more than the usual interest. Eleven models are covered in a price band stretching from £200 through to £800. All are singledisc players aimed at the serious listener (how serious listening should be is a moot point, but you get the idea). More than in any similar group covered in, say, the last couple of years, there is real diversity and innovation in this group, but not always with the expected results. This once again underlines the importance of making a properly informed choice. You can waste a lot of money very easily when you could have bought something that sounded better and cost less.

One point that has emerged with increasing strength over the past months is that CD players continue to have a place in the great scheme of things, even though DVD players, which are capable of playing conventional compact discs, are now



Marantz CD-67IIOSE p79

at prices well within the limits set for this test. After all, if you can have a DVD player with what

amounts to a CD player thrown in, gratis and for nothing, why would anyone bother with a plain old vanilla CD player again?

There are two answers to this. The first and most important is that DVD players consistently sound inferior to CD players when playing compact discs. They can often sound quite pleasant, but resolution and timing both suffer, and given the technical complexity of DVD hardware, there is a vanishingly small chance that this situation will change in the foreseeable future. The other reason is that current-generation DVD looks like being redundant for

serious music applications as soon as DVD-Audio becomes established, probably some time in the next 12-18 months. DVD-Audio will usher in a new over-arching DVD player specification that will be at least partly incompatible with current DVD (aka DVD-Video) players. It will probably be at least a year before a fully-compatible player capable of playing both types — and longer, perhaps much longer before the technol-

ogy matures enough to interest

the serious music lover.





Musical Fidelity X-RAY p95



Myryad T-10 p85



Parasound C/DP-1000 p87



Pioneer PD-S707 p81



Rotel RCD-971 p89



Sony CDP-XB720E p83



Teac VRDS-8 p97



Yamaha CD-X993 p91

### **GROUP A** BELOW £300

**GROUP B** £300-£500

GROUP C **OVER £500** 

### THE PRICE BANDS

We divide our candidates into groups based on price (see right). Each band is colour-coded as above.



### **HINTS & TIPS**

CD players though less obviously susceptible to

the vagaries of vibration than turntables, still improve with good isolation. Therefore, use good quality equipment supports and isolation platforms. For best results leave players switched on permanently. Interconnecting cables are also important and can have a dramatic effect on many aspects of a player's performance. See the Directory for our recommendations. Finally, keep discs clean and scratch free if you want 'perfect sound forever'!

### CD PLAYERS GROUP A

**BELOW £300** 

There is something here for almost everyone. The Pioneer is the latest Legato Link-equipped player, which 'invents' music-related information above the normal 20kHz cut-off. avoiding the sharp phase shifts and associated harshness and flat imagery. Denon and Marantz both offer highly-refined examples of their existing multi-bit and Bitstream designs, while Sony's player comes with a variable coefficient digital filter which emulates Pioneer's Legato Link and ordinary brick-wall filters. It raises issues that are discussed further in the reviews that follow, and on the Conclusions page (p98).

Denon DCD-835	£279.99	p77
Marantz CD-67IIOSE	£299.90	p79
Pioneer PD-S707	£300.00	p81
Sony CDP-XB720E	£199.99	p83

### **CD PLAYERS GROUP B**

£300-£500

This price band represents a kind of crossover region, and includes models from mainstream producers (Yamaha, Rotel), and smaller specialists (Myryad, Parasound). Specialist suppliers like the latter are traditionally associated with the 'golden-ears' approach to CD player design in which the high-tech elements take a firm second place to careful tweaking based on extensive and informed listening. However, mainstream producers often have enough slack in their budgets to be able to take issues of sound quality seriously as well, with results that are interesting, and not always predictable.

Myryad T-10	£399.95	p85
Rotel RCD-971	£349.95	p89
Parasound C/DP-1000	£499.99	p87
Yamaha CD-X993	£399.95	p91

### CD PLAYERS GROUP C OVER £500

This group exemplifies as well as any the virtues of diversity. Aesthetically they could hardly be more different, and the same diversity is very much the rule under the skin, too. The Teac is the second model in this month's test (as well as the Sony XB720E) to employ switchable coefficient digital filters, allowing the player to be 'tweaked' to suit the user's requirements. The Musical Fidelity has some intriguing technology and is visually individual, with its well-built bodywork. The Arcam, meanwhile, features brand-new converter technology, produced in co-operation with dCS, whose importance is only hinted at in this first product.

Arcam Alpha 9	£799.90	p93
Musical Fidelity X-RAY	£800.00	p95
Teac VRDS-8	£599.95	p97

### HOW THE TESTS WERE DONE

ur 11 CD players were subject to the usual battery of tests, including a close physical examination, unsighted panel-based listening tests in a highgrade system, hands-on listening using a range of speakers and amplifiers, and a computerised measurement test programme. Each player was run in and warmed up prior to being auditioned.

Panel testing, spread over the course of two days, included a number of repeats, with no panel member knowing the identity of the player on test, and with levels carefully matched 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 was extended to include a Copland CTA301 and CSA515 pre/power combination for further hands-on testing, with Definitive Technology BP2002 floorstanding speakers. Speaker cables were from Ixos pending the repair of a speaker plug on my usual Nordost speaker cables. Interconnects were from Musical Fidelity and Ixos (screened) and Nordost (unscreened). Hands-on listening was broadened to included Rogers LS5/9s and a new

compact speaker from HPM. The CD player used as a 'reference' was the Arcam Alpha 9.

### THE LISTENING PANEL

Our thanks to the panellists:

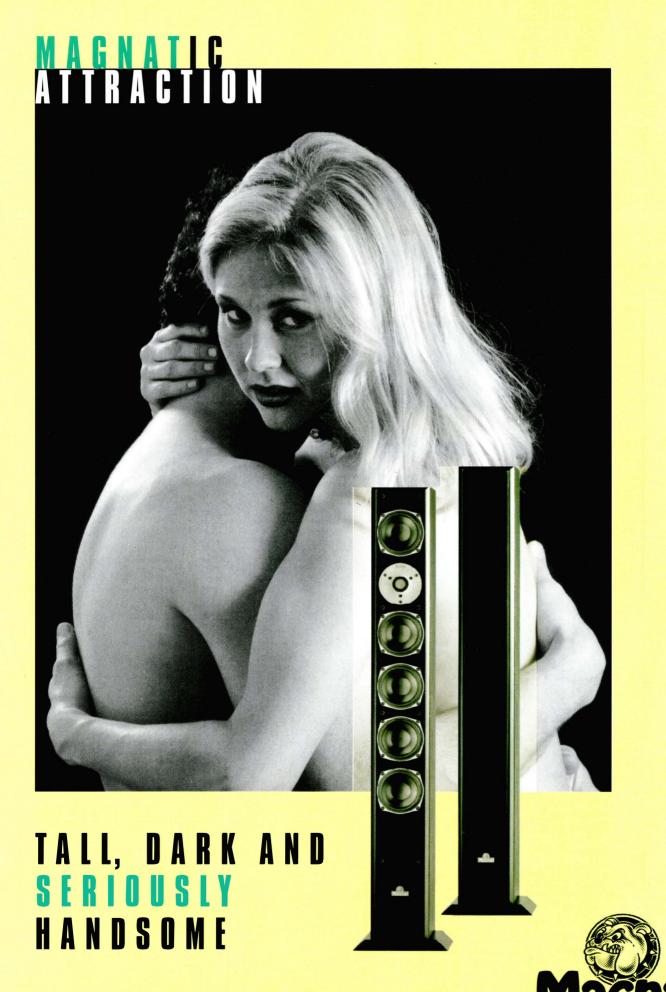
- David Inman (Castle)
- John Bamford (Pioneer)
- Keith Haddock (REL)
- Mark Hockey (Kenwood)
- Roger Batchelor (Denon)
- Jonathon Jordan (B&W)
- Russell Kauffmann (Densen) David Gamble (Mission)

THE TEST MUSIC **SHARON ISBIN: Lauro Sies**  porDerecho (for Spanish guitar and percussion) Thiago de Mello on Teldec **DIANA KRALL:** All or Nothing At All from Love Scenes on Impulse IMP 12342

**ROBERT SCHUMANN:** Symphony No 4 (3rd movement) Eliahu Inbal (cond) Radio-Sinfonie-Orchester Frankfurt on Denon CO018014

WYCLEF JEAN: Gone Till November (single) on Ruffhouse Columbia 665871 2

Various other titles, standard and HDCD encoded, were used for hands-on testing.



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# **DENON DCD-835**

he DCD-835, a recent addition to the UK Design series, replaces the popular, four-year-old DCD-825 (Rec, HFC 137). Denon claims to have conceived and optimised the '835 in

the UK to suit local market conditions. Included are a number of technical features that are uncommon at this price level, including a relatively massive transformer feeding 10 independent regulated supplies, a DAC and audio output stage run from a full 12V supply (5V is more usual), and a DC servo output to avoid problems with capacitor coupling and lowfrequency phase errors.

The transport and its logic control are new and faster-acting than before, though track-to-track access was a little sluggish in our tests. There are claimed reductions in jitter (confirmed by our Lab Report), and for the circuit boards, high-quality Silmic and polypropylene-film capacitors, plus selected metal-film resistors.

Also featured are dual-mono, 18-bit Burr-Brown DACs with eight-times-oversampling filter from NPC. Denon's proprietary Lambda circuit aims to banish the zero-cross distortion which afflicts multi-bit DACs. The analogue output stage includes Burr-Brown OP275 opamps.

The simple cosmetic design puts a centrallymounted loader above a new, neater display. As befits a minimalist design, there is no sound-strangling head-



of its success on audition, the panel thought the DCD-835 was more expensive than the preceding batch. In fact it costs about half as much...

phone socket, though the output level control is not an audiophile feature. You can extinguish the display with switches on both front panel and remote handset; the latter also supports index search. On the back panel there are electrical S/PDIF digital output and system control ('synchro') sockets.

### **SOUND QUALITY**

In two presentations to the panel, the Denon scored a high average, with a lower score on its second

outing easily ascribable to the strength of the preceding player. As a measure of its success on one audition, the panel thought the DCD-835 was considerably more expensive than the preceding batch of players. In fact it costs about half as much.

dom from the panel tests included the following: "Well balanced, very even handed, hard to pick out character, bass is well controlled, good body, reasonable slam, good timing (and) treble detail is good too". Another thought the Denon was "a grower — the presentation of the voice (Wyclef Jean) is very spacious [and] this is one of the best of the day". Its discipline was noted in comments such as "a well-measured player"; "it offers a big, bold sound; the strings are neutral, cultured and well damped [Schumann], and the jazz guitar underpins the vocals well [Diana Krall]". By common consent, the Denon was thought to be a detailed player that provided an open window onto music, with believable instrumental timbre. The sole, intermittent complaint

### CONCLUSION

Denon stuck with multi-bit digitalto-analogue converters long after most manufacturers opted for low-bit types, which by their nature suffer more from jitterrelated problems. Consequently, Denon's players have not always

described a trace of sibilance.

O Denon DCD-835 lacks headphone socket, but includes display dimmer.

been the tidiest-sounding, but they have tended to be sharp and dynamic with good, propulsive timing. This model is no exception, and it has added refinement that has not always been on offer in the past. The measured distortion between channels was not noticed in the listening tests, and although there will always be room for improvement, the DCD-835 already achieves a high standard and thus comes highly Recommended.

### **VERDICT** SOUND BUILD VALUE £279.99

- Fine, propulsive and musically engaging performer. The best Denon CD player for some time.
- **TWO YEAR GUARANTEE**

☑ Hayden Laboratories Ltd, Hayden House, Chiltern Hill. Chalfont St Peter. Bucks SL9 9UG **2** (01234) 741200

### THE LAB REPORT

While Denon's latest budget baby may not be a direct replacement for the DCD-825, it is at least a development of a familiar and ongoing theme. The extra attention paid to ground loops within Denon's DCD-835 has paid dividends, as any PSU-related jitter is reduced to zero, leaving just 185psec of (principally) datainduced patterns. This is the best figure yet for a Denon player and only some 40psec short of that achieved by the best Sony machines. Errors in low-level linearity of +0.3dB/-1.5dB over a full 100dB range are

O The DCD-835 declares war on jitter!

good for Denon's favourite 18-bit DAC, as is the 105dB S/N ratio.

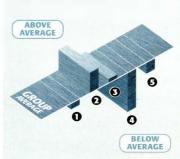
Clearly, the design harbours plenty of potential but, sadly, the initial shipment of units - including those destined for reviews -were not up to specification. I measured three samples where distortion and spurious digital images varied by up to 20dB (a factor of 10x) between left and right channels. (Denon assures us that it has traced this problem to a misrouted wire, and has rectified the problem with immediate effect. Ed) Various innovations, including the relay-protected DC-coupled output stage, do bode well for sound quality, how-

> ever. Incidentally, the pitch facility included on the remote control is disabled within the player itself. PMi

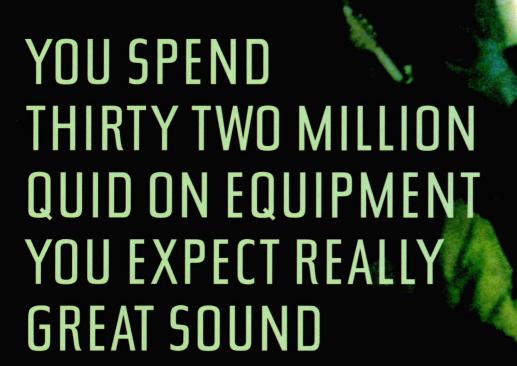
### **HOW IT COMPARES**

The Denon records a negative-going bar for distortion, not because is it inherently weak, but because the nature and distribution of harmonics are likely to encourage a colourful, rather than strictly neutral sound.





SPECIFICATION	CLAIMED	MEASURED
■ Distortion @ 1kHz/0dBFs	0.005%	0.0006%
■ Maximum output level	2.0V	2.24V
■ A-wtd S/N ratio	90dB	105dB



Australia: Stolmack Audio Pty. Ltd., P.O.

Pembroke Avenue, Cambridge, CB5 9PB, England. Tel:(01223)

Emerald Audio Resources, RRI, Palgrave, Ontario,

In New Zealand: Avalon Audio, 587 Mount Eden Road, Auckland. Tel:(09) 638 9000

In South Africa: Hi-Fi Specialists, 115 Durban Road, Bellville. 7535. Tel:(021) 946 1441

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technology that enables the Alpha 9 listener to tell whether that's a Steinway or a Bechstein lurking behind the conductor.

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Described as "Arcam's finest hour", the new Alpha 9 CD player boasts not only Arcam's renowned engineering principles, but something else rather unique. Patented technology in the guise of a ring DAC chip that delivers unheard - of definition and accuracy. Exactly the same technology, in fact, that's used in the radar system in the Eurofighter.

You see, the technology that tells the Eurofighter's pilot whether that's a friend or a foe lurking over the horizon, is precisely the same

ARCAM MADE IN CAMBRIDGE

# **MARANTZ** CD-67IIOSE



the proliferation of high-spec versions (SE, KI Signature et al) of what boils down to just a few basic CD players. Even Marantz seems to be a little confused, since this player is described as the CD-67mkIISE on the front panel, but with a prominent supplementary front-panel badge proclaiming that this is an *'Original SE'*. There is a basic model in this case (the £250 CD-67II, Rec, HFC 179); and there is also a direct predecessor, the CD-67IISE. This OSE costs the same as the displaced model, while the Original badge must be a kind of rebuke to other manufacturers using SE badges on their own models without acknowledging a debt to Marantz. However. Marantz is not the first to enhance basic cooking-quality models in an effort to increase its appeal to audiophiles: Rotel, for example, did much the same thing

at least a decade earlier. The formula is by now familiar. Here is a sleekly turned-out player with the characteristically slightly bowed front and gold fittings. There's a full range of front-panel features: a head-

indeed smooth and mellow, and with simple programme material it appears subtle, even seductive in its communication...

phone socket; digital outputs in both flavours; system remote control terminals; a four-stage 'display dimmer (but the display can't be switched off); and an output-level control on the remote handset which is best avoided. Internally the CD-67IIOSE uses a Philips CDM12.3 mechanism, a one-bit D/A Bitstream converter and Marantz's HDAM discrete output module (high slew-rate, high current, runs the claim).

### SOUND QUALITY

This was not one of the high scorers of the test, in fact the average test score was quite modest. On two separate presentations the panel was in fairly close agreement on a sonic character which emerged also in the handson listening that took place. And not only was the scoring consistent, so too was the nature of the comments. There were few specific complaints about the CD-67IIOSE, but just a generalised feeling from two different listeners that it was "mellow" and "a little rounded". Another felt that the Marantz tended to clutter up complex material: the Schumann, for example, was described as sounding "hard and forward", while Diana Krall was accused of "in yer face" vocals. Timing was described as "messy" and dynamics as "a bit flat".

The bottom line here is that this player is hard to distinguish from some of its predecessors. This is not good news at a time when the competition – well, some of it – has started to move on.

The sighted, hands-on testing told the same story. The Marantz is indeed smooth and mellow, and with simple programme material it appears subtle, even seductive in its communication. With more complex and aggressive material, however, the sound flattened and became harder, typifying the less pleasant aspects of compact disc's sonic character.

O This Special Edition Marantz is an original SE. Confused? Read on MacDuff.

### CONCLUSION

Smooth and elegant - and that's just the way it looks! The CD-67IIOSE even sounds this way until the octane level is cranked up, at which point the music becomes harder and more aggressive. It is this loss of consistency that marks the player down — plus the fact its is barely distinguishable from players that have gone before.

VERDIC				
SOUND ***				
BUILD	00000			
VALUE	00000			
PRICE	£299.90			

Another smooth, sleek Marantz player promises all, but lacks the consistency to follow through. A lacklustre performance with full-throttle material is the principal limitation of this unit.

### **■ TWO YEAR GUARANTEE**

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

**2** (01753) 680868

### THE LAB REPORT

ver the years, Choice has tested all the forebears of this 'Original SE' CD-67, from the CD-63 onward. And not only have those players all looked very similar, but the important facets of their design - such as the choice of NPC's SM5872 combined eight-times digital filter and DAC, the JRC op-amps, discrete 'HDAM' output buffer and Silmic decoupling capacitors - remain like dominant genes. Judging any significant technical difference between this CD-67mkIISE and earlier incarnations (HEC151. 159 and 166) is very tricky indeed, not least

O The S/N ratio is improved but the +8dB noise modulation is worse!

because Marantz's production tolerances seem very tight.

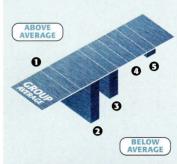
The highly complex jitter spectrum, with its characteristic peaks through midband frequencies, is instantly recognisable from early incarnations of the CD-63 and CD-67 and amounts to an equally familiar 533psec. Stereo separation is held to a remarkable>140dB at all frequencies while distortion remains very low at 0.002 per cent (re. -30dBFs, 1kHz). The 104dB S/N ratio is nearly 1dB better than earlier versions but the +8dB noise modulation is 1dB worse! Even the same -1.3dB 'kink' in low-level linearity is visible in the measured performance of the 67mkIIOSE. The

> bottom line is this: if you liked the other '67s then you'll also like the 'OSE'.

### **HOW IT COMPARES**

ve already alluded to the Marantz's jitter pattern which has become something of a 'fingerprint' - both objectively and subjectively - for the CD63/67 series. It's also the highest figure in this group, hence the droopy bar.





SPECIFICATIONS			
CLAIMED	MEASURED		
0.0025%	0.0008%	157	
2.0V	2.30V		
100dB	104dB		
	CLAIMED 0.0025% 2.0V	CLAIMED MEASURED 0.0025% 0.0008% 2.0V 2.30V	

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> Final Graaf Helios JM Lab Living Voice

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Hi-bit Legato Link Conversion

# **PIONEER PD-S707**

he key technology feature of this modestlypriced Pioneer is its new DAC24 D/A converter, which is described as a 'true 24-bit resolution DAC'. This is a Delta Sigma processor proprietary to

Pioneer, which includes a version of Pioneer's original Legato Link digital filter on the same substrate. The chip is made to Pioneer's specifications by Burr-Brown. The 24-bit resolution claim could be dubious, but the main pitch is made on behalf of the processor and its reduced sensitivity to clock jitter compared to normal 1-bit DACs, and a reduction in the truncation errors in the digital filter which performs arithmetic to the full 24-bit word lengths.

Otherwise what you see is what you get. The player features

07 PR 0126 sample failed to locate high track numbers. Perhaps it took a knock during transit. On the whole it municative", with "good imaging". handles discs with decorum and

SOUND QUALITY

respectable lick.

locates tracks at a more than

The average score for this player was highly satisfactory across two presentations, but there was a considerable spread in scoring between sessions, between listen-

...the Pioneer gave a strong account of itself in different systems, with a range of predominantly orchestral and instrumental recordings...

Pioneer's trademark inverted-player mechanism that supports the disc (which must be inserted label-sidedown) over its whole surface. An electrical digital output is fitted to the UK model, which can be turned off from a front-panel switch to reduce RF interference. The display can also be turned off, and there are plenty of play and tape editing features. The PD-S707 feels like a well-engineered and solid prospect, even though the first

ers during each session, and even from one piece of music to the next. More than one listener realised that the musical attributes

of this player are exceptionally dependent on musical styles. "It's going to sound good on some types of material and not on others," read someone's sumup comments. There were times when the Pioneer was described as "uninvolving" and even "unmusical", and others when it was felt to be "comOne listener wrote that "this player offers a strong sense of space and openness compared to others", though another view was that it sounded "lumpy, with a flabby bass, and spitty treble".

Such a mixed bag might seem like all the encouragement anyone needs to steer clear, but in separate hands-on testing the Pioneer gave a strong account of itself in different systems with a range of predominantly orchestral and instrumental recordings. It provided a clear sense of image space and depth, though localisation was sometimes lacking, and some of the better rock recordings sounded a bit undercharged. This player is definitely music dependent, and there's even a suggestion of system dependency. Overall there's an almost valve-like laid-back quality, but instrumental and vocal separation were strong. On the whole this is an attractive, open and above all interesting-sounding player. There is a noticeable increase in transparency if the digital output is switched off.

O The Pioneer's large CD tray is due to its inverted player mechanism.

### CONCLUSION

Legato Link has again produced its usual mixed responses. The PD-S707 is an attractive proposition which extracts the subtleties in good recordings. The only failing is a slight lack of impact with some high-octane material. Not everyone's cup of tea, but well worth auditioning. Recommended.



### THE LAB REPORT

Rather than adopt the latest variant of Pioneer's 'Legato Link S' digital filter, the PD-S707 harks back to the earlier technology of favoured players like the PD-\$705 and PD-\$505 (HFCs 163 and 166). Nevertheless, the execution of this technology is improved. Earlier issues of Choice criticised forebears for a relatively poor 96dB S/N ratio and high 1kOhm output impedance. New power supplies and analogue circuitry have improved this to 106.8dB and 480 Ohms, respectively just as levels of digital jitter have been reduced to

O The PD-S707 goes back to basics.



270psec. And this, itself, is largely composed of innocuous low-rate and powersupply-induced patterns.

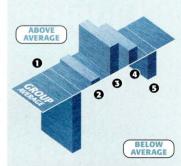
Distortion remains very low at 0.001 per cent (0dBFs) and just 0.002 per cent at -30dBFs but errors in low-level linearity have increased slightly to +2.4/-2.1dB (re. -100dBFs). Similarly, while the Legato Link filter still encourages a gentle HF roll-off (-2.9dB at 20kHz), the presence of strong digital images just outside the audioband produces in-band IM distortions at -75dB (or 0.009 per cent). Low, to be sure, but they were not present in earlier models. Do note that this distortion mechanism can produce a different subjective effect with different amplifiers. Otherwise it looks like a general thumbs-up for Pioneer's 'springclean' of the PD-S705.

### **HOW IT COMPARES**

Conventional players attempt to eliminate digital 'reflections' as much as possible, but Pioneer's Legato Link digital filter deliberately manipulates them to simulate the presence of ultrasonic musical harmonics. Hence the -80 per cent recorded here.



■ A-wtd S/N ratio



SPECIFICATIONS			
SPECIFICATION	CLAIMED	MEASUREI	
■ Distortion @ 1kHz/0dBFs	0.0023%	0.001%	
■ Maximum output level	Not quoted	2.40V	

110dB

December 1998 HI-FI CHOICE 81

107dB

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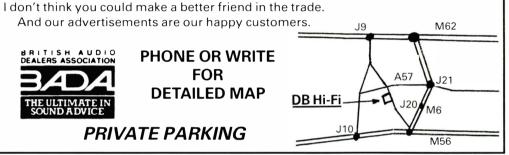
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# **SONY CDP-XB720E**

his Sony is the most affordable player in this month's group by a substantial £79 margin. It understandably feels rather lightweight by group standards, but it is said to have a more rigid chassis than its predecessors, a slanted PCB and 'off-centre' feet to reduce acoustic feedback. A switchable-coefficient digital filter (a Sony speciality, though a very similar idea was first premièred on a British player years ago) has four settings, which allows the user to 'tune' the sound as required.

There is plenty more where this technology came from, notably a new, highly-integrated pulse-gen-

...the standard one-fits-all setting may not be ideal in every case, but works adequately most of the time; while the others provide some variety...

erator, clock, digital filter and noise shaper, the CDX8735N. For this, greater synchronous time accuracy (a synonym for jitter) and reduced noise are the major claims. Final development of the player took place in the UK, which resulted in a number of changes from the standard international model. These include larger PSU and analogue supply capacitors, improved-quality wiring, new fixing materials, a



socket, all supposedly to improve sound quality. An output-level control has been retained, which is an inconsistency in this context, and as usual should be bypassed for critical listening. In common with previous Sony players, there are plenty of tape editing, programming and navigation options, including CD Text which displays the track titles of appropriately coded CDs

### **SOUND QUALITY**

For the purposes of the test panel, the Sony was treated as four separate players, each corresponding to one setting of the variable coefficient digital filter. The standard setting is a more or less conventional brick-wall filter, and the other three settings (broadly modelled on the Pioneer Legato Link model and designed to improve phase and harmonic behaviour at the expense of in-band response accuracy) provide various flavours of sound which can be chosen to taste. The general prognosis is that a setting that works well, say, with rock recordwith choral or instrumental discs. Although there were differences in scoring, the range of scores was surprisingly narrow, with the average being quite low, which should be assessed in the context of the player's price.

The standard setting met different reactions from the panel, with comments ranging from "good attack, easy-to-follow guitar lines" to "bass notes fudged - hard and uncomfortable though it is detailed". The consensus view, taken with the hands-on test results, was of a rather sharp, over-etched quality somewhat lacking in body and consistency. The other filter settings all gave a rather softer sound, often with a trace of sibilance. Preferences changed with the programme material, though it was the sec-

> ond filter which met with the greatest success ("a pleasing sense of tension...sense of reality.... good timing and balance"), and filter three the least ("plummy....sibilant.... aggressive"). It was hard to sustain this ranking order when the music, or the system, was changed.

O The Sony CDP-XB720E comes complete with four digital filters.

### CONCLUSION

The standard one-fits-all setting may not be ideal in every case, but works adequately most of the time; while the others provide some variety. The second setting in particular showed real promise with a range of recordings. The Sony may not be appropriate if you want the easy life, but for those who don't mind experimenting, it is an excellent budget choice. AG



### THE LAB REPORT

Employing much the same selectable fil-ter technology that first graced the CDP-X3000ES (HFC 169), this more affordable player also features a new and highly integrated conversion IC. The code for four different digital filter options plus noise shaping and bitstream D/A conversion is housed within this chip, the CXD8735N. The 'behaviour' of the 'XB720E depends largely on which filter is selected. In standard mode the response is ruler flat, stopband rejection better than 105dB, distortion less than 0.003 per cent (all fre-

O Do four filters mean four sounds?

quencies, OdBFs) and low-level linearity held to within tight +0.1/-0.3dB limits. This, plus the vanishingly low 145psec of jitter, would represent a state-of-the-art performance, regardless of price.

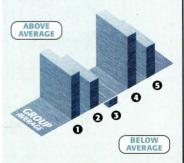
Filter 1 turns the 'XB720E into something that mimics a Pioneer Legato Link player, for example, with a gently rolled-off treble (-4dB at 20kHz) that seems to extend well beyond CD's 22kHz limit. This is achieved by manipulating the digital 'reflections' that other filters seek to remove altogether. Filters 2 & 3 represent variations on this theme but will prove equally variable in their subjective performance with different

> amplifiers. Fortunately, if you don't like the sound of one filter, you have three others to fall back on!

### **HOW IT COMPARES**

Sony scores highly both in Jitter and Distortion categories. The former is achieved by minimising all forms of internal interference, the latter by optimising the 'Pulse' bitstream DAC and analogue filter.





SPECIFICATIONS			
SPECIFICATION	CLAIMED	MEASURED	
■ Distortion @ 1kHz/0dBFs	0.0035%	0.0016%	
■ Maximum output level	2.0V	2.46V	
■ A-wtd S/N ratio	102dB	103dB	



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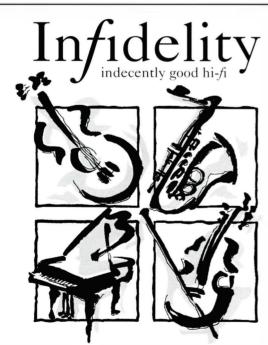
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# **MYRYAD** T-10



series, which derives its technology from more 'illustrious and expensive' models, in this case the MC100.

The company appears to be pushing the T-10 as a cheaper version of the MC100 — while it may not look so sophisticated, Myryad claims the T-10's sound is not compromised. For reference, the MC100 costs £700, £300 more than the T-10.

The Myryad makes a good initial impression. While it will win no prizes for aesthetics, the ultra-simple interface provides its own joys, and the simple display also promises little room for misunderstanding. Track access times from its Sony mechanism are satisfyingly short, and the handset delivers all the usual navigation and programming options as well as a 'dim' key, which switches the display off, in a straightforward and understandable manner.

The deck is solidly built and appears to be well endowed, though the aluminium front panel (black on the test sample, but also available in silver) has a rather rough finish. It features a respectably-specified transformer driving seven regulated power supplies. The con...while it will win no prizes for aesthetics, the ultra-simple interface provides its own joys, and the simple display also provides little room for misunderstanding...

version stage is a 20-bit Crystal Delta Sigma (DS) processor, with a 128-times oversampling digital filter, and a four-pole analogue filter implemented as a FET op-amp. Other highlights include an isolated master clock, said to be of very low jitter characteristics, and close-tolerance passive components. No headphone socket is fitted, but an electrical digital S/PDIF output is included.

### **SOUND QUALITY**

Although initially impressed by apparently strong timing and a good stereo spread, one panellist went on to describe the Myryad as "untidy" generally. He also observed that it did, as he put it, "weird things" with

depth imagery, especially in the Diana Krall and the Schumann symphonic excerpt. His sum-up comments included the following: "Drums sound machine-like, and strings lack sway". His comments proved all too typical. In conversation following the tests, one listener commented that the T-10 "needs a big injection of pizzazz" and that it "glosses over detail". Other complaints included ones of a "sluggish bass". A perhaps more balanced assessment concluded that the player "impressed me with its dynamic qualities, but as the test progressed, other things didn't happen that should have. There's nothing terrible here, but something lacking compared to the previous player".

Nothing emerged from the hands-on testing to contradict the panel. Indeed this is a rather messy-sounding player with complex material, and one that underplays its hand with simpler but good-quality recordings of all genres. A well-liked Stravinsky Rite of Spring lacked the necessary elemental aggression, and Bill Frisell's lush Blues for Los Angeles (from Gone, Just Like A Train) lacked both immediacy and consistency.

O The T-10 claims to embody the MC100's virtues for £300 less.

### CONCLUSION

The T-10 seems to have everything going for it. Being the derivative of a much costlier player, and with simple features, the whole package seems tailored to attract the audiophile on a budget. Build quality certainly appears to justify the price and expectations, and the three-year guarantee is a positive reassurance, but in practice the T-10 failed to cut the mustard musically, sounding inconsistent and, as one listener so aptly put it, "lacking in pizzazz".



THE LAB REPORT n this, the cneaper of the ers, Myryad is using a miniature, surfacen this, the cheaper of two related playmount version of Crystal's 20-bit CS4327 converter. However, its output of ultrasonic noise seems better contained than usual. possibly as a consequence of Myryad's proprietaryfour-pole active filter. This has less impact on high-frequency distortion which still increases from a very low midband figure of typically 0.001 per cent to 0.018 per cent at 20kHz. Though these figures are hardly huge, it's the difference between them that can cause subjective repercussions, not unlike the swift increase in HF THD associated with archetypal, high-feed-

As expected with a Crystal DAC, lowlevel linearity is maintained to within tight +0.2dB/-0.5dB limits, while the low 175psec

back transistorised amplifiers, for example.



O This Myryad boasts very low jitter.

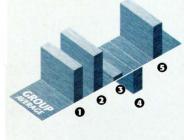
of overall jitter contains just 130psec of substrate-level, data-induced sidebands. This is an excellent result. Sadly, the practical 100dB S/N ratio is well short of a 'real' 20bit specification. This limitation might just as easily be caused by the analogue stage which is responsible for the high 2.6V peak output level and capable of prejudicing any quick, unmatched A/B demonstrations.

Incidentally, Myryad's board has provision for additional components, possibly intended for the T-20 player or perhaps a future 'T-10SE'. We'll just have to wait and see!

### **HOW IT COMPARES**

his player achieves above average scores in most categories but the abrupt changes in distortion through mid to high frequencies might prove the biggest subjective distraction.





SPI	ECIFICATION	IS
SPECIFICATION	CLAIMED	MEASURED
■ Distortion @ 1kHz/0dBFs	0.003%	0.0006%
■ Maximum output level	2.5V	2.61V
■ A-wtd S/N ratio	100dB	100dB



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# PARASOUND C/DP-1000



priced, specialist hi-fi brand from the USA, many of whose components (the company specialises in pre and power amplifiers) have high-end pretensions. Parasound has not had consistent distribution in the UK, but has recently been taken under the wing of CSE, alongside Straight Wire and Lexicon.

The C/DP-1000 is a minimalist player based on an 18-bit Burr-Brown hybrid chip with eighttimes oversampling. It is described as having 'high-resolution' analogue circuitry. All the usual programming and search options are available, mostly via the remote control, and the player will drive an external recorder or D/A converter from an electrical S/PDIF output. Unusually, the Parasound includes a socket for a remote infra-red receiver (available from third-party suppliers), which means the player can be placed behind furniture doors without needing to have a clumsy-looking i/r repeater affixed over the

player's own receiver eye.
Build quality is excellent.
We tested the 19in rackmountable version of the
C/DP-1000, but it is also
available as a 17in standard
unit. The rack-mounting

...the Parasound
was largely well
behaved and free
from the obvious
nasties associated
with poorer digital
audio, which
helped nondescript
recordings to sound
acceptable...

holes are blanked off as supplied, and the casework is extensively strengthened and damped, which is normally done to mitigate the effects of acoustic feedback. The display provides limited information, but it is clear and attractive.

### SOUND QUALITY

The panel reacted favourably to this player, although this was not accurately mirrored in some of the comments submitted. "Smooth

> vocals are interesting and easy to listen to" (Diana Krall), "good soundstaging" (Schumann) and "presentation of bass promotes long term listening" (Wyclef Jean) are typical of the kind of comments that the Parasound

elicited, but they were leavened with less positive ones. "Slightly shut in," complained one of the Lauro guitar and drum recording, and "lacks apparent life and dynamic range" greeted the Schumann, while another thought the player sounded "bland and lacking in enthusiasm".

Despite a patina of architectural solidity, the separate hands-on listening with a wider range of equipment showed some flaws, notably a rather lean, undernourished bass and a lack of vitality with energetic recordings, along with confirmation of a soft, shut-in feel. Most noticeable of all was the loss of low-level clarity, the subtle ambient information, and the high-frequency harmonic structure that makes the strings and woodwind (not forgetting brass and percussion) sound alive and credible.

The effect was rather like listening to an analogue source, but in the wrong sense. The Parasound was well behaved and free from the obvious nasties associated with budget digital audio, which helped nondescript recordings to sound acceptable. The problem was that recordings known to sound better

O This player is also available as a 17in flush-finished component.

through their performance on other players failed to demonstrate their inherent advantage.

### CONCLUSION

This player is not without merit, and in the surroundings of the test system it gave a good account of itself. Extended listening, however, showed a lack of depth to its abilities, with question marks over resolving power and tonal balance, with system-to-system consistency also being suspect.



### THE LAB REPORT

Physically this is a heavyweight player, though much of its bulk is accounted for by the rubberised damping sheet under the top plate and the rectangular bar of — I presume — mild steel that's screwed to the inside of its chassis! Parasound is employing a surface-mount version of Burr-Brown's (by now,) rather dated PCM67 hybrid converter. This is driven by a relatively poor digital filter that offers just 21 dB rejection of digital 'images' immediately outside of the audioband. The S/N ratio is just within the 16-bit standard.

High distortion decreases at HF.

\* 5\_2 t 5

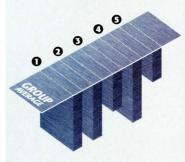
Distortion is high too, at typically 0.02-0.03 per cent at -30dBFs, but this actually decreases at HF thanks to the efforts of Parasound's analogue filter network. Levels of ultrasonic noise are also well suppressed though, judging by the -1.7dB droop at 20kHz; perhaps the filter bites a little too early. The 2V 0dBFs output level is spot-on, though the source impedance is rather high at 1kOhm for one or two of the 'low input impedance' amplifiers knocking about these days. Finally, the 1033psec of overall jitter is largely accounted for by strong data-induced sidebands. From experience, these sorts of patterns are known

to compromise the natural colour and vibrancy of reproduced music. PMi

### **HOW IT COMPARES**

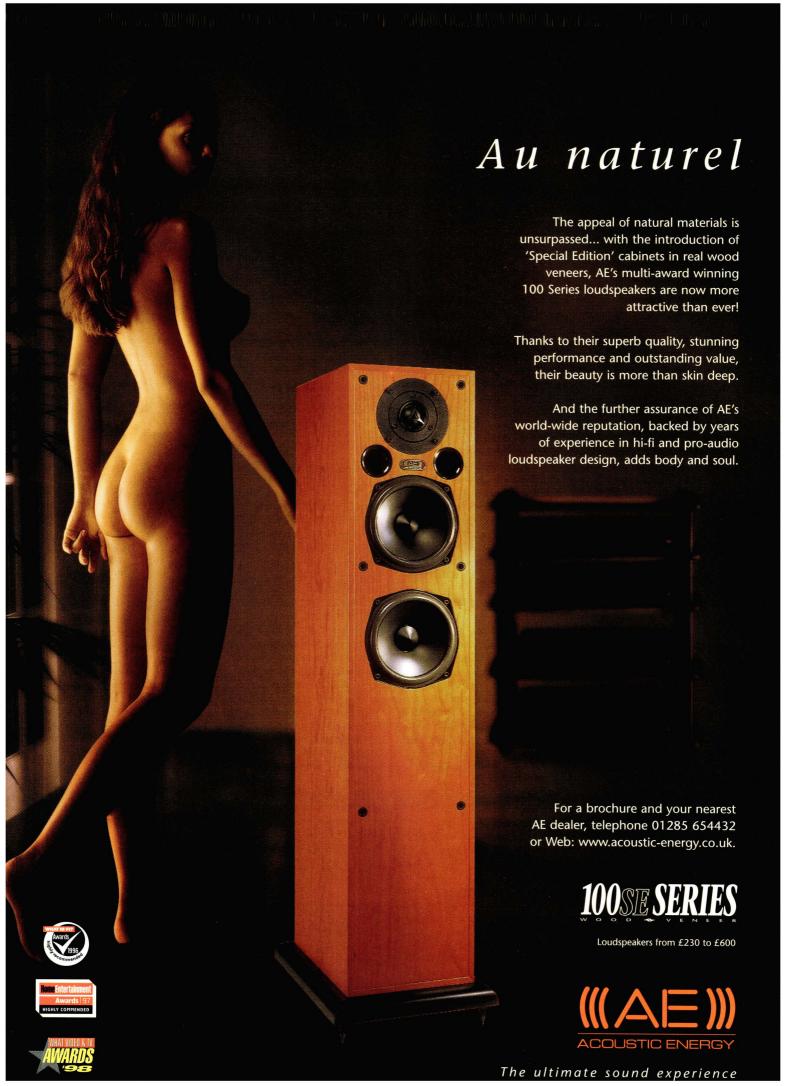
E vidently, this player falls well behind the group average in all major areas of performance. Arguably, the high jitter and poor mid-level/HF distortion will have the greatest subjective impact.





### SPECIFICATIONS

SPECIFICATIONS				
SPECIFICATION	CLAIMED	MEASURED		
■ Distortion @ 1kHz/0dBFs	0.002%	0.0025%		
■ Maximum output level	2V	2.01V		
■ A-wtd S/N ratio	110dB	99dB		



ROTEL

# **ROTEL** RCD-971



identikit Rotel CD player; slim, mean and workmanlike rather than attractive. But someone has been waving a magic wand below deck, and the RCD-971 turns out to have hidden talents.

So, what gives? The engine room contains dual differential Burr-Brown PCM63P DACs and a Pacific Microsonics PMD 100 HDCD digital filter, which of course means that it will play HDCD discs in native mode. This resulted in excellent performance with the handful of worthwhile discs of this type, but performance was only slightly inferior when playing non-HDCD discs.

Other highlights include separate analogue and digital supplies, and slit-foil capacitors (on past form, a significant inclusion) along with other 'audiophile' components including Oscon capacitors, and some mechanical damping of the lid and base. The mechanism is from Sony, but although track access is fast, reading the TOC (Table of Contents track) is achingly (and for Sony uncharacteristically) slow. There are other ergonomic shortcomings too. The player shows a double zero and fails to display preselected track numbers until it has

...here is a player that has a fullness and roundness and an unusual smoothness that suggests it will remain listenable long after others have started to grate...

read the disc's TOC. With the drawer open, track numbers (other than track one of course) cannot be preselected at all.

Equipment levels are fairly standard for this class of machine, and include an electrical digital output and all the usual navigation and programming options, but there is no headphone socket.

### SOUND QUALITY

Too many times with recent Rotel products, performance has lacked a certain spark to set it apart from the run of the mill. Not so in this case. Here is a player that has a fullness and roundness and an unusual smoothness that suggests it will remain listenable long

after others have started to

grate on the nerves. Yet in no sense has this been achieved at the cost of resolving ability, clarity or dynamics. On the contrary, this is a refined, but exquisitely detailed-sounding player.

Almost to a man, the panel agreed with this prognosis, as the high test score showed. "It's a super smoothie to me," wrote one, who remarked specifically on the "nice spread" of sound and the very "listenable" vocals in the Diana Krall song. Another talked of its smoothness, "almost like a Roberts radio — but in a positive way". The Rotel doesn't sound quite like other players, and this presents a dilemma when making a reasoned assessment. Again, this seemed to have been recognised by the panel, as one noted that either "all the others are wrong and this one's right, or this is an oddball". Well maybe, but the slightly mid-forward balance seemed to suit all music types without favour, and the Rotel's ability to cut to the quick even the most challenging programme material (without sounding raw, aggressive, or alternatively recessed or softened) marks it out from the crowd in a positive sense. The same applies to its confident, unrushed timing.

O A slick-sounding superstar; lacks only in ergonomics.

### CONCLUSION

This is clearly an exceptional player, and deserving of the highest praise at its relatively modest price. Its resolving ability is particularly strong, and in this context the maker's recommendation to use quality solid-core cables makes good sense in most systems, as stranded cables usually reduce resolving ability. It was surprising to discover some rough edges in what is often called the user interface, but there is nothing here to frighten the horses. Best Buy. AG



### THE LAB REPORT

Slim and sophisticated, Rotel's RCD-971 combines the services of Pacific Microsonics' HDCD digital filter (see Oasis, HFC182) with two 20-bit PCM63P DACs from Burr-Brown. The latter were once the preserve of costly, high-end machines but this implementation - with Burr-Brown op-amps and generous use of Rubycon BGF capacitors - offers a slightly 'modified performance'. The 107dB S/N ratio is at least 6dB behind other '63 users (like the AVI S2000MC, for example) but then its reduced +9.5dB noise modulation will impart less of any 'sonic roughening'. Distortion, too, is

O Reference jitter levels at 135 psec.

low but not state-of-the-art at 0.0045-0.012 per cent (re. 0dBFs) while the +0.0/-1.1dB errors in low-level linearity are negative, making any digital nasties less audible. The response is flat, and stereo separation in excess of 114dB over the whole audio band.

In the same vein, ultrasonic requantisation noise is suitably suppressed and this, along with the modest 100 Ohm output impedance, bodes well for compatibility with different amplifiers. Jitter, too, is of reference standard with just 135psec of substrate-level, data-induced patterns. Bearing in mind that none of the 170 CD players now on record has achieved better than 130psec, this is an incredible result and

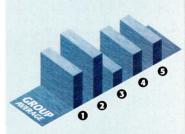
certainly the best obtained with the PMD-100/PCM63 chip combination.

### **HOW IT COMPARES**

II the essentials are right here from Athe wide S/N ratio, exceptionally low jitter and very well controlled, if not vanishingly low, levels of harmonic distortion.



5 LINEARITY



SPECIFICATIONS			
SPECIFICATION	CLAIMED	MEASURED	
■ Distortion @ 1kHz/0dBFs	0.0035%	0.0045%	
■ Maximum output level	1.0V	2.37V	
■ A-wtd S/N ratio	107dB	107dB	

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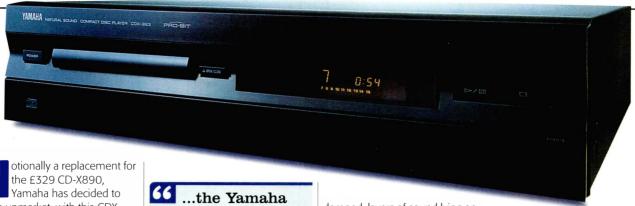
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# YAMAHA CDX-993



move upmarket, with this CDX-993, which features substantial enhancements in most areas. The basic topology, however, remains as before. This is a Bitstream player, using Yamaha's own YAC514 single-bit DAC and Pro-Bit digital filtering. This, in turn, is described as having some of the properties of Pioneer's Legato Link, which is a comparatively gentle digital filter. Enhancements include an integral isolating platform base, plus added shielding around the laser pickup assembly, transport mechanism and circuit board, all with the intention of reducing RF (Radio Frequency) interference. Other enhancements include improved earthing, an upgraded power supply, and a Class A output stage.

The most striking physical attribute of the CDX-993, however, recordings. is its sheer physical presence. This is a huge player, comparable in size to some LaserDisc players, and larger than any of the other units here. It is nevertheless dressed discretely. with a drop-down full-width panel to conceal the minor features, which include the

...the Yamaha oozes style, and the front-accessible optical digital output will be a boon to those who habitually make dubs onto MiniDisc...

usual CD navigation buttons, numeric track access keys, programming keys, a headphone socket and volume control. There's even an optical digital output, designed for quick connection to a MiniDisc recorder, in addition to the rear panel optical and electrical outlets. The handset adds a few additional features, such as index search, display dim/off and peak search, the latter to help set record levels when making (analogue)

### SOUND QUALITY

One listener's feeling was summed up in his opening phrase in after-listening discussion: "How do you spell 'woolly?" he asked, which met with a chorus of approval. "It's all there, but the bass is underdamped, layers of sound lying on top of each other with no sense of space in between," said another.

There were more positive views, however. One praised the Yamaha's soundstaging which he felt had "plenty of depth", and its timing (Diana Krall), which he felt was "interesting and foot-tapping", though in the Wyclef Jean he too was back on message with complaints of "sloppiness" and "lack of timing". Another commented in similar terms on the sound being "too smooth — imagery doesn't cohere, and bass timing is variable" before summing up the Yamaha as "safe, but not for me". The test score wasn't disastrous. but was below average.

The hands-on testing confirmed the picture of a player whose lowfrequency reproduction sometimes seemed overblown, and whose sound failed to swell with musical dynamics, reducing the impact of symphonic music like the Schumann. Somewhat distant stereo perspectives also played to the same ends, and finally, there was noticeably less consistency in sound between systems than was the rule with other players.

O The largest player in this test!

### CONCLUSION

Massive, but well dressed, with the minor controls hidden away when not required, the Yamaha oozes style. The front accessible optical digital output will be a boon to those who habitually make dubs onto MiniDisc. Musically, it lacks the focus and discipline of the best modern machinery at this price, though its lush, slightly distant sound may find favour with those who find other players too harsh and grainy. AG



THE LAB REPORT

n a variation on earlier players, the CDX-993 uses Yamaha's own YAC514F Pro-Bit bitstream-style DAC. This offers an unusually mixed performance. For example, distortion at peak level can be as low as 0.005 per cent, but this increases by a factor of 25x to 0.013 per cent over the top 30dB of the player's range. Similarly, the A-wtd S/N ratio of 103dB and low +3.9dB noise modulation bode well even though, by modern standards, the +2.4dB/-3.5dB errors in low-level linearity (particularly at

O Can help bright-sounding systems.

midband frequencies) is something of a throwback to specs of yesteryear.

A clump of low-rate (<400Hz) sidebands account for the bulk of its modest 340psec jitter which, though higher than the best in our test, should not prove subjectively damning. More important, perhaps, is the high 655 Ohm output impedance which increases to a maximum of 4.4 kOhms (re. -6dB) via what is evidently an unbuffered variable output. In some circumstances, this could modify the overall system response and distortion, rather like using a passive pot between the fixed output of a CD player

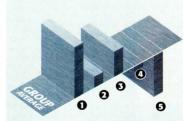
and accompanying power amp. But, if you've a brightsounding system, this 'incidental fix' could prove to be a welcome solution! PMi

### **HOW IT COMPARES**

ne of the CDX-993's strongest assets is the eight-times oversampling digital filter built into Sony's signal processing chip. This provides an excellent stopband rejection while Yamaha's DAC offers a wide

dynamic range.	
1 SUPPRESSION OF DIGITAL IMAGE	70%
2) JITTER	15%
3 PRACTICAL DYNAMIC RANGE	35%
4 HARMONIC DISTORTION VS LEVEL	-5%

5 LINEARITY



SPECIFICATIONS
CLAIMED

CLAIMED	MEASURED
0.002%	0.0005%
2.0V	2.34V
103dB	103dB
	0.002% 2.0V

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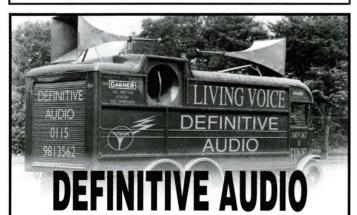
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# **ARCAM** Alpha 9



may look like every other Arcam CD player, but as regular readers of Choice will know (see HFC 180) the '9 employs revolutionary RingDAC converter technology, developed in co-operation with pro digital specialists dCS. For once it is not hyperbolistic to use the word 'revolutionary'. The proprietary RingDAC implementation here was largely funded by Arcam itself, and in principle its software can be upgraded in the future, though there are no plans to do this at present. The digital output filter is complemented by both a fourpole analogue filter to keep the ultrasonic area clean, and a Pacific Microsonics HDCD digital filter, for use with HDCD-encoded discs. Playing the latter, however, causes a doubling of the output voltage to nearly 5V (from a low source impedance), so bear this in mind when choosing a partnering amplifier. Dealers will advise.

The Alpha 9 does look like other Arcams. Some might argue that the look is fussy and not the last word in class, but it does ensure that the unit matches numerous earlier Arcam products of former years. Another benefit of this look is its visual

66 ...the Arcam Alpha 9 may look like every other Arcam CD player, but employs revolutionary RingDAC converter technology developed with pro specialists dCS...

harmony with mainstream components of Far Eastern extraction a traditional Arcam strength.

This player is relatively featureladen, with front-panel programming and additional features available from the palm-sized handset. These include a volume control to partner Arcam amplifiers. The Alpha 9 also responds to commands from Philips and Sony remote handsets.

### SOUND QUALITY

The Alpha 9 was auditioned 'unsighted' on three occasions during the tests, and was also used as the (unidentified) reference player, with highly consistent results from session to session. This kind of panel testing prevents listeners from being swayed by technological claims or brand loyalty. In this context the test-score average was well below most of the cheaper players.

After the panel tests had finished, it emerged that our two samples did not demonstrate the true potential offered by this design. While we were listening, Arcam independently discovered an unforeseen and, alas, sonically deleterious consequence of a production-line manufacturing technique. Production was halted while a cure was researched and implemented. At press time we had briefly auditioned a player made according to the new technique, and its sound was a world apart from the first two samples submitted. But comments made on the latter were nothing if not mixed in character.

"The midband is open, and there's a strong sense of space and detail. But as the music progressed, it seemed to degenerate and became mechanical, almost as though the leading edges, were missing". Other comments suggested that the Alpha 9 was "a mixed bag... very warm and midrangy". Sighted listening confirmed a lack of vitality and air.

O The Alpha 9 follows Arcam's traditional external styling, but employs the new RingDAC converter inside.

### CONCLUSION

Our final judgment of this player must wait until a fully revised sample can participate in formal unsighted listening sessions. However, as regards the production Alpha 9s that we auditioned, they did not live up to our expectations of the high-tech RingDAC, compared with the engineering sample we tested earlier this year. For now the verdict cannot be glowing, but watch this space for a rereview in due course. AG



### THE LAB REPORT

he innovative dCS RingDAC technology, at the heart of the Alpha 9, was covered in depth in HFC 180. The strengths of this conversion technology are realised in the minuscule +0.0/-0.3dB errors in linearity over a full 100dB dynamic range, in its almost total suppression of digital 'images' and ultrasonic noise, and in the highly consistent nature of any residual distortion. Sure enough, a figure of 0.009 per cent at peak level (0dBFs) might not be the lowest on record, but the Alpha 9 maintains this figure from 20Hz to 20kHz. And

O Alpha 9: consistency is the key.

this, by contrast, is unusual. So too is the consistent 99dB stereo separation right across the same 20Hz-20kHz audioband.

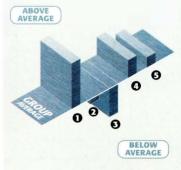
Subjectively, such consistency tends to bode very well for sound quality because it means that what colorations do exist are readily 'learned' and, typically, ignored by the ear. It's those distortions that constantly shift about that give rise to listening fatigue. Anyway, the Alpha 9 is not without its foibles. The RingDAC might well accept 24bit data, for example, but its implementation here only yields a 16-bit (96dB) S/N ratio. This is just fine for CD but Arcam would have to revise its circuit if the same

> technology were to be used for 96kHz/24bit DVD audio replay, for instance.

### **HOW IT COMPARES**

**B** ecause of this group's limited sample size, the true impact of Arcam's stopband suppression is not realised just as any 'limitation' of its 16-bit dynamic range is exaggerated.

	_
1 SUPPRESSION OF DIGITAL IMAGE	65%
2) JITTER	-5%
3) PRACTICAL DYNAMIC RANGE	-40%
4 HARMONIC DISTORTION VS LEVEL	25%
LINEARITY	15%



### **SPECIFICATIONS**

SPECIFICATION	CLAIMED	MEASURED		
■ Distortion @ 1kHz/0dBFs	<0.01%	0.009%		
■ Maximum output level	2.3V	2.36V		
■ A-wtd S/N ratio	100dB	96dB		



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# **MUSICAL FIDELITY** X-RAY

sing 'X-RAY' in the name of any piece of hi-fi equipment might strike some as foolhardy, if not downright alarming. In fact, the name is designed to highlight the ability of this player to 'see' into the source, just as X-rays 'see' into the body. Well, you get the idea. The player employs Burr-Brown DACs, although the 24-bit flag on the front panel should not be taken at face value (see Lab Report). The X-RAY has a low claimed output impedance (below 50 Ohms) and a novel linear-phase, five-pole output filter. Combined, these measures should (and did) ensure sonic consistency from one system to the next. Musical Fidelity has also improved its previously indifferent standards of jitter performance.

The X-RAY is very well built. While the strong styling will not suit all tastes, the casework is unusually solid and non resonant. The maker points to this as a significant contribution to sound quality and surely most will welcome its space-saving design. Finish is first class, and the controls feel solid and well damped, with a smooth, quiet loading action to match. The basic front panel set includes track skip, but not search keys, for which the well-endowed remote control is required. Electrical and optical digital S/PDIF outputs are fitted, but there's no headphone socket, in line with the quality-first prospectus. Display switch-off and dimming are also available from the remote handset.



66 ...finish is first class, and the controls feel solid and well damped, with a smooth, quiet loading action to match...

### SOUND QUALITY

The X-RAY's average score was disappointing for one of the costliest players in the group. This is particularly true if you think that it had the advantage of being used in the panel sessions with Musical Fidelity's own matching pre/power amp. In fact, the latter was a neutral choice in this context, which is one reason it was chosen.

> Despite some remarks suggesting an "overblown" bass and "suspect" timing, there was a consistent thread through the comments made in each presentation. This was that the player sounded clean and well controlled, but

lacked a quality that one listener described as "pizzazz". It was felt to have a "reduced [image] scale" in the Schumann, and perhaps summing up the panel's thoughts, another wrote that the X-RAY's smoothness "robs it of some life".

After listening with other equipment combinations, the lack of overt character in the sound seems to this writer to be an advantage: it is a transparent tool, and one that sustains extended listening well, but the claims of high resolution are not fully met.

### CONCLUSION

In a way, this player is as interesting for what it isn't as for what it is. Musical Fidelity was quick to include Pacific Microsonics' HDCD digital filter, which on previous form is more significant for what it can do with ordinary discs than for its ability to decode HDCD discs. Its absence here was therefore noted, and the story is that the Burr-Brown processor is not yet available with HDCD. Apparently there will be an inteO Superb build quality and finish distinguish Musical Fidelity's X-RAY.

grated version which will be showcased at some point in a new incarnation of this player. On balance, the latter should be worth waiting for. As it stands, and taking due note of its superb constructional quality (and five-year guarantee), the X-RAY is musical, accurate and even refined, but only erratically engaging. AG

### **VERDICT** SOUND £800.00 Excellent build, and fine musical manners, but somehow doesn't hit the G-spot. Roll on the HDCD version. ■ FIVE YEAR GUARANTEE TO ORIGINAL OWNER

Musical Fidelity Ltd. 15/16 Olympic Trading Estate, Fulton Rd, Wembley HA9 OTF ☎ (0181) 900 2866

### THE LAB REPORT

urking within the bowels of this unique machine is the very same 24bit/96kHzcompatible DAC now used in many commercial DVD players. This does not mean the X-RAY will handle DVD discs, nor does it promise a 24-bit dynamic range, as the latter simply refers to the maximum digital 'wordlength' acceptable to the chip. In practice, the X-RAY's 106.4dB does better the S/N of Arcam's '24-bit' player by a good 10dB, though since there's no useable musical information beyond CD's 96dB specifi-

O The X-RAY is low on jitter.



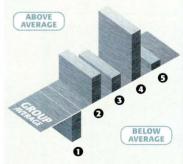
cation, the whole issue is rather academic. Key performance indicators include the fabulously low 145psec jitter, minimal +0.1/-0.3dB errors in low-level linearity

and distortion which holds to within 0.0008-0.0025 per cent right across the audioband at peak output. At the musically important - 30dBFs, this increases to a mere 0.0016-0.009 per cent. Incidentally, the player's peak output level is a smidgen high at 2.26V but the low 49 Ohm source impedance should drive most amp/interconnect combinations with ease. MF's proprietary analogue filter also makes a good job of further suppressing the ultrasonic requantisation noise ejected by Burr-Brown's DAC. All of which can only enhance the broad compatibility of the X-RAY with different systems.

### **HOW IT COMPARES**

**B**y not only maintaining low levels of distortion, but also levels that remain consistent with frequency, the X-RAY has one very important potential source of audible coloration under tight control.

1 SUPPRESSION OF DIGITAL IMAGE	-35%
2) JITTER	35%
3 PRACTICAL DYNAMIC RANGE	20%
4 HARMONIC DISTORTION VS LEVEL	65%
5 LINEARITY	10%



<b>SPECIFICATIONS</b>
CLAIMED

CLAIMED	MEASURED	
Not quoted	0.0008%	
2.2V	2.26V	
105dB	106dB	
	Not quoted 2.2V	

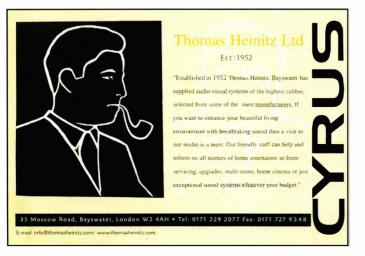




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file names in the world of compact disc, its technology (in particular for CD mechanisms) is held in high esteem within the industry and by cognoscenti alike. The VRDS-8 is a new slimline model equipped with Teac's CMK-4.5 VRDS (Vibration-free Rigid Disc-clamping System) mechanism, in which the disc is supported around its periphery, and the centre slightly dished, to impose a rigid, non-resonant structure while the disc is being played. The prospective buyer, however, is more likely to be drawn to the heavyweight build, the superb control feel and the solid alloy billet front panel. This, together with other constructional details, gives the player an impression of quality and overkill comparable to esoteric designs costing a great deal more than £600.

The VRDS-8's control system is elegant, but may look unfamiliar at first. The usual track-skip keys are ditched in favour of a rotary, and an output volume control (it defaults to full output at power up), plus a switch to control the oversampling. In essence this is eight times the

...the prospective buyer is likely to be drawn to the heavyweight build, the superb control feel and the solid alloy front panel...

sampling frequency, but a divider circuit gives an effect similar to 16-times and 24-times (labelled 'Sin') oversampling). There's even a digital filter 'mode' switch which allows the user to select a sharp attenuation above 20kHz, or a gentler rolloff above 19kHz (on paper, and in practice the gap between these two is not huge). It also has index search, fade in/out as part of a suite of CD dubbing features, and a display-off switch.

### SOUND QUALITY

In common with the Sony CDP-XB720E, each of the variables was auditioned in the panel tests as though it was a separate CD player, but in contrast to the Sony the results were much less equivocal, at least in marking down the 'straight' eight-times oversampling option. This setting resulted in a very low score from the panel, which held the overall score down. Leaving this option aside, the Teac scored a more satisfactory average, which was higher than for either of the other players above £500 in this test.

The eight-times oversampling setting impressed the panel as sounding "lean" and "tight and bright". Switching to 16-times oversampling was heard as a "great improvement", and the Sin setting was described as "more open and spacious" than the other settings, with particular praise for its dynamics. "The overall balance is as near perfect as they come," was one enthusiastic comment. These settings were made with the standard setting of the digital filter, which sharply attenuates output above 20kHz. The so-called 'wide' setting, which attenuates more slowly starting a little below 20kHz, was felt to be more relaxed and easier to follow, mirroring the hands-on test results, though mild treble loss was identified by some. "There's a lack of sparkle with cymbals," was a typical comment.

• The new slimline VRDS-8 is superbly built and has switchable digital filtering.

### CONCLUSION

The physical build of this machine is exceptional, and it is hard to know how they make it for the price. Musically, too, it has its plus points, not least the ability to change to suit different musical conditions, but it failed to equal some of the less costly machinery in this test



- The Teac looks and feels every penny of its asking price, and has the advantage that it can be tweaked to suit the musical programme, though this is not quite enough to make it stand out from the crowd.
- ONE YEAR GUARANTEE
- ☑ Teac UK Ltd, The Croxley Centre, Watford, Herts WD1 8YA
- **2** (01923) 819630

### THE LAB REPORT

Whith its use of both NPC SM5843AP and Analogue Devices AD1893JN oversampling filters, its banks of shift registers and pairs of Burr-Brown PCM1702 DACs per channel, the VRDS-8 is rather like two players in one box! And yet, Teac's selectable filter options do not exert the dramatic influence of Sony's, for example. Importantly, the response remains flat and stopband images very well suppressed with its eight-times and 16-times options. However, jitter does decrease from 413psec (eight-times oversampling) to 347psec (16-

O Two players for the price of one?

TEAC

times oversampling) — with standard filter roll-off — where a mixture of power supply-related and mid-frequency patterns dominate the spectrum.

Teac's digital volume attenuator offers precise control over the top 42dB of its dynamic range but a single, odd-order harmonic spoils what might otherwise have been a spectacularly low midband THD performance. As it stands, some 0.011 per cent (re. –30dBFs) is merely 'very good'! Errors in low-level linearity are also minimal but, in common with previous Teac players, the source impedance of the final analogue stage remains too high at

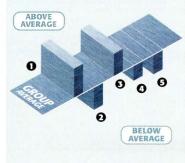
1.2kOhms. Some amplifier/cable dependency might be experienced.

### HOW IT COMPARES

Although Teac's use of a high-quality 20-bit DAC achieves a wide 110dB S/N ratio, the equally high +10dB of noise modulation does limit any practical advantage in the player's dynamic range.

1 SUPPRESSION OF DIGITAL IMAGE	
2) JITTER	-30%
3 PRACTICAL DYNAMIC RANGE	30%
4 HARMONIC DISTORTION VS LEVEL	-20%

5 LINEARITY



### SPECIFICATIONS

SFECII ICATIONS			
SPECIFICATION	CLAIMED	MEASURED	
■ Distortion @ 1kHz/0dBFs	0.0015%	0.0016%	
■ Maximum output level	2.2V	2.26V	
■ A-wtd S/N ratio	110dB	110dB	

# **PLAYERS** NCLUSION

### THE BEST IN THE TEST





### O ROTEL RCD-971

The RCD-971 was the star of the show. It has a highly individualistic character, with a rare combination of analysis, a solid soundstage and real, deep-down subtlety. HDCD compatibility adds to its repertoire of skills. The only problem was a rather peculiar and obstructive control logic (probably an in-house programming job, and confirmed with a second sample) and DJs are recommended to look elsewhere. This is the only significant failing of a particularly fine and competitively priced player.



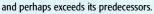
### **DENON** DCD-835

The DCD-835 is a thoroughly likeable player, with strong resolving power and a large measure of transparency. If Denon sorted out the measured distortion disparity between channels then the DCD-835 would presumably be better still, but the problem was not severe enough to impact significantly on sound quality.



### **3 PIONEER PD-S707**

The PD-S707 is all but indistinguishable from more than one of its predecessors. The digital hardware has changed, though, with a new, highly-integrated combination of Pioneer's early Legato Link filter with a Burr-Brown DAC. Musically, the PD-S707 easily matches,





### O SONY CDP-XB720E

This player has a variable coefficient digital filter that can be switched between four patterns. It can be thought of like tone controls, but the influence on sound quality is more fundamental. This is the cheap-

est model tested, and is capable of surprisingly mature sound quality, filter 2 and the standard filter setting being perhaps the most useful.



or once, the story of this I test is technology related. Clearly the hottest story of all is Arcam's long-awaited dCS Ring DAC, a new digital converter topology that marries the best of Bitstream and multibit, while minimising their disadvantages. It won't have escaped your notice that the one player to feature this technology, the Arcam Alpha 9, was not a resounding success on audition, and indeed was pipped at the post by a number of the cheaper models. However, the test sample was an early one, and it seems probable that the Ring DAC has an important future — not just for compact disc. This test also confirmed the resurgence of interest in multi-bit technologies, following a period

In the end, however, a clear ranking order emerged that pays no respect to the sophistication of the technology on offer, or the prices being charged. After a long period of relatively static designs, things are moving forward on more than one front. Jitter has become a major design priority (especially with one-bit players where high-speed oversampling magnifies the effect of the small uncertainties in signal timing that are known as jitter). This is in no small part due to HFC's own Paul Miller, whose jitter analysis equipment is now used as an R&D and production test tool by a number of manufacturers. UK and abroad. Other prominent technologies

PLAYER COMPARISON

MAKE	ARCAM	DENON	MARANTZ	MUSICAL FIDELITY	MYRYAD	PARASOUND
MODEL	ALPHA 9	DCD-835	S5 CD-67IIOSE	X-RAY	T-10	C/DP-1000
PRICE	£799.90	£279.99	£299.90	£800.00	£399.95	£499.99
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	5 years	3 years	2 years
SIZE (WXHXD) IN MM	430x85x290	434x105x288	435x87x312	230x110x320	436x94x286	483x83x254
WEIGHT	4.1kg	5.3kg	5.8kg	8kg	5kg	7.8kg
CLAIMED DISTORTION @ 1KHZ/0DBFS	<0.01%	0.005%	0.0025%	_	0.003%	0.002%
ACTUAL DISTORTION @ 1KHZ/0DBFS	0.009%	0.0006%	0.0008%	0.0008%	0.0006%	0.0025%
CLAIMED MAXIMUM OUTPUT LEVEL	2.3V	2.0V	2.0V	2.2V	2.5V	2V
ACTUAL MAXIMUM OUTPUT LEVEL	2.36V	2.24V	2.30V	2.26V	2.61V	2.01V
CLAIMED A-WTD S/N RATIO	100dB	90dB	100dB	105dB	100dB	110dB
ACTUAL A-WTD S/N RATIO	96dB	105dB	104dB	106dB	100dB	99dB

include the use of switchable coefficient digital filters. By far the least expensive model in the entire test, the Sony CDP-XB720E includes such a filter. Switchable filters have been criticised by some on the grounds that they imply that the maker can't make up his own mind about how the player should sound, and is taking the easy route by handing over responsibility to the user. The reality is that no one particular filter characteristic is ideal, and this approach has the benefit that it provides freedom of choice. At the far end of the price band, Teac's VRDS-8 also provides a simple form of switchable filter, along with switchable oversampling rates.

Other technical features are making less headway. CD Text for example is found on the Sony CDP-XB720E, and you'll find it on most Kenwood players, but there is no sign as yet that it is being taken up by the record industry as a whole. In fact, there is no reason why such a feature could not have been included when compact disc was first launched. The examples seen here provide, perhaps, a case of too little, too late.

### 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*.



### **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.



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### **HOW TO BUY HI-FI**



Our Recommended and Best Buy swing-tags are a great way to begin your hi-fi shop-

ping list. However, at *Hi-Fi Choice* we believe firmly that only individual listeners can decide which hi-fi gear to buy. There is only one golden rule of buying hi-fi: hear it for yourself. And for this you need the services of a good local hi-fi dealer. (See page 102 for the *HFC* dealer guide, to find your nearest hi-fi specialist.) If you are upgrading an existing system, you must hear any

ehind *Hi-Fi Choice's* unique bargraphs are some of the most

anywhere on the planet. They are pro-

measurement hardware and his own,

Instrument software. Each bar-graph

vided by our Technical Editor, Paul

Miller, using both GPIB-controlled

award-winning, PC-based Virtual

age for that particular category.

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proposed new component with gear you use already. Either take your kit to the dealer, or arrange a home trial which most decent retailers will arrange. Listen for as long as possible (a weekend is ideal) because initial impressions can be misleading. Hi-fi you find exciting and zingy 'on the shelf', may well sound unbearably bright in time. If you find dealers you can trust, rely on their recommendations, even if they're not totally in line with ours. Hi-fi is part science, part art!

### **UNDERSTANDING OUR BAR-GRAPH MEASUREMENTS**

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.

3 PRACTICAL DYNAMIC RANGE:

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

### **O** HARMONIC 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.

**SLINEARITY:** 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.

### **RIVAL BUYS**

◆ CAMBRIDGE AUDIO CD4SE £200 Among the best encountered at the price, considerably more refined and convincing than its CD4 predecessor.



• CAMBRIDGE AUDIO CD6 £250 A sharp, articulate player, a real thoroughbred in fact, but perhaps too sharp and lively for some systems.

ARCAM Alpha 8SE £600 Another excellent mid-price model, and perhaps a safer choice than the Alpha 9 at present.

MARANTZ CD-17 £800
Rather more expensive, but one of
Marantz's better designs, and a viable
alternative for anyone looking at one
of the Group C models in this test.

**S KENWOOD** DP-4090 £250 Focuses a clear, wide aperture lens on the music − and has CD text too!



O SONY CDP-X3000ES

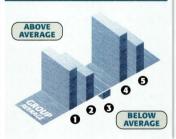
The first Sony player to employ variable coefficient digital filters, and the model that inspired the Sony CDP-X8720E. The CDP-X3000ES looks a million dollars.

▼ TEAC CDP-3450SE £200 For once a budget player where gadgets take second place to respectable, budget amp-friendly sonics.

### of several key measurements and is displayed relative to a notional zero per cent which represents the group aver-

**THE BAR-GRAPHS** 

value is derived from a weighted statistic



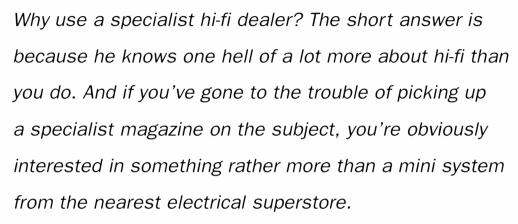
### CD PLAYER COMPARISON TABLE

MAKE	PIONEER	ROTEL	SONY	TEAC	YAMAHA
MODEL	PD-S707 🥍	RCD-971 🔏	CDP-XB720E	VRDS-8	CDX-993
PRICE	£300.00	£349.95	£199.99	£599.95	£399.95
SOUND	00000	00000	00000	00000	00000
BUILD	00000	00000	00000	00000	00000
VALUE	00000	00000	00000	00000	00000
GUARANTEE	1 year	2 years	1 year	1 year	2 years
SIZE (WXHXD)	420x128x374	440x72x315	430x115x290	442x100x336	435x117x388
WEIGHT	7.2kg	5.4kg	4.8kg	9kg	9.6kg
CLAIMED DISTORTION @ 1KHZ/0DBFS	0.0023%	0.0035%	0.0035%	0.0015%	0.002%
ACTUAL DISTORTION @ 1KHZ/0DBFS	0.001%	0.0045%	0.0016%	0.0016%	0.0005%
CLAIMED MAXIMUM OUTPUT LEVEL		1.0V	2.0V	2.2V	2.0V
ACTUAL MAXIMUM OUTPUT LEVEL	2.40V	2.37V	2.46V	2.26V	2.34V
CLAIMED A-WTD S/N RATIO	110dB	107dB	102dB	110dB	118dB
ACTUAL A-WTD S/N RATIO	107dB	107dB	103dB	110dB	103dB



# Five Stars

Paul Messenger explains why you should visit an independent



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

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

### **Power of the Press**

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

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

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

The hi-fi reviewer attempts, with varying

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

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

### The Role of the Dealer

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

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

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



# 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.

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### STAR QUALITIES

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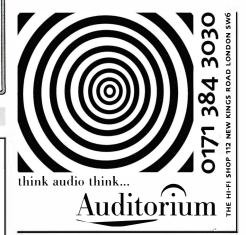
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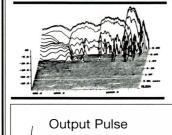
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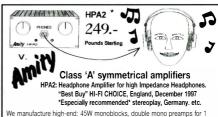
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- Avondale PSU HICAP replacement. 2 discrete circuits with transformers, purchased Aug '97. Not in use. (£360) £125. (01952) 249627.
- Electrocompaniet ECI2 integrated amp £525. Triangle Zephyr 2 speakers £425. Sequence 300s £100. Sequence 200 speakers £75. Croydon (0181) 654 9850.
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Buying secondhand can be a great way to pick up a

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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.



**STICE 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!

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## AMPLIFIERS INTEGRATED

G - Number of line-level inputs. '20W'- Rated RMS output power per channel into nominal load of 8 Ohms.

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Akai AM1100	0	50W	230
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Ariston AX910	0	30W	100
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Denon PMA-425R Denon PMA-100M	6	45W	230 240
Goodmans Delta 900A	6	W08	130
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H/K HK620	0	40W	250
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JVC AX-A372BK	0	40W	200
JVC AX-R5BK	6	45W	200
Kenwood KA-1080	0	60W	140
Kenwood KA-3080R	o	70W	170
Kenwood KA-3020SE	6	50W	200
Marantz PM-47	0	40W	150
Marantz PM-57	0	50W	200
Marantz SR-47	0	40W	200
Marantz PM-66SE	0	50W	230
Musical Fidelity E1	0	30W	199
NAD 310	0	20W	100
NAD 312	0	25W	200
Pioneer A-105	0	30W	130
Pioneer A-204R	0	25W	160
Pioneer A-300R	0	50W	200
Pioneer A-305R	0	50W	200
Pioneer A-405R	0	45W	250 229
Rega Brio Rotel RA921	0	30W	100
Rotel RA-931	0	20W	150
Rotel RA971	6	35W	200
Sansui AUX-410R	0	70W 50W	150
Sansui AUX-510R	0	70W	230
Sherwood AX 4050R	6	50W	150
Sherwood AX-7030R	6	95W	250
Sony TA-FE210	6	45W	130
Sony TA-FE310R	0	45W	150
Sony TA-F248E	0	40W	200
Sony TA-F448EB	0	55W	250
TEAC A-R300	0	45W	200
TEAC A-R500	0	90W	250
Technics SU-V300	0	25W	150
Technics SU-V500	0	30W	180
Technics SU-A600 Mk3	0	37W	200
Technics SU-V620	0	70W	230
Technics SU-A700 Mk3	0	45W	250
Yamaha AX-392	0	60W	170
Yamaha AX-9	0	50W	200
Yamaha AX-492	0	85W	220
£251 TO £500	1937		

£251 TO £500			
Alchemist Maxim	6	30W	350
AMC CVT 3030A	<b>3</b>	30W	400
Arcam Alpha 7	6	40W	260
Arcam Alpha 8	6	50W	360
Arcam Alpha 9	0	70W	500
Audio Analogue Puccini	6	40W	450
Audiogram MB1	0	40W	493
Aura VA-100 II	6	70W	350
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Cymbol CA1	0	40W	499
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Kenwood KA-7090R	0	85W	400
Magnum IA120	<b>3</b>	65W	265
Magnum IA170	<b>3</b>	96W	330
Magnum IA170SE	0	90W	430

Marantz PM-68	0	90W	300
Marantz PM-66 KI Sig.	6	50W	400
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NAD 317	<b>3</b>	80W	470
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Pioneer A-300R Precision	6	35W	400
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Rega Mira	0	60W	450
Shearne 2.5	0	35W	489
Sony TA-FA3ES	0	70W	400
Sony TA-F3000ES	6	35W	500
Talk Electronics Storm 1	<b>3</b>	50W	500
TEAC A-H500	0	50W	280
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Audio Note First integrated		40W	69
Audiogram MB2	0	60W	59
CR Dev Kalypso	0	15W	59
CR Dev CR325	6	175W	69
Creek 5250R	0	50W	57
Creek 5250SER	Ö	60W	66
Densen Beat B-100 Mkll	6	60W	65
DPA Renaissance int	6	40W	59
Exposure XX Super	0	55W	70
Fase Evoluzione Performance 2.0	0	40W	57
Gamma Gemini	0	12W	69
H/K HK660	0	65W	70
Hi Q Sound MCI	0	30W	56
JoLida 202	0	40W	69
LFD Integrated 0	0	50W	54
Linn Majik (Line)	0	33W	65
Lynwood Opal		80W	68
Magnum IA200	0	100W	59
Magnum Class A	<b>3</b>	85W	69
Mission Cyrus Illi	0	50W	59
Musical Fidelity A220	0	50W	70
Myryad MI 120	0	60W	60
Naim Nait 3	0	30W	57
Orelle SA-100RX	0	75W	64
Prime Design A-100	0	100W	650
Quad 77 Integrated	0	85W	70
Roksan Caspian	0	70W	69
Rose Scion	6	65W	61!
Shearne Phase 2	0	50W	64
Stemfoort SF60	0	60W	54
Talk Electronics Storm 2	0	50W	65
TEAC A-BX7R	6	50W	70
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Alchemist Forseti Integrated	0	100W	1,000
Audio Note Oto Line PP		12W	950
AVI S2000MI	6	100W	999
Copland CSA8	6	60W	945
Credo IMP702	0	70W	850
Credo IMP703		70W	1,000
Electrocompaniet ECI-2	0	50W	995
Exposure XV Super		55W	800
Fase Evoluzione Performance 1.1	0	70W	790
Fase Evoluzione Performance 1.0	0	60W	790
Golden Tube Audio SI-50	0	50W	1,000
H/K HK680	0	85W	1,000
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Rega Elicit	0	70W	730
Shearne Phase 2 Reference	0	50W	799
Sonneteer Alabaster	0	50W	900
Stemfoort SF100	0	100W	849
TAG McLaren 60i	0	72W	799
TAG McLaren 60iRV	0	72W	999
TEAC AB-X10	0	100W	1,000

1,984 1,200

150W

20W

£701 TO £1000

Art Audio Integra

Audio Note Soro Line PP

ATC SIA2-150

Audio Note Oto Phono SE	0	12W	1,500	Naim NAC92	0		470	Meridian 562			765	Jadis DPL	•	3,19
Audio Note Soro Line SE	Ŭ	18W	1,699	Parasound P/HP-100		Ph	130	Meridian 562V			995	Jadis DPMC		Ph 3,19
Beam-Echo SA-50	0	50W	1,950	Parasound P/HP-850		Ph	400	Meridian 502	0		1,295 730	Jadis JPL Jadis JPP200	•	4,77
Bow Technologies Wazoo Bryston B-60	<b>3</b>	50W 60W	1,795 1,249	Rega EOS Rega Cursa		Ph Ph	398 450	Michell Argo Michi RHC-10	0		795	Jadis JP30MC	0	Ph 5,9
Copland CSA14	6	70W	1,199	Roksan Artaxerxes 10		Ph	395	Michi RHQ-10		Ph	1,150	Jadis JPS2	0	7,90
Copland CSA28	0		1,299	Rose RV-23	0	Ph	450	Michi RHA-10			1,150	Jadis JP80MC		Ph 11,98
Copland CTA401	0	25W	1,699	Rotel RQ970BX		Ph	130	Micromega Tempo P	0		1,250	Krell KRC3 Krell KRC-HR	0	3,25 6,9
CR Dev Romulus V3 CR Dev Remus V3	0	35W	1,198 1,989	Rotel RC971 Rotel RC972	0		150 225	Mission Cyrus Pre Monrio Pluri-L II	6	Ph	648 900	LFD Disc Preamp	0	Ph 4,49
Credo LIM 702	0	60W	1,191	Talk Electronics Hurricane 1	0		500	Muse Model 3	6		1.990	Mark Levinson 25S		Ph 2,9
Credo LIM 703			1,249	Technics SU-C1000 Mk2		Ph	300	Musical Fidelity F25		Ph	1,500	Mark Levinson 380	0	3,99
EAR 834	0	40W	1,999	Trilogy 905			375	NAD 118			1,000	Mark Levinson 380S	0	6,4
Graaf Venticinque	0	20W	1,695	Trilogy 904		Ph	375	Naim NAC92R	0		630	Matisse Fantasy	0	2,50
LFD Integrated 1 Meracus Intrare	0	65W	1,099 1,095	Trilogy 900 Unison Simply Phono		Ph	499 500	Naim NAC72 Naim NAC102	6		725 1,050	Matisse Reference McIntosh C22		Ph 3,50 Ph 2,99
Primare A301	0	60W 80W	1,699	Onison simply Phono		Ph	300	Quad 77 Pre		Ph	850	McIntosh C40		Ph 4,99
Rogers E-20a	0	20W	1,229	£501 TO £2000				Rega Hal		Ph	998	McIntosh C39		Ph 5,9
Rogers E-40a	0	40W	1,900					Roksan ROK-L2.5	0		1,250	Meracus Pretare		Ph 2,1
Sonic Frontiers Anthem Integrated	0	25W	1,299	Adyton Chorus			1,995	Rose RV-23S		Ph	525	Naim NAC82 Naim NAC52	0	2,10
T+A PA1200 T+A R1200R	0	90W 90W	1,350 1,495	Alchemist Kraken Pre Alchemist Forseti Pre	<b>6</b>		550 950	Rotel RC995 Shearne Phase 6 Pre	6		525 899	Roksan ROK-L1.5	0	2,2
T+A PA1500	0	135W	1,650	Art Audio Headline	0		700	Shearne Phase 1 Pre Ref	0		1,399	Rowland Synergy	6	4,9
T+A R1500R	0	135W	1,895	Art Audio VPL			741	Siemel MC20		Ph	650	Rowland Coherence	0	14,9
Unison Simply Two	0	12W	1,100	Art Audio Conductor Phono			750	Siemel MM20		Ph	650	Sonic Frontiers Line 1		2,4
Unison Simply Four P	0	24W	1,600	Art Audio VP1			952	Siemel TU10	0		1,599	Sonic Frontiers Line 2 Sonic Frontiers Line 3		3,2 4,9
Unison Pentode 35 Unison Simply Four T	0	35W	1,650 1,650	Art Audio Conductor Art Audio Conductor Export	0		1,250 2,000	Siemel TR20 Sonic Frontiers Anthem Pre 1P	0	Ph	1,599 899	T+A Pre DA3000		2,8
Woodside ISA230 Line	6	11W 30W	1,099	Audio Note M1 Line			550	Sonic Frontiers Phono 1		Ph	1,999	Tesserac TAP-A	0	5,3
Woodside ISA230 Disc	0	30W	1,249	Audio Note M1 RIAA		Ph	550	Sonographe SC26	0		995	Trilogy 918	Ö	2,7
YBA Integre DT	0		1,650	Audio Note M2 Line			999	Sumo Athena II Line	0		767	Unison Dream	0	Ph 11,9
				Audio Note Discovery		13.5	999	Sumo Athena IIB/II LS			987	Woodside SC26 Line & Phono		Ph 2,2
OVER £2000		wiers	T. 10	Audio Note M2RIAA		Ph	1,099	Sumo Artemis up	0		987	YBA 1	•	3,5
Adutan Opera		5014	2 505	Audio Research LS7 Audio Research LS3	0		1,750 1,997	Sumo Artemis uP T+A P1200R	0		1,595 890	DOWED AND		
Adyton Opera Audio Note Meishu Line	0	50W 9W	2,595 2,750	Audio Research LS3 Audio Synthesis Pro Passion	0		595	TAG McLaren PA10	6	Ph	849	POWER AMPS		
Audio Note Ongaku	0		56.000	Audio Synthesis Passion	8		695	TAG McLaren PA20R	<b>3</b>		1499	KEY		
Audio Research CA50	6	2000	3,990	Audio Synthesis Passion 8S	0		1,295	TAG McLaren PPA20		Ph	1499	'20W' – Rated RMS out	put pow	ver per
Cary CAD-300SEI	0	11W	3,995	Audio Synthesis Passion 8M	0		1,695	Talk Electronics Hurricane 2	0		650	channel into nominal le		
Conrad-Johnson CAV-50	0	50W	2,495	Aura CA-200		Ph	700	Talk Electronics Hurricane 3	0		900	-channel into nominal i	au VI 8	OHIIIS.
EAR V20	0	24W	2,495	AVI S2000MP AVI S2000MP+P	0	Ph	949	Talk Electronics Hurricane 4 Talk Electronics Hurricane 5	0		1,550 1,900	UP TO £500	George St.	
EAR 859 Electrocompaniet ECI-1	0	13W	2,499 2,195	Beam-Echo SP-21		Ph Ph	1,116	Technics SU-C2000	0	Ph	700			100
Gamma Rhythm Ref	0	100W 20W	3,499	Bryston .4	6	Pn	642	Tesserac TAADA	6	F"	1,500	Arcam Alpha 8P	50W	2
Gamma Moment	0	40W	19,999	Bryston BP5		Ph	889	Tesserac TALA	6		1,500	Arcam Alpha 9P	70W	4
Jadis DA30	•	30W	3,490	Bryston BP20			1,126	Tesserac TAHA	0		1,800	Arcam Delta 290P	75W	4
ladis DA60	0	60W	5,750	Bryston BP-25			1,326	Thorens TTP-2000F	0	Ph	699	Creek A43	50W	3
Krell KAV300ı	6	150W	2,550	Cary SLP-50	0		995	Trilogy 901	0		750	Creek A52	70W	4
Lavardin IT	7	40W	3,000	Cary SLP-74	0		1,795	Trilogy 906		Ph	995	Crimson CS620C	50W	4
McIntosh MA6400E	0	100W	3,999	Cary PH-301		Ph	1,795	Trilogy 902	0		1,595	Earmax Headphone Earmax Headphone Pro	0.1W	3
McIntosh MA6800E Meracus Onesta	_	150W	5,999 2,595	Chord CPA 1800 Concordant Exhilerant	0		1,774 900	Tron Retro Tron Nucleus Phono	0	Ph	2,000	LFD Mistral Power	0.1W 60W	4
Musical Fidelity A1001	0	75W 200W	2,500	Concordant Exquisite			1,950	Tron Nucleus	0	-"	2,000	LFD PAO Powerstage	50W	4
Pioneer A-09	0	45W	4,000	Conrad-Johnson PV-10AL	0		995	Tube Tech Seer Line	0		935	Magnum MF120	85W	3
Rowland Concentra	0	100W	5,500	Conrad-Johnson PV-10A		Ph	1,295	Tube Tech Mac Phono		Ph	1,150	Marantz MA-500	125W	2
Tube Tech Unisis Sig. Int.		30W	2,300	Conrad-Johnson PV-12AL	0		1,990	Tube Tech Prophet	0		1,970	Marantz MA-700	200W	4
Tube Tech Synergy PPS	0	150W	6,900	Conrad-Johnson EF-1		Ph	1,990	Unison Feather One	0		795	Mission Cyrus XPA	50W	2
Unison Simply 845 Unison Performance One	0	24W	3,195 4,500	Conrad-Johnson PF-2 Copland CSA303		Ph Ph	1,990	Unison Mystery Two Unison Mystery One	6		1,750 1,750	Mission Cyrus Power Moth 30 Series Power	50W 30W	2
Unison 845 Absolute	6	25W 40W	11,995	Copland CTA301 Mkll		Ph	1,399	Unison VPP One		Ph	1,995	Moth 30 Mono/40	40W	4
onison o is ribsolate	•	4000	,555	CR Dev Carmenta	0		659	Van Den Hul Pre-amp	0		1,700	Musical Fidelity X-CANS	0.1W	1
PREAMPS				CR Dev Argento		Ph	699	Wilson Benesch Stage One		Ph	995	Musical Fidelity E30	100W	5
KEY		HANN Z	72.5	Credo CMP004			1,246	Woodside SC27 Line	0		949	Musical Fidelity X-A50	50W	
				Credo CMP005			1,876	Woodside SC26 Line			1,557	Myryad MA 120 NAD 912	60W	4
<b>⊙</b> (etc) – Number of line-	leve	l input	S.	Densen DM-20 DNM 3 Start	<b>3</b>	Ph	1,200	XTC PRE-1 Yamaha CX-2	6	Ph	1,250 650	NAD 912 NAD 214	30W 80 W	
Ph - Phono input fitted	as st	andaro	1	DNM 3A Start		Pn Ph	1,650	YBA 3	0	Pn	1,199	NAD 216THX	125W	
(may be an option on some of	ther i	models)		DPA Enlightenment pre	•		795	YBA Integre	0		1,199	Naim NAP90/3	30W	
		11/	*****	DPA DSP500S			2,000	YBA 2	Ö		1,999	Parasound HCA-750A	75W	4
UP TO £500			e (reilg	Dynavector L200	0		1,195	Resident Statement Stateme				Rega Maia	85W	
				Dynavector P100		Ph	1,495	OVER £2000				Rotel RB971	70W	
Art Audio Minuet			499	Dynavector L100	0		1,995	Aduton Tomper			2,495	Rotel RB981 Rotel RB991	130W	
Audio Analogue Bellini Audio Note The M	0	Ph	475 350	Earmax Pre ECA Vista S	6		1,895 760	Adyton Temper Adyton Modus	0		2,495	Shearne 3.5	200W 35W	
Beam-Echo PP-21		Ph	499	ECA Vista HD	6		880	Alchemist The Alchemist pre	0		4,995	Talk Electronics Tornado 1	50W	
Bryston BP1	0	Ph	438	ECA Prisma		Ph	880	ATC SCA2			2,499	Technics SE-A1000 Mk2	70W	
Carver CT-24	0	Ph	499	Electrocompaniet EC-4.5			1,195	Audio Note M3Line			2,650			ESSENTATION.
CR Dev Themis		Ph	349	Electrocompaniet EC-4R	0		1,495	Audio Research LS15	0		3,399	£501 TO £2000		
Creek P43	0		399	Electrocompaniet EC-4.6	0		1,750	Audio Research LS22	0		4,391	Alchemist Kraken pwr	COLAN	
Creek P52 Crimson CS610C	0	DI	499 450	Exposure XIX Exposure XVII	6	DL	800 850	Audio Research LS5 MkIII Audio Research REF 1	6		6,435 9,900	Alchemist Kraken pwr Alchemist Forseti Pwr	60W 150W	1,
Crimson CS610C EAR 834P	0	Ph Ph	450 349	Fase Evoluzione Controlsource 2.0		Ph Ph	625	Boulder L3AE	9		2,100	Art Audio Quintet	150W	1,
EAR 834L	0	-11	449	Fase Evoluzione Controlsource 1.0			1,395	Boulder L5AE	9		3,400	Art Audio Quintet SE MB	-W	1,5
Electrocompaniet ECP-1	_	Ph	495	Golden Tube Audio SEP-1	0		990	Boulder L5M			3,800	Art Audio Concerto	50W	1,6
Fase Evoluzione Phonodrive 1.0		Ph	445	Graaf WFB Two	0	Ph	1,195	Boulder 2010	0		19,995	Audio Analogue Donizetti	60W	7
Henley HMC50			200	Graaf WFB One	0	Ph	1,725	Cary SLP-98L	6		2,595	Audio Note The P Audio Note P0	40W	
Henley HMC100			450	Henley HMC200 Heybrook Signature II Pre	6		750 555	Chord CPA 2200 Chord CPA 2800	6	Ph	2,355 3,246	Audio Note P0 Audio Note P1	9W 12W	
Hi Q Sound LCP2 LFD Mistral Linestage	6		149 449	Heydrook Signature II Pre Hi Q Sound MCB2	0	Ph	545	Chord CPA 2800 Chord CPA 3200	0	rn .	3,320	Audio Note P1SE	12W	
LFD LSO Linestage	6		499	Hi Q Sound MCL2	0		645	Chord CPA 4000	0		6,210	Audio Note P2	20W	1,
Lumley PP70	0		345	Jadis DPL2	0		1,790	Conrad-Johnson PF-R	0		2,490	Audio Note P2SE	18W	1,
Lumley PP1	0		345	LFD MC1 Phonostage		Ph	949	Conrad-Johnson PV-12A	0	Ph	2,590	Audio Note Conqueror	W8	1,
Magnum MP120	0		330	LFD LS1 Linestage	0	<b>.</b>	999	Conrad Johnson Premier 15		Ph	3,995	Aura PA-100 Aura PA-200	100W	1,
Magnum MP660 Magnum MP330	0		500 500	LFD MC2 Phonostage LFD LS2 Linestage		Ph	1,499	Conrad-Johnson Premier 14 Conrad-Johnson Art	6		4,495 14,995	Aura PA-200 C	110W 100W	1,
Magnum MP330 Monrio ADN-N	0	Ph	295	LFD LSZ Linestage	6		1,599	CAT SL1 Sig. Mk3		Ph	6,500	AVI S2000MM	150W	1,
Monrio Adiv-IV	0	-n	500	Linn Wakonda	6		750	CR Dev Kastor	0	• ••	2,995	Bryston 2B-LP	75W	
Moth 30 Passive	0		149	Linn Linto	9		850	Credo LPR 001	9		2,815	Bryston 3B-ST PRO	150W	1,
Moth 30 RIAA		Ph	249	Linn Kairn	0		1,400	DNM 3C Primus		Ph	2,550	Bryston 3B-ST	150W	1,
	0		349	Lumley LV1.5	0		895	DNM 3C Twin	0	Ph	3,800	Bryston THX3B	150W	1,
	0		120	Lumley LV1	0		1,150	DNM 3C Six		Ph	5,050	Bryston 7B-ST PRO	500W	1,
Musical Fidelity X10-D		Ph	130	Lumley PV1.5		Ph	1,700	EAR 802MC EAR G88	0	Ph	2,599	Bryston 4B-ST PRO Bryston 7B-ST	300W	1,
Musical Fidelity X10-D Musical Fidelity X-LP	100					Ph	1,700	LAK USS	0	Ph	9,999	L DOVSTON AUG-31	500W	1,
Moth 30 Active Musical Fidelity X10-D Musical Fidelity X-LP Musical Fidelity X-PRE Musical Fidelity X-PRE	0		200	Lumley PV1		rıı								1.0
Musical Fidelity X10-D Musical Fidelity X-LP Musical Fidelity X-PRE Musical Fidelity E20	0	Ph	400	Matisse Atom	0		1,000	EAR P52	0	Ph	15,999	Bryston THX4B	300W	
Musical Fidelity X10-D Musical Fidelity X-LP Musical Fidelity X-PRE					0	Ph			0					1,8 1,8



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### POWER AMPS (CONTINUED)

POWER AMPS (CO	ИТИ	UED)
Chord SPM 400	100W	1,325
Chord SPM 600	130W	1,720
Conrad-Johnson MV-55	50W	1,995
Copland CTA501 CR Dev Amphion	30W 12W	1,750 1,949
Credo PMP 804	1244	1,876
Creek A52SE	80W	599
Crimson CS630C	100W	800
Densen DM-30 DNM PA Start	100W	1,200
DNM PA1 Start	45W 45W	1,650
DPA Enlightenment pwr	100W	995
Earmax Power	25W	1,895
ECA Lectern S ECA Lectern HD	50W 50W	880 1,480
Electrocompaniet AW60B	60W	1,095
Exposure XVIII Super	70W	850
Fase Evoluzione Powersource 2.0 Fase Evoluzione Powersource 1.0	65W	860 1,670
Golden Tube Audio SE-40	100W 40W	1,100
Golden Tube Audio SE-300B MkII	8W	1,490
Golden Tube Audio SE-100	100W	1,995
Graaf Venticinque P	25W	1,395
Heybrook Signature II Pwr Hi Q Sound MCM	120W 70W	1,045 715
Jadis DA5	40W	1,997
Lexicon 212	120W	1,850
LFD PA1 Powerstage	60W	999 1.599
LFD PA2 Powerstage LFD PA2M Powerstage	75W 90W	1,999
Linn LK100	50W	650
Linn LK240	120W	750
Linn AV5105	100W	1,200
Lynwood Ruby Magnum MF330	120W	985 685
Magnum MF660	150W 125W	825
Magnum A500SE	200W	1,485
Magnum A50SE	200W	1,595
McIntosh MC7100 Meracus Ciere	100W	1,999 1,095
Meridian 555	60W	750
Meridian 556	100W	895
Meridian 557 Meridian 505	200W	1,400 1,590
Michell Alecto Stereo	160W	1,150
Michell Alecto Mono	100W	1,989
Michi RHB-05	100W	1,100
Michi RHB-10 Micromega Amp	200W 100W	2,000 1,250
Monrio Asty P	100W	950
Monrio Cento	135W	1,495
Monrio HP-1 Moth 60 Stereo	135W	1,750 599
Moth 30 Mono/100	60W 100W	879
Muse Model 100	100W	1,490
Musical Fidelity X-A200	200W	1,000
NAD 218THX Naim NAP140	200W 45W	850 750
Naim NAP180	60W	1,060
Naim NAP135	75W	1,655
Naim NAP250 Papworth TVA50	70W	1,655 1,425
Parasound HCA-1 000A	50W 125W	600
Parasound HCA-1500A	205W	1,000
Prime Design P-150	150W	650
Quad 77 Power Quad 707	85W	600 800
Rega EXS	140W 70W	598
Rega Exon	125W	1,196
Roksan Caspian	70W	595
Roksan ROK-S1.5 Rose RP-190 (Dual Mode)	100W	1,495 550
Shearne Phase 3	75W 50W	619
Shearne Phase 3 Reference	50W	729
Shearne Phase 5 Mono	100W	1,500
Sonic Frontiers Anthem Amp 1 Sonographe SA250	40W 125W	1,299 1,195
Sonographe SA400	220W	1,695
Sumo Polaris III	164W	950
Sumo Model Five Sumo Andromeda III	60W	1,975 1,975
T+A A1200	240W 110W	845
T+A A1500	140W	1,495
TAG McLaren 60P	60W	849
TAG McLaren 100P TAG McLaren 125M	100W 145W	1,099
Talk Electronics Tornado 2	65W	600
Talk Electronics Tornado 3	100W	750
Talk Electronics Tornado 4	110W	1,100

H I - F I		P	R
Technics SE-A2000	100W		1,100
Thorens TTA-2000 Trilogy 948	30W 50W		599 1,895
Trilogy 948T	22W		1,895
Tube Tech Syrinx Tube Tech Unisis Sig. Pwr	45W 30W		1,150
Unison Power 35	35W		1,500
Woodside SA240 Woodside MA100	40W 100W		1,199
Woodside STA50 XTC POW-2	50W		1,880 1,450
Yamaha MX-2	150W 150W		750
YBA 3 stereo			1,299
OVER £2000			
Adyton Cordis 1.6 Adyton Cordis 3B	120W 280W		3,495 12,995
Alchemist The Alchemist pwr Alchemist The Alchemist mono	220W		3,995 8,995
Art Audio Tempo	55W 30W		2,499
Art Audio Quintet SE Art Audio Maestro	-W 100W		2,500 3,524
ATC SPA2-200PRO	200W		2,056
ATC SPA2-150 Audio Note P3	200W 9W		2,500
Audio Note Quest	9W		2,750
Audio Note Yubi Audio Note Conquest	18W		3,850 4,450
Audio Note Tomei	30W		8,500
Audio Note Neiro Audio Note Ankoru	7W 60W		11,360 14,500
Audio Research D130	130W		2,299
Audio Research VT60 Audio Research D300	35W 300W		2,395 4,678
Audio Research VT100 Audio Research D400 MkII	100W		4,995
Audio Research VT130 SE	400W 130W		6,850 8,500
Audio Research VT150 SE Audio Synthesis Desire Decade	150W 200W		17,000 2,495
Beam-Echo DL7-35	30W		3,525
Border Patrol 300B SE Boulder 102AE	10W 100W		3,495 2,800
Boulder 102M	100W		3,100
Boulder 500AE Boulder 500M	150W 150W		4,995 5,500
Boulder 2060	600W		19,000
Boulder 2050 Bryston THX8B	999W 150W		35,000 2,385
Cary CAD-572SE	20W		2,495 3,995
Cary CAD-300SE Cary 300SE Sig	12W 12W		4,795
Cary CAD-805 Chord SPM 800	50W		8,995 2,265
Chord SPM 1000B	160W 200W		2,785
Chord SPM 1200B Chord SPM 1200C	250W 315W		3,525 3,915
Chord SPM 1600	200W		4,718
Chord SPM 1400B mono Chord SPM 5000	380W 415W		7,830 13,544
Conrad-Johnson MF-2300A	250W		2,990
Conrad-Johnson Premier 11A Conrad-Johnson Premier 12	70W 140W		3,500 6,900
Conrad-Johnson Premier 8XS Conrad-Johnson Premier 8A	150W		17,000
CAT JL1	275W 100W		17,000 18,000
Copland CTA505 CR Dev Artemis	67W 35W		2,099 4,995
Credo LPO 804	3344		2,456
Credo PMP 155 Credo LPO 455			2,676 4,975
Credo LPO 155			6,983
DNM PA3 DNM PA3S	50W 23W		2,500 3,750
DPA DAP500S	250W		3,000
Dynavector HX75 Dynavector HX1.2	75W 130W		2,195 3,995
EAR 861 EAR 509 Mk II	32W		3,299 3,699
EAR 519	100W 100W		4,699
EAR 549 Electrocompaniet AW100DMB	200W 100W		6,499 2,095
Electrocompaniet AW120DMB	120W		2,695
Electrocompaniet AW250DMB Electrocompaniet AW180MB	250W 180W		3,995 4,595
Exposure IV	80W		2,199
Exposure XVI Gamma Aeon	125W 20W		4,000 4,999
Gamma Space Ref	18W		7,999
Gamma Aeon Ref Graaf 5050	70W 50W		49,999
Graaf GM20 Graaf GM100	60W		2,750 4,250
Graaf GM200	100W 200W		7,500
Jadis DA8 Jadis DA7	80W 100W		3,333 5,290
Jadis JA30	30W		5,980

Lexicon 501	500W		5,000
Linn Klout	80W		2,400
Lumley M125	120W		3,750
Lumley M250	250W		7,500
Magnum Class A mono	180W		2,450
Magnum A200SE	275W		3,750
Mark Levinson 331			4,495
Mark Levinson 332	100W		6,495
	200W		
Mark Levinson 333	300W		8,495
Mark Levinson 33H	150W		19,395
Matisse Ref Monoblocks	180W		8,000
McIntosh MC150	150W		3,499
McIntosh MC300	300W		3,999
McIntosh MC500	500W		8,999
McIntosh MC1000	999W		14,999
Meracus Tentare	75W		2,245
Meracus Cantare	-W		8,995
Muse Model 160 Ser. II	160W		2,290
Muse Model 150	125W		2,690
Muse Model 175 Ser. II	175W		3,490
Muse Model 300 Ser. II	300W		3,990
Musical Fidelity F16	200W		2,500
Musical Fidelity F19	300W		4,000
Papworth M100	100W		2,645
Papworth M200	200W		3,825
Roksan ROK-M1.5			2,250
Rowland Model 2	160W		4,999
	75W		
Rowland Model 6	150W		10,999
Rowland Model 8T	250W		12,499
Rowland Model 9T	350W		27,999
Shearne Phase 1 Pwr Ref	100W		2,199
Siemel TA20			2,350
Sonic Frontiers Power 1	55W		2,499
Sonic Frontiers Power 2	110W		4,999
Sonic Frontiers Power 3	220W		8,599
Sumo Model Ten/M	240W		4,200
Sunfire Sunfire	300W		2,170
T+A A3000	190W		3,000
Talk Electronics Tornado 5	200W		2,100
Tesserac TAMP-60	60W		7,350
Trilogy 958T	45W		3,395
Trilogy 958	100W		3,395
Tube Tech Genesis Sig.	100W		4,700
Tube Tech Synergy DMA	150W		6,400
Unison Smart 845	24W		3,500
Unison Smart 300B	24W		4,250
Unison Palladio	32W		11,995
Van Den Hul Power amp	65W		2,500
XTC POW-1	200W		2,250
YBA 2 stereo	200VV		2,200
YBA 1 HC stereo			4,999
IDV I UC ZIGIGO			4,999
	No received		
NAME AND POST OFFICE ADDRESS OF THE PARTY OF	1000	-	



### **CABLES Analogue Interconnects**

Stranded construction.

Solid-core construction. Prices of interconnects are for a one-metre terminated pair

ior a one-metre termin	ateu pa	
Apertura Model B		260.00
Apertura Model A	<b>③</b>	469.00
Art Yam Church 5000		515.00
Audio Note AN-A		18.00
Audio Note AN-C		35.00
Audio Note AN-S	<b>③</b>	99.00
Audio Note AN-V	<b>3</b>	179.00
Audio Note AN-Vx	<b>③</b>	450.00
Audioquest Jade		30.00
Audioquest Turquoise 2	<b>3</b>	40.00
Audioquest Topaz 2		59.95
Audioquest Ruby 2	<b>③</b>	80.00
Audioquest Quartz	<b>③</b>	125.00
Audioquest Opal	<b>③</b>	200.00
Audioquest Emerald	<b>③</b>	260.00
Audioquest Lapis	<b>③</b>	399.00
Audioquest Diamond	<b>③</b>	549.00
Cable Talk Improved 2/CD	0	26.00
Cable Talk Advanced 2	<b>3</b>	34.95
Cable Talk Improved 2/Tape	<b>③</b>	47.00
Cable Talk Monitor 2.1	<b>③</b>	50.00
Cable Talk Studio 2		6500
Cable Talk Professional 2	<b>③</b>	85.00
Cable Talk Broadcast 2	<b>3</b>	100.00
Cable Talk Reference 2	<b>③</b>	150.00
Cable Talk Signature 2 Gold	<b>③</b>	300.00
Cambridge Atlantic	<b>©</b>	10.00

Shinpy Pulsar 2 Shinpy Quasar 2

Siltech MC2-12 Siltech MC4-24S

Siltech FTM-3S Silver Sounds SS2

Silver Sounds SS1

Silver Tone Ex-Static Silver Tone Sci-Fi SME S2LB-4

Shinpy Red Star 2 Shinpy Black Star 2

Cambridge Arctic	•		20.00
Cambridge Pacific			30.00
Cambridge Studio Reference	0		40.00
Cambridge Silver Spirit 40	<b>③</b>		70.00
Cambridge Silver Spirit 60 Cardas Audio 300B-Microtwin	<b>③</b>		100.00 115.00
Cardas Audio Quadlink-Five	<b>③</b>		200.00
Cardas Audio Cardas Cross	0		360.00
Cardas Audio Hexlink-Five C	<b>③</b>		530.00
Cardas Aud. Hexlink Golden-5 C	0		600.00
Cardas Audio Golden Cross ChordCo Chrysalis	<b>③</b>		700.00
ChordCo Cobra 2	•		50.00
ChordCo Siren	<b>③</b>		65.00
ChordCo Chameleon			85.00
ChordCo Solid ChordCo Chorus			99.00 185.00
Connections UK Ultra	©		28.00
Connections UK Midas	<b>③</b>		39.00
Connections UK HD	<b>③</b>		46.00
DBF Acoustics Black Velvet DBF Acoustics Black Velvet SE	<b>③</b>		30.00 40.00
DBF Acoustics Azure SE	©		75.00
DNM-Reson TCC75	•		34.00
DPA Slink			41.00
DPA White Slink			75.00
DPA Black Slink Expressive Tech IC-1	•		<b>245.00</b> 700.00
Gamma Wow Balance	©		799.00
Goertz M1 Interconnect		•	145.00
GT Audio Intercon			130.00
Henley HSP10 Henley HSP50	<b>③</b>		20.00 35.00
Henley HSP100	0		65.00
Henley HSP200	<b>③</b>		95.00
Heybrook Black Flash Insert Audio Focus 1.2	•	•	49.95 21.50
Insert Audio IC100 Mk II	<b>©</b>		46.95
Insert Audio Status 3.4	<b>③</b>		160.00
lxos 104	<b>③</b>		20.00
Ixos 1003 Ixos Gamma 1002	©		30.00 39.95
Ixos 103	63		45.00
Ixos 102	<b>③</b>		60.00
lxos 101 lxos 100.XO3	<b>③</b>		100.00
Kimber PBJ	<b>③</b>		150.00 68.00
Kimber KC1	٥		96.00
Kimber Hero	<b>③</b>		110.00
Kimber Silver Streak Kimber KCAG	•		180.00 390.00
Kimber KCTG	©		720.00
Kronos Konnekt 3		•	49.00
Kronos Konnekt 2 Kronos Konnekt 1		•	99.00 199.00
LAT International IC-50	<b>③</b>	•	37.00
LAT International IC-80	0		60.00
LAT International IC-100-D		•	89.00
LAT International IC-200 Mk II Lieder Chanson	•	•	151.00 340.00
Lieder Lek	0		420.00
Lieder Het Lied	0		420.00
Lieder Song Lieder Maas	0		580.00 620.00
Lieder Rijn	<b>③</b>		1,000.00
Lieder Waal	©		1,400.00
Lumley Silver 12/2	0		115.00
Lumley Silver 14/4  Moth Leyline Black	<b>③</b>		175.00
Moth Leyline Grey	<b>(3)</b>		200.00
Nordost Magic	0		35.00
Nordost Black Knight	<b>③</b>		60.00
Nordost Blue Angel Nordost Blue Heaven I/C	•		98.00
Nordost Red Dawn	0		285.00
Nordost SPM	0		825.00
Ortofon 7N interconnect	0		250.00
Precious Metals Silver Signal 35 Precious Metals Silver Signal 50	0		40.00 50.00
Precious Metals Silver Signal 52	0		70.00
Precious Metals Silver Signal 53	<b>③</b>		90.00
Precious Metals Silver Signal 100 Precious Metals Silver Signal 102	© ©		100.00
Precious Metals Silver Signal 103	0		160.00
Precious Metals Silver Signal 104	0		190.00
Precious Metals Silver Signal 200 Precious Metals Silver Signal 202	<b>③</b>		220.00 290.00
Precious Metals Silver Signal 203	0		360.00
Precious Metals Silver Signal 204	0		430.00
Prowire Silver	0		60.00
PAD Elementa QED Qnect 2	<b>(3)</b>		145.00 30.00
QED Qnect 4	<b>③</b>		60.00
Roksan ROK-Intercon Shinpy Red Devil	©		75.00 80.00
Shinpy Red Star 2	© ©		120.00

120.00 240.00

495.00 850.00

308.00 400.00

730.00 99.00

199.00

95.00

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Jadis JA300B Jadis JA80

Jadis JA200 Jadis JA500

Krell KAV500/2 Krell FPB200

Krell FPB300 Krell FPB600

Krell KAS2

Lexicon 225

10W

60W 160W

400W

100W

200W 300W

600W 200W

250W

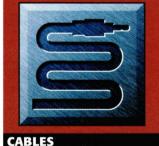
9,000 9,912

15,518 21,500

3,485 6,490 9,500 12,900

20,000 2,500

SME S3LB-4	<b>(3)</b>		52.06
SME 4900A	0		76.83
SME 5900A	<b>3</b>		102.57
Sonic Link Red	<b>3</b>		25.00
Sonic Link Silver pink	0		35.00
Sonic Link Black	0		49.00
Sonic Link White			65.00
Sonic Link Brown		•	70.00
Sonic Link Violet	0		85.00
Sonic Link Maroon	3		125.00
Sonic Link Blue Nickel		•	150.00
Sonic Link Vermillion		•	195.00
Sonic Link Red earth		•	300.00
Sonic Link Black earth		•	450.00
Sonic Link Blue earth		•	695.00
Sonic Link Black Rhodium			995.00
Straightwire Chorus	0		40.00
Supra DAC-X	<b>③</b>		60.00
Supra EFF-ISL	3		80.00
Supra EFF-XLR	0		90.00
Transparent Cable Musichord Int	0		48.00
Transparent Cable The Link	<b>③</b>		92.00
Transparent Cable Music Link	3		119.00
Trichord Pulsewire 75		•	169.00
Vampire Wire CC	0		24.00
Vampire Wire CCC/II	3		58.00
Vampire Wire SC/II	0		98.00
Vampire Wire SC/IV	<b>③</b>		144.00
Vampire Wire Al/2	0		259.00
Vampire Wire SL	0		412.00
Van Den Hul Storm			25.00
Van Den Hul Source HB	3		50.00
Van Den Hul D102 III	3		69.99
Van Den Hul Thunderline HB	0		130.00
Van Den Hul First	0		210.00
Van Den Hul Second	0		240.00
Van Den Hul MC Gold	0		400.00
Van Den Hul MC Silver IT	0		,240.00
Van Den Hul MC Silver IT Bal	<b>③</b>		,560.00
Wireworld Orbit	<b>③</b>		30.00
Wireworld Solstice II	<b>③</b>		40.00
XLO Type 150	3		50.00
XLO Type 0.1		•	180.00



## **Digital Interconnects**

Stranded construction. Solid-core construction.

Prices of interconnects are for a one-metre terminated pair.

Apertura Model B	0	139.00
Apertura Model A	0	255.00
Apogee Digital Wyde Eye	0	20.00
Apogee Digital Wyde Eye Bal.	<b>3</b>	30.00
Art Yam Church 5000	<b>3</b>	275.00
Audioquest Digital/video 1	<b>3</b>	30.00
Audioquest Digital/video 2	0	60.00
Audioquest Optilink X		90.00
Audioquest Digital PRO	0	100.00
Audioquest Optilink Pro		149.00
Audioquest Optilink Z		179.00
Cable Talk Digital 2	<b>③</b>	78.00
Cardas Audio Lightning	<b>③</b>	190.00
ChordCo Codac	3	36,00
ChordCo Prodac		50,00
DNM-Reson DIG100		26.00
DPA Opti-link		20.00
DPA Digi-link	3	28.00
Insert Audio Dataline 500	<b>③</b>	24.95
Insert Audio Optic 2.1		29.95
Insert Audio Dataline 700	<b>©</b>	39.95
Insert Audio Image 5.1	<b>③</b>	44.95
lxos 105		25.00
lxos 106		30.00
Kimber Optı-link	11	50:00
Kimber Illuminati DV-30	<b>③</b>	70.00
Kimber Illuminati D-60 Kimber Illuminati DX-50	<b>③</b>	325.00 350.00
Kimber Illuminati Ox-50 Kimber Illuminati Orchid	<b>③</b>	750.00
LAT International DI-20-D	<b>(3)</b>	79.00
Moth Levline Datalink	~	140.00
Nordost Moonglo	<b>③</b>	155.00
Precious Metals Silver Dig 35		20.00
Precious Metals Silver Dig 33 Precious Metals Silver Dig 100	©	50.00
Precious Metals Silver Dig 200	©	110.00
Precious Metals Silver Dig 202	©	145.00
Trectods Mictals Sliver Dig 202	•••	175.00

0 QED Optiflex 25.00 0 45.00 Roksan ROK-Intercon Shinpy Digital 0 265.00 0 **(3)** Supra FFF-ID 45.00 Supra DAC-XLR 0 45.00 Transparent Cable PDI 0 199.00 Trichord Pulsewire 75D 75.00 Trichord Pulsewire 110D 145.00 150.00 Van Den Hul Source HB 0 30.00 Van Den Hul AES-ERII 110 0 65.00 Van Den Hul Second 0 130.00



Stranded construction.

Solid-core construction

Price per mono metre, unterm	inate	d.	
Acoustic Energy AESC-C3	<b>©</b>		11.95
Apertura Silver	0		82.50
Art Yam Church M2000	0		470.00
Art Yam Church 5000	©		795.00
Audio Note AN-D	0		4.50
Audio Note AN-B	0		36.50
Audio Note AN-L	<b>③</b>		29.50
Audio Note AN-SP	<b>③</b>		150.00
Audio Note AN-SPx	0		450.00
Audioquest Type 2 Audioquest F-18	<b>③</b>		3.60
Audioquest Type 6+	©		9.00
Audioquest Indigo +	©		15.00
Audioquest Crystal +	0		25.00
Audioquest Forest	<b>③</b>		75.00
Audioquest Argent +	0		125.00
Audioquest Clear 3	0		200.00
Bandridge LC7409 Bandridge LC4110	<b>⇔</b>		4.00 28.00
Bandridge LC3410	<b>③</b>		40.00
Bandridge LC3210	©		75.00
Bandridge LC3219	<b>③</b>		75.00
Bandridge LC3220	<b>③</b>		90.00
Bandridge LC3310	<b>③</b>		95.00
Bandridge LC3240	<b>③</b>		125.00
Cable Talk Theatre 2	0		1.50
Cable Talk The Flat One Cable Talk Talk 3.1	<b>(1)</b>		2.00
Cable Talk Overture 2.1	<b>③</b>		3.25
Cable Talk Talk 4,1	<b>3</b>		4.25
Cable Talk Talk 3.1 Biwire	<b>③</b>		4.50
Cable Talk Concert 2.1	<b>③</b>		7.00
Cable Talk Talk 4.1 Biwire	<b>③</b>		8.50
Cable Talk Symphony 3	0		12.50
Cable Talk Concert 2.1 Biwire Cardas Audio 300B-Microtwin SC	<b>③</b>		14.00 35.00
Cardas Audio Quadlink-Five SC	<b>(1)</b>		59.00
Cardas Audio Cross SC	©		99.00
Cardas Audio Hexlink-Five SC	<b>③</b>		109.00
Cardas Audio Hexlink Golden5 SC	<b>③</b>		175.00
Cardas Audio Golden Cross SC	0		789.00
ChordCo Myth	•		15.00
ChordCo Legend DNM-Reson LSC	<b>③</b>		6.95
DNM-Reson LSCB			11.95
DPA Black Sixteen			100.00
Electrocompaniet EC-K2	0		30.00
Gale XL105	<b>③</b>		1.00
Gale XL189	0		1.00
Gale XL315	0		2.00
Gale XL160-2 Gale XL315-2	<b>③</b>		3.99
Gamma Wonder Line	<ul><li>○</li><li>○</li></ul>		99.00
Goertz M1	•		16.00
Goertz M2		•	32.00
Goertz Big Boy		•	64.00
GT Audio Speaker	0		50.00
lxos 607	0		2.00
lxos 6004 lxos 6003	<b>(1)</b>		3.00
Ixos 605	<b>③</b>		3.00
Kimber 4PR	<b>③</b>		3.90
Kimber 4VS	0		9.00
Visibas ATC	-		10.00

Kimber 8TC

Kimber 4AG 394.00 Kimber 8AG 656.00 LAT International SS 800 21.00 (1) 27.00 42.50 LAT International BIWIRE 0 LAT International SS 1000 0 Lieder Pad 000 340.00 450.00 Lieder Bel Canto Lieder Spoor 000 580.00 1,000.00 Lieder Straat Lieder Weg 1,400.00 Linn K20 (1) 4.00 Linn K400 0 10.00 Linn K600 **③** 15.00 Lumley Silver 12/2 Lumley Silver 14/4 Mission Duet 40.00 Mission Quartet bi-wire 3.90 0 Nordost 4-Flat 12.00 **(1)** 55.00 Nordost Blue Heaven Sokr Nordost SPM (3) 325.00 Ortofon SPK200 5.00 0 0 Precious Metals Silver L'r 32 750 10.00 Precious Metals Silver L'r 102 0 Precious Metals Silver L'r 34 0 15.00 Precious Metals Silver L'r 104 Precious Metals Silver L'r 106 Precious Metals Silver L'r 108 0 30.00 40.00 Puresonic OFC 7892 **③** 120 Puresonic OFC 7844 1.65 2.85 3.75 Puresonic OEC 7816 0 Puresonic OFC 7832 Puresonic OEC 7812 0 3 75 Puresonic OFC 7825 6.95 Puresonic PSOCC 7801 0 950 Puresonic PSOCC 7802 18.00 Puresonic PSOCC 7803 ○○ 27.00 QED Qudos Micro QED Qudos micro 4 core 0 2.00 4.00 OED Oudos 4 core OFD Oudos Bi-Wire 0 450 QED Qudos Silver 4.95 0 0 QED Profile Silver 12 15.00 2.00 6.00 Rega REGA ○○ Roksan ROK-Speaker Shinpy Red Devil ○○ 30.00 Shinpy Red Star 2 39.00 Shinpy Black Star 2 0 62.00 Shinpy Pulsar 2 104.00 0 Shinpy Quasar 2 208.00 Siltech LS2-45 **③** 109.00 Siltech FT-12 Mkl 240.00 549.00 Siltech LS4-120 0 **3** 35.00 Silver Sounds 10 Gauge Silver Sounds 8 Gauge Silver Tone Silver-Sonic 75.00 10.00 (1) Silver Tone Silver-Sonic HC 15.00 Silver Tone Silver-Voice (3) 55.00 Silver Tone Silver-Voice Ultra 85.00 2.75 Sonic Link AST75 Sonic Link AST200 0 5.95 Sonic Link AST200x2 10.00 Sonic Link S130x2 20.00 Sonic Link S300x2 (3) 35.00 Sonic Link S900 0 50.00 Sonic Link S600x2 70.00 0 **()** Sonic Link RE3 4 330.00 Supra Classic 2.5 Supra Linc 2.5 Flex 3 49 Supra Plv 2.0 0 4.95 Supra Linc 4.0 Flex 4.95 6.95 Supra Plv 3.4 (1) Supra Quattro 4x4 8 95 Supra Classic 10 9.95 (1) Tech + Link SPC 79 1.20 parent Cable The Wave Transparent Cable Music Wave Spkr @ 25.00 Vampire Wire SC-384 11.00 Vampire Wire SC-554 15.00 0 Vampire Wire ST-I 30.00 Vampire Wire SC-1108 (3) 30.00 Vampire Wire ST-II 48.00 73.00 Vampire Wire ST-III Van Den Hul Skyline HB **③** 3 50 Van Den Hul Snowline 5.00 Van Den Hul Skytrack HB **③** 5.50 Van Den Hul Snowtrack 0 10.00 0 Van Den Hul Cleartrack 13.00 Van Den Hul D352 HB 20.00 Van Den Hul Teatrack HB 0 22.00

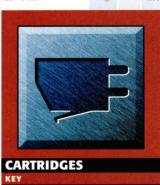
Van Den Hul SCS12

32 70

Van Den Hul Magnum HB

0

Van Den Hul The Wind HB 0 0 Van Den Hul Revelation HB Van Den Hul The Third 0 900.00 XI O Pro 600 **CARTRIDGES** MM - Moving-magnet type. MC - Moving-coil type. **UP TO £100** Audio Note IO1 мм 99 15 Audio Technica AT-91 MM OVER £100



Audio Technica AT-91	MM		15
Audio Technica AT-95E Audio Technica AT-110E	MM		20
Audio Technica AT-110E	MM		28
Audio Technica AT450E	MM		70
Audio Technica AT440ML	MM		90
Benz-Micro MC20Ell		MC	70
Denon DL110		MC	70
Denon DL160		MC	90
Denon DL103		MC	100
Goldring Elan		MIC	19
Goldring Elektra	MM		29
			59
Goldring 1006	MM		
Goldring 1012GX	MM		79
Goldring 1022GX	MM		99
Grado ZTE+1	MM		27
Grado ZCE+1	MM		37
Grado ZF3E+1	MM		48
Grado Prestige Black	MM		49
Grado Prestige Green	MM		59
Grado Prestige Blue	MM		69
Grado ZF1+	MM		83
Grado Prestige Red	MM		99
N'ham Tracer I	MM		98
Ortofon VMS2	MM		15
Ortofon OM 5E			20
	MM		
Ortofon OM 10	ММ		30
Ortofon 510	MM		40
Ortofon OM DJ	MM		50
Ortofon OM 20	MM		70
Ortofon 520	MM		70
Ortofon MC1 Turbo		MC	75
Ortofon Concorde DJ	MM		80
Ortofon OM 30	MM		90
Ortofon 530	MM		100
Pickering TE-15	MM		20
Pickering VE-15	MM		25
Pickering T-E	MM		25
Pickering V15-DJ	MM		28
Pickering TL-E			35
	MM		45
Pickering TL-2E	MM		
Pickering XV15-625E	MM		50
Pickering XV15-150-DJ	MM		50
Pickering TL-2-S	MM		55
Pickering XV15-757S	MM		60
Pickering XV15-625DJ	MM		60
Pickering XV15-1800S	MM		70
Pickering TL3S	MM		80
Pickering XEV-3001E	MM		95
Pickering XLZ-3500	MM		100
Pickering TL-4-S	MM		100
Rega Bias	MM		39
Rega RB78	MM		39
Rega Super Bias	MM		59
Rega Elys			85
	MM		
Shure M70BX	ММ		21
Shure M92E	MM		22
Shure SC35C	MM		29
Shure M447X	MM		35
Shure M44GX	MM		35
Stanton 500AL II	MM		35
Stanton 500EL	MM		44
Stanton 680AL/X	MM		59
Stanton 680EL/X	MM		74
Sumiko Oyster	MM		30
Sumiko Black Pearl	MM		50
Sumiko Pearl	MM		70
Sumiko Blue Point		MC	100

MM

Audio Note IO2

Audio Note Soara

Audio Note IO1V

Audio Technica AT-OC9

139

795 1,095

MC MC MC

MC MC

MC MC 2,000 2,800

MC MC MC MC

900 1,050

1,500

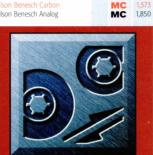
2,800 2.900 3,000



A burning question to express in print? Write in to 'Letters' at the usual address. A prize for every letter printed!

CARTRIDGES (CO	NTIN	UED	
Benz-Micro The Glider Benz-Micro M090		MC MC	650 700
Benz-Micro L040		MC	700
Benz-Micro H200		MC	700
Benz-Micro Reference Benz-Micro Reference Ruby		MC	1,100 1,500
Benz-Micro Ruby Open Air		MC	1,600
Clearaudio Aurum-Alpha	MM		135
Clearaudio Aurum-Beta Clearaudio Aurum-Beta/S	MM		195 265
Clearaudio Gamma-S	IALIAI	мс	745
Clearaudio Signature		MC	1,495
Clearaudio Accurate Clearaudio Insider		MC	2,500 4,900
Denon DL304		MC	200
Dynavector 10X4II		MC	189
Dynavector 23RS  Dynavector 17D2		MC	375 450
Dynavector XX-1L		MC	998
Dynavector XX-1		MC	998
Dynavector Te-Kaitora Goldring Eroica LX		MC MC	1,698
Goldring Eroica		MC	110
Goldring 1042	MM		120
Goldring Elite Goldring Excel VX		MC MC	220 525
Grado Prestige Silver	MM		119
Grado Prestige Gold	MM		149 150
Grado Signature Junior Grado Signature 8MZ	MM		250
Grado Signature MCZ	MM		375
Grado Signature TLZ	MM		650 975
Grado Signature XTZ Grado Reference	MM		995
Koetsu Red T		MC	1,550
Koetsu Red K Sig Koetsu Urushi		MC MC	1,998
Koetsu Signature		MC	3,218
Koetsu Gold PR		MC	5,498
Linn K9 Linn Klyde	ММ	мс	125 500
Linn Arkiv		MC	1,000
London Decca Maroon	MM		299
London Decca Gold London Decca Maroon Dp	MM		319 379
London Decca Gold Dp	MM		399
London Decca S Gold	MM		439
London Decca S Gold Dp London Decca Jubilee	MM		519 999
Lyra Lydian		MC	649
Lyra Clavis Da Capo Lyra Parnassus DCt		MC	995
N'ham Tracer II	мм	IVIC	310
N'ham Tracer III	MM		410
N'ham Tracer IV Ortofon MC15 Super II	ММ	MC	660
Ortofon 540	MM	IVIC	140
Ortofon MC3 Turbo		MC	150
Ortofon MC25E Ortofon MC25FL		MC	200 250
Ortofon MC10 Supreme		МС	300
Ortofon MC20 Supreme		MC	450
Ortofon MC30 Supreme Ortofon MC2000II		MC MC	550 800
Ortofon MC Rohmann		MC	1,000
Ortofon MC3000 II Ortofon MC7500		MC	1,200
Pickering TL-3003	мм	МС	2,000
Pickering XLZ-4500	MM		150
Pickering TL-4004 Pickering XSV-5000U	MM		175 200
Pickering XLZ-7500	MM		200
Pickering TLZ-7500-S Reson Mica	MM		200
Reson Reca	MM		250
Reson Aciore		MC	299
Reson Etile Reson Lexe		MC	455 1,300
Roksan Corus Black	мм	MIC	130
Roksan Shiraz		MC	970
Shure V15XMR Stanton 890AL/X	MM		295 120
Sumiko BPS		МС	250
Transfiguration Spirit Transfiguration Temper		MC MC	1,000 1,950
Van Den Hul MM-1	мм	MC	250
March David Land And Andrews			700

Van Den Hul The Frog Low o/p Van Den Hul Grasshopper IIISLA Van Den Hul Grasshopper IIIGLN Van Den Hul Grasshopper IIIGLN Van Den Hul Grasshopper IIIGLN Van Den Hul Grasshopper IIIGHN Van Den Hul Grasshopper IVGLA Wilson Benesch Matrix Wilson Benesch Carbon Wilson Benesch Analog	Van Den Hul MC-10 Van Den Hul MC-One Van Den Hul MC-ONE Super Van Den Hul MC-Two
	Van Den Hul Grasshopper IIISLA Van Den Hul Grasshopper IIIGLN Van Den Hul Grasshopper IIIGLN Van Den Hul Grasshopper IIIGLN Van Den Hul Grasshopper IIIGHN Van Den Hul Grasshopper IVGLA Wilson Benesch Matrix Wilson Benesch Carbon



### **CASSETTE DECKS**

- Autoreverse - no need to remove and turn around the tape. 3-H - 3 heads, i.e. separate record and replay heads.

Aiwa AD-F460 Aiwa AD-F350 Akai DXW1100 Akai DXW1100 Ariston WK-510 Denon DRM-550 Denon DRW-580 Denon DRK-580 Denon DRS-640 Goodmans Delta 801 JVC TD-X372BK IVC TD-X372BK Kenwood KX-W4080 Kenwood KX-W4080 Kenwood KX-W6080 Kenwood KX-W5080 Marantz SD-57 Pioneer CT-W505R Pioneer C		120 200 200 200 80 160 200 130 160 200 200 169 199 150 160 180 200 200 150 180
Sony TC-WE505	-	180
TEAC W-416 TEAC V-610		100
TEAC W-780R	<b>=</b>	170
TEAC R-560 TEAC V-1050	-	180
TEAC V-1050 TEAC R-H500		180 200
Technics RS-BX501	-	170
Technics RS-TR373	-	180
Technics RS-TR474 Technics RS-AZ6	- a H	200
Yamaha KX-393	3·H	130
Yamaha KX-W321	-	170
Yamaha KX-493		180
OVER COOR		VI (VE) (S)

Yamaha KX-W321 Yamaha KX-493	-	170 180
OVER £200		
Aiwa AD-F850 Aiwa AD-WX929 Carver TDR-1550	3-	230 629
Denon DRM-650S Denon DRM-740 Denon DRS-810 H/K TD420	3-	310 250
H/K TD450 JVC TD-V662BK JVC TD-W718BK NAD 613	⇒ 3. 3.	7.7
NAD 614 NAD 616 Onkyo TA 6210 Onkyo TARW 211	<del>-</del>	270 300 230 270
Onkyo TARW 311 Onkyo TA 6310 Onkyo KR 609	=	320 330 350
Onkyo KW 606 Onkyo TARW 411 Onkyo K 611 Pioneer CT-S550S	3⋅	
Pioneer CT-W806DR Pioneer CT-S550S Precision	<b>→</b> 3-	300

Pioneer CT-S830S Pioneer CT-95 Rotel RC960BX Sony TC-WE805S	<del></del>	3-H	500 1,000 250 250
Sony TC-KA6ES T+A CC1200R		3-H	550 990
TEAC W-850R	$\rightleftharpoons$		250
TEAC V-1030 TEAC W-6000R		3-H	250 450
TEAC V-6030S	1777	3-H	550
TEAC V-8030S		3-H	650
Technics RS-AZ7		3-H	270
Technics RS-TR575	-		280
Yamaha KX-580SE			250
Yamaha KX-W592	-		280



### CD PLAYERS

**≡>** – Multiplayer: can be loaded with more than one disc. 1010 - Electrical (coaxial) digital output. Many players also include an optical (Toslink) output.

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м	-80		STATE OF	-

Akai CDM1200	00 30 30 50
Akai CDM1200	30 50
AMC CD8A 1 AMC CD9/DAC8 1010 2 Ariston CDX700	50
AMC CD9/DAC8 1010 2 Ariston CDX700	
Ariston CDX700	nn -
Ariston CDX/10	60
Ariston CDX910	00
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Cambridge CD6 1010 2	50
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	80 00
	10
	20
JVC XL-V230BK	40
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Sherwood CDC680 <b>■▶ 1010</b> 1	80
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	80
Sony CDP-CE315   ■  2	00
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	00
Synergy CDJ1210	20

TEAC CD-P1800 TEAC CD-P3450SE TEAC PD-H500 TEAC PD-D2200	(D)10	130 200 240 250
Technics SL-PG390A Technics SL-PG490A Technics SL-PG590A Technics SL-PD688 Technics SL-PD888 Technics SL-PS670D		90 100 120 140 160
Technics SL-MC4 10 Technics SL-PS770D Yamaha CDX-393 Yamaha CDC-565 Yamaha CDX-493 Yamaha CDX-9	(D1)	250 250 130 170 180 200
Yamaha CDC-665 Yamaha CDX-593	<b>■►</b> 1010	

E231 10 E300		2000	
Asses Alaba 7			770
Arcam Alpha 7		1010	330
Arcam Alpha MCD	■>	<b>110</b>	450
Aura CD100 Carver MV-5		1010	400 469
Denon DCM-260			300
Denon DCD-1550AR	<b>■</b>	Tiles	350
Denon DCD-1015		1010 11010	350
H/K HD730		110 110	300
H/K FL8300	=-	110 110	300
JVC XL-Z674BK	=	110 110	300
Kenwood DP-R7080	=-	1010	300
Kenwood DP-9090	=	III)10	300
Kenwood DP-5090		1010 1010	300
Kenwood DP-7090		110 110	400
Marantz CD-67SE		110 110	350
Marantz CC-870	=	III)10	400
Marantz CD-63IIKI	=	11010 11010	400
Musical Fidelity E60		M10	300
Musical Fidelity A2 CD		M10	500
Myryad T-10		11010	400
NAD 513	=>	Щи	290
NAD 515	≣`	III10	350
NAD 514	-	1010	370
NAD 517	=▶	110	400
Onkyo DX 7210		1010	260
Onkyo DX 7510		1010	400
Parasound C/DP-1000		III10	500
Pioneer PD-F805	=>		300
Pioneer PD-S707	100 P	1010	300
Pioneer PD-F906	=-	Sun is	350
Pioneer PD-S904		1010	400
Pioneer PD-S505 Precision		1010	460
Rotel RCD-971		1010	350
Sony CDP-CX55	<b>■</b> ▶		280
Sony CDP-XE900E			300
Sony CDP-CX200	<b>■</b>		380
Sony CDP-XA20ES		1010	450
Sony CDP-X3000ES		1010	500
TEAC CD-5			350
Vamaha CDV 007		FTG140	400

1010

1,000

Tallialia CDX-353	Ши	400
£501 TO £1000		
A ACDII		000
Acurus ACD11	1010	899 600
Alchemist Nexus Arcam Alpha 8	1010	520
Arcam Alpha 8SE	1010 1010	600
Arcam Alpha 9	1010	800
Audio Analogue Paganini	ID10	695
AVI S2000MC2	1010	899
Creek CD42	ID10	599
Denon DCD-3000	1010	1,000
DPA Renaissance int CD	III 10	950
Fase Evoluzione Laserdrive 1.0	III10	995
Helios Model 3	III 10	650
Helios Model 2	1010	950
Heybrook Signature II	1010	989
Linn Mimik	1010	875
Magnum CD2020	1010	595
Marantz CD-17	1010	800
Micromega Stage 4	<b>10</b> 10	600
Micromega Stage 5	<b>11</b> 0	750
Micromega Stage 6	1010	950
Mission dAD3	1010	598
Mission dAD3Q	100	898
Monrio Asty PL	<b>110</b>	675
Monrio Privilege	1010	995
Musical Fidelity X-RAY Myryad T-20	1010	799 600
Myryad MC100	1010 1010	700
Naim CD3	Ши	1,000
Orelle CD100eA	1010	649
Orelle CD-100eSA	1010	999
Pioneer PDS-06	III)10	550
Primare D20	1010	799
Quad 77 Bus		700
Quad 77 Mains		900
Roksan Caspian	1010	895
Sony CDP-XA50ES	<b>1</b> 010	1,000
Synergy CDJ1220		600
T+A CD1200R	1010	895
TEAC VRDS-8	1010	600
	1010	

Yamaha CDX-993

Technics SL-P2000

Van Den Hul MM-2

Trichord Digital Jukebox 25 Trichord Digital Jukebox 50 Trichord Digital J'box 100 Trichord Revelation YBA Special	100 100 100 100 100 100 100 100 100 100	599 649 699 799 625
OVER £1000		
Acoustic Precision Eikos Alchemist Forseti Audio Research CD1 Audio Research CD2 Audiomeca Talisman Audiomeca Talisman SE AVI SZOOOMC Cary CD-301 Conrad-Johnson DF-2 Conrad-Johnson DV-2b	1010 1010 1010 1010 1010 1010	1,850 1,995 3,290 4,100 2,150 2,300 1,399 2,495 1,695
Copland CDA-266 Copland CD277 Copland CDA288 Cymbol CDP12 Helios Model 1 Helios Stargate Krell KPS30i	1010 1010 1010 1010 1010 1010	1,199 1,800

Audio Research CD1	ETG110	3,290
Audio Research CD2	[[]10	4,100
Audiomeca Talisman	1010 1010	2,150
Audiomeca Talisman SE	THE RESERVE TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	2,300
AVI S2000MC	<b>10</b> 10	1,399
Cary CD-301	[[]10	2,495
Conrad-Johnson DF-2	1010	1.695
Conrad-Johnson DV-2b		2,495
	FFILE	
Copland CDA-266	1010	1,199
Copland CD277	<b>10</b> 10	1,800
Copland CDA288	1010	2,199
Cymbol CDP12	1010	1,299
Helios Model 1	1010	1,250
Helios Stargate	<b>1</b> 0	2,250
Krell KPS30i	10	5,490
Krell KPS-20i	1010	9,990
Marantz CD-17KIS	1010	1,100
Mark Levinson 39	<b>1</b> 0	4,995
McIntosh MCD7009	<b>1</b> 0	3,699
Meracus Tanto	1010	1,395
Meracus Imago Player	<b>1</b> 0	4,495
Meridian 506	1010	1,100
Meridian 508	1010	1,99
Micromega Solo	<b>1</b> 0	2,750
Myryad MCD500	1010	1,300
Naim CD2		2,000
Naim CDX		2,200
Naim CDS		3,940
Oracle CD Player	<b>1</b> 0	7,300
Pink Triangle Numeral	<b>1</b> 0	1,049
Pink Triangle Litaural	<b>1</b> 0	2,200
Primare D302	<b>1</b> 0	1,799
Roksan Attessa-DP3P	1010	1,49
Sherwood CD1	1010	1,100
Sonic Frontiers Anthem CD1	<b>10</b> 10	1,699
Sonic Frontiers SFCD-1	10	3,799
TAG McLaren CD20R	1010	1,24
TEAC VRDS-25	1010	1,300
Theta Digital Miles	<b>1</b> 0	2,495
XTC CDP-1	1010	1,250
YBA Integre	<b>1</b> 0	1,250
YBA CD3	<b>1</b> 0	2,250
YBA CD2	<b>1</b> 0	3,350
YBA CD1	<b>1</b> 010	4,500
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STATE OF THE PARTY		12
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### CD TRANSPORTS

1010 – Electrical (coaxial) digital output. Many players also include an optical (Toslink) output.

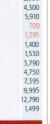
Alts CDT III		
Altas CDT III	Drive M10	1,100
Audio Research CDTI Audio Synthesis Transcend Decade Audiomeca Damnation Audiomeca Damnation SE Audiomeca Talisman Audiomeca Talisman SE Audiomeca Talisman SE Audiomeca Talisman SE Audiomeca Talisman DOB Audiomeca Talisman DOB Audiomeca Mephisto Audiomeca Mephisto SE Audiomeca Mephisto IIII 3 Cornad-Johnson DR-1 DPA Enlightenment Drv Jadis JD3 Jadis JD3 Jadis JD1 Light SP-20t Linn Karik Mark Levinson 37 Mark Levinson 37 Mark Levinson 31.5 Meraudiomeca Menago Meraudiomeca Meraudiomeca Meraudiomeca Menago Mark Levinson 31.5 Meraudiomeca	1010	4,995
Audio Research CDTI Audio Synthesis Transcend Decade Audiomeca Damnation Audiomeca Damnation SE Audiomeca Talisman Audiomeca Talisman SE IIII Audiomeca Talisman SE IIII Audiomeca Talisman DOB Audiomeca Talisman DOB Audiomeca Mephisto IIII Audiomeca Mephisto SE IIII Audiomeca Mephisto IIII Cambridge Discmagic One IIIII Conrad-Johnson DR-1 IIIII DPA Enlightenment Drv IIII Jadis JD3 IIIII Jadis JD1 IIIIII Jadis JD1 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	FT010	800
Audio Synthesis Transcend Decade Audiomeca Damnation St Audiomeca Damnation SE III 1010 1,8 Audiomeca Talisman SE Audiomeca Talisman DOB III 102,2 Audiomeca Meghisto SE Audiome		3,290
Audiomeca Damnation S		2,995
Audiomeca Damnation SE Audiomeca Talisman Audiomeca Talisman SE Audiomeca Talisman SE Audiomeca Talisman DOB Audiomeca Talisman DOB Audiomeca Mephisto Bullot 2,2 Audiomeca Mephisto E Audiomeca Mephisto C Cambridge Discmagic One Conrad-Johnson DR-1 DPA Enlightenment Drv Jadis JD3 Jadis JD2 Jadis JD1 Krell KPS-20t Linn Karik Mark Levinson 37 Mark Levinson 31.5 Meraudiomeca Damnation SE Meraudiomeca Mephisto Linn Karik Mark Levinson 37 Mark Levinson 31.5 Meraudiomeca Mephisto Linn Marik Meraudiomeca Mephisto Linn Karik Mark Levinson 31.5 Meraudiomeca Mephisto Linn Marik Meraudiomeca Mephisto Linn Marik Mark Levinson 31.5 Meraudiomeca Mephisto Linn Marik Linn Marik Linn Marik Meraudiomeca Mephisto Linn Marik Levinson 31.5 Meraudiomeca Mephisto Linn Marik Linn Mari		999
Audiomeca Talisman SE 1010 1,8 Audiomeca Talisman SE 1010 1,9 Audiomeca Talisman DOB 1010 2,2 Audiomeca Mephisto 1010 2,2 Audiomeca Mephisto 5E 1010 2,7 Audiomeca Mephisto 1010 2,7 Cambridge Discmagic One 1010 3,7 Conrad-Johnson DR-1 1010 1,7 DPA Enlightenment Drv 1010 4,8 Jadis JD2 1010 4,9 Jadis JD1 1010 12,5 Krell KPS-20t 1010 12,5 Krell KPS-20t 1010 3,9 Mark Levinson 37 1010 3,9 Mark Levinson 31.5 1010 9,2 Meracus Imago 1010 19,9 Meracus Imago 1010 19,9		1,100
Audiomeca Talisman SE		1.850
Audiomeca Talisman DOB Audiomeca Mephisto Ui010 2,3 Audiomeca Mephisto SE Audiomeca Mephisto SE Audiomeca Mephisto Ui010 2,7 Audiomeca Mephisto Ui010 3,7 Cambridge Discrangic One Conrad-Johnson DR-1 Ui010 1,7 DPA Enlightenment Drv Ui010 7,0 Jadis JD3 Ui010 4,9 Jadis JD1 Ui010 12,5 Krell KPS-20t Ui010 8,4 Linn Karik Ui010 18,4 Mark Levinson 37 Ui010 3,9 Mark Levinson 31.5 Ui010 9,2 Meracus Imago Ui010 3,9 Meracus Imago		1,999
Audiomeca Mephisto         1010         2,3           Audiomeca Mephisto SE         1010         2,5           Audiomeca Mephisto         1010         2,7           Cambridge Discrnagic One         1010         1,7           Conrad-Johnson DR-1         1010         1,7           DPA Enlightenment Drv         1010         4,8           Jadis JD3         1010         4,9           Jadis JD2         1010         12,5           Krell KPS-20t         1010         1010           Lunn Kank         1010         1,8           Mark Levinson 37         1010         3,9           Meracus Imago         1010         3,9		2,250
Audiomeca Mephisto SE         1010         2,5           Audiomeca Mephisto         1010         2,7           Cambridge Discrnagic One         1010         3,7           Conrad-Johnson DR-1         1010         1,7           DPA Enlightenment Drv         1010         7           Jadis JD3         1010         4,9           Jadis JD1         1010         12,5           Krell KPS-20t         1010         8,9           Linn Kank         1010         3,9           Mark Levinson 31.5         1010         9,2           Meracus Imago         1010         3,9		2,350
Audiomeca Mephisto         1010         2,7           Cambridge Discmagic One         1010         3           Conrad-Johnson DR-1         1010         1,7           DPA Enlightenment Drv         1010         4,8           Jadis JD3         1010         4,9           Jadis JD1         1010         12,5           Krell KPS-20t         1010         8,4           Linn Karik         1010         8,4           Mark Levinson 37         1010         3,9           Mark Levinson 31.5         1010         9,2           Meracus Imago         1010         3,9		2,500
Conrad-Johnson DR-1         1010         1,7           DPA Enlightenment Drv         1010         4,9           Jadis JD3         1010         4,9           Jadis JD1         1010         12,5           Krell KPS-20t         1010         1010         18           Lunn Kank         1010         3,9           Mark Levinson 37         1010         3,9           Mark Levinson 31.5         1010         9,2           Meracus Imago         1010         3,9		2,750
Conrad-Johnson DR-1         1010         1,7           DPA Enlightenment Drv         1010         4,8           Jadis JD3         1010         4,9           Jadis JD2         1010         4,9           Jadis JD1         1010         12,5           Krell KPS-20t         1010         1010         1,8           Mark Levinson 37         1010         3,9           Mark Levinson 31.5         1010         9,2           Meracus Imago         1010         3,0	nagic One 1010	300
Jadis JD3     1010     4,8       Jadis JD2     1010     4,9       Jadis JD1     1010     12,5       Krell KPS-20t     1010     1,8       Linn Kank     1010     1,8       Mark Levinson 37     1010     3,9       Mark Levinson 31.5     1010     3,9       Meracus Imago     1010     3,9		1,795
Jadis JD3     1010     4,8       Jadis JD2     1010     4,9       Jadis JD1     1010     12,5       Krell KPS-20t     1010     1,8       Linn Kank     1010     1,8       Mark Levinson 37     1010     3,9       Mark Levinson 31.5     1010     3,9       Meracus Imago     1010     3,9	ent Drv 1010	725
Jadis JDI     1010     12,5       Krell KPS-20t     1010     8,4       Lnn Karik     1010     1,8       Mark Levinson 37     1010     3,9       Mark Levinson 31.5     1010     9,0       Meracus Imago     1010     3,9		4,850
Krell KPS-20t         1010         8,4           Linn Karik         1010         1,8           Mark Levinson 37         1010         3,9           Mark Levinson 31.5         1010         9,2           Meracus Imago         1010         3,9	1010	4,990
Lunn Kank         1010         1,8           Mark Levinson 37         1010         3,9           Mark Levinson 31.5         1010         9,2           Meracus Imago         1010         3,9	1010	12,500
Mark Levinson 37       1010       3,9         Mark Levinson 31.5       1010       9,2         Meracus Imago       1010       3,9	1010	8,490
Mark Levinson 31.5 1010 9,2 Meracus Imago 1010 3,9	1010	1,850
Meracus Imago 1010 3,9	7 1010	3,995
	1.5	9,295
14 -11 - 500	1010	3,995
Meridian 500 1,2	1010	1,245
Micromega Drive 3 1010 7	3 1010	750
	1010	2,250
Monrio Bitmatch 1010 9	1010	950

Muse Model 5	1010	1,800
Oracle CD Drive	T010	4,680
Pink Triangle Cardinal II	1010	909
PS Audio Lambda TR	1010	2.250
PS Audio Lambda AT&T	III)10	2,778
Rogers SC-8t	III)10	2,699
Roksan Attessa-DP3	177	1,295
	1010	
Sonic Frontiers Transport 3		5,999
T+A CM1200R	1010	990
TAG McLaren CDT20R	1010	1,499
TEAC VRDS-T1	1010	550
TEAC P-30	1010	2,500
Theta Digital Data Basic II	1010	2,397
Theta Digital Data III NTSC/PAL	T010	5,455
Thorens TCD-2000	1010	999
Trichord Digital Turntable	1010	699
Tube Tech Fulcrum	III10	1,000
Wadia 8	1010	3,195
Wadia 20	ET010	4,370
VVddid 20	ш10	4,510
		10000



	<b>⊘</b> – Number of digital in	puts	
	Alchemist Forseti DAC		1,100
	Altis Reference	0	4,995
	AMC DAC8		130
	Apogee Digital DA-1000	0	3,395
	Arcam Black Box 50 Arcam Black Box 500	0	350 500
	Audio Note DAC1	•	675
	Audio Note DAC2		1,099
	Audio Note DAC3		1,750
	Audio Research DAC5 Audio Research DAC5		2,148 2,335
	Audio Research DAC3		4,195
	Audio Research DAC3		4,555
	Audio Synthesis DAX Decade	0	2,795
	Audiomeca Elixir Audiomeca Ambrosia	0	799 1.850
	Boulder 2020	0	17,750
	Cambridge Dacmagic 2 Mk II		150
	Chord DSC1100	0	2,575
	Chord DSC 1500 Conrad-Johnson D/A-3	0	3,850
	Conrad-Johnson D/A-2b	0	1,990
	dCS Elgar	0	8,500
	Denon DCD-425	7	150
	DPA Little Bit 3	0	325
	DPA Renaissance DAC DPA Enlightenment DAC		570 825
	DPA SX128		2,000
	DPA SX256		4,000
	DPA SX512		8,000
	Jadis JS3 Jadis JS1		2,129 8,068
	LFD DAC2		1,950
	LFD DAC3		3,000
	Linn Numerik		1,500
	Manley Professional DAC-20 Mark Levinson 36	0	6,950 3,995
	Mark Levinson 30.5	0	15,950
	Meracus Auriga		1,295
	Meracus Flagrare		2,495
	Meridian 566 Micromega DAC 2		1,095 750
	Micromega Dialog		2,000
	Monrio 18B2	0	795
	Muse Model 2		2,190
	Muse Model 2 Plus Musical Fidelity X-ACT	0	2,500
	Musical Fidelity X-ACT		300
	Onkyo DX 7310		330
	PS Audio DL3		777
	PS Audio SL3		1,449
	PS Audio UltraLink 2 HDCD PS Audio Ref Link		2,590 4,550
	Rogers SC-8m	0	1,899
	Roksan Attessa-DA2	0	595
	Sonic Frontiers Processor 3	0	5,999
	Sumo Theorem II Sumo Theorem IIB		945
	TAG McLaren DAC20	0	1,249
	Talk Electronics Thunder 3		1,000
	TEAC D-T1 TEAC D-700	0	500
	Theta Digital Chroma Std		600 849
	Theta Digital Pro Geny		1,145
	Theta Digital Pro Prime II		1,800
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Theta Digital Pro Basic III	
Theta Digital Gen V SE	
Theta Digital Casablanca L	S
Thorens TDA-2000	
Trichord Pulsar Ser One	
Tube Tech Fulcrum	
Wadia 12	
Wadia 15	
Wadia 64.4	
Wadia 16	
Wadia 7	
Wadia 9	
Woodside DVAC-18	



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### **DIGITAL RECORDERS**

MD – MiniDisc **DAT** – Digital Audio Tape o portable

Denon DMD-1000	MD	300
Denon DMD-1300	MD	500
Kenwood DM-7090	MD	500
Kenwood DM-9090	MD	550
Pioneer PDR-555RW		500
Pioneer PDR-04		700
Pioneer D-05	DAT	900
Pioneer PDR-05		1,000
Pioneer D-C88	DAT não	2,000
Sharp MD-R2	MD	300
Sharp MD-R1E	MD	300
Sharp MDR3H	MD	300
Sharp MD-MS200H	MD of	350
Sharp MDXV300H	MD	1,000
Sony MZ-E20	MD DO	180
Sony MDS-JE510	MD	250
Sony MZ-E30	MD page	280
Sony MDS-JB920	MD	300
Sony MDS-S38	MD	300
Sony MZ-R30	MD 🙃	300
Sony MDS-JA30ES	MD	699
Sony MDS-JA50ES	MD	1,300
TEAC MD-H500	MD	650
TEAC MD-10	MD	950
Yamaha MDX-9	MD	300



### **HEADPHONES**

 $^\prime D^\prime$  – Dynamic type, compatible with virtually all normal headphone outputs. 'E' - Electrostatic type; generally

includes a separate power supply. Open-back construction.

- Closed-back construction.

UP TO E40			
Aiwa HP-X301	D	۵	20
Aiwa HP-VX303	D	•	25
Aiwa HP-X705	D		40
AKG Rox	D		30
Aural Envelope DX200	D		20
Aural Envelope DX220	D		30
Beyer DT111	D	-	15
Beyer DT211	D	-0	31
Beyer DT211TV	D	-	35
JVC HA-CD88	D	-	18
JVC HA-D525	D		20
JVC HA-F65	D	₽:	20
JVC HA-D626	D		25
Kenwood KPM-310	D		18

Kenwood KPM-410	D		25
KLH KHP201TW	D	0	21
KLH KHP-300V	D		25
KLH KHP-420V	D	40	- 33
Maxell HP-2000	D	A	20
Pioneer SE-A40	D	I <del>Q</del> I	20
Pioneer SE-A20V	D	20	23
Pioneer SE-M250	D		25
Pioneer SE-M350	D	101	30
Sennheiser HD56	D		18
Sennheiser HD433	D		20
Sennheiser HD400	D	4	25
Sennheiser HD470	D	20	35
Sennheiser HD60TV	D	20	40
Sony MDR-W20G	D	200	18
Sony MDR-E837	D	20	18
Sony MDR-P70	D		18
Sony MDR-ED238	D	-	20
Sony MDR-009TV	D	ng.	20
Sony MDR-A34L	D	20	20
Sony MDR-E848	D	40	20
Sony MDR-P1TV	D		25
Sony MDR-CD270	D		30
Sony MDR-E868	D	*	35
Sony MDR-V400	D		40
Sony MDR-D11	D		40
Stanton ST Pro	D		25
Technics RP-F200	D		30
Technics RP-HT300	D	<b>A</b>	40
/ivanco SR150	D		20
Vivanco SR200	D		25
Vivanco SR250	D		25
Vivanco SR300	D		30
/ivanco IR5700	D	Δ	40

Vivanco SR300 Vivanco IR5700	D D	8	30 40
OVER £41			
AKG K301	D	-0	80
AKG K222IR	D	18	100
AKG K401	D	40	120
AKG K501	D	-C	150
AKG K333IR	D		150
AKG K444IR AKG K290S	D		180 250
AKG K1000	D	40	700
Audio Technica ATH910PRO	D	IAI	80
Audio Technica ATHD40FS	D		120
Audio Technica ATHM40FS	D		120
Audio Technica ATH911	D	4	120
Beyer DT311	D	40	50
Beyer DT411 Beyer DT511	D	40	106
Beyer DT801	D	IAI	125
Beyer DT811	D	101	145
Beyer DT100	D		160
Beyer DT901	D	40	160
Beyer DT911	D		170
Denon AH-D210 Denon AH-D350	D	IAI	45 65
Denon AH-D550	D		80
Denon AH-D650	D		95
Denon AH-D750	D	IAI	130
Denon AH-D950	D		150
Grado SR40	D	40	45
Grado SR60	D	***	79 100
Grado SR80 Grado SR125	D	40	150
Grado SR225	D	40	200
Grado SR325	D	40	300
Grado RS2	D	40	495
Grado RS1	D	₽@	695
Jecklin Float Model 1	D	***	79
Jecklin Float Model 2 Jecklin Float ELS	D E	40	99 399
JVC HA-D727	D	IAI	43
JVC HA-W60	D	i <u>a</u> i	49
JVC HA-D910	D	IAI	65
JVC HA-D1000	D		250
JVC HA-F25	D		699
Philips SBC 3396 Philips SBC HP9000	D D	IAI	70 90
Pioneer SE-M550	D	IAI	50
Pioneer SE-M750	D		60
Precide Ergo Model 1	D	40	120
Precide Ergo Model 2	D	**	140
Sennheiser IS 380	D	10	55 55
Sennheiser HD455 Sennheiser HD465	D	ΔD	65
Sennheiser HD570	D	40	80
Sennheiser HD475	D	40	80
Sennheiser HD25 SP	D		90
Sennheiser IS450	D	±€	110
Sennheiser HD545 Ref Sennheiser HD265 Linear	D	<b>A</b>	125 125
Sennheiser HD250II	D	<u> </u>	150
Sennheiser HDC 451-1	D	20	150
Sennheiser HD565 Ovat'n	D	40	150
Sennheiser HD25-13	D		160
Sennheiser HD25	D	1 <u>0</u> 1	160
Sennheiser HD 580 P'cision Sennheiser HD600	D	100	200 250
Sennheiser Lucas	D	IOI	280
Sennheiser IS850	D		859
Sennheiser HE60/HEV70	-	40	998

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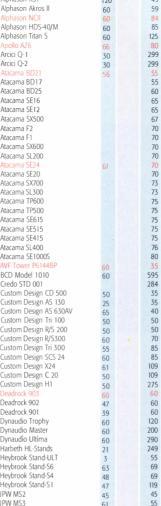
Sennheiser Orpheus

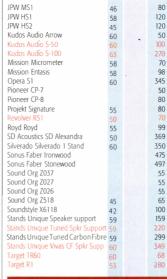
Sony MDR-IF120K Sony MDR-E888

Sony MDR-V600	HEADPHONES (	CONT	NUE	D)
Stax Lambda Nova Basic   E   G   445	Sony MDR-IF125RK Sony MDR-V600 Sony MDR-F1 Sony MDR-INC5 Sony MDR-INC5 Sony MDR-CD770 Sony MDR-ED77 Sony MDR-ED77 Sony MDR-ED770 Sony MDR-ED770 Stanton DJ Pro 101/HB Stanton DJ Pro 1000 Stanton DJ Pro 1001 Stax SR-0001	D D D D D D D D D D D D D D D D D D D		60 70 100 100 100 130 150 200 65 95 150 280
Technics RP-HT600 D G G G Technics RP-D11200 D G G ISI Vivanco SR850 D G S ISI Vivanco SR850 D G S S S S Vivanco SR850 D G S S S S S S S S S S S S S S S S S S	Stax Lambda Nova Basıc Stax SR-Lambda Nova S	E	**	370 449 450 50
Vivanco SR650         D         ≦         55           Vivanco FMH 3000         D         ≦         66           Vivanco SR750         D         ≦         66           Vivanco IR6000         D         ≦         7           Vivanco SR999         D         ≅         7           Vivanco IR7600         D         ≅         100           Vivanco SR1000IFL         D         ≅         100	Technics RP-DJ1200 Vivanco IR5800	D D	(A)	130 50
Vivanco SR909         D         Control         70           Vivanco IR7600         D         Control         100           Vivanco SR1000IFL         D         Control         100	Vivanco SR650 Vivanco FMH 3000 Vivanco SR750	D D D		50 60 60
	Vivanco SR909 Vivanco IR7600 Vivanco SR1000IFL	D D	÷0 ÷0	70 100 100 120



Alphason RS1	120	4
Alphason Akros II	60	5
Alphason NCII	60	8
Alphason HDS-40/M	60	8
Alphason Titan S	60	12
Apollo AZ6		8
Arcici Q-1	66	29
Arcici Q-2	30	29
Atacama BD21	30	5
Atacama BD17	56	5
Atacama BD25		6
Atacama SE16		6
Atacama SE12		6
Atacama SX500		6
Atacama F2		7
Atacama F1		7
Atacama SX600		7
Atacama SL200		7
Atacama SE24	61	7
Atacama SE20		7
Atacama SX700		7
Atacama SL300		7
Atacama TP600		7
Atacama TP500		7
Atacama SE615		7
Atacama SE515		7
Atacama SE415		7
Atacama SL400		7
Atacama SE1000S		8
AVF Tower P6144BP	60	3
BCD Model 1010	60	59
Credo STD 001		28
Custom Design CD 500	50	3
Custom Design AS 130	25	3
Custom Design AS 630AV	65	4
Custom Design Tri 100	50	5
Custom Design R/S 200	50	5
Custom Design R/S300	60	7
Custom Design Tri 300	55	8
Custom Design SCS 24	60	8
Custom Design X24	61	10
Custom Design C 20	50	10
Custom Design H1	50	27
Deadrock 903	60	6
Deadrock 902	47	6
Deadrock 901	39	6
Dynaudio Trophy	60	12
Dynaudio Master	60	20
Dynaudio Ultima	60	29
Harbeth HL-Stands	21	24
Heybrook Stand-ULT	3	5
Heybrook Stand-S6	63	6
Heybrook Stand-S4	48	6
Heybrook Stand-S1	47	119
JPW MS2	45	4
JPW MS3	61	5







## EQUIPMENT SUPPORTS Hi-Fi Tables

60 – Height of stand in	cm	
Alphason SM17	1	49
Alphason VSM17	1	85
Alphason GSM17	1	85
Alphason GMV1P	1	110
Alphason R17/17	3	120
Alphason GMH1P	1	150
Alphason GR17/17	3	150
Alphason VR17/17	3	190
Audiophile Base 01	1	79
Audiophile S4T120	4	280
Audiophile S4T120P	4	560
BCD Model 1006/8 BCD Model 1000	1	795 1.250
Custom Design G3	3	1,230
Custom Design Aspect 650	4	240
Custom Design Aspect 500AV	3	270
Custom Design Aspect 850	5	270
Deadrock 701	1	60
Deadrock 802	2	90
Deadrock 703	3	130
Deadrock 704	4	190
Deadrock 705	5	230
Fi-Rax R4	6	399
Frameworks H175	1	130
Frameworks FS1		150
Frameworks FT2		285
Frameworks FT3 Frameworks H700		350 355
Frameworks H900		389
Frameworks H500/H175	3	404
Heybrook Stand-Signature	4	249
Impulse Iso-plate		190
JPW 3 Tier	3	80
JPW 5 Tier	5	100
Kudos Audio Corinthian	5	600
Linn K3000		85
Mana Sound Frame		125
Mana Mini Table		150
Mana Power supply table		150 150
Mana Reference flat top Mana Sound Shelf		175
Mana Sound Base		175
Mana Sound Stage		200
Mana Sound Table		235
Mana Ref Shelf		325
Mana Reference Table		350
Mana 2 Tier Amp stand		375
Mana 3 Tier Amp Stand		450
Mana 4 Tier Amp Stand		500
Mana 5 Tier Amp Stand		600
Mana 6 Tier Amp Stand		700
Mission Hark Optimum G2	-	298
Optimum G2/Pedestal	2	69
Optimum G4/Pedestal	2 5	130
Opamani Otyl Cucsiai	2	150

### **HI-FI CHOICE WEBSITE** Why not use our exclusive interactive hi-fi buying guide? Find us on the Web at: http:// www.hifichoice.co.uk. See You There!

45	0.5			
42	100	Optimum OPT 3406	3	149
59	159	Optimum G5/Pedestal	6	150
	220	Optimum OPT 4906	4	199
ort 59				
re 59	299	Optimum OPT 6606	5	249
P 60	349	Optimum OPT 340	3	249
60	68	Optimum OPT 490	4	299
	280	Optimum OPT 440		299
53	200		4	
	-	Optimum OPT 10206	6	299
		Optimum AV 300	3	329
		Optimum OPT 700		349
NO. AND PACKAGE			5	
		Optimum OPT 610	5	349
		Optimum OPT 660	5	349
		Optimum OPT 1020	6	399
		Optimum OPT 1190	7	450
		Projekt A3	3	145
THE RESERVE OF THE PARTY OF THE		Projekt A4	4	190
0.00		Projekt A5	5	235
TO A NO.				
		Projekt B3	6	255
		Projekt A6	6	280
100		Projekt B3i	6	300
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STATE OF THE PARTY		Projekt B4	8	340
		Projekt B Multi	8	345
		Projekt B3ii	7	345
UPPORT		Projekt C3	9	375
UPPUKI	<b>5</b>			
		Projekt D3	12	420
		Projekt C3i	8	420
	100 pt 200	Projekt B5	10	425
				465
in cm		Projekt C3iii	11	
III GIII		Projekt C3 ii	10	465
	7.545.01	Projekt D3i	12	500
1	49	Projekt C4	12	500
1	85	Projekt C3iv	10	510
1	85	Projekt D3ii	14	545
1	110	Projekt C Multi	9	555
		Projekt D4		
3	120		16	560
1	150	Quadraspire Q4S mini shelf	1	65
3	150	Quadraspire Q4S shelf	1	65
3	190	Quadraspire QKS Cabinet shelf	i	80
1	79	Quadraspire QAV shelf	1	130
4	280	Quadraspire Q4M mini table	4	250
4	560	Quadraspire Q4 table	4	250
1	795	Quadraspire Q4SP Table	4	320
3	1,250	Quadraspire QAV table	3	350
3	130	Quadraspire QAVSP Table		400
4	240	Quadraspire QK Cabinet	4	450
3	270	Reson DOMOPS	1	195
5	270	Reson DOMOWS	1	195
	60			
1		Sound Org Z022	1	65
2	90	Sound Org Z021	2	78
3	130	Sound Org Z030	3	100
	190	Sound Org Z060		120
4			4	
5	230	Sound Org Z038	5	135
6	399	Sound Org Z540	4	140
	130	Sound Org Z545		140
1			4	
	150	Sound Org Z560	5	160
	285	Sound Org Z530	3	170
	350	Soundstyle X300	3	180
	355	Soundstyle X305	3	210
	389	Soundstyle X053	4	210
3	404	Soundstyle X050	4	210
4	249	Soundstyle X6300	3	215
4				
	190	Soundstyle X100	4	220
3	80	Soundstyle X6110	4	230
5	100	Soundstyle X058	5	240
	600			250
5		Soundstyle X310	3	
	85	Soundstyle X105	5	250
	125	Soundstyle X6053	4	255
	150	Soundstyle X6100	4	265
	150	Soundstyle X6310	3	275
	150	Soundstyle X6058	5	290
	175	Soundstyle X6105	5	300
	175	Soundstyle Finewoods W105		320
			5	
	200	Stands Unique Isolation Platform	1	52
	235	Stands Unique Sound Support	4	249
	325	Stands Unique Sound Tower	5	289
	350	Stands Unique Compact Sound Supp		315
	375	Stands Unique Sound Support 10	4	315
	450	Stands Unique Sound Twr Cabinet	5	369
	500	Stands Unique Ref Wall Support		550
			1	
	600	Stands Unique Ultimate Tower	10	689
	700	Stands Unique Ref Floor Support	6	799
	298	Target B5		175
	-0000000		5	
2	69	Townshend Seismic Sink 1-CD		110
2	99	Townshend Seismic Sink 1-3D		400
5	130	Townshend S/Sink Stand 1-4	4	999
		-, -, -, -, -, -, -, -, -, -, -, -, -, -	36	

o Don't discount the value of a good quality support, like this Optimum International OPT 490G, i you want to get the best from your sources and amps.

Townshend Seismic Sink 3-4 Vibraplane Passive Vibraplane Active Wilson Benesch Standard Shelf Wilson Benesch Mono Block Wilson Benesch Kevlar Shelf Wilson Benesch Asside Basic Wilson Benesch Asside Wilson Benesch Triptych

Technics SB-CS65 1,250 1.895 Technics SB-CS75 3,600 Visonik 5202 130 265 270 590 720

Gale 3i

Genexxa GX650

GLL Imagio IC100

Infinity Reference 11i

Interaudio XL2000

Jamo Cornet 165

Jamo Cornet 65

Jamo Studio 180

Jamo 38

Jamo 525

Jamo 660

Jamo D165

JBL TLX121

JPW ML610

JPW SS551

KEE O15

KEF Model 60S

Jamo 68

IBL LX20

Infinity SM65

W'dale Valdus 100 W'dale Diamond 7.1 W'dale Valdus 200 W'dale Modus Micro

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£131 TO £200

Acoustic Energy AF100 0 Allison Model 4A B&W CWM5 0 \* a) 여러취 여러취 취 이 여러 Bose 201 IV Boston CR6 Boston 325 Boston Micro 80 Sat Boston Runabout Boston 335 Boston 351 Boston CR7 Boston Runabout II Celestion 15i rwin-Vega CT-165 1 Denon SC-E313

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Mordaunt-Short VS-200 Mordaunt-Short MS20i Pearl 0 四十四四十四十 Mordaunt-Short VS-300 000000 Paradigm Titan Pioneer CS-5030 Polk M2 Polk RT3 Polk AB610 Rega Kyte 0 0 0 Revolver The 230 Revolver Purdey MkII R Allen Minette 3 0000 一十四日 R Allen Dim'n 5/1 Compact R Allen RA6 의 미 **취** 0 0 Royd A7X Sequence 200 # ID ID Solid Mo 0 0 0 Sony SS-126EB Sony SS-176E 和 0 Tangent Monitor 11 三十二 0 0 Tannoy Mercury M2 TDL Nucleus 3 Technics SB-CS95 0 Visonik 6003 Visonik 5001 0 0 0 W'dale Valdus 300 W'dale Modus Music Two 0 o W'dale Diamond 7.3 ¥

本四四十 000 KLH 183A KLH Soundbites System 和 四 四 0 0 KLH Model 81 KLH Model 41 0 0 M-A Monitor 1 M-A Monitor 2 Mordaunt-Short MS30i Mordaunt-Short MS10i Classic -0 00000000 NAD 802 NHT SuperZero Paradigm Mini Monitor 1 Paradigm Monitor 5 Pioneer CS-7030 土 Pioneer CS-9030 Pioneer S-LC1 四利利利四利 Polk AB505 00000 Polk M3 II Polk RT5 Polk RT7 Polk M5 Promenade SP1 0 Rega EL8 er The 250 **长回四** 0 R Allen Dimension Five 1 R Allen RA8 0 R Allen RA8M R Allen Dimension Five 2 Rogers GS3 Royd The Envoy 10 10 0 0 利の利の利 0 0 0

Heybrook Optima

Interaudio XL3000

Interaudio XI 4000

Jamo Cornet 175

Jamo Classic 4

Jamo Art

Jamo D265

Jamo 307A

JBL TLX151

JPW ML710

IPW ML810

JPW ML910

JVC SX-SW10

KEF Model 70S

Ruark Epilogue

Sequence 300 Solid HCM1

Sony SS-176EB

Visonik 7003

Visonik SUBS

Tannov Mercury M3

Tannoy Precision P10

KFF Coda 9

KLH 83A

JBL LX2

Infinity SM85

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### LOUDSPEAKERS

± – Floorstander; larger models requiring no separate stand. ■ – Stand mount; smaller models designed to be raised above the floor. on the wall or mounted in-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 0 0 0 Allison Mini References 120 Ariston MSX 05 80 Denon SC-M2 Gale Mini Monitors 70 Gale Gold Monitors 80 Genexxa GX300 Genexxa GX330 80 GLI Arena 90 Goodmans Active 75 65 Interaudio XI 1000 130 Jamo Studio-80 70 Jamo SAT-90 90 7 0 0 0 0 0 0 0 0 0 0 0 0 Jamo Cornet 25 100 Jamo D-110 Jamo SAT-170 Jamo Studio-110 Jamo Cornet 145 Jamo Cornet 35 Jamo Artina 120 Jamo D-115 Jamo 28 125 -0 JPW ML110 -0 IPW MI 310 10101 0 JPW ML410 JPW ML510 JVC SX-SC1VBK 00000 1日日刊刊 JVC SP-V50 JVC SP-X220TBK JVC SP-X550BK Kenwood LS-90UK 0 0 Mordaunt-Short VS-100 0 00000000 NAD 801 9 Paradigm Micro Paradigm Atom Pioneer CS-3030 和田田 Polk AB410 Realistic Minimus 26 Realistic Minimus Pro-77 30000 R Allen Minette 2 Solid HCM2 Sony SS-86E Tangent Monitor 3 Tangent Monitor 5 120 75 00000 TDL Nucleus 1 

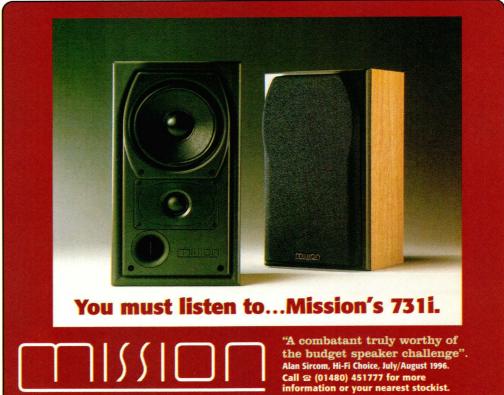
TDL Nucleus 2

TEAC LS-X8 Mk I

Technics SB-CS55

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£201 TO £300 Acoustic Energy AF200 . Audio Gem Opal 0 B&W CWM6i ₹ 280 可四四十四十四四四 Bose 151 0000000 220 Bose 301 IV 300 Boston 361 219 Boston CR8 239 259 279 Boston CR9 Boston Voyager 299 1日本日本 0 0 0 250 Cerwin-Vega VS-8 Cerwin-Vega CT-330 300 00000 Chario Ref 100 299 Chario Hiper 1000 299 Dali 150 300 Faraday FS1 00000 245 千千百 220 Gale 5i GLL Imagio IC110 260 GLL Imagio IC115 +1



SPEAKERS (CONT	INU	ED)	
W'dale Modus Music Four W'dale MFM1 W'dale Valdus 500 Yamaha NS10M ZYP A1 ZYP A2S	미 다 및 머미 머	0 0 0 0	230 250 300 300 219 295
£301 TO £500 Acoustic Energy AE109	Ŧ		350
Acoustic Energy AE120 Allison Model 2A AVI Neutron B&O Beovox CX50 B&O Beovox CX100 B&W CWM8i B&W DM305 B&W CDM2 B&W DM305 B&W CDM2 Bandor Pictures Blue Room Mini Pod Boston Micro 90 Sat Boston Micro 90 Sat Boston VR20 Castle Tay Castle Eden Castle Kendal Celestion 25i Celestion 30i Celestion 30i Celestion 30i Celestion 30i Celestion 35i	**************************************		500 420 499 325 425 350 400 500 500 369 369 380 350 470 500 399 449 499
Cerwin-Vega V5-10 Chario Syntar 100T Chario Syntar 100T Chario Ref 1000 Clements 300si Dali 104B Dali 606 Dali Royal Def Tech Celsius Dynaudio Audience 5 Epos ES12 Faraday SG Faraday STen GLL Imagio IC120 GLL Imagio IC130 Heybrook Heylios Heybrook Heylio Infinity SM105 Infinity SM115	***************************************		350 399 499 395 370 400 500 395 400 499 345 440 500 389 439 350 400
Infinity SM125 Jamo Classic 6 Jamo Cornet 75 Jamo Cornet 195 Jamo BX-100A Jamo 98 Jamo 407A Jamo 3365 Jamo Cornet 95 Jamo Cornet 95 Jamo Classic 8	**************************************		500 330 330 350 350 350 350 400 400

Jamo Graphic		0	400
Jamo 128	¥	0	450
Jamo BX-150A	和	0	450
Jamo Atmosphere	4	. 0	480
Jamo 477A	Ŧ	0	500
JBL LX60	¥	0	350
JBL LX6	¥	0	350
JBL TLX161	<u>=</u>	0	400
JBL PS8	<u>=</u>	0	500
JBL TLX171	Ŧ	•	500
JM Lab Micron JM Lab Megane	0	0	395 495
Jordan Watts JHFLG	<u>=</u>	0	380
JPW SS553	±	0	400
JPW ML1010	Ŧ	o	400
JPW Ruby 1	9	0	400
JPW Ruby 2	0	0	500
KEF Q35	¥	0	349
KEF Q55	Ŧ		499
KEF RDM One	-	0	499
Keswick Aria II KLH 283A	2	0	379
KLH 383A	Ŧ	0	310 335
KLH Model 51	和	0	375
KLH Model 71	7	0	420
KLH Model 62T	Ŧ	0	486
Linn Sekrit	<b>±</b>	0	395
Magnat Vector 55	¥	0	349
Magnat Vector 77	Ŧ	0	449
Mission 733i	Ŧ	0	330
Mission 751f Mission 734i	<u>-</u>	0	348
M-A Monitor 3	#	0	499
M-A Monitor 4	和	0	500
Mordaunt-Short MS25i Pearl	Ŧ	ō	330
Mordaunt-Short MS40i	Ŧ	0	450
Mus Tec Harrier	¥	0	400
NAD 804	Ŧ	0	400
Neat Critique	<u>=</u>	0	385
NHT SuperOne	<u>-</u>	0	338
NHT Model 1.5 Opera Duetto	9	0	450
Origin Live OL-1AS	<u> </u>	0	395 399
Origin Live Octavas	-	0	399
Paradigm Monitor 7	0	0	330
Paradigm Studio/20	0	0	350
Paradigm Monitor 9	¥	0	400
Pentachord A	9	0	469
Pioneer S-LC2	Ŧ	0	450
Polk AB705	<b>±</b>	0	330
Polk RT8 Polk RT10	Ŧ	0	400
Polk AB805	中	0	500 500
Prof Monitor Co TB1SM	2	0	403
Prof Monitor Co TB1		0	410
Prof Monitor Co TB1S	9 9	ō	430
Prof Monitor Co TB1M	0	0	447
Prof Monitor Co XB1	9	0	499
Promenade SP2	<u>=</u>	0	399
Promenade SP3	Ŧ	0	499
Rega Jura	Ŧ	0	450

Rega ELA MkII Revolver The 260 R Allen Dimension Five 3 R Allen Dimension Five 4 Rogers GS5 Rogers GS6 Rogers GS6 Rogers GS7 Royd Doublet Ruark Icon Sequence 400 Solid Verticale Spendor 2020 Spendor S1 Tannoy Precision P20 TDL RTL 35E TDL CTIL 35E TDL CTIL 35E TDL CTIL 35E TDL CTIL 35E TOL Chiltern CF100 Titan Midi Centre Technics SB-M300 Totem Mite Triangle Titus T2e Triangle Lunn Visonik TB1S W'dale Modus Music Six W'dale MFM3 W'dale MfM3 W'dale MfM3 W'dale MfM5 W'dale Modus Music Eight W'dale Modus Music I/6	**************************************	350 349 429 350 429 350 359 359 359 485 359 450 450 450 450 366 330 450 450 450 450 450 450 450 450 450 45
Acoustic Energy AE1-II Acoustic Precision Eikos FR1 Allison Model 3A Audio Gem Emerald Audio Note ANI-K/D Audio Note ANI-K/D Audio Note ANI-K/D BAU BENDE SENDE SE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	795 800 525 540 620 799 759 750 600 675 600 580 730 599 699 699 690 600 750 800 750

Diapason Micra II Dynaudio Audience 50	<u> </u>	0	750 577	
Epos ES14	0	0	675	
Faraday FS10 Harbeth BBC LS3/5A	1	<u></u>	795 699	
Harbeth HL-P3ES Heybrook Ultima	<u>+</u>	0	799 649	
Heybrook Quartet Infinity SM155	<b>₽</b>	0	649 550	
Jamo BX-200A Jamo Classic 10	Ŧ	0	530 600	
Jamo 507A	<u>₹</u>	0	700	
Jamo 707i JBL LX70	和	0	800 550	
JBL LX7 JBL TLX181	和	0	550 600	
JBL SVA1500 JBL L20	0	0	700 700	
JBL PS12 JM Lab Profil 55	¥	0	750	
JM Lab Opal 59 ti	和	0	625 750	
Jordan Watts JH200 Jordan Watts JH400	0	0	510 565	
JPW Ruby 3 KEF LS3/5a	₩.	0	800 649	
KEF RDM Two KEF Q65	和	0	699 799	
Kelly KT2	Ŧ	0	700	
Keswick Volante KLH Model 82Ta	和	0	729 690	
Linn Tukan Passive Linn Keilidh Passive	<u>₽</u>	0	550 750	
Magnat Vintage 710 Manticore Minaret	8 0	0	799 690	
Meridian A500	¥	0	750	
M&K S-85 Mission 752f	<u>+</u>	<u></u>	700 578	
Mission 735i Mission 753f	<b>±</b> I	<u> </u>	650 798	
M-A Studio 2SE M-A 700 PMC	<u>.</u>	<u> </u>	600	
M-A 702PMC	<u>=</u>	0	700	
M-A 703PMC Mordaunt-Short MS50ı	和	<u> </u>	800 550	
Mordaunt-Short MS30i Classic Mus Tec Falcon	业	0	600 575	
Naim Intro Neat Mystique 2	和	0	660 57 <b>5</b>	
Neat Petite II		0	745	
Opera Seconda Opera Operetta II	9	0	595 770	
Opera Platea Origin Live Resolution	<b>□</b>	0	795 732	
Origin Live Victory Paradigm Studio/60	和	0	750 650	
Paradigm Studio/80 Pentachord B	<u>=</u>	0	750	
Pentachord Pentode	₹ E	0	519 729	
Polk RT12 Polk RT16	业	<u></u>	600 799	
Polk LS50 Proac Tablette 50	业	0	800 599	
Proac Studio 100 Promenade SP4	9	0	699 650	
Quad 10L	₩.	0	600	
Rogers GS9 Rogers LS3/5A	<u>+</u>	<u></u>	579 699	
Rogers C6/25 Roksan ROKone 1	<u>□</u>	0	799 <b>595</b>	
Roksan Ojan 3 Royd The Sorcerer	四年四	0	795 595	
Royd Abbot	¥	0	695	
Ruark Templar II Ruark Sceptre	¥1	0	599 599	
Ruark Talisman II Ruark Prologue One	<b>₹</b>	0	749 799	
SD Acoustics SD3R Shinpy Polarys		0	649 595	
Silverado Raider Sonus Faber Concertino	9	0	695 599	
Spendor 2030	₩	0	599	
Spendor LS3/5A Spendor SP3/1P	0	0	630 795	
T+A TB 100 Tannoy Precision P30	和	0	690 600	
Tannoy Definition D100 Tannoy Precision P40	₹ F	0	689 800	
TDL Cotswold CF200 TDL RTL 4	±	0	650	
TDL T-Line 3	±1 ∓1	0	700 700	
Titan Mini T2 Titan Mini T3	9	0	700 799	
Totem Rokk Triangle Comete TZe	9	0	695 525	
Triangle Zephyr W'dale MFM7	和	0	799 650	
<b>E801 TO £1500</b> Acoustic Energy AE505	刊	0	850	
Acoustic Energy AE509 Acoustic Energy AE2-II	Ŧ	0	1,000	
Acoustic Energy AE520	<u>∓</u>	0	1,200	
Acoustic Solutions Eight Alon I Mk II	和	0	1,200	
Ambience Mod. 4.0 Apertura Prima	五	0	1,185	
Apertura Nova	Ŧ	0	1,395	



£801 TO £1500	EV. WIN		ı
Acoustic Energy AE505	Ŧ	<b>a</b> 8	5
Acoustic Energy AE509	<b>±</b> I	0 1,0	0
Acoustic Energy AE2-II		0 1,0	9
Acoustic Energy AE520	<b>±</b> 1	0 1,2	0
Acoustic Solutions Eight	0	0 1,2	0
Alon I Mk II	+1	0 1,5	0
Ambience Mod. 4.0		0 1,1	8
Apertura Prima	<b>±</b> I	0 1,0	9
Apertura Nova	11	D 17	a

ATC SCM10	<u>.</u>	0	999
Audio Note AN-J/D Audio Note AN-K/SPx	<u>n</u>	0	930 1,060
Audio Note AN-E/B Audio Note AN-J/SPx	<u>+</u>	0	1,299 1,415
Audio Physic Step Audiovector M1 Super	9	0	1,299 999
Audiovector M2 Audiovector M1 Sig	Ŧ	0	1,399 1,449
AVI Positron	<u>≠</u>	<u></u>	899
B&O Beolab 4000 B&W P5	和	0	1,100 875
B&W CDM7 B&W DM604	和	0	1,000
B&W P6 B&W Matrix 805 V	<u>≠</u> I	<u></u>	1,095 1,095
Bandor Trident Bandor Mora	9	0	846
Bandor Bandora	和	0	1,260 1,340
BKS Audio Hybrid 107 Bose A'mass AM5	五	0	1,500 900
Bose 701 Boston VR40	보	0	1,000 1,000
Cabasse Farella 400 Castle Harlech	中	0	950 880
Castle Howard S2 Celestion A1	₽ *I	0	1,200 899
Celestion A2	<b>业</b>	0	1,499
Cerwin-Vega AL-1000 Cerwin-Vega 1515	和	0	1,100
Chario Ref 1000T Chario Academy 1	<b>±</b>	0	999
Clements Reference 1 Dali 850	<del>+</del> 1	0	995 1,100
Def Tech BP8B Def Tech BP10B	<b>±</b> I	0	1,000
Diapason Prelude II	<u> </u>	0	1,500 875
Diapason Karis Dynaudio Contour 1.1	=	0	1,250 879
Dynaudio Contour 1.3 Electrocompaniet EC-Qube	0	0	1,198 1,195
Electrocompaniet EC-Qube SE Epos ES22	<u>n</u>	0	1,495 1,185
Harbeth HL-K6 Harbeth HL-Compact 7	9	0	1,049 1,499
Harbeth BBC LS5/12A Heybrook Sextet	<u>.</u>	0	1,499 1,299
Impulse Kora	<b>±</b> I		1,250
Jamo Concert 8 JBL L40	五	0	1,300
JBL PS15 JBL SVA 2100	<b>±</b> I	0	1,000
JBL L80 JBL L90	<b>±</b> I	0	1,250 1,500
JM Lab Profil 77 JM Lab P.S 5.1	<u>+</u>	0	1,050 1,250
JM Lab Spectral 909.1 Jordan Watts JH1+1	<b>₹</b>	0	1,375 995
JPW Ruby 4 KEF Q75	<b>±</b>	0	1,000 999
KEF Ref. Model One	和	0	1,199
Kelly KT3 Keswick Torino	事	0	1,200 999
Keswick Figaro Evolution Keswick Milano	<b>∓</b> I	0	1,099
Keswick Legato Keswick Amber	<b>∓</b> 1	0	1,199 1,499
Linn Tukan Aktiv Linn Keilidh Aktiv	<b>∓</b> 1	0	1,050 1,250
L Voice Auditorium Lowther Accolade 2	<b>+</b> 1		1,500 1,199
Lumley I./M3.5	Ŧ	0	1,050
Magnet Vintage 720 Magneplanar SMG-C SE	<b>∓</b> 1		1,199
Magneplanar MG-0,6 SE Meridian Argent 1	五		1,370 995
M&K S-125 Mission 754f	<u>₽</u>	0	1,150
M-A Studio 12 M-A 705PMC	和	0	1,000
Mordaunt-Short Perf 820 Mus Tec Condor	<b>业</b>	0	1,495
Mus Tec Hawk Mus Tec Eagle	<b>业</b>	0	1,250 1,500
Naim Credo	<u>≠</u> I	0	1,060
NHT VT-1.2 NHT Model 2.5	취	0	999 1,299
Opera Terza Opera Callas Gold	五	0	999 1,050
Opera Divina II Origin Live Soveriegn	보	0	1,500 975
Paradigm Studio/100 Polk LS70	<b>±</b> I	0	950 1,200
Polk RT20p Proac Tablette 50 SIG	<u>+</u> I	0	1,500 899
Proac Response 1 SC Prof Monitor Co LB1	<u>=</u>	0	1,199 935
Prof Monitor Co AB1	9 9	0	1,496
Rega XEL RMS Revelation S 1	业	0	1,040
Rogers C6/28 Roksan Ojan 3X	和	0	1,399 995
Royd The Albion Ruark Broadsword II	<u>n</u>	0	985 899
Ruark Paladin Shahinian Super Elf	<u>+</u>	0	1,099 875
Shahinian Compass	Ŧ	0	1,395

H I - F	I	ľ	ĸ
Shinpy Micraphonica Silverado Ryder Sonus Faber Minuetto Sonus Faber Concerto Spendor SP4/3E Spendor SP1/2E T-A TAS 1200E T-A TB 120 Tannoy Definition D300 TDL Cheviot CF300 Technics Se-M1000 Titan Tower T4 Totem Model One Triangle Antal Vandersteen 2Ce Visonik LB1			1,099 1,395 898 1,098 899 1,050 1,390 990 999 850 1,500 1,175 1,099 1,395
Acoustic Energy AEL Sig Acoustic Energy AEL Sig Alon II Mk II Ambience Mod 3.2 Apertura Agora Signature Apertura Tanagra Apertura Tanagra Sig. ATC SCM20 AUdio Note ANE-(SPx Audio Physic Spark 2 Audio Physic Tempo Audiovector M3 Sig Avalon Monitor BAC Beolab 6000 BAC Beolab 8000 BAC Beolab 8000 BAC Beolab 8000 BAC Beolab 8000 BAC Beolab Penta 3 BAW Matrix 803-2 BAW Matrix 804 BAW Matrix 803-2 BAW Matrix 804 BAW Matrix 803-2 BAW Matrix 802-3 BAW Matrix 802-3 BAW Matrix 802-3 BAW Matrix 802-3 BAW Matrix 804 BAW Matrix 803-2 BAW Matrix 803-2 Canver AL-111P Cary SP-301 Celestion Lynfield 300L Bravura Virtuoso Bronze Carver AL-111P Cary SP-301 Celestion A3 Celestion Kingston Chario Academy 2 Chord LS5/12A Chord CEL 201 Chord CEL 201 Chord CEL 301 Clements Reference 7 Credo SPB 003 Credo SPB 003 Credo SPB 009 Dali Grand Coupe Def Tech BP2002 Diapason Adamantes III Diapason Adamante	메이쥐미메쥐쥐메리미 <mark>최</mark> 쥐쥐미쥐쥐쥐쥐쥐쥐미리쥐쥐쥐쥐쥐메메쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐쥐	00000000000000000000000000000000000000	1,695 2,695 2,695 2,300 1,780 2,295 2,795 1,599 1,520 2,250 1,749 1,999 1,520 2,495 2,495 2,495 2,495 2,495 2,100 2,650 1,650 1,650 1,650 1,695 1,995 2,130 2,755 1,820 2,000 2,650 1,699 1,699 2,699 2,795 2,850 1,895 2,130 2,755 1,820 2,795 2,130 2,755 1,820 2,795 2,130 2,755 2,850 2,999 1,999 1,999 1,999 1,999 1,999 1,999 1,999 1,890 2,299 1,890 2,299 1,890 2,299 1,890 2,299 1,890 2,399 1,999 1,850 1,850 2,850 2,850

Paragon Jubilee Pentachord P'column 1,995 1,649

Polk LS90 Posselt Albatross Proac Response 2S Proac Response 2S Proac Studio 250 Proac Response 2.5 Prof Monitor Co (IB1S Rehdeko RK115 Rogers LS5/9 Ruark Crusader II Ruark Equinox Ruark Accolade SD Acoustics SD15 SD Acoustics SD15 Shahinian Arc Shahinian Obelisk Shinpy Euritmica Shinpy Altair Silverado Silverado 1 Sonus Faber Minima Amator Sound-Lab Quantum Spendor SP7/1 Spendor SP7/1 Spendor SP100 T+A TB 140 Tannoy Definition D500 Tannoy Stirling TW Tannoy Definition D700 TDL Studio Monitor-m Totem Mann-2 Triangle Altinis Triangle Extan Wilson Benesch Orator	**************************************		1,700 2,500 2,000 2,249 2,749 2,700 1,549 1,549 2,699 1,849 2,699 1,859 2,895 2,895 2,895 1,995 1,995 1,995 1,995 1,995 1,995 2,000 2,500 2,750
Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III Alon Adriana Alon Circe Alon Phalanx Ambience Mod 5.0 Apertura Athena Arc ScM200A ATC SCM50A AUG Note AN-SES Silver Audio Note AN-SES Silver Audio Physic Virgo 2 Audio Physic Wirgo 2 Audio Physic Medea Audio Physic Medea Audio Physic Medea Audiovector 5X Audiovector 5X Audiovector 6X Avalon Avatar Avalon Acis Avalon Adaria Avalon Acis Baw Silver Signature Baw Nautius Bandor Bandoline Bandor Bandorindora BKS Audio Hybrid 175 Boston Lynfield 500L Bravura Virtuoso Gold Bravura Virtuoso Gold Bravura Virtuoso Reference Bravura Accelerando Chario Academy 3 Credo SPB 012 Credo SPB 014 Credo SPB 015 Credo SPB 015 Credo SPB 015 Credo SPB 016 Credo SPB 017 Credo SPB 017 Credo SPB 017 Credo SPB 018 C	파 및 및 및 파 파 및 및 및 및 및 및 및 및 및 및 및 및 및 및	000008	7,995 3,495 3,495 4,995 8,500 9,500 6,995 8,995 10,500 9,500 10,599 10,5

Lowther Opus One	¥		4,99
Lumley I./M 2 Sig. Mk3	<b>±</b> I	0	4,50
Magnat Vintage 770	Ŧ	0	3,50
Magneplanar MG-3.5SE	¥		3,80
Magneplanar MG-20 SE P	±		10,30
Magneplanar MG-20 SE A	<b>±</b> I		11,00
Martin-Logan SL3	Ŧ		3,49
Martin-Logan CLS Ilz	¥		4,55
Martin-Logan Re-Quest	Ŧ		5,875 7,440
Martin-Logan Monolith S Martin-Logan Monolith IIIP	Ŧ		8.550
Martin-Logan Monolith IIIXPB	취		11,900
Meridian DSP5000	41		3 29
Meridian DSP5500	Ŧ	0	5,950
Meridian DSP6000	41		9.400
M-A Studio 50	#	0	4.000
M-A Studio 60	Ŧ	0	6,000
Naim DBL Active	Ŧ	0	7,414
Neolith NEO 2	9	0	3,499
Neolith NEO 3	¥	0	4,999
NHT Model 3.3	±I	0	3,500
Paragon Regent	<b>±</b> 1	0	3,490
Proac Response 3.5	#	0	4,250
Proac Response 5	<b>±</b> I	0	9,000
Proac Response 4	Ŧ	0	12,000
Prof Monitor Co MB1P	<u> </u>	0	4,370
Prof Monitor Co BB5 A	<u>-</u>	0	16,688
Quad ESL63 Rehdeko RK 125	4	4	3,450
	_	0	3,200
Rehdeko RK 145 Rehdeko RK 175	=	0	4,800 8,800
Revel Gem	_	0	
Rockport Syzygy	_	0	5,295
Rockport Procyon	취 취	0	32,500
Shahinian Hawk	퐈	0	4,995
Shahinian Diapason	퐈	0	8,895
Shinpy Enigma	Ŧ	0	3,995
Shinpy Euphonia	Ŧ	0	5,995
Shinpy Magnifica Suprema	Ŧ	0	14,500
Shun Mook Bella Voce	¥	0	6,800
Sonus Faber Electa Amator	9	0	3,293
Sonus Faber Extrema	<u>=</u>	0	6,500
Sound-Lab Dynastat	¥		3,790
Sound-Lab Aura	Ŧ		6,490
Sound-Lab Pristine III+	Ŧ		7,990
Sound-Lab A-3	₹		11,990
Sound-Lab Ultimate II	¥		13,950
Sound-Lab A-1	<b>±</b> I		13,990
Sound-Lab Ultimate III	¥		18,950
Sound-Lab Ultimate I Spendor SP9/1	和		23,950 3,450
T+A AD4		_	3,430
T+A AD3	和和	0	4,660
T+A AD2	和	0	8,590
Tannoy Edinburgh TW	Ŧ	[]0	3,250
Tannoy Definition D900	Ŧ	0	3,999
Tannoy GRF Memory TW	Ŧ	0	4,000
Tannoy Westminster TW	41	D	6,600
Tannoy Canterbury 15 TW	¥	D	7,720
Tannoy Westminster Royal	Ŧ	D	14,920
TDL Ref Standard-m	Ŧ	0	6,000
Triangle Nemo Altiar	¥	0	-4,250
Wilson Audio Cub	¥	0	5,495
Wilson Audio WATT 5	9	0	8,750
Wilson Audio WITT	<u>B</u>	0	8,888
Wilson Benesch Actor	₹	0	3,800
Wilson Benesch ACT1 Spkr	#	0	6,857
		2.00	
200000000000000000000000000000000000000	-		



### SUBWOOFERS

KEY

Active; includes a dedicated power amplifier.

THY approved by Lucce.

THX-approved by LucasFilm 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		2,750
Audio Physic Terra	0		3,499
B&W ASW1000	0		500
B&W AS6	0		500
B&W ASW2000	0		800
B&W ASW3000	(2)		1,000
B&W Matrix 800ASW	(2)	THX	1,500
B&W Matrix 800ASW	0	THX	1,500
Boston CR400	0		300
Boston VR500	0		450
Boston VR2000	0	THX	800

## Factsback For access to past reviews see page 145

see page 145.		~	
SUBWOOFERS (CO	NT	INUE	D)
Celestion CS135			139
Celestion CSW MkII Celestion S1 i	0		329 349
Cerwin-Vega HT-10D	•		200
Cerwin-Vega HT-12D			250 299
Chario Syntar Bass Chario Hiper Bass			499
Credo SDC 001	0		3,054
GLL LE Bass H/K Citation 7.4	0	TERS.	350 875
Infinity SSW-10		u.M	500
Jamo SW303E	0		220
Jamo SW400E Jamo SW505E	0		330 400
Jamo Sub One	0		400
Jamo SW600e JBL Contol Sub 6	0		530
JBL PSW800	0		275
JBL Sub 10 JBL PSW1000	0		300 325
JBL PSW1200	0		375
JPW Subwoofer	-		130
JPW SW40 JPW SW60	0		199 350
JPW SW-120	0		500
KEF Model 20B KEF Model 30B	(A)		349 499
KEF Model AV1	0	THE	2,499
Kenwood SW500			250
Keswick Alto KLH ASW10-100	0		1,299
KLH ASW12-120	0		380
Linn AV5150 L Voice RW24	0		2,850
Magnat Vector Sub 30P			149
Magnat Vector Sub 30A Meridian M2500	0		299
M&K VX-7MkII	0		1,595 450
M&K V-75 MKII	0		650
M&K V-125 M&K V-125 (THX)	0	TEX.	800
M&K MX-70	0		900
M&K MX-150 (THX) M&K MX-200	0	THX	1,500
M&K MX-300	0	THX	2,500
M&K MX-5000 (THX)	0	THE	2,900
Mission 73AS Mission 75AS	0		450 548
Mordaunt-Short T2000	0		500
Mus Tec Sub Muse Model 22	(a)		650 1,890
Muse Model 18	0		3,790
Neat Gravitas NHT SW2Pi	<b>©</b>		1,095
Paradigm PDR10	0		250
Polk PSW50 Polk PSW150	0		350
Polk PSW300	0		500 750
REL Q50	0		375
REL Q-100E REL Strata II	0		495 575
REL Storm	0		695
REL Stadium II REL Stentor II	0		995 1,800
REL Studio II	0		4,000
Revel Sub-15	0		2,195
Revolver The Recoil R Allen Gold Sub	0		100 149
R Allen Dim'n Active	0		499
R Allen Magnum Active Rogers AB1	0		699 549
Rogers Sub-bass	0		679
Roksan Ojan 3S Seguence FW120			795 249
Solid PB100	0		350
Sony SA-W101	0		230
Sunfire True Sub TDL Nucleus SBR	0		1,450
Triangle Sat III	(2)		650
Tsunami TS200 Tsunami TS210	(Q)		300 400
Velodyne VA-68XII	0		399
Velodyne VA-810XII Velodyne VA-1012XII	0		599 699
Velodyne VA-1215XII	0		999
Velodyne FSR-12 Velodyne FSR-15	0		1,099
Velodyne FSR-15 Velodyne F-1800II	0		1,299
W'dale Modus Sub Bass			180
W'dale Modus Powered Sub Wilson Audio Puppy 5.1	0		350 8,450
Wilson Audio Whow III	0		12,500
Yamaha YST-SW40 Yamaha YST-SW80	0		140 180
	•		.00

Yamaha YST-SW150 Yamaha YST-SW300	0	280 350
	\\\f\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
TONEARMS		
© − Pivoted. # − Parallel track	ing.	
Air Tangont IC	4	+ 4600

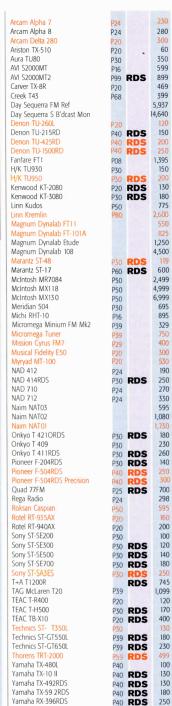
	3000	037.25	(Bas (C)
Air Tangent IC		#	4.600
Air Tangent 10B		#	8,600
Air Tangent Reference		#	14,000
Audio Note AN-ARM 1	0		169
Audio Note AN-0s	0		795
Audio Note AN-1s	0		995
Audiomeca SL5		#	2,500
Clearaudio TQ-1 Improved		#	1,950
Dynavector 507	9		1,995
Graham 1.5 Basic	0		1,695
Graham Mk 2.0 Helius Orion 4 Copper	0		2,650 549
Helius Cyalene 2	0		1,495
Kuzma Stogi	0		750
Kuzma Stogi Ref	0		1,250
Linn Akito	0		500
Linn Ekos	0		1,500
Manticore Musician II	9		595
Manticore Magician II	0		895
Manticore Magician 12	0		995
Moth Mk I	0		109
Moth MKIII Stainless	0		146
Moth Mk III Tungsten	0		174
Moth Moth 900	0		598
Naim ARO	0		1,040
N'ham Space	0		450
N'ham Paragon 3		#	550
N'ham Paragon 2 N'ham Mentor		#	800
N'ham Foot	0		800
N'ham Paragon 1	9	#	1,100
Rega RB250	0	++	109
Rega RB300	9		174
Rega RB900	0		598
Rockport Series 7000	9	#	6,000
Roksan Tabrız	0	77	320
Roksan Tabriz Zi	0		420
Roksan Artemiz	0		895
SME 3009 Ser II Imp	0		309
SME 3009 S2 Ser II Imp	0		338
SME Series II 3009-R	0		514
SME Series II 3010-R	0		526
SME Series II 3012-R	0		565
SME 309	9		689
SME 310 SME 312	9		705
SME Series IV	0		802
SME Series V	9.		983
Wheaton Music Tri-Planar 4i	0		3,000
Wheaton Music Tri-Planar 5i	9		3,250
Wilson Benesch Act 0.5	0		795
Wilson Benesch ACT2	0		1,350
Zeta AS	9		469
Zeta VDH	9		549
	Sec.		



ΤU	N	7	:	S
KEY				

'P20' (etc.)- Number of presets. RDS - Radio Data System; receives text information on station, programme type etc.

ı	Akai AT1200
L	ANDI ATTZUU
П	AMC T7





### **TURNTABLES**

⊙† - Arm included. **▼** - Cartridge included.

UP TO £500 Audio Note AN-TT 1

Addio Note Aiv-11 1
Dual CS435-1
Dual CS455
Dual 505-4 UK
Eclipse TT430
Genexxa Lab-710
Genexxa Lab-810
Kenwood KD-492F

Michell Mycro			455
Moth Alamo	<b>O</b> 1		199
Moth Kanoot Mkl Arm	01		279
Moth Kanoot Mk3 Arm	<b>⊙</b> 1		329
NAD 533	01	-	220
N'ham Interspace			500
Pioneer PL-J2500-C	01	-	80
Pioneer PL-990	<b>O</b> 1	-	130
Pro-Ject 0.5/OM10	<b>O</b> 1	• • •	170
Pro-Ject 1/510	01	-	210
Pro-Ject 2/520	01		325
Pro-Ject 6/MC15	01	-	500
Rega Planar 78	01		214
Rega Planar 2	01		214
Rega Planar 3	01		274
Roksan Radius			470
Sherwood PM8550	01	-	130
Sony PS-LX150H	01	-	90
Sony PS-LX300H	01	-	150
Systemdek I/920			136
Systemdek IIX/900	01		230
Systemdek I/920/Moth	01		235
Systemdek IIXE/900Ap			388
Systemdek 960			500
Systemdek 2X2			500
Technics SL-J110D	01	-	120
Technics SL-BD20	01		160
Technics SL-BD22	<b>O</b> 1	-	180
Technics SL-1210Mkll	01		400
Technics SL-1200Mkll	01		400
Thorens TD-180 AT91	01		190
Thorens TD-280 IV/UK	01		210
Thorens TD-166 VI/UK/RB	<b>O</b> !		400
Thorens TD-318 III TP50	<b>O</b> †		500

OVER £500

OVER £500			
Audio Note AN-TT 2			995
Audio Note AN-TT 3			1,995
Audiomeca Romance	01		1,895
Audiomeca J1	01		3,500
Basis 2000			1,995
Basis 2001			2,995
Basis Ovation II			5.400
Basis 2500			5,400
Basis 2800	01	_	7,495
Basis Debut Gold Std III	01	~	
			8,200
Basis Debut Gold Vacuum			10,300
Chantry QT Level 2	01		705
Clearaudio Evolution	<b>O</b> 1	-	1,790
Clearaudio Reference	•		3,990
ONM-Reson Rota 1	<b>O</b> !		3,900
DNM-Reson Rota 2	01	7.0	5,600
Impulse Moskito	<b>O</b> !		695
Kuzma Stabi			1,950
Kuzma Stabi Reference			3,750
Linn LP12 Basik			1,100
Linn LP12 Lingo			1,750
Manticore Mantra			895
Manticore Magister			4,400
Michell Gyrodek			875
Michell Orbe			1,995
N'ham Spacedeck			750
N'ham Graphic			1,200
N'ham HyperSpacedeck			1,500
N'ham Mentor			2,600
N'ham Anna Log			5,500
Oracle Paris			1,100
Oracle Delphi			3,370
Oracle Delphi 15th Anniv			3,800
Pink Triangle Tarantella			680
Rega Planar 9	<b>O</b> I		1.598
Reson RS1M	01		600
Reson Rota 1	01		3.900
Rockport Capella II			7,000
Rockport Sirius III	01		50,000
Roksan Xerxes 10	0.		1,295
Roksan TMS			2,750
SME Model 20/2			3,403
SME Model 20/2A	<b>O</b> !		4,863
SME Model 30/2	O,		10,675
SME Model 30/2A	01		12,135
Stratosphere ST1	01		6,500
Technics SL-1200LTD	01		700
Thorens TD-146 VI TP50	01		550
Thorens TD-2001 TP90	O†		700
Thorens TD-520 SME	0		1,050
Well Tempered Record Player	01		1,850
Well Tempered Classic	O		2,980
Well Tempered Super	01		3,900
Well Tempered Reference	01		5,300
Wilson Benesch Circle	01		795
Wilson Benesch WB Turntable			1,775
Wilson Benesch Full Circle	01		1,995

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190

70 60

70 100

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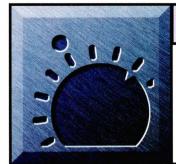
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## DIRECTORY OF TESTED PRODUCTS



## **Amplifiers**

The amplifier is at the heart of any hi-fi system, accepting the compact of various music sources, increasing the amplitude of their signal and then he amplifier is at the heart of any hi-fi system, accepting the outputs from driving the loudspeakers to produce sound. One-box 'integrated' amps rule the roost at low-to-middle price points, but if you pay more, the low-level and highlevel signal processes are separated into preamp and power amp boxes, and even separate 'outboard' power supplies come into play. Another luxury is a separate amp for each stereo channel: such devices are known as monoblocks. Finally, output power and sound quality are not necessarily related. Some of the finest amplifiers outputs only 12 Watts, but will yield loudness aplenty when partnered with high-efficiency loudspeakers.

### KEY TO SPECIFICATIONS

LINE INPUTS: Number of input | phono pickup cartridges. sockets for line-level (non-vinyl) sources 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 for moving coil (low output)

REMOTE CONTROL: An infrared handset to adjust volume etc. **HEADPHONE SOCKET:** An integral output for headphones. POWER OUTPUT (Watts):

Our measurement of an amp's RMS power output into 8 Ohms. **RECEIVER:** An amplifier with built-in radio receiver (tuner).

SPECIFICATIONS

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

**BEST BUY** 





STATUS	Amp	li	fiers	MM PHONO I	HONO	MEADA MOTE CON INPUTS	POWE HONES VIROL	R OUTPU OCKET	FACTSB, CENER TW	ISSUE NUMBE	R
ST	PRODUCT	(£)	COMMENTS		V	V	<b>V V</b>	V	V	VV	V
	Alchemist Maxim	319	Vivid and colourful-sounding amp, but just too bold and brassy		5	•			30	1737	154
	Alchemist Kraken APD6A	579	Compact, with Darth Vader styling, yet sound quality is meek and mild, despite strong midband dyn	namics	5	•			55	2150	175
	Alchemist Nemesis	700	Good if ultimately undistinguished amplifier whose strengths include warmth, authority and distinctive	ive aesthetics	6				80	2006	168
4	AMC 3025a	140	Surprisingly potent and easy on the ear, if not especially analytical — classic bargain-basement mater	rial, in fact	4	•	•	•	30	2045	171
4	AMC 3050a	170	Tremendous value for money, and a full, big, if rather uninformative sound		4	•	•	•	45	1970	167
	AMC CVT3030a	400	Beer-budget valve amp, with valve-like virtues (euphony with dynamics) and vices (system dependent	ncy, noise)	6	•		•	30	2001	168
	Arcam Alpha 7	260	Decent, if slightly system-fussy amplifier that generally pulls all the right strings		5	•		•	40	1971	167
	Arcam Alpha 8	360	Enjoyably soft-centred amp, won't frighten the animals. Upgradeable via preamp output, and option	nal remote	5	•		•	50	1853	162
4	Arcam Alpha 9	500	Not quite a match for the Alpha 9/9P combo, the solo integrated is nevertheless colourful and explicit	citly detailed	7			•	70	2007	168
4	Arcam Alpha 10	800	Although not the best sounding in its class, the Alpha 10's modular nature demands it be taken serio	ously	5		•		100		181
4	Audio Analogue Puccini	450	Superbly finished, the entry-level Audio Analogue performs way out of its class		5	• (			40	2147	175
	Audio Analogue Puccini SE	595	Upgraded, more powerful Puccini is disappointingly sluggish and curiously lacking in musical vitality	224	5	• (			40		181
	Audiogram MB1	493	The only flaws are the amateurish build, a number of technical problems and inconsistent sound qu	uality	4	•	•	•	40	2235	_
4	Audio Note Oto SE	1,200	Transparent, dynamic, clear and subtle, but offers limited power output		4			100	24		126
	Audiolab 8000LX	470	Well built, entry-level model lacks bottle and pizzazz. Superseded by new TAG McLaren Audio produ		6			•	60	2148	175
4	Audiolab 8000S	700	Informative in every sense, only a slight lack of bite detracts. Superseded by new TAG McLaren Audi		6		•	•	60		1000
4	AVI S2000MI	999	Fine, detailed amplifier with excellent timing and strong control of a wide range of loudspeaker load		5		•		100	2155	175
A	Bryston B60R	1,249	Great build, but the lazy bass and opaque treble bracket an articulate midband. Comes with 20 year gr		5	_	•	•	60		-
4	Cambridge Audio A3i	200	"Maximum information" design, with plenty of usable and reasonably refined power. A snip!		4	•			60	1972	167
4	Copland CSA8	945	Sophisticated yet transparent, this is one of those amplifiers that sounds good even when the gloss	has worn off	5				60		-
4	Copland CSA14	1,199	Great sound and looks, but avoid high capacitance speaker cables		4	•		-	60	1416	148
	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	2157	181
	Credo IMP702	850	Old-fashioned looking, but bags of clarity and precision, though it can sound brash in the wrong sys		5		-		70	2157	175
	Cymbol CA1	499	Lacklustre amplifier tends to underperform with complex material. Best with straightforward compact lo	oudspeakers	1			-	40	2236	178
A	Creek 4330	279	Compact, even pretty, but sounds dark and uninviting, with coarse treble and 'woompy' bass		5				40	2052	17.0
4	Denon PMA-250SE	160	This amp can sound rough when extended, but within its limits it is open, detailed and likeable		5	_		•	30	2046	CONTRACTOR OF
4	Denon PMA-350SE	200	Reinvented in the minimalist tradition, this SE model is a control freak, but can sound wonderful		5	_			50	1856	2000
	Denon PMA-425R	230	Well-equipped and generally enjoyable but slightly ragged performer		3	•		•	45	1973	-
A	Denon PMA-725R:	350	Warm, bold, up-front presentation, but musically unexciting		5				97	1802	157
4	Denon PMA-1500R	500	Recommended for its outrageous power, especially with problem speakers.		5			•	70	1055	181
4	Densen Beat B-100 MkII	650	High 'air guitar' factor, and can punch above its weight, but check it will complement your system		5			•	60 40	1855	175
	DPA Renaissance EMF Audio Seguel	595 450	DPA's first integrated amp is typically innovative, but a little too 'crisp'n'dny' for our tastes Relaxed and restrained design from Mike Creek		5				50	1582	140
					6				55	1743	154
4	Exposure XX Super	700 995	Rather transistorised, unexciting sound. Good coherence and rhythm. Best played loud		4				50	2158	175
4	Electrocompaniet EC1-2 Gamma Acoustics Gemini	699	A 50 watt amplifier which sounds more powerful, and makes 'real sounding' music.  Genuine single-ended triode design, but with low power, mundane sound and poor build		3				12	1416	148
	Goodmans Delta 900A	130	Coloured and raw sound tarnish high power yield and remarkable pricing, and noisy fan cooling is a	roal ion killor	5	•	_		100	2228	178
4	Harman/Kardon HK610	180	Lively and friendly sound, but could prove too exciting for the faint hearted	real joy-killel	6				30	1465	149
4	Harman/Kardon HK620	250	Capable and musical amplifier which is one of the nicest at this price. Optional add-in MM/MC boar	rd available	6				40	1858	162
•	Holfi Audis Signature	750	A 'no-feedback' circuit giving outstanding resolution, but significant load dependency	ים מעמוומטוכ	4	•			65	1000	181
	JoLida 202	695	Well-built and technically accomplished, affordable valve integrated with subtle refined, if not quite grippin	ng sound	4				40	2011	168
	JVC AX-V4	200	Respectable performance for a Pro-Logic AV amplifier. Lacks resolution and sparkle, though	500110	5	•			63	1805	
	JVC AX-R5	200	Versatile, and lots of even-handed, articulate detail; but let down by superficiality		5	•	•	•	45	1466	
4	Kenwood KA-3020SE	200	Not a brilliant phono stage, but this is a lively, exuberant-sounding amp via CD		5	•		•	50	1130	
-	Kenwood KA-5090R	300	Large, well equipped and high tech integrated, but TRAITR output still gives a harsh, unsubtle perfor	rmance	5	•			65	2053	1000
E	Lavardin Model IT		Banishment of 'memory distortion' delivers an amp with the best of valve and transistor sound cha		4		100		40	68	184
_	LFD Integrated Zero	549	Lively and brisk, but at the same time cold and unsympathetic		6				50	1584	140
	Linn Majik (phono)	800	The cornerstone of Linn's modular hi-fi system is innovative, but sounds vague and confused		5	• (	•	•	33	1013	1
4	Magnum IA120	265	Mirror finish amplifier with bold, colourful delivery, but needs careful system matching to avoid loss	of clarity	6			•	65	2054	-
4	Magnum IA170	330	Gives a realistic sense of instruments playing within a very believable acoustic; preserves colour and	-	6			•	96	1260	-
4	Magnum IA-200	599	Sweet, valve-flavoured solid state amplifier which flatters where it doesn't cast light		7		1	100	160	1860	-
4	Magnum Class A	690	Lashings of rich and compelling music, but the Class A circuits trade lushness for accuracy		4	•	•		60		116
	Magnum Class A SE	795	A MOSFET amplifier drawing inspiration from the world of valves, this is an erratically refined, detailed	ed amplifier	5	•			80	2159	_
	Marantz PM-57	200	Well equipped but ultimately anodyne amplifier which lacks for nothing but star quality	,	5	•		•	50	2049	
4	Marantz PM-66SE	230	A bit lush, and power output is limited, but it gives airy, large-scale music. An excellent budget buy		5	•		•	50	1969	-
4	Marantz PM66 KI-Signature		It knows how to rock and roll with holographic detail and stereo, but prefers small/medium scale acous	stic material	5	•	•	•	50	2003	

	CONTINUED				S P	ECIFICAT	IONS		
STATUS	Amp	li	ifiers	MM PHONO	PHON	REMOTE CONTROL TS	RECEIVER TO W	ISSUE NUMBE	R
7	PRODUCT	(£)	COMMENTS		V	<b>V V V</b>	V V	VV	V
	Micromega Tempo 2	900	Idiosyncratic but flexible amplifier with an attractively forward and expressive sound quality		7	•	70		18
	Mission Cyrus IIIi	598	Beautifully presented, but mid-dominated balance was not liked. Upgradeable using PSX PSU unit			•	50	1854	162
9	Mission Cyrus SL	398	Articulate amplifier with build quality to die for, superb, outgoing midband and lean, though well-ext	tended bass	-		50		168
4	Monrio ASTY	400	Engaging, but ill-disciplined, even OTT amplifier with unpredictable system compatibility	1	5		55	2237	178
3	Musical Fidelity E1  Musical Fidelity E11	199	Richly flavoured tone and realistically-scaled imagery distinguish this entry-level Richer Sounds special	al	6		30	2050	
8	Musical Fidelity X-A1	299 479	Well built minimalist amp with a 5 year guarantee, but can sound congested when extended Idiosyncratic visuals just another plus for an amp that is powerful, well built, and serves the music su	inerbly	6		60 50	2252	18
1	Musical Fidelity A2	500	Lucid, transparent midband and a full upper bass are provided by this highly proficient A1 replacement	'	5	•	25	1862	16
	Musical Fidelity A220	700	Powerful, authoritative and well turned-out amplifier that is easy to match with comparably priced speaker		5	•	50	2012	16
1	Myryad MI120	600	Well styled, well built: a good, even tempered amplifier, though it can sound rather brittle		6	•	60	2153	175
1	NAD 310	100	Fleet and sure of foot, it seems likely to set all appendages tapping with its blend of enthusiasm and	artfulness	5		20	1468	14
	NAD 312	200	Another great budget price NAD, and a worthy all-round successor to the 302		6	•	25	2051	17
	NAD 314 Naim Nait 3	260	Lively if coloured presentation that is musically engaging and easy on the ear  Distinctive and highly musical sounding integrated amp. Perhaps too distinctive for some tastes		5		53	1807	157
	Orelle SA-100	5 <b>7</b> 5	A musically rewarding amplifier that grows on you. Trace of coarseness in treble		5		30 50	1748 1749	154
1	Orelle SA-100RX	649	In its latest guise, this is a fluid, articulate and transparent design — and excellent value		7	Opt	75	1743	18
1	Pioneer A-204R	160	The A-204R makes no special claims beyond being well equipped and cheap, but displayed unexpec	cted quality	5		25	2047	17
1	Pioneer A-300R	200	Its bright and breezy sound is a natural tonic to those of us worn down by the ongoing stress of life		5	• •	50	1469	149
1	Pioneer A-405R	250	Fully featured, open and dynamic sounding; makes up in enthusiasm what it occasionally lacks in ref	finement	5	• • •	45	2230	-
1	Pioneer A-400X	300	On second audition, this amp was tonally unchanged but less compelling than on its first outing		6	• • •	50	1545	-
3	Pioneer A-300R Precision	400	Sophisticated variant of the A-300R. Not an obvious winner, but will slowly plys you with its subtle ch	harms	5	•	35	1863	16
	Pioneer A-605R Pioneer A-07	400 999	Intriguing technology, but execution is certainly impeded by excessive gadget count  Curious blend of high-end attributes and inconsistent, though undeniably detailed sound		5	•	80	2005	168
9	Primare A-20 Mk II	799	Everything except packaging has changed in mkll version: but ballsier model has lost none of its refin	nement	5	-	70	2160	175
•	Pro-ject Model 7	300	A minimalist amplifier brimming with good intent, but too quirky for its own good. Either MM or MC		5	•	40	1264	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	_
1	Roksan Caspian	695	Well-built, open and articulate amplifier, which is also consistent from system to system, and well built	ilt	6	•	70	2014	168
	Rose Scion	615	Unique two-box integrated gives real subtlety and low level resolution, but the sound lacks scale and	d weight	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	_
	Sony TA-F448BE	250	Minimalist interface is matched to carefully considered circuit with satisfactory effect — but keep the volume		5	•	55	2055	
1	Sony TA-F3000ES TAG McLaren 60iRv	500 999	Champagne 'shoebox amp' may lack power reserves, but is quick and articulate. In every sense a knu Looks, feels and sounds better than the Audiolab it supersedes. Smooth, open, refined but lacks bod		6		35	2239	-
1	Talk Electronics Storm 1	500	Good soundstaging and strong detail are provided by this unassuming and not especially powerful n		6		50	1868	184
	Talk Electronics Storm 2	650	Crisp, clean, well defined sound, arguably lacking warmth, but a good midrange purchase overall	nodei	6		50	2154	175
•	TEAC A-BX7R	700	Characterful balance mars a meticulously designed amplifier. Includes a balanced input, optional MM	//MC stage	5		50	1869	162
	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	match	5	• • •	70	2149	175
	Woodside ISA230 Disc	1,249		te success	3	• 66	30		116
1	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 PREAMPLIFIERS	280	Fine, middle ranking amplifier, with a detailed midband but performance declines at frequency extremes	5	5		100	2056	1/1
	Audiolab 8000C	580	Distinctive, stark neutrality will not appeal to all. Superseded by new TAG McLaren Audio products		5				97
	Audiolab 8000Q	1,250	Tested with 8000M monoblock power amps. Superseded by new TAG McLaren Audio products		6	• (		1301	145
1	Copland CTA-301Mkll	1,399	Sweet sounding, but never gets bogged down in audio treacle		4	•		1630	15
	Crimson 610C/620C	875	Not entirely satisfactory preamp which has dynamic strengths, but underachieves when the volume is	is raised	4	•			181
1	EAR 802MC	2,599			4	• •			63
1	ECA Vista	760	Wind up the volume and blow a breath of fresh music into your system. (Tested with Lectern power	amp)	5			1302	145
	Exposure XVII  Jadis JP-30MC	850 5,978	Superbly rhythmical; maybe a bit overpowering in the midband. Tested in Sessions with XVIII Super French tubes, beautiful build, nostalgic styling and delightful midrange. (Tested with JA 30 power amp	-1	5	• •	-		142
9	LFD Mistral Linestage	449	Strong ergonomics, generally decent sound, but a little lacking in detail	ν)	6			1930	165
1	Meridian 501	695	Tight, positive sound, but dispassionate; intense at high levels. (Tested with 555 power amp)		5	•		1303	145
1					_				140
	Meridian 562V	995	Transparent and capable preamp, also features six digital inputs		9				
1			Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentation	on	7	•			162
	Meridian 562V Meridian 502 Moth 30 Passive	995 1,295 149	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentatio Modular system gives cracking results. Passive preamp and power amp warrant Best Buy	on	7	•			109
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage	995 1,295 149 349	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentatio Modular system gives cracking results. Passive preamp and power amp warrant Best Buy Excellent-sounding ultra-simple miniature preamp		7 4 4			1931	165
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three	995 1,295 149 349 1,990	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentatio Modular system gives cracking results. Passive preamp and power amp warrant Best Buy Excellent-sounding ultra-simple miniature preamp  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power am		7 4 4 5				165
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three Musical Fidelity X-PRE	995 1,295 149 349 1,990 200	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentatio Modular system gives cracking results. Passive preamp and power amp warrant Best Buy Excellent-sounding ultra-simple miniature preamp  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power am Cleverly configured preamp with many upgrade options, and open, lively and engaging sound		7 4 4 5 4			1931	165 166 175
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three	995 1,295 149 349 1,990 200 1295	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentatio Modular system gives cracking results. Passive preamp and power amp warrant Best Buy Excellent-sounding ultra-simple miniature preamp  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power am Cleverly configured preamp with many upgrade options, and open, lively and engaging sound Fully remote, nuvistor tube equipped, with fine coherence and musicality		7 4 4 5 4 5			2152	165 166 175 182
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three Musical Fidelity X-PRE Musical Fidelity Nu-Vista	995 1,295 149 349 1,990 200	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentatio Modular system gives cracking results. Passive preamp and power amp warrant Best Buy Excellent-sounding ultra-simple miniature preamp  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power am Cleverly configured preamp with many upgrade options, and open, lively and engaging sound		7 4 4 5 4				109 169 169 179 182 169
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three Musical Fidelity X-PRE Musical Fidelity Nu-Vista NAD 114	995 1,295 149 349 1,990 200 1295 270	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentation Modular system gives cracking results. Passive preamp and power amp warrant Best Buy Excellent-sounding ultra-simple miniature preamp  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power am Cleverly configured preamp with many upgrade options, and open, lively and engaging sound Fully remote, nuvistor tube equipped, with fine coherence and musicality Beer-budget preamp, sounds focused, detailed and consistent		7 4 4 5 4 5 6	•		2152	109 165 166 175 182 165 165
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three Musical Fidelity X-PRE Musical Fidelity Nu-Vista NAD 114 Naim NAC92R Quad 77 Pre Rega Hal	995 1,295 149 349 1,990 200 1295 270 630	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentation Modular system gives cracking results. Passive preamp and power amp warrant Best Buy Excellent-sounding ultra-simple miniature preamp  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp Cleverly configured preamp with many upgrade options, and open, lively and engaging sound Fully remote, nuvistor tube equipped, with fine coherence and musicality Beer-budget preamp, sounds focused, detailed and consistent  Upgradeable preamp uses proprietary socketry. (Tested with NAP90 power amp.)  Sophisticated design with 2-way remote control console; open colourful sound and very flexible Passive line stages dedicated to Exon power amps		7 4 4 5 4 5 6 5 4 6	•		2152 1932 1936	105 165 166 175 182 165 165 165
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three Musical Fidelity X-PRE Musical Fidelity Nu-Vista NAD 114 Naim NAC92R Quad 77 Pre Rega Hal Rose RV-23	995 1,295 149 349 1,990 200 1295 270 630 850	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentation Modular system gives cracking results. Passive preamp and power amp warrant Best Buy Excellent-sounding ultra-simple miniature preamp  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp Cleverly configured preamp with many upgrade options, and open, lively and engaging sound Fully remote, nuvistor tube equipped, with fine coherence and musicality Beer-budget preamp, sounds focused, detailed and consistent  Upgradeable preamp uses proprietary socketry. (Tested with NAP90 power amp.)  Sophisticated design with 2-way remote control console; open colourful sound and very flexible Passive line stages dedicated to Exon power amps  You can pay more to get a more transparent sound, but it's hard to criticise at the price	np	7 4 4 5 4 5 6 5 4 6 3			2152 1932 1936 1941	109 169 179 182 169 169 169 169
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three Musical Fidelity X-PRE Musical Fidelity Nu-Vista NAD 114 Naim NAC92R Quad 77 Pre Rega Hal Rose RV-23 Rotel RC-971	995 1,295 149 349 1,990 200 1295 270 630 850 998 450 150	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentatio  Modular system gives cracking results. Passive preamp and power amp warrant Best Buy  Excellent-sounding ultra-simple miniature preamp  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power am  Cleverly configured preamp with many upgrade options, and open, lively and engaging sound  Fully remote, nuvistor tube equipped, with fine coherence and musicality  Beer-budget preamp, sounds focused, detailed and consistent  Upgradeable preamp uses proprietary socketry. (Tested with NAP90 power amp.)  Sophisticated design with 2-way remote control console; open colourful sound and very flexible  Passive line stages dedicated to Exon power amps  You can pay more to get a more transparent sound, but it's hard to criticise at the price  Low price is offset by rather coarse sound quality with certain types of music. (Tested with RB-971 po	np	7 4 4 5 4 5 6 5 4 6 3 5	• • •		1932 1936 1941 1942	109 165 166 179 182 165 165 165 178 178
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three Musical Fidelity X-PRE Musical Fidelity Nu-Vista NAD 114 Naim NAC92R Quad 77 Pre Rega Hal Rose RV-23 Rotel RC-971 Sumo Athena IIB	995 1,295 149 349 1,990 200 1295 270 630 850 998 450 150 767	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentation. Modular system gives cracking results. Passive preamp and power amp warrant Best Buy. Excellent-sounding ultra-simple miniature preamp.  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp. Cleverly configured preamp with many upgrade options, and open, lively and engaging sound. Fully remote, nuvistor tube equipped, with fine coherence and musicality. Beer-budget preamp, sounds focused, detailed and consistent.  Upgradeable preamp uses proprietary socketry. (Tested with NAP90 power amp.)  Sophisticated design with 2-way remote control console; open colourful sound and very flexible. Passive line stages dedicated to Exon power amps. You can pay more to get a more transparent sound, but it's hard to criticise at the price. Low price is offset by rather coarse sound quality with certain types of music. (Tested with RB-971 po. Big, natural and tidy-sounding with very natural reproduction of acoustic and electric instruments.)	np ower amp)	7 4 4 5 4 5 6 5 4 6 6 3 5 6			2152 1932 1936 1941	1099 1655 1665 1799 1822 1655 1655 1655 1777 1788 1499
	Meridian 562V Meridian 502 Moth 30 Passive Moth 30 Active Line Stage Muse Model Three Musical Fidelity X-PRE Musical Fidelity Nu-Vista NAD 114 Naim NAC92R Quad 77 Pre Rega Hal Rose RV-23 Rotel RC-971	995 1,295 149 349 1,990 200 1295 270 630 850 998 450 150	Extremely sophisticated analogue controller with tremendous flexiblity and a fast and tidy presentatio  Modular system gives cracking results. Passive preamp and power amp warrant Best Buy  Excellent-sounding ultra-simple miniature preamp  Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power am  Cleverly configured preamp with many upgrade options, and open, lively and engaging sound  Fully remote, nuvistor tube equipped, with fine coherence and musicality  Beer-budget preamp, sounds focused, detailed and consistent  Upgradeable preamp uses proprietary socketry. (Tested with NAP90 power amp.)  Sophisticated design with 2-way remote control console; open colourful sound and very flexible  Passive line stages dedicated to Exon power amps  You can pay more to get a more transparent sound, but it's hard to criticise at the price  Low price is offset by rather coarse sound quality with certain types of music. (Tested with RB-971 po	np ower amp)	7 4 4 5 4 5 6 5 4 6 3 5			1932 1936 1941 1942	162 109 165 166 165 165 165 165 177 178 145 184 165

1938 165

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# **Amplifiers**



5	PRODUCT	(E)	COMMENTS	V	VV	AXA	V V		
	Woodside SC26 Phono	2,233	Synergistic with STA35, with a cool, controlled sound, good focus and transparency. (Tested with STA35)	5	•			100	
4	Alchemist Kraken/Pwr	529	Hardly accurate, but entertaining nevertheless	1		60		124	
	POWER AMPLIFIERS								4
4	Arcam Alpha 9P	400	Clear, colourful and well-disciplined, the Arcam is a strong all-rounder that can compete with conviction	1		60	1929	165	
	Arcam Alpha 10P	£600	Good all-rounder with huge headroom and a taut, controlled sound. Not the last word in transparency	1		100		183	
4	Art Audio Quintet	1,393	Switchable triode, ultralinear output stage. In triode mode, these are 15 of the sweetest Watts around	1		15	EW.	109	
	Audiolab 8000M	1,600	Strong, controlled sound; confident bass, but colourless. Superseded by new TAG McLaren Audio products	1		125	1301	145	
	Copland CTA-505	2,099	Grown-up amplifier with a refined, yet never over-civilised air	1		67	1630	151	
	Crimson 620C	875	Not entirely satisfactory power amp which has dynamic strengths, but underachieves when the volume is raised	1		50		181	
	Cyrus Power	£498	Detail and midband clarity and stand-out qualities. Smooth and refined with most types of music but bass-soft	1		50		183	
4	Densen B-300	£800	Expensive but highly musical. Colourful and and warm sound with strong timing and listener involvement	1		100		183	
4	EAR 509 Mk II	3,699	Combining sonic strengths of transistors and valves, this amp warrants attention. (Tested with 802 Preamp)	1		100		63	
B	ECA Lectern	880	Tested with Vista. Wind up the volume and blow a breath of fresh music into your system	1		50	1302	145	
	LFD Mistral Power	449	Infectious upper band vitality, but LF dynamics lacking — likewise 'grip' and transparency	1		60	1930	165	1
	Meridian 555	750	By providing an open window on the music, this amp is wide open to RF and low level IM distortions	1		60	1303	145	
4	Michell Alecto stereo	1,150	Open, well-focused imagery with natural, refined textures	1		50	1940	165	
	Moth 60 Watt Stereo	599	Miniature power amp lacks control and finesse — not comfortable with difficult speaker loads	1		60	1931	165	
4	Moth 30 Series Monoblocks	879	Tested with Active Preamp. Demonstrated solid balance and proved adept at delivering vital musical qualities	1		100		155	
4	Musical Fidelity FX2	800	Quality build and imposing presentation is married to strong power yield, tonal colour and finesse	1		100	1934	165	
4	Musical Fidelity X-A50	500	Cleverly configured and attractively packaged, open, lively and engaging sound. Reviewed with X-PRE	1		50		175	
	Myryad MA120	450	Based in MI120 integrated – see latter for comments, but sounds significantly better when bi-amped with MI120	1		60	1935	165	
4	NAD 214	370	A little lightweight, but detailed, consistent sound quality, and excellent value for money	1		80	1932	165	
	Naim NAP90	450	Power amp from a Nait integrated with some improvements	1		30	1936	165	
4	Quad 77 Power	600	Open, bold and colourful, with mild compression	1		85	1941	165	
4	Rega Exon	1,196	Monoblock, priced each, dedicated for Hal preamp. Bold, outgoing, in-command kind of sound	1		125	1942	165	
	Roksan Capsian Power	£595	Excels musically and in conventional hi-fi terms. A power amp for people with long-term satisfaction in mind	1		70W		183	
	Rotel RB-971	200	Somewhat better than the accompanying preamp — clean, mean and bridgeable. (Tested with RC-971)	1		70		178	
	Rotel RB-980BX	450	Tames enthusiastically recorded material with a laid-back and occasionally smeared sound	1		120		155	
E	Sirius D200	2995	Single MOSFET pair per side gives tremendous resolution and timing (balanced only)	1		200		183	H
4	Sumo Polaris III	950	Tested with Athena IIB. Big and tidy-sounding with very natural reproduction of acoustic and electric instruments	1		164	1305	145	
	TAG McLaren 125M	2400	Refined Audiolab replacement monoblocks with clean sound but limited thrill power. (t/w PA20R preamp)	1		145		184	H
	Talk Tornado 2	600	Good, but slightly retiring sound which lacks the authority to stand out in a crowd	1		65	1937	165	Γ
	Thorens TTA2000	599	Low power shoe-box format, but gutsy and surprisingly subtle and articulate	1		30	1938	165	



## **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.
- DIG CABLE TYPE: O optical digital; E - electrical digital for CD Players, DACS and 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.
- High End Review







# Cables

SYMMETRICAL STRANDED SOLID COPPER SILVER CABLE TYPE NO. MBER COAXIAL

F						nice de la constante de la con		NAME OF TAXABLE PARTY.
S	PRODUCT	(E)	COMMENTS					
	ANALOGUE INTERCONNE	1903						1000
	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 2	60	Sounds flattened out, with poor imaging and grainy treble		•	•	2166	176
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
	Chord Company Cobra 2	50	Good, strong sound with full-bodied music, less happy with smaller forces		•	•	2167	176
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 impedence		•	•	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
	Insert Audio IC100 MkII	47	Mostly good sound is let down by pervasive dryness		•	•	2169	176
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(	CONTINUED			S P	E C I	FIC	ATIO	) N S	J. E.		Share
STATUS	Cabl	le	S SYMMETRICAL							E NUMBE	R
15	PRODUCT	(£)	COMMENTS	V	V	V	/ V	V	V	V	V
8	lxos 104	20	Open and detailed presentation, full bass and silky if overly smooth treble							1692	131
7	lxos 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
7	lxos 102	60	A bit bright and undynamic, this cable is nevertheless a good all-rounder, whose faults are largely subtractive	177	•	•				1032	160
	lxos 101	100	A cable with personality: its veiled and shut in quality bring an earthiness to vocals and rhythm guitar alike	187	•	•	•	•	MIN	1693	131
4	Kimber Hero	110	Slight roughness detracts from some music; seems well suited to rock and jazz. Lively and detailed	•		•	•		8	2170	176
4	Moth Ley Line Black	100	Offers a full sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy			•	•	•		2110	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
4	Nordost Blue Heaven	145	Very good bass and only slightly grainy treble add up to a well integrated, natural-sounding cable	•					-80		176
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			•	•		TOTAL	2172	176
	Silvertone Ex-Static	35	Pleasantly unfatiguing and competitively priced cable that lacks detail and insight		•	•	•				160
8	SonicLink Silver Pink	35	Dynamically sensitive and muddle-free. We're unsure about the flesh-coloured finish though	•		•	The state of	•			160
4	Sonic Link Black	49	Nickel-plated copper with a slight dryness in the bass and a hint of treble roll-off don't compromise integration	•		•	•			2172	176
4	Straight Wire Chorus	40	A very confident cable with good bass, though perhaps a shade of treble loss		•	•	•		TV	2173	176
	van den Hul The Storm	25	Price for 0.8m. Rich and warm but bass is rolled off: however there's plenty of drive and top end is clean		•	1				1701	131
4	van den Hul Source HB	50	Price for 0.8m. Hybrid carbon-fibre/copper cable that is a paragon of naturalness	de,	•	•	•				160
8	van den Hul D102 MkIII	70	A cable with everything; good bass, treble, imaging and naturalness			•	•		ALT T	2173	176
4	van den Hul The First	210	Using 12,000 carbon fibres, a gentle and subtle sounding cable that conveys oodles of informatio		•	•				1702	131
4	van den Hul The Second	240	Wonderfully open and relaxing but also intimately detailed, slightly softens percussive dynamics	•		•	•	•		1702	131
	XLO Type 150	50	A restrained but useful cable for taming lively CD players, dynamics lack freedom, treble lacks clarity		•	•	•			1703	131
4	XLO Type 0.1	180	Unusual but highly expressive and detailed with a hint of graininess on powerful vocals				•		Pit E	1703	131
	DIGITAL INTERCONNECT	S									
	Audioquest Digital Pro	100	A silver cable with all the drive of Video Z but lacking its clear-cut transparency	1316	•	•			E		108
	Chord Codac	36	A connection with a stranded inner core and a sound that lacks integration					_	E		108
4					_			•	E		100
4	Chord Prodac	50	Price for 0.6m length. Lively detailed treble, drives music along confidently with no hint of fizz		•		• •		700	1706	131
7	Chord Prodac  DPA Opti-link		Price for 0.6m length. Lively detailed treble, drives music along confidently with no hint of fizz  Sound is lacklustre		•		• •		700	1706	
•		50			•	•	•		E	1706	131
8	DPA Opti-link	50 20	Sound is lacklustre		•	•	• •		E 0 E	1706 1707	131 108
	DPA Opti-link DPA Digi-link	50 20 28	Sound is lacklustre  Can seem slightly impassive but there's no avoiding its exceptionally detailed sound		•	•	• •		E 0 E		131 108 108
	DPA Opti-link  DPA Digi-link  lxos 105	50 20 28 25	Sound is lacklustre  Can seem slightly impassive but there's no avoiding its exceptionally detailed sound  Extended but soft-edged treble that's mercifully free of fatiguing colourations; plenty of weight, smooth		•	•	•		E 0 E		131 108 108 131
	DPA Opti-link  DPA Digi-link  Ixos 105  Kimber Kable Opti-link	50 20 28 25 50	Sound is lacklustre  Can seem slightly impassive but there's no avoiding its exceptionally detailed sound  Extended but soft-edged treble that's mercifully free of fatiguing colourations; plenty of weight, smooth  Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most		•	•	• •	•	E 0 E 0		131 108 108 131 108
	DPA Opti-link  DPA Digi-link  Ixos 105  Kimber Kable Opti-link  Moth Leyline Datalink	50 20 28 25 50 140	Sound is lacklustre  Can seem slightly impassive but there's no avoiding its exceptionally detailed sound  Extended but soft-edged treble that's mercifully free of fatiguing colourations; plenty of weight, smooth  Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most  A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive		•	•		•	E		131 108 108 131 108 108
	DPA Opti-link  DPA Digi-link  Ixos 105  Kimber Kable Opti-link  Moth Leyline Datalink  QED Digitlex	50 20 28 25 50 140 20	Sound is lacklustre  Can seem slightly impassive but there's no avoiding its exceptionally detailed sound  Extended but soft-edged treble that's mercifully free of fatiguing colourations; plenty of weight, smooth  Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most  A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive  A top performance, low-loss 75 Ohm coax with a very open, almost liquid quality	•	•			•	E	1707	131 108 108 131 108 108
	DPA Opti-link  DPA Digi-link  Ixos 105  Kimber Kable Opti-link  Moth Leyline Datalink  QED Digitlex  Siltech HF-6	50 20 28 25 50 140 20	Sound is lacklustre  Can seem slightly impassive but there's no avoiding its exceptionally detailed sound  Extended but soft-edged treble that's mercifully free of fatiguing colourations; plenty of weight, smooth  Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most  A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive  A top performance, low-loss 75 Ohm coax with a very open, almost liquid quality  Sounds detailed, very clean and extended, but bass is less well resolved — a treat for high-end systems	•	•			•	E	1707	131 108 108 131 108 108 108
	DPA Opti-link  DPA Digi-link  Ixos 105  Kimber Kable Opti-link  Moth Leyline Datalink  QED Digiflex  Siltech HF-6  SonicLink Green	50 20 28 25 50 140 20 145 60	Sound is lacklustre  Can seem slightly impassive but there's no avoiding its exceptionally detailed sound  Extended but soft-edged treble that's mercifully free of fatiguing colourations; plenty of weight, smooth  Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most  A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive  A top performance, low-loss 75 Ohm coax with a very open, almost liquid quality  Sounds detailed, very clean and extended, but bass is less well resolved — a treat for high-end systems  Spacious, positive and engaging if a bit over-crisp at times — very compelling, however	•	•			•	E	1707 1709 1709	131 108 108 131 108 108 108 131 131
	DPA Opti-link  DPA Digi-link  Ixos 105  Kimber Kable Opti-link  Moth Leyline Datalink  QED Digiflex  Siltech HF-6  SonicLink Green  van den Hul The First	50 20 28 25 50 140 20 145 60	Sound is lacklustre  Can seem slightly impassive but there's no avoiding its exceptionally detailed sound  Extended but soft-edged treble that's mercifully free of fatiguing colourations; plenty of weight, smooth  Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most  A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive  A top performance, low-loss 75 Ohm coax with a very open, almost liquid quality  Sounds detailed, very clean and extended, but bass is less well resolved — a treat for high-end systems  Spacious, positive and engaging if a bit over-crisp at times — very compelling, however	•	•			•	E	1707 1709 1709	131 108 108 131 108 108 108 131 131
	DPA Opti-link  DPA Digi-link  Ixos 105  Kimber Kable Opti-link  Moth Leyline Datalink  QED Digiflex  Siltech HF-6  SonicLink Green  van den Hul The First  LOUDSPEAKER CABLES	50 20 28 25 50 140 20 145 60	Sound is lacklustre  Can seem slightly impassive but there's no avoiding its exceptionally detailed sound  Extended but soft-edged treble that's mercifully free of fatiguing colourations; plenty of weight, smooth  Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most  A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive  A top performance, low-loss 75 Ohm coax with a very open, almost liquid quality  Sounds detailed, very clean and extended, but bass is less well resolved — a treat for high-end systems  Spacious, positive and engaging if a bit over-crisp at times — very compelling, however  Exceptionally natural albeit slightly cautious compared to some. Plenty of subtle information and integration		•			•	E	1707 1709 1709	131 108 108 131 108 108 108 131 131
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S	PRODUCT	(£)	COMMENTS	V		VVVV	V
4	Gale XL315	2	A little lacking in detail but plenty of life and excellent value		•	<b>•</b> 1800	157
4	Gale XL160-2	2.50	Rhythmic and bouncy-sounding bi-wire cable. Can be slightly manipulative		•	<b>•</b> 1800	157
4	Goertz M2	32	Remarkably detailed, smooth, neutral and with excellent bass; check amplifier compatibility		•	•	168
	Heybrook Heywire	3.5	This well-meaning facsimile of earlier ribbon cables ends up sounding lumpy and uneven		•	•	109
4	Hitachi LC-OFC	7	Very crisp, very clear and very confident. In the right system would be very expensive to better			•	109
4	Kimber 4TC	19.6	A well-balanced cable with good performance in all areas		•	•	168
4	Kimber 4VS	9	A good mix of virtues including particularly fine bass			•	183
	Linn K20	4	Seems to work best with lively, unsubtle music - can be dry and edgy	•	•	•	183
l	Naim NACA 5	5.5	A 'dinosaur of a cable', this stiff wire rod doesn't belong outside Naim systems, where it works a treat		•	•	109
	Nordost Octava	3	Fair bass but confused treble and some coloration	•	•	•	168
	Ortofon SPK100	3	Grey-sounding – strips instruments of their natural richness and resonance. A bit bass-shy, too		•	•	133
4	Ortofon SPK200	4.99	Good strong bass and fair detail, only slightly marred by a little dryness			•	183
4	Ortofon SPK300	8	Tremendously open and atmospheric, with robust, full-blooded bass — if slightly bright at times		•	•	133
	Precious Metals SL102	10	Unusual construction gives rather strained sound, only really cheering up with simple musical textures	•	•	•	183
	Puresonic 7845	1.95	Big, weighty sound – but too messy and bloated for its own good			•	183
	Puresonic 7891	2.85	Chunky cable design; shame about the sound quality	•	•	● 1800	157
	QED Qudos	2.25	Despite high-tech design and excellent Air-Loc plugs, its music-making failed to gel		•	● 1800	157
	QED Profile 4x4	9	Good midrange and treble balance, but bass is rather slack and detail not outstanding				168
	QED Qudos Silver	5	Basic figure-8 cable adds value with silver plating, to generally smooth and detailed effect		•	•	183
	Silver Sounds 12 gauge	15	Basic 'homemade' construction gives fairly neutral sound. Price not outstandingly competitive	•	•	•	168
	Sonic Link S300	18	Happiest with simple music; tends to smudge detail in complex pieces	•	•	•	168
4	SonicLink AST50	1.95	It may look like bell-wire, but AST50 sounds detailed, ordered and balanced		•	• 1800	157
4	SonicLink AST150	3.95	Slightly plummy bass and a useful way of holding musical strands together		•	• 1800	157
4	Straight Wire Quartet	8	A good all-rounder with full tone, clear detail and natural ambience	•	•	•	183
4	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
4	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	7	Bass becomes shy when there's a lot happening, and detail could be clearer	•	•	•	183
	van den Hul The Clearwater	7	Despite its evocative title, the Clearwater turns out to be a disappointingly murky-sounding cable		•	• •	109
l	van den Hul The Magnum	38	Touted as vdH's most prestigious twin-lead cable, Magnum sounds soft and old fashioned		•	• •	109
4	van den Hul The Wind	40	'The Wind' kicks up a storm with its lush midrange and bone-crunching bass!	1928	•	• •	109
l	van den Hul Revolution	76	Silver-plated OFC combined with carbon fibre prompts a sombre character with an easy and relaxed treb	le	•	<ul><li>1726</li></ul>	133
	XLO Pro Type 625	4	Lively but natural and relaxed-sounding — a hint of congestion at frequency extremes	12/5	•	<ul><li>1726</li></ul>	133
	XLO Pro 600	16.60	Basically neutral tonality but can become aggressive and two-dimensional	•	•	•	168



## Cartridges

artidges fall into two groups: high output MM (moving magnet) models, capable of working diredly into most phono inputs; and generally more expensive low- and very-low-output MC (moving coil) models. MC cartidges usually have better mechanical integrity, lighter tolerances and give better performance. Many amplifiers are no longer equipped with the necessary phono input for a cartidge, and a separate phono stage is necessary. Phono-input-equipped value amps need a transformer to cope with MC cartidges.

■ Even basic high-output MM cartidge designs will benefit from a customised amplifier input load. Consult your dealer for further details on this topic.

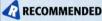
### KEY TO SPECIFICATIONS

- MM: Moving-magnet cartridge with a normal output, suitable for all amplifier phono inputs.
- MC: Moving-coil cartridge with a low output, only suitable for high-sensitivity MC amplifier phono inputs.
- REPLACEABLE STYLUS: Most MM cartridges have a stylus (needle) that can be
- removed and replaced when worn out.

  OUTPUT (mV): Cartridge output in millivols.

  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 NUMBERP: The issue of H-E-F Chairs in
- ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.
- H: High End Review







# **Cartridges**

REPLACEABLE STYLUS

Z						ilus		6	v. '*	
STA	PRODUCT	<b>(£)</b>	COMMENTS	V				V	V	
4	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		•	0.	55	11.5	2142	175
4	Denon DL110	70	A fine all-rounder, this high output MC model is likely to perform well		•	1	.0	6		48
1	Denon DL160	90	Although listeners just preferred the 110, its brother here survived lab tests and is still 'thoroughly competent'		•	(	).1	6		43
ı	Denon DL 103	100	Good performance in bass and good 'life'. Is seriously let down by its spherical stylus which kills subtle detail		•	(	).1	6		103
4	Denon DL304	200	Uncoloured, detailed, tracks superbly. Top notch altogether, and a bargain at the price		•					103
1	Dynavector Karat 17D2 mk2	450	Clean and controlled sound with taut, tuneful bass. Detailed and musically cogent	No.	•	0	.15	5.3		158
4	Dynavector Te-Kaitora	1,698	A real smoothie, but pricey. Worth checking out for its delicate laid-back transparency and low needle-talk		•	0	.25	8.5	2142	175
4	Dynavector XX-1L	998	Very clear, very detailed; a response lift around 20kHz seems to do no harm	20	•	0.	.25	12		84
1	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	0.0	7		67
4	Goldring 1012GX	79	Slightly harsh but plenty of life and detail. Some high frequency colouration apparent	•		• 6	5.5	7		85
4	Goldring 1022GX	99	As with 1012, a touch harsh; detail and transient purity improved	•		• 6	5.5	7		85
4	Goldring Eroica LX	110	Not the most subtle cartridge in the world: can sound edgy at times, but lively and informative		•	C	).5	8		84
ı	Goldring 1042	120	Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively, though	•		• 6	5.5	6		91
1	Goldring Elite	220	The basics are right, and it will cheerfully tackle any source material, but its sound is not the cleanest		•	C	).5	8		103
	Goldring Excel VX	525	Good bass drive but dull and imprecise higher up. An old-fashioned sound that falls short of the true high end		•	0.	.45	8	2143	175

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# Cartridges

REPLACEABLE STRUS

STA						3			
2	PRODUCT	(£)	COMMENTS			VV	V	T.	V
4	Grado Prestige Gold	149	Rich sounding with an unusually refined top-end for a moving magnet-type cartridge	•		4	6		158
l	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
4	Linn K9	125	Linn improved this model by beefing up the Basik's bodywork and adding a super stylus	•		4.5	5		Col
l	London Decca Maroon	259	Now manufactured under the London brand name, this Decca cartridge is as iconoclastic as ever	•		5.0	6	100	67
	London Decca S Gold	399	Immediate and detailed, but coloured and nonlinear, with a questionable effect on records	•		5.0	6		84
4	Lyra Lydian	649	Superbly capable all-round musical performer that improves markedly when its body cover is removed	2.33	•	0.3	7		158
4	Lyra Clavis Da Capo	995	A stable tracker, and one of the finest cartridges we've heard		•	0.1	7		143
	Lyra Parnassus D.C.t	1,895	A real little jewel of a cartridge, with many good qualities, but handicapped by a rather too obvious treble peak		•	0.22	10.5	2144	175
4	Ortofon 510/P	38	For the price, a good blend of virtues – weight, clarity and neutrality	•		3.0	5		85
4	Ortofon 520/P	65	Sensitive to load capacitance, but the 520/P has a lively, effervescent sound			3.0	5		67
4	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		•	0.35	7		103
	Ortofon MC25E	180	An excellent upgrade for a mid-price turntable		•	0.5	11		139
l	Ortofon MC25FL	250	A bit too stark and honest, but faithful to what's on the LP	- 88	•	0.5	11		139
l	Ortofon MC30 Supreme	525	Highly detailed and even-sounding cartridge that has a special affinity with female vocal recordings		•	0.5	10.7		158
4	Ortofon Rohmann	1,000	A class act in nearly every respect, with fine groove security and a very smooth and even-handed sound		•	0.25	8.5	2144	175
4	Ortofon MC3000II	1,100	A real ear-opener. Nothing to criticise anywhere – one of the very best		•	0.12	10		84
	Ortofon MC5000	1,500	Limited tracking ability, bright and forward sound, but good stereo		•	0.12	10		91
l	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
4	Rega Elys	85	Clearly superior to the Bias, the Elys is more detailed, accurate and convincing	•		5.0	5		67
4	Roksan Corus Black	130	Recognisably related to the Corus Blue, but smoother and more civilised	•		6.5	5		91
4	van den Hul MM-1	250	If woody midrange could be tamed, imaging and security would pull it through	•		5.5	6		103
l	van den Hul DDT-II	600	Outstanding stereo imaging and neutral balance are appealing, but rhythmically the DDT-II is a bit lazy		•	0.35	7.6		158
4	van den Hul MC-10	750	A neutral, balanced performer, gives fine depth and focus and a firm, extended bass		•	0.4	6		60
4	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
4	van den Hul Frog	1,500	Seems to control/suppress surface noise better than its rivals. This delicate and subtle performer has great charm		•	0.65	7	2145	175
4	van den Hul G' hopper IIIGLA	2,800	Undoubtedly one of the finest cartridges available. It has tremendous bandwidth, energy and finesse		•	0.4	6		122
4	Wilson benesch Matrix	786	Extraordinarily well balanced cartridge: neutral and detailed yet lively and rhythmically assertive		•	0.58	6		158
4	Wilson benesch Carbon	1,573	Carbon fibre body contributes to a delightfully clean and open midrange, and a quick, lively and coherent sound		•	0.45	7	2145	175



## **Cassette Decks**

The compact cassette stall the words most versatile and uniquinus music, survage 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.

### KEY TO 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

3-HEAD: Permits monitoring off-tape while you're recording.
 TWIN DECK: Contains two

decks for dubbing and continuous play.

• AUTOREVERSE:
Autornatically plays both sides of

AUTO CALIBRATION: The deck will automatically set up bias and EQ for any tape.

ADJUSTABLE BIAS: Permits manual optimisation of tape.

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Ht High End Review







# **Cassette Decks**

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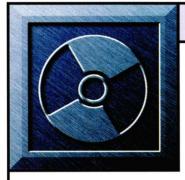
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OOLBY C SPECIFICATIONS

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S	PRODUCT	(£)	COMMENTS	$\mathcal{M}$	V	V	V	V	V	V	7	V	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	•		•	600	•	•		•	1377	146
B	Denon DRM-550	160	There are some technical limitations, but this remains a fine-sounding deck, and excellent value	•		•					•		158
	Denon DRW-580	200	Twin deck: OK for casual use, but will quickly pall with more quality critical applications	•		•		•	•		•		171
1	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	•	•	•				•	•	1920	164
	Denon DRM-740	270	Breathed-on DRM-710, with good external treatment, offers good, if somewhat detached sonics	•		•		•			•	1514	136
	Denon DRS-810	310	Draw-loading deck, carefully designed yet lacking in subtlety on audition	•	JOY 1	•	•						127
	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	•		•			•		•		158
4	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	•		•		•	•				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	Onkyo 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	•	•	•	•	71-3		•		1920	164
	Pioneer CT-W806DR	300	Had it not been for the iffy transport quality, this sophisticated twin would have been Recommended	•		•		•	•	•		2042	171
							De	ecemb	er 199	8 HI-	FI CH	HOICE	127

TATUS	Cass	se	tte Decks	DOLBY C DOLBY	OLBY HX	3-HEAD	AUTO RE N DECK	TO CALLEVERSE	DIUSTABI BRATION	ICTS BA	SUE NUI	MBER	0
5	PRODUCT	(£)	COMMENTS		V			V	V	V	VA	ANK	
4	Pioneer CT-S830S	500	High-class mechanism, if lacking in battleship externals, and superb sound		•	•				•	• 13	85	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		•	•	•			X.			184
B	Technics RS-AZ6	200	For those who can't afford the RS-AZ7; clarity over the widest bandwidth thanks to	AZ thin-film head	•	•	•			•	19	20	164
B	Technics RS-AZ7	270	Thin-film head gives a solid, almost CD-like bass and midrange. A clear advance in	n state-of-the-art	•	•	THE S			•	•		158
4	Yamaha KX-490	200	Electrifyingly transparent and capable deck whose only flaw is a trace of audible w	ow and flutter	•	•			TOTAL STREET	•	•		158
4	Yamaha KX-580SE	250	Subtle, engaging and transparent deck, with a lightweight tonality, but stability and	strong detail	•	•				•	• 20	43	171



🚜 BEST BUY

## **CD/DVD Players**

II CD players offer a basic selection of facilities, and some can keep All CD players offer a pasic science of receiver on received, and a series and track

you entertained for hours as you programme in disc names and track

Application of the series of t 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.

**RECOMMENDED** 



### 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-tray system for continuous play of multiple discs.

• DAC TYPE: BS - Philips Bitstream; MB multibit; Hyb - hybrid of multibit and bitstream technologies; 1 bit - single bit types eg MASH, bitstream, PWM, etc; CC constant calibration.

• FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full information, see the Factsback advert on the penultimate page of the magazine.

• ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared. Factsback information page.

● MULTI-DISC: Equipped with a carousel or H: High End Review

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STATUS				7	W.	UT		17 "	ET "	-			(6) N
S	PRODUCT	(£)	COMMENTS										
4	Acurus ACD11	899	First-rate if costly player, which combines a delightful transparency with an uncontrived naturalness	•							1bit	1962	166
	Acoustic Precision Eikos .	1,850	Seriously customised Pioneer with extraordinary resolution and world beating imaging and bass	•							1bit		165
4	Alchemist Nexus APD32A	597	Refined treble, constrained yet capable bass and attractive all-round presentation	•							Hyb		169
	AMC CD8A	150	Has balanced output, but is otherwise rather grey and unremarkable		200	•		•	•	•	BS	2071	172
4	AMC CD9/DAC8	200	Beer-budget two-box system (player + DAC) is smooth, attractive and easy on the ear	•		9.33					CC	2261	179
	Anthem CD1	1,595	Unusual combination of high-end player, complete with HDCD, and changer. Good, but noisy	•	•						<ul><li>MB</li></ul>	2219	178
4	Arcam Alpha 7	330	Mildly rehashed favourite comes up smelling of roses	•					1,17		BS	1872	179
4	Arcam Alpha MCD	450	Excellent bass and natural midband, but just a touch of treble dryness, from this very listenable changer	•							<ul><li>MB</li></ul>	2220	178
4	Arcam Alpha 8	520	Refined, intricately detailed but a little cautious. Should be broadly compatible with a variety of amps	•	Louis						BS	1873	163
4	Arcam 8SE	600	Excellent (and very reasonably priced) HDCD-compatible player is a strong all-rounder	•		•		M.E.			1-bit		176
	Arcam Alpha 9	800	Looks like other Arcam CD players, but sounds compressed and lacking in detail	•		•					Ring DA	AC .	184
	Audio Research CD1	3,290	Suspends disbelief with a real yet obviously coloured sound. A rare proposition among CD players	•	•	•	•				BS	1875	163
	AVI S2000MC2	899	A chip off the old block. This model's in-yer-face balance obstructs an otherwise finely detailed sound	•							MB	2179	176
4	AVI S2000MC Reference	1,399	Lean, dry, high resolution player, built to outlast most of us. A fine performer in a sympathetic system	•							MB		169
4	Cambridge Audio CD4	150	Basic appearance and sluggish track access/track search belies its up and at 'em sound quality	•					•		Hyb	1268	147
4	Cambridge Audio CD4SE	200	Among the best encountered at the price, considerably more refined and convincing than the CD4	•							BS	1877	163
4	Cambridge Audio CD6	250	A sharp, articulate player, a real thoroughbred in fact, perhaps too sharp and lively for some systems					•			BS		159
4	Copland CDA-266	1,199	Simple yet elegant design is unexpectedly sophisticated under the skin, and effective in execution	•							MB	2183	176
	Copland CDA-288	2,199	A gentle giant of a player that errs in favour of pastel shades rather than bold daubs of colour	•		•				137	MB	1880	163
4	Cymbol CDP12	1,299	Clean, detailed and airy HDCD-equipped player with minimalist trappings	•						•	Hybrid	d2184	176
4	Denon DCD-635	180	Modest presentation gives little clue to the thoroughbred electronics ticking away inside	7500					•	133	MB	2075	172
	Denon DCD-625	200	DCD-615 replacement is generously equipped but lacks sophisticated sound of its forebear	•		Yan E			•		MB	1269	147
4	Denon DCD-835	280	Refined version of Denon's multibit technology is a bit of a star	•		•				•	MB		184
١.	Denon DCD-1550AR	350	Disappointing bland and ploddy sound from an immaculately constructed, high tech player	•		•			•	•	MB	2266	179
4	Denon DCD-1015	350	Excellent, mid-range player – fast, fluid and lean	•	•	•			•		MB	1599	141
4	Denon DCD-3000	1,000	Sings with the temperament of a huge orchestra under the baton of a timid conductor	•		•		1			MB	1881	163
١.	harman/kardon HD710	200	A player of integrity, but can sound a bit hard and rough when extended, and is amplifier fussy	•			-1		•		1bit		159
4	harman/kardon HD730	300	Competitive at the price, with a coloured but dynamic and outgoing sound, good features	•					•			1957	166
4	harman/kardon FL8300	300	Generally capable changer with relaxed sound and firm bass. Just a hint of roughness on occasion	•		•			•		100000	2220	178
4	Helios Model 2	950	This player may not be to everyone's taste, but it is an individual, with some interesting things to say	•								2180	176
4	JVC XL-V184BK	120	Excellent budget player, well presented, a little opaque, but its heart is in the right place						•	EG.	1bit	2072	172
4	JVC XL-V284BK	140	Featuring a new set of bitstream innards, this flexible player has a refined sound	•		•			•	020	1bit	1270	147
١.	JVC XL-Z574	250	Strong resolving power, good midband and dynamics, but slightly raw and thin			•			•		1bit		159
1 7	JVC XL-Z674BK	300	Even-handed, but glosses over the most intimate moments	•		•			•			1637	151
4	Kenwood DP-3080	170	Bold, dynamic and outgoing sound, though somewhat aggressive. Poor build quality and finish			•		8:15	•	12	1bit		159
4	Kenwood DP-4090	250	Focuses a clear, wide aperture lens on the music — and has CD Text too!	•		•			•	•	1bit	2076	172

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`		7	ID Diames & Mr. Mr.	OPTICAL ST OPT DIA ANALOPHONE SOUTH OUT			
<b>S</b>			VD Players	OPTICAL ST BAL AHEADPHANABLE MULT. DACFACT, BU ELEC DIG OUT DIG OUT UF OUT SOCKET OUTPUT OUT THE OUT	ISSUE NU.	n.	
STATUS	00/1		Diagon	ONLY DIC ON DAIL ON OR SOCKET AND SEC. NO	No.	MBER	6
ZE	PRODUCT	(£)	COMMENTS	· · · · · · · · · · · · · · · · · · ·	7 V	V	
	Kenwood DP-5090	300	Disappointing senior brother to the excellent DP-4090, but surface interface is good	• • •	1-bit 2		179
B	Kenwood DP-7090	400	A lively and compelling performer with an even-handed and coherent disposition	•	MB 1		163
	Linn Mimik Marantz CD-48	875 200	Useful multi-room features matched to strong bass, but poor imagery and transparency  Somewhat inconsistent, middle ranking player which hints at better things		Hyb 1 1bit 2		155 172
4	Marantz CD-67 Mk II	250	The digital equivalent of a safe pair of hands. Smooooth		BS 2	_	179
	Marantz CD-67SEmkII	300	Lacks dynamic consistency to justify the stunning performance with simple material	• • •	BS		184
4	Marantz CD-67SE	350	Refined, enjoyable player, though ultimately a little soft-centred	• • •	BS 1		166
4	Marantz CD-63Mkll KI Sig Marantz CD-17	500 800	It's the quintessential sound of Marantz — warm, open, and smooth almost to a fault  Fabulous packaging and an excellent all round performer: smooth, detailed and consistent		Hyb BS 1		155
4	Marantz CD-17KIS	1,100		• •	BS 2		176
4	Meracus Tanto	1,395			DS		169
B	Meridian 506	1,100	1 1		1 bit 2	_	176
A	Meridian 508 (20-bit) Mission Cyrus dAD3	1,995 598	Combines a delicate mid and treble with rich, opulent bass and has impressive low-level resoluti A relaxed style of delivery that convinces with guile and subtlety rather than orchestral ordnance	on • •			163
4	Mission Cyrus dAD3Q	898	Lucid, transparent and uncontrived sound quality, superb build, and readily upgradeable	•		_	169
Ĩ	Monrio Privilege	995	Costly and well-engineered, but ultimately rather heavy-handed and dull, if refined player	•	MB 1	963	166
_	Musical Fidelity E60	300	This entry-level player lacks proper stereo localisation and clarity	•	BS 1		166
B	Musical Fidelity A2 Musical Fidelity X-RAY	500 799	Warm (too warm), attractive and open player, a great improvement on (related) E60  Brilliantly packaged and clean but slightly antiseptic sounding player		BS MB		169 184
	Musical Fidelity FCD		A forward disposition makes this perfect for Fenders but less appropriate to Guarneris	•	BS 1		163
	Myryad T-10	400	Rather ordinary player fails to shine with good music recordings	•	DS		184
4	Myryad MC100	700	A little extra get-up-and-go wouldn't go amiss, but its sheer maturity and composure ensure listena				163
	Myryad MCD500 NAD 522	1,300 170	Well-built, attractive player, showing much promise, but can be a little heavy-going, on audition  Crude, mechanical sounding player fails to tickle the music buds		1 bit 2		176 179
	NAD 510	200	Pale version of NAD's senior CD players with a stripped-down feature count		1 bit 2	-	179
	NAD 512	250	Simple, well-focused presentation, and articulate with it. Hard-nosed quality is not everyone's cup	of tea •	1bit		159
	NAD 523	250	Nothing seriously amiss with this classic NAD 'no-frills' changer, but it lacks that vital spark		1170 2		178
4	NAD 514	370	Boisterous sound, but undeniably attractive	•			151
4	Naim Audio CD3 Naim Audio CD2	2,000	The idiosyncratically packaged CD3 is solid and highly articulate. Always has its feet on the groun Provides bags of detail with a solid stereo focus but not all the romanticism we know to be possible.		MB 1	_	155
4	Onkyo DX-7210	260	Well-bred CD player features an unusual digital filter, is smooth and cultured without appearing by				147
	Onkyo DX-7510	400	Strongly flavoured, assertive sound	•			151
4	Orelle CD-100EA	649	Excellent imagery, timing and transparency, and readily upgraded or reconfigured	• • •	MB 19		166
B	Parasound C/DP-1000 Philips CD-721	499 130	Comes on like a high end player, but ultimately sounds a tad weak and soft-centred Surprisingly well-sorted, articulate if slightly glossy and attractively presented sound. Captive signal	lead	Hybrid 1bit		184
7	Philips CD751	150	Inconsistent and occasionally opaque and scrawny sounding cheapie	•	1bit		172
	Pioneer PD-S705	300	This machine was loved by some for its articulacy and disliked by others for sounding too impre	ssive! • •	BS 1	891	163
4	Pioneer PD-S707	300	Idiosyncratic Legato Link dominated sound, but always subtle and interesting	• •	MB		184
	Pioneer PD-F906 Pioneer PD-S904	350 400	Interesting appearance and concept, but this changer's sound is lacklustre and ergonomics frustr.  Too much legato – literally – in sound, but a very smooth performer	ating • •	1bit 2		178 151
4	Pioneer PDS-06	550	Technologically sophisticated. Pioneer's first multi-bit player for years is polished and capable	• •	MB 2		176
4	Pioneer PD-S505 Precision		Assured, fluid-sounding player, with great spatial coherence	•	1bit 19		166
4	Quad 77	900	A true thoroughbred combining a penetrating insight into detail with poise rarely found at the pr		Hyb 18		163
A	Revox Exception E426 Roksan DP3P	2250		•	BS 16		182
4	Roksan Caspian	1,495 895	Dramatic and compelling. Classical listeners should be ready to 'air conduct' when auditioning Solid, articulate, and fundamentally well-engineered player, but with some subtle low-level limita	tions •	BS 18		163 169
4	Rotel RCD-971	350	Odd disc handling logic, but bold, detailed and refined sound make this a must	•	MB		184
_	Rotel RCD-970BX	375	A combination of solid build, useful facilities and an attention-grabbing sound make this a winner				163
4	Sherwood CD-4030R	180	Easy on the ear, smooth-sounding player, with limits set by the slightly soft, compressed quality		BS 10		159
A	Sherwood CD1 Sony CDP-XE310	1,100	A very neutral, even handed sounding player with a rather flat, lifeless sound. Beautiful construct Excellent value and bright as a button, but can sound OTT in some systems	ion •	BS 18		163 179
4	Sony CDP-XE510	180	Souped up CDP-XE500 which tells a rather bland and unengaging story	• •	1bit		172
-	Sony CDP-XB720E	200	Good basic performance and a number of filter settings make this an interesting player for twee	iks • •	Low bit		184
4	Sony CDP-XE900E	300	Refined and analytical disc scavenging tool, some distinctive colourations make auditioning vital	- United States	BS		159
B	Sony CDP-XA20ES Sony CDP-X3000ES	450 500	High tech, with a long list of gadgets, oddly configured player that ultimately sounds less than compe Shoebox format player, looks to die for, switchable digital filters to tweak the already excellent so		1-bit 2		176 169
7	TAG McLaren CD20R	1,249		und	1bit		184
B	Teac CDP-3450SE	200	For once a budget player where gadgets take second place to respectable, budget amp-friendly s		16it 19	960	166
	Teac CD-5	350	Bright, breezy and up-beat – but short in the trouser department				151
	Teac VRDS-7 Teac 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 17		155 184
	Teac VRDS-9	700	Well-presented. This Teac is crisp, yet shallow, and inconsistent in sound quality and partnering skill		I-bit 2		176
	Teac VRDS-10SE	850	Superbly built and presented, but rather leaden bass, with an over-prominent mid/top	• •	BS		169
	Teac VRDS-25	1,300	7,7	• •	MB 19		163
Λ	Technics SL-PG480A Technics SL-PS670D	130	Full driving sound, but somewhat uneven in balance with a unsubtle, slightly harsh top end	•	1bit 1 bit 22		159 179
4	Technics SL-PS770D	200	Fine, middle ranking player which sounds solid, sometimes even a little stolid  High tech and well built technology battleship which smoothes the rough edges off the music	• • •	BS 20		179
4	Technics SL-MC410	250	If you fancy a CD player that holds 111 discs, this one's cheap, pretty capable, and easy to use				178
	Trichord Genesis	549	Breathed-on Pioneer is warm and mellifluous, but ultimately lacks drive and authority	• • •	Hyb		169
	Trichord Revelation	799	Well-ordered and clean sound that may be a little too refined for some, images well		1bit 19		166
	XTC CDP-1	1,250	Bright and sometimes abrasive, but detailed player	•.	MB 2		176

CONTINUED				SPEC	IFICA	I I O N	5		7	
CD/I	N	D Players	AES/EBU ELEC DI DIGITAL OUTPUT	ST OPT DIG DIG OUTPUT	HEADPHONESO OUT	MULTI-LE OUTPUT	DACTSB.	ISSUE N ACK NO	WMBER	,
PRODUCT	(£)	COMMENTS		V	V V V		VV			
Wadia W830	3000	Envelope busting dynamics, power and imaging in a rather unexciting box (digital volum	ne control)		•		•	MB		183
Yamaha CDC-665	220	This player 'offers many features and highly listenable sound, with tidy and tuneful bass and g	good imaging	•	•		• •	1bit	2225	178
Yamaha CD-X993	400	A bit of a lush, though the sound is singularly free of grain, and equipment levels are str	rong	•		•	•	BS		184
TRANSPORTS									*,	
Linn Karik	1,850	Based on early Linn transport, the Karik is dry but very positive, detailed and engrossing	•	•				-	1323	144
PS Audio Lambda	2,250	With Ultralink Two, sound positively sparkles with colour and resonant detail		•					1106	133
Roksan Attessa ATT-DP3	1,295	Not the most detailed or refined but capable of sounding exciting with the right material	•	•				1bit	1867	162
Teac VRDS-T1	550	Superb quality engineering is mated to tidy and composed sound (tested with D-T1)	•	•				-	1325	144
Theta Data Basic II	2,397	Uses a Philips CDM9 Pro mechanism and works a treat with more lively DACs	•		183			-	1494	130
Thorens TCD2000	999	Lively presentation not helped by rather loose bass and splashy treble. (Tested with TDA	2000 DAC)	•				-	1867	162
Trichord Digital Turntable	699	Very detailed, precise, controlled yet involving; a first-rank performer		•				-	1867	162
Wadia 8	3,195	Budget version of Teac's VRDS mechanism in a fancy case; too expensive for the performance	ce on offer		•	1.		-	1495	130
DACS										
Audio Note DAC1	675	Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or be	ass will suffer					MB		127
Linn Numerik	1,500	A new 20-bit DAC and revised Karik transport have cleaned up, but sounds a bit dry and	humourless					MB	1323	144
PS Audio UltraLink 2 HDCD	2,590	The sound positively sparkles with colour and resonant detail. (Tested with Lambda trans	port)	ii		10		MB	1106	133
PS Audio Reference Link	4,550	Consolidates reputation of PS Audio for high p'erformance 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			1 - 192	8		1bit	1867	162
Teac D-T1	500	Teamed with VRDS-T1 for test, this superb quality unit is tidy and composed					339	BS	1325	144
Teac D-700	600	With P-700, the D-700 may lack the resolution, but is bubbly and entertaining						MB		120
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, d	ither etc		91		17/4	Hyb	1867	162
DVD PLAYERS										11000
Denon DVD-3000	700	Enjoyable rather than analytical, includes 24/96 and AC-3/MPEG-2 Audio		•		•		BS		180
Micromega Premium DVD	1,500	Unique lack of regional coding constrictions but both DVD and CD replay are compromis	sed	•				BS		183
Panasonic DVD-A350	700	24/96 converter and AC-3 & MPEG-2 Audio included, well balanced, if slightly blurred and	d shut in	•	- 151	•		BS		180
Pioneer DV-505	450	Plenty of analysis, with a slightly ragged edge. Rescued by the price & S/PDIF capabilities		•				BS		180
Pioneer DVL-909	900	DVD and LD player: self-recommending to AV nuts; musically detailed but occasionally seen	ms disjointed	•				BS		180
Sony DVP-S715	600	24/96 converter for DAD compatibility, sharp, forward, but slightly unsubtle sound				•		BS		180
Toshiba SD3107B	550	Dynamic sound and good stereo which lacks lowest stratum of detail	•	•		•		BS	1	180

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## **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 launched in the early '90s but only MD has stayed the course. A little later came domestic CD-Recorders using CD-R discs, while the latest twist is the arrival of rerecordable CDs know as CD-RW discs. The recording quality hierarchy is as follows: DAT, CD-R/CD-RW, MD. MD is probably the most convenient to use, and offers sophisticated editing facilities, while CD-R is ideal for making digital 'clones' of prerecorded CDs. DAT is the medium of choice for high-quality location recording.

### KEY T O **SPECIFICATIONS**

see left for descriptions. DAC TYPE: Digital to Bitstream; MB - multibit; Hyb hybrid of multibit and bitstream;

• FORMAT: Type of recorder

analogue converter: BS - Philips 1bit - single bit types such as

MASH, bitstream, PWM etc ADC TYPE: The analogue to digital convertor (ADC) converts

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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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EDITOR'S CHOICE

# **Digital Recorders**



E	2-9-		*		.LE	AF	007	PUTS	15	O. MBE	R
15	PRODUCT	<b>(€)</b>	COMMENTS		V		V	V		V	
	MINIDISCS			XMM 2010 MANNE	CO SCOR DE SANCER DA				Personal Control Control		ena-unicola Bustin
	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	1133	•		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	R	•	•	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	ST.	•	•		171
	Pioneer PDR-05	1.000	The first domestic CD-R deck — excellent sound quality	CD-R	RS	BS	417	•	•	1652	152



## Headphones

Vivanco Cyberwave FMH3000 80 The only cordless 'phone to offer genuine walkabout freedom, but. sounds like a cheap FM tuner

here are several different ways of making a headphone. The most There are several difference ways or marking a consequence of expensive models employ electrostatically-driven diaphragms within an open-backed earcup. Most mid-price designs feature dynamic, moving-coildriven diaphragms in open, semi-open or closed-back designs. An openbacked headphone can sound remarkably transparent, but also permits the ingress of external noise. Closed-back designs keep out unwanted sound, but may be less comfortable to wear and more coloured. The latest development is the cordless headphone using either infrared light or, more recently, radio waves. Quality is improving, but has yet to match the best corded designs.

### KEY TO SPECIFICATIONS

• TYPE: Operating principle: dynamic: F - electrostatic SUPRA-AURAL: Where a flat

 CIRCUMAURAL: Where the rcup encloses the ear.

 OPEN BACK: Offers an nen sound but lets in noise. CLOSED BACK: Keeps out ● MASS (g): Mass in grams

ullet IMPEDANCE ( $\Omega$ ): Load offered to the headphone amplifier. Many headphones offer a significantly higher value than loudspeakers, for example, but this does not mean they will be incompatible with the majority of amplifiers.

• 3.5MM JACK ADAPTOR: Compatible with mini-jacked components, eg personal stereos. H: High End Review

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SPECIFICATIONS

SUPRA CIRCUM OPEN CLOSED MASS MADEDAN JACKS SUE NIL



# Headnhones

STATUS	IIGa	u	hinning2	AURAL	MAURAL BACK	ED BACK	(8) ANCE	(CK ADAL	ACK A	NUMBER	:
b	PRODUCT	(E	COMMENTS	V	V V		VV	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
4	Audio Technica ATH910PRO	80	The closed back 910s are an improvement on the 909s, with a nice rhythmic quality rarely found	D	•	1977	• 280	40			55
	Beyer DT100	160	Rugged, modular professional design, but bass is woolly and treble lacks detail	D	•		• 350	600			157
	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
4	Beyer DT511	106	Superb midband clarity and speed slightly at odds with soft bass. High tingle factor, even so	D	•		200	250		2063	172
4	Beyer DT531	135	A good buy for serious, heavy-duty music making	D			245	250			144
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	•	That	• 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	D	•	•	60	8	•	1801	157
4	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
4	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
	JVC HA-D910	65	Broadly acceptable if unexciting design with low level losses and some colourations	D	•	- Rive	• 220	32	•		121
	JVC HA-W60	49	Remarkable lack of interference and hiss ameliorates adequate sound of this cordless design	D	•	0.00	• 165	I/R	•		172
	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			255	32	•	2064	172
	Philips SBC HP900	90	Sharper, snappier midrange than 3396: initially impressive but blows it on balance and listenability	D		100	• 200	32	•	2065	172
	Sennheiser IS 380	55	As close as you'll get to real hi-fi with infrar-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 475	80	Elegant, uncluttered sound and very comfortable but lean bass saps satisfaction	D	•	•	120	60	•	2065	172
4	Sennheiser HD 545	125	Fine all-rounder that takes all styles of music in its stride. Ear-clamping headband	D		•	255	150	•	2066	172
4	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	998	Very nearly a superb electrostatic, with a pure midband, but top end is sibilant and edgy	Е		•	260	n/a		1898	163
	Sony MDR-CD770	100	Neutrality and comfort make the Sony easy to live with. Correct-sounding too, yet musically unrewarding	D			• -	- 1	•	1801	157
4	Sony MDR-CD1700	200	Astonishingly detailed, uncoloured and free of the usual artefacts from a sealed back headphone	D			325	32	•	1901	163
	Sony MDR-F1	100	Natural, easy-going sound teamed with great looks and comfort. Shame about the lightweight bass	D		•	300	12	•	2066	172
	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
4	Stax Lambda Nova Basic	449	Refined, articulate, yet with real presence – and a notable bargain by electrostatic standards	E	•	•	347	n/a		1902	163
Ī	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	•		172
4	Vivanco SR650	50	Unusually comfortable 'phone with excellent detail resolution but aggressive	D	•	•	175	-	•	1801	157
4	Vivanco SR750	60	Cossetting physical design, attractive sound, though suffers overhang and lacks ultimate dynamics	D	•	•	188	-	•	1801	157
-		_		-	-	1111111111	-		-		



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● 210 FM ●

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## Hi-Fi Loudspeakers

As the last link in the hi-fi chain, loudspeakers are at the mercy of incoming signals. Nevertheless, distortions introduced by loudspeakers (and rooms) tend to be the most obvious. The average loudspeaker comprises an enclosure 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).

### KEY TO SPECIFICATIONS

- SIZE wXhXd (cm): Width by ght 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.
- ullet IMPEDANCE  $(\Omega)$ : Impedance, measured in Ohms, indicates how much resistance

the speaker presents to an amplifier. As impedance decreases, demands on an

 BASS FROM (Hz): The lowest frequency that a speaker can reproduce effectively.

should not sit dose to walls. CLOSE TO WALL: Speakers which should sit between 3 and

SPECIFICATIONS

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Product   10	VUMBER	SSUEN	SBACK	FACT.	LOSE	EES	FRE	SS FR	BAN EDAN	SENSITIVITY (O	SIZE WXHXD (CM)	peakers	ZEWX	E WXHXD (C	CM	SENSITIVITY	IMPETY (de	EDAN BA	ASS FR	FRION	CL SP.	OSE	FACT.	SBACK	NO. NO.	b
Accusing Firmings #2100	. 4			AA		· </th <th></th> <th>V</th> <th>(m)</th> <th>V</th> <th></th> <th></th> <th></th> <th></th> <th>''')</th> <th>7</th> <th></th> <th>(m)</th> <th>V 145</th> <th></th> <th>(A)</th> <th>A</th> <th></th> <th>· (</th> <th></th> <th>7</th>		V	(m)	V					''')	7		(m)	V 145		(A)	A		· (		7
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And Comments of the Market Name of the Comments of the cather forward presentation can be uncomfortable   24,451   83   8   28   4   And/or Name ANAIG   79   Upta demonstrated with lock of physical years of the Comments of	1904	_	-		-		_	-				7. 1. 7			100		_	_	-	_	-	-		-		16
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Mediatron   1,199	1744	_	100		-	-	-	-	-						_	-		-	-	-	-	-		100	1744	
## In Smort Coastands*   490   Beautifully systed and finished, respectable michand. Lacks definition towards frequency extremes   23,232.5   6.5   6.0    ## BWW DAKSID*   191   Beautifully systed and finished, respectable michand. Lacks definition towards frequency extremes   23,232.5   87   6.4   6.1    ## BWW DAKSID*   199   Creat main finished and neutral all rounders, cleer from enclosure   193,232.2   88   4.5   6.30    ## BWW DAKSID*   199   Creat main finished and neutral all rounders, cleer from enclosure   203,535,23   88   6.30   6.30    ## BWW DAKSID*   199   Creat main finished michands   199   199   190   1	1344					-			-		201	Ů Ú						_							1344	18
BAW CDMSE	2170		E SE	-	-		-		-									-		-	-	-	-		2170	-
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SBM DM602   390   Creat man driver for the price, extretaining dynamics   20,535,523   88   6   30	1770		100000000000000000000000000000000000000		-	-					ency extremes		areme	remes			200				-		-	200	1770	18
BAW DMS05  500 Perfects tall stands and space, but offers impressive methand dynamics and musical tension  24,833 90 8 30	1778	_				100		-	_										-	_	-	_		_		
BaW DM305   550   Redged paper cone gues levely sound, dever box, but a little uneven   22,87,31   8.99   4.40   8.8W DM305   500   Squat floorisancer with deem dynamic and velopidided, restrained balance; base could go deeper   22,588,29   9.89   7.4   5.0   8.8W CDM7   20,000	1779			•	_	-	-								_					-	-		•			15
BAW CDMTSE   600   A great hooling stand-mount with one of the best michands sound, and a subdet belief of other qualities   22,572.79   88   5   40   8   8   8   7   45   9   8   8   7   45   9   8   8   7   45   9   8   8   7   45   9   8   8   7   45   9   9   9   4   22   9   9   4   25   9   9   4   22   9   9   4   22   9   9   4   22   9   9   4   22   9   9   4   22   9   9   4   22   9   9   4   22   9   9   4   22   9   24   24	1654				-	-	-				sion									-	-	-				-
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B&W Matrix 805 V   1,095   Sylich, remarkable imaging, good balance and low coloration   33,33,21   87   8   30   ■	-	200000		-	- COOR		1000	-	-	William Control					200	William Inc.	11000	_		1		<del>200</del>		100000	2209	100000
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Casise Farelia 400 950 Exoting but very upfront-and-in-yer-face sound. High sensitivity, fine build and good dynamic drive 259.23.2 ● 92 5 28 ● Casise Iss Casise Rendia 500 A great ministure at a competitive price. Sound is lightweight but very coherent, with a fine overall balance 117,555,21 8 8 4 5 ● Casise Rendia 500 A beautifully inside drompsat floorastender with a decidedly floward but communicative sound. 17,67,60 8 6 6 5 ● Casise Rendia 500 Casise Rendia 500 Casise Communicative Sound				•	-	-	_	-	_						_		1000	_	_	_	10000	-	•		1985	16
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Castle Kendal 500 A beautifully finished compact floorstander with a decidedly flooward but communicative sound. 17,76,20 ● 86 6 45 ● Castle Seven 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 ● Castle Avon 730 Lovely box and lovely voices from carbon-fibre composite cone 22,91,28 ● 85 8 22 ● Castle Harlech 880 Handsome bje, sounding floorstander, great value and dynamic midrange 29,96,33 ● 88 8 28 ● 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 ● 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 ● 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 ● Castle Howard S2 1,200 Committed Winchester, has a rich, laid back balance 26,104,41 ● 90 8 40 ● Castle Howard S2 1,200 Committed Winchester, has a rich, laid back balance 26,104,41 ● 90 8 40 ● Castle Howard S2 1,200 Committed Winchester, has a rich, laid back balance 26,104,41 ● 90 8 40 ● Castle Howard S2 1,200 Committed Winchester, has a rich, laid back balance 26,104,41 ● 90 8 40 ● Castle Howard S2 1,200 Committed Winchester, has a rich, laid back balance 24,41,35 8 8 6 25 ● Castle Howard S2 1,200 Committed Winchester, has a rich laid back, but a true quality sound; lovely build 24,41,35 8 8 6 25 ● Castle Minister Park Winchester, has a rich laid back, but a true quality sound; lovely build 24,41,41,55 8 8 6 22 ● Castle Minister Park Winchester, has a rich laid back presentation 24,91,33 9 8 6 22 ● Castle Minister Park Winchester, has a rich quality sound; lovely build 24,41,41,55 8 8 6 22 ● Castle Winchester, has a rich quality sound; lovely build wild back presentation 24,91,33 9 8 6 22 ● Castle Winchester, has a rich quality sound; lovely build wild back presentation 24,91,33 9 8 6 22 ● Castle Winchester, has a rich gastle wild back presentation 24,91,33 9 9 8 6 22			100000		-	1000			-			, , , , , , , , , , , , , , , , , , , ,					-	•			2000			-		18
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Calestion 12i 19 Not without virtue, but the relentless enthusiasm and mid-band colourations can become wearing 1931,21 88 6 45 € Calestion 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 € Celestion A1 899 Rct, warm and laid-back, but a true quality sound, lovely build 24,41,35 88 6 25 € Celestion A2 1500 Full scale, big sound from ultra-elegant floorstander. Smooth and slightly laid back presentation 24,935,39 € 89 6 22 € Cervini-Vega VS10 350 Not very refined but extremely belays, these rock boxes have no shortage of ging-ho 33,70,29 9 55 6 37 € Chario Synatri 100 249 Pretty with a pleasantly easygoing balance, but not the most communicative or exciting sound around 18,32,27 87 6 45 € Chario Academie 1650 Pricey Italian stand-mount, has high class sound and appearance. Solid walnut enclosures 25,40,31 84 8 40 € Dali 606 400 A big bruiser at a tempting price. Sounds refined and polite, but also packs some punch 22,97,32 9 91 4 25 € Dynaudio Audience 5 400 Follows the Dynaudio tradition for fine midband transparency, but the overall timber is a bit thin Dynaudio Audience 5 577 This stand-mount does'n look big, but sound quality can match many models at twice the price 20,33,25 86 4 30 € Dynaudio Contour 1.8 1842 Wonderful voice-band delicacy and loads of deep bass from a very elegant and compact box 2195,29 8 85 4 20 € Ettax Linear Response 249 A curiously dumpy shape, but smooth, laid-back performer is easy on the ears, with fine tonal accuracy 25,355,32 85 4 40 € Epos ES14 675 Substantial stand-mount delivers delightful midrange focus and delicacy with good bass control 23,49,29 87 8 25 € Epos ES14 675 Substantial stand-mount delivers delightful midrange focus and delicacy with good bass control 24,40,27 88 7 40 € Epos ES14 675 Substantial stand-mount delivers delightful midrange focus and delicacy with good bass control 25,49,29 87 8 25 € Epos ES14 675 Substantial stand-mount delivers delightful midrange focus and delicacy with goo	1909			•	22	_	_		_	22,91,28		m carbon-fibre composite cone				22,91,28	3 (	•	-	_	-	2	•		-	
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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   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   Dali 606 Pricey Italian stand-mount, has high class sound and appearance. Solid walnut enclosures 25,40,31 84 8 40   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   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   Dynaudio Audience 5 577 This stand-mount doesn't look big, but sound quality can match many models at twice the price 20,333,25 86 4 30   Dynaudio Contour 1.8 1,842 Wonderful voice-band delicacy and loads of deep bass from a very elegant and compact box 21,955,29 85 4 20   Eltax Linear Response 249 A curiously dumpy shape, but smooth, laid-back performer is easy on the ears, with fine tonal accuracy 25,353,22 85 4 40   Epos ES12 499 High quality luxury stand-mount bas great midband and stereo imaging 20,382,5 85 8 4 5   Epos ES25 1,655 Handsome floorstander with a rather uneven and bass heavy balance 24,90,35 88 6 22   Epos ES25 1,655 Handsome floorstander with a rather uneven and bass heavy balance 24,90,35 88 6 22   Epos ES26 1,655 Handsome floorstander with a rather uneven and bass heavy balance 24,90,35 88 6 22   Epos ES26 1,655 Handsome floorstander with a rather uneven and bass heavy balance 24,90,35 88 6 22   Epos ES26 1,655 Handsome floorstander with a rather uneven and bass heavy balance 24,90,35 88 6 22   Epos ES26 1,655 Handsome floorstander with a rather uneven and bass have the fine ministure stand out from the crowd 22,40,27 88 7 40    Gale 2i 140 Unspectacular sound and appearance fail to help this solid little ministure stand out from the crowd 22,40,27 88 7 6 50    Elected 14 18 18 18 18 18 18 18 18 18 18 18 18 18	1910			•	25	1	6	88		24,41,35		true quality sound; lovely build				24,41,35	5		88	6	2.	5			1910	16
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Dynaudio Contour 1.8  1,842 Wonderful voice-band delicacy and loads of deep bass from a very elegant and compact box  21,95,29  85  4 20  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  Epos ES12  499  High quality luxury stand-mount has great midband and stereo imaging  20,38,25  85  8 45  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  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  88  7 40  Genexa 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  GLL Imagio IC130  500  Lots of speaker for the money, but sound is decidedly dull and shut in  22,112,29  88  4 20  Heybrook Prima 2  159  Great apenness, speed and timing. Sounds fresh and vital, though sometimes lacks scale and weight  20,29,18  87  6 50  Heybrook Heylios  389  Great all-round performance in a pretty package at a sharp price  14eybrook Heylos  389  Good vocal reproduction, but sounds thin and bass seems an afterthought  24,36,27  87  6 25  Heybrook Quartet  649  Solid, large bookshelf model with good sensitivity and a lively, forward sound  14eybrook Octet  1800  Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband  24,97,31  90  6 25	2205	•	•		40		4	85		20,31,26	a bit thin	or fine midband transparency, but the overall timbre is a bit thin	nin	in	8	20,31,26	5		85	4	41	0		•	2205	17
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Heybrook Heylios 389 Great all-round performance in a pretty package at a sharp price 24,36,27 87 6 25 • Heybrook Heylo 439 Good vocal reproduction, but sounds thin and bass seems an afterthought 23,73,19 88 8 30 • Heybrook Quartet 649 Solid, large bookshelf model with good sensitivity and a lively, forward sound 24,41,22 90 8 48 • 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 • Heybrook Sextet 1,299 Coherent and highly analytical, partly due to distinct upper-mid forwardness 27,90,20 88 8 25 • Heybrook Octet 1800 Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband 24,97,31 90 6 25 •				•	-	-	_						_		-					_	-	-	•		2026	
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Heybrook Quartet 649 Solid, large bookshelf model with good sensitivity and a lively, forward sound 24,41,22 90 8 48 • 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 • Heybrook Sextet 1,299 Coherent and highly analytical, partly due to distinct upper-mid forwardness 27,90,20 88 8 25 • Heybrook Octet 1800 Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband 24,97,31 90 6 25 •	-					-	-		•						10		-	•		-	100					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       Heybrook Sextet     1,299     Coherent and highly analytical, partly due to distinct upper-mid forwardness     27,90,20     88     8     25       Heybrook Octet     1800     Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband     24,97,31     90     6     25	1030			_		_	_	_									-			_	_	_			1030	12
Heybrook Sextet 1,299 Coherent and highly analytical, partly due to distinct upper-mid forwardness 27,90,20 • 88 8 25 • Heybrook Octet 1800 Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband 24,97,31 • 90 6 25 •	2126				_	-											11000	•			-				2126	17
Heybrook Octet 1800 Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband 24,97,31 ● 90 6 25 ●	2120				_		_					•						_		_	-	_			2120	10
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# Hi-Fi Loudspeakers

						500		200	100			Sie
-	PRODUCT	COLUMN CONTRACTOR	COMMENTS	71.5.5.25	A	01	0	40			1750	
-	Jamo 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	
-	Jamo Classic 8	400	A lot of speaker for the money, good when playing quietly, but boom'n'tizz character sounded crude	22,90,29	•	90	4	-	•		1659	-
	Jamo 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		•	May E		
-	Jamo 477A	500	Very prettily styled, but build and sound quality are disappointing at the price	19,77,28	•	88	4	100000	•		1549	-
	Jamo 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	
Į,	JBL UX2	250	Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm	22,40,27		87	8	40			2022	
	JBL L20	700	Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative	26,42,28		86	8	30	•		1550	
Ì	JBL SVA1500	700	A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump	17.5,51,31		86	8	40	•		2127	
-	JBL L40	1,000	Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance	30,65,31	9	88	4	23	•	197	1976	18
-	JBL SVA 2100	1250	Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness	37,114,52	•	91	_	<20	_		1370	
-				100000000000000000000000000000000000000	-	10000	_	TO ALL			17.40	_
****	JBL L90	1,500	A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude	24,94,35	•	91	_	23	_		1348	
-	JBL LX70	550	Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble	26.5,94,30	•	91	4	-	•	2.25		
	JM Lab 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	•	130		
Ì	JMLab Tantal 515	495	Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript	20,94,26	•	92	5	32	•			
Ī	Jordan Watts JH400	565	Piano-finish hexagon has controversial sound, with uneven balance but delightful mid	28,38,21		86	8	50		•		Ī
-	JPW Mini Monitor	60	Ultra-cheap miniature works well in a limited way	18,27,17.5		86	8	50		•	1781	Ť
-	JPW Gold Monitor	80	More informative than Mini Monitor – but fiercer too	18,27,17.5	1	86	_	50			1782	-
-						-		-			1/02	+
	JPW ML510	130	Lots of good-quality speaker for the price, but not an ideal match for cheap budget components	20,34,22		88	_	50	•			+
1	JPW ML710	230	Good material value but disappointingly uneven bass — check out the 510s instead	20,88,30	•	88	5	40	•		2202	_
	JPW ML910	330	Loads of speaker for the money, plenty of headroom and loudness capability, but sounds dull	23,104,30	•	91	4	43	•			
	JPW 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	
Ī	JPW Ruby 1	400	Very pretty but pricey luxury metal-cone miniature has good, if slightly edgy balance	19,32,21		87	6	55	•	12/11	1572	Ī
-	JPW Ruby 4	1,000	Twin metal-cone main drivers improve the dynamic performance and bass extension, with little sacrifice	22,94,26	•	1000	_	25	•		2132	ĺ
-	KEF Coda 7		Lovely open voice reproduction, but bass could be tauter; build tougher			100	_	50		•		
-		129	7 1 0	18,30,23		88	_	-	-	-	1783	-
-	KEF Coda 8	189	Outstandingly well-balanced, bass is deep but a little vague	20,32.5,29	-	86	_	28			1784	
-	KEF Coda 9	299	Uneven budget 3-way floorstander with poor bass definition	20,86,28	•	89		30	•	500	1785	1
	KEF RDM One	499	Cute and tiny, nice midband but lack of bass warmth and weight	23,30,24	1	88	6	70		•	1913	
ĺ	KEF 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	•		1987	ĺ
	Kelly KT2	700	Chunky floorstander has tacky finish but whopping sensitivity and a very involving, (if characterful) sound	23,89,34	•	94	4	33	•			1
	Kelly KT3	1,200	Super-high-sensitivity, hefty floorstander sacrifices smoothness for dynamic realism	25,95,36		95	4	28	•		2133	Ī
÷	Keswick Audio Aria II	379	Confident and dynamic sound, if a little crude and shut in	21,42,24		89	_	20	•	N. A.	1405	İ
÷	Keswick Audio Torino					-			•			+
÷		999	Good value, lively contender with distinctive styling. Goes loud and deep but could be smoother	18-26, 93,28		90	_	20			1977	
-	Linn Keilidh Passive	750	Stunning timing and coherence, and awesome bass drive	20,83,28	•	87	_	22		•	1552	
	Linn Kaber Passive	2,000	Dry, bright balance emphasises dynamics and transients, but can sound unforgiving	20,90,28	•	87	4	25		•		
į	Living Voice Auditorium	1,500	Pretty, compact floorstander has wonderful coherence, high sensitivity and fine dynamic integrity	21.5,98,29	•	91	4	25				
	Magnat 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	•			Ī
Í	Magnat Vintage 720	1200	Slightly crude in some respects but lots of heart, fine scale, decent dynamic coherence and integrity	29,113,32	•	88	4	20	•			Ī
-	Mission 700	130	A lot of speaker for the money. Good bass weight and extension and goes loud with ease	18,34,26		87		40			2257	
-	Mission 731 PRO	140	Cautious balance makes a fine match with budget equipment. A classy baby for smaller rooms	Marie Company	-	-	_	55	-		ZZJI	
-				17.5,31.5,20	-	89	_	-		_		4
-	Mission 750LE	250	Fabulous cosmetics and a great midband carry the day, though size will out and bass is inevitably limited	17,28,27		86		45		•	2203	_
	Mission 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	•	VA SA	2027	
	Mission 774	500	Gorgeous floorstander is an entertaining communicator, despite some balance oddities (bright treble)	18,95,31	•	90	4	40				
Ì	Mission 752 Freedom	578	A beautifully judged compromise in the art of combining presentation with a decent sound	20,90,25	•	89	8	45			2123	Ī
Ī	Mission 753 Freedom	798	Great styling. New, more restrained tweeter reveals fine midband dynamics	21.90.31		89	4	40	•	7	1914	Ī
-	Mission 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	- 10	•		1981	
÷						-	_		_			
-	Monitor Audio Monitor 3	400	An exceptionally discreet floorstander; sonically uneven, but capable of fine results	16,91,21	•	88	5	-			2032	
-	Monitor 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	_	23	•	SINI	2210	
	Monitor Audio MA700 PMC	600	Good-looking luxury compact with all-metal diaphragms: lovely midrange, but occasionally edgy	22,35,26		89	8	45	•		1661	
	Monitor Audio 702PMC	700	A good all-round stand-mount with intimate midband focus	20,40,25		87	8	30	•		2128	j
	Monitor Audio MA703 PMC	800	Lovely but pricey floorstander has up-front, coherent, 'shiny' sound	20,89,27	•	88	8	50	•		1826	1
٠	Monitor Audio Studio 12	1,000	A real looker, but sound and content are a bit on the small side for the price	17,92,20	•	90		28	•		1349	-
H	Monitor Audio 705PMC	1400	Beautifully finished compact floorstander with fine midband coherence, but limited bass and top end	20,94,28	•	89		25		•	-	
٠	Mordaunt-Short MS10i	1400	Up front, bouncy and a whole lot of fun	18.5,30.5,20	_	86		50		•	1789	
٠												
۰	Mordaunt-Short MS30i	275	Slightly shut-in and coloured quality is offset by fine bass and impressive communication	25,43,28		90	_	28	•		1662	
۰	Musical Technology Kestrel SE	300	Brighter and drier-sounding than the standard Kestrel (and not the better for it)	20,84,19	•	84	_	50	•		1915	٠
	Musical Technology Harrier	400	Very pretty package, good measured performance and even sound. Sensitivity is low, and dynamics limp	25,80,23	•	86	_	25	•		1663	
	Musical Technology PM15	450	A subtle, understated but very involving example of the 'classic' luxury-finish compact standmount.	20,41,27		88	5	38				
	Musical 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	•	1	2134	Ī
	Musical Technology Hawk	1250		0-36,93,24-3	_	87	5	5 75	•			
	Naim Intro	660	Great dynamic range and info retrieval, but thin, lacks warmth	24,89,27	•	89		30	•		1916	
										1000	1310	
٠	Naim Credo	1,060	Involving sound, but rather forward and cold. Good clarity, but some coloration and a lack of richness	24,89,30	•	88		28	•		1755	
	Naim SBL Passive	1,970	Lively and punchy – smoother but more upfront than before	27,89,27	•	88		25		•	1352	
	Neat Critique 2	445	Contemporary standmount has a clean, crisp sound with lovely natural midband voicing	22,32,24		86	6	50		•		
	Neat Mystique Mk2	575	This elegant package delivers a fine overall sound quality; some might find the top end too insistent	20,86,18	•	85	6	23	•	300	2211	
-	Neat Petite II/Gravitas	2,000	Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound	23,105,40	•	85		25	•		1988	
÷	Origin Live Conqueror	1,650	Chunky floorstanding three-way has lovely cabinetwork and lively sound, but limited deep bass	24,94,27	•	88	8		•		1989	
	PMC TB1S	_		-			_					
÷		430	Pro-audio version of TBI	20,41,30		87		40	•		2207	
	PMC TB1	482	A classy , laid-back performer that likes going loud and loves the bass guitar	20,40,31		87		45	•		1830	
-		075	Delightful smoothness and transparency, though bass and treble are both limited	18,53,25		89	1	33	•			
-	PMC LB1	935		10,55,25		05	4	33	_	12.00		J
	PMC LB1	1,496	Lovely panel-like transparency, slightly shut-in balance, needs a big room	26,79,43		89	6	-	•			Ì

ς	CONTINUED			SPEC	I F	1 C	ΑТ	1 0	N S					
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STATUS	III-r		Loudspeakers	SENSITIVITY ORSTANDER	(db/W	NCE (Q)	FREE OM (H.	SPACE	TOW	SBACKA	NUMBER O.	P		
Service Control	PRODUCT Polk RT16	(£) 799	Bass rich, lively and powerful, but suspect top end; big and not very pretty	22,105,39	V	91	4	22		V	1831	160		
-	Polk LS70	1,200	High sensitivity, but balance has too much midbass boom; mid-top is laid back	31,94,37	•	90	8	22	•		1084	132		
Ī	Proac Response 2.5	2,700	For aspirant high-enders looking for seriously good boxes, this speaker should be first port of call	22,107,25	•	86	8	30	•		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	•			167		
- 7	Quad ESL-63	3,450 198	Classic electrostatic lacks punch, but has strengths some can't live without	66,93,27	•	86	8	34	•			60		
94	Rega Kyte - Rega EL8	298	Has splendid timing and coherence, sounds very explicit and informative  Kyte drivers in compact floorstander give more bass but less coherence	19,31,19 17,72,20	•	87 86	8	50	_			114		
	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		
4	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		55		•	1982	167		
4	Revolver Colt Revolver 250	139 250	A good all-rounder, if a little bland, and excellent value for money  A nice price for a floorstander, but over-bright sound balance has potentially fatiguing consequences	30,19,22		88	6	48	•		1407	148		
H	RMS Revelation Series 1	1,299	Innovative metal-box compact with integral port/stand – clean with good timing but very laid-back balance	21,85.5,25 20,99,24	•	87 81	8	22	•		2023 1983	170 167		
	Rogers GS1	179	Classy looking small box with equally classy, if slightly over cautious sound	19,30,17		85		45	•		2258	179		
4	Rogers dB101	250	Tthis shapely sub-miniature is fast and agile but lightweight and forward: great voices; lacks bass	20,26,20		88	6	45		•	2024	170		
7.1	Rogers LS3/5A	699	Clever AB1 stand/subwoofer helps the classic 3/5A monitor give its best shot	19,31,17	•	82	12	-	•		1354	143		
4	Rogers C6/28	1,399	Large floorstander with carbon-fibre tweeter. Sounds better than it looks, especially through the midband	25,103,29	•	88	6	20	•		107.4	167		
4	Roksan ROKone Roksan Ojan 3 Black	595 795	Large stand-mount is musically very communicative if a little coloured  Squat, stylish and black, great bass extension and somewhat uneven balance	21,45,33	•	89 88	8	30 20	•	7/4	1834	160		
4	Roksan OJ3X Black	995	Innovative low-line, 2-way floorstander with decoupled tweeter; great bass and fine dynamic range	28,79,46	•	84		20	•		1979	167		
	Royd Minstrel	275	Not much wellie or loudness but fine coherence and timing; a bit bright	18,69,12	Ė	86	8	30	•		1167	135		
-	Royd Doublet	485	Great value compact floorstander: lively and very informative, if a little uneven	18,93,19	•	90	4	28	•		1835	160		
4	Royd The Sorcerer	595	Extremely musical and communicative speaker that's fun to listen to. Aesthetics could be better, though	20,31,18	_	86	8	35	•			139		
4	Royd Abbot Ruark Epilogue	695 269	Dynamic and fine transient qualities are hampered by a rather coloured mid-forward balance  Beautifully finished miniature with a lively balance and plenty of charm; best suited to smaller rooms	20,81,30	•	90	8	43	•			118		
7	Ruark Sceptre	599	Traditional' cabinetwork with classy veneer and shiny gilt fixings, hampered by rather wayward sound balance	21,38,31	-	87		40	•		2129	174		
4	Ruark Talisman II	749	Less ideologically committed than some, strength lies in fine all-round coherence	23,84,32	•	88	8	30	•			118		
4	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		
4	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		
4	SD Acoustics SD3R	649 1,549	SD3 has the agility and charm of a quality miniature, good bass and low sensitivity	20,38,30	•	87	8	25 30	•		1081	106		
	SD Acoustics SD5 Sequence 400	329	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 25,100,7		88		45		•	1917	164		
7	Shahinian Arc	1,875	Occasionally wonderful, small, floorstanding omnidirectionaldesign: bright but coherent and revealing	35,69,25		88	6	24	•		1317	110		
Ī	Silverado Raider	695	Beautifully built audiophile compact: neutral if bright, tough work for amps	20,40,25		83	3	30		•	1918	164		
- 1	Spendor 2030	599	Discreet slimline floorstander with delicately coherent, laid-back sound	18,89,27	•	87	8	30	•		1836	160		
4	System Audio 1130 Tangent Monitor 5	499 80	Super-slim, super smooth, involving experience, but not ideal if you like your bass deep and loud  An uneven performer best suited to small rooms and generous volume levels	3,100,21 17.5,27,18	•	89 83	_	43 55	•	•		183		
8	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		45	•		1926	165		
4	Tannoy Mercury M1	120	Sounds much bigger and expensive than it is. Solid, tuneful bass, wide open soundstage, excellent imaging			87	8	50	•	•	2259	179		
4	Tannoy Mercury M2	140	A fine all-rounder with big box and deep bass for the price; could be sweeter and tighter	20.5,38,28		87	8	25	•			169		
B	Tannoy Mercury M3	230	Good-looking floorstander, very neutral and evenhanded, with fine midband but weak dynamics and drive		_	87	_	20	•		2025	170		
A .	Tannoy Precision P20	400	A creative and attractive design with time-aligned drivers, but the sound lacks sufficient excitement	21,80,30	•	88	5	-	•		2208	177		
4	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	16-24,85,23 31,93,34	•	91	_	26	•	-	1355	167		
4	Tannoy Westminster TW	6,600	These awesome horn-loaded speakers are remarkably controlled and impressive	large	•	99	_	38		•	1555	C93		
4	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	174		
4	TDL CF100 Chiltern	450	Tiny but classy monitor has a laid-back balance, a fine midband and a surprising bass; but needs space	20,29,23		85		50	•			183		
	TDL CF200 Cotswold	650	Fine midband tonality and dynamic range, but less happy towards the bandwidth extremes	22.5,78,23	•	86		40	_	•	2212	177		
	TDL T-Line 3 Technics SB-M20	700	Plenty of bass and treble, but broad midband is rather repressed  Well-balanced with natural perspectives and fine midband coherence, but bass is a bit boxy and uneven	20,97,38	•	86 70	_	50	•	N. S.	1921	164		
	Technics SB-M500	450	This model offers a clean, open sound, offset by midbass, heavy balance and low sensitivity	25,78,37	•	85		25	•		1666	152		
4	Totem Model One	1,195	Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size	17,31,23		87		28	•	la vid		122		
	Vandersteen 2Ce	1,395	Elegant staggered baffle contributes to a refreshing freedom from boxiness	41,101,27	•			23	•			86		
	Wharfedale Diamond 7.2	140	A good-hearted, lively and up-front performer that's a little lacking in subtlety and smoothness	19,29.5,23		88		45	•		1414	169		
			Very loud with a minimum of amplification, but the sound is thick and uneven, with a heavy upper bass	25,80,26	•	91		30 40	•		1414	148 155		
A	Wharfedale Valdus 400	200	Those rock haves can move plenty of air, albeit not as subtly as alternatives	25 100 26 5							1750	100		
4	Wharfedale Valdus 500	300	These rock boxes can move plenty of air, albeit not as subtly as alternatives  Smooth broad midband gives fine voice rendition; bass could be better	25,108,26.5 22.89.28	_		_		•	71173	1922	164		
4			These rock boxes can move plenty of air, albeit not as subtly as alternatives  Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun	25,108,26.5 22,89,28 14,22,12	•	87 88	8	40 40 30	•		1922	164		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS	300 350 199	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun	22,89,28 14,22,12	_	87	8	40 30				110		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS Acoustic Energy AE108S	300 350 199 299	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun  Lots of loud subwoofer for your money, though ultimately more film than music oriented	22,89,28 14,22,12 50,42,43	_	87	8	40 30 20		•	2247	110 179		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS Acoustic Energy AE 108S B&W ASW1000	300 350 199 299 499	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun  Lots of loud subwoofer for your money, though ultimately more film than music oriented  (Active) Very competently engineered all round, and goes (unnecessarily) very loud	22,89,28 14,22,12 50,42,43 54,47,48	•	87	8	40 30 20 20		•	2247 2248	110 179 179		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS Acoustic Energy AE108S	300 350 199 299	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun  Lots of loud subwoofer for your money, though ultimately more film than music oriented	22,89,28 14,22,12 50,42,43	•	87	8	40 30 20		•	2247	110 179		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS Acoustic Energy AE 108S B&W ASW1000 B&W AS6	300 350 199 299 499 500	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun  Lots of loud subwoofer for your money, though ultimately more film than music oriented  (Active) Very competently engineered all round, and goes (unnecessarily) very loud  (Active) Good material value with a fair amount of low bass from 100W design	22,89,28 14,22,12 50,42,43 54,47,48 45,51,45.5	•	87	8	40 30 20 20 30			2247 2248	110 179 179 154		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS Acoustic Energy AE 108S B&W ASW1000 B&W AS6 Celestion CS135 Jamo SW600 JPW SW60	300 350 199 299 499 500 139 530 349	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun  Lots of loud subwoofer for your money, though ultimately more film than music oriented  (Active) Very competently engineered all round, and goes (unnecessarily) very loud  (Active) Good material value with a fair amount of low bass from 100W design  Compact hideaway passive sub lacks deep bass for high sensitivity speakers  (Active) Has some neat styling touches and remote control, but deep bass is limited  A real heavyweight, sounds clean and transparent, if perhaps a little understated. Usefully flexible	22,89,28 14,22,12 50,42,43 54,47,48 45,51,45.5 52,19,34 38,41,53 55,47,39	•	87	8	40 30 20 20 30 45 30 20			2247 2248 1736 1736 2249	110 179 179 154 128 154 179		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS Acoustic Energy AE 108S B&W ASW1000 B&W AS6 Celestion CS135 Jamo SW600 JPW SW60 KEF Model 30B	300 350 199 299 499 500 139 530 349 499	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun  Lots of loud subwoofer for your money, though ultimately more film than music oriented  (Active) Very competently engineered all round, and goes (unnecessarily) very loud  (Active) Good material value with a fair amount of low bass from 100W design  Compact hideaway passive sub lacks deep bass for high sensitivity speakers  (Active) Has some neat styling touches and remote control, but deep bass is limited  A real heavyweight, sounds clean and transparent, if perhaps a little understated. Usefully flexible  (Active) Commendably discreet with good sense of timing but limited extension	22,89,28 14,22,12 50,42,43 54,47,48 45,51,45.5 52,19,34 38,41,53 55,47,39 38.5,37,43	•	87	8	40 30 20 20 30 45 30 20 45		•	2247 2248 1736	110 179 179 154 128 154 179		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS Acoustic Energy AE 108S B&W ASW1000 B&W AS6 Celestion CS135 Jamo SW600 JPW SW60 KEF Model 30B KEF AV1	300 350 199 299 499 500 139 530 349 499 2,499	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun  Lots of loud subwoofer for your money, though ultimately more film than music oriented  (Active) Very competently engineered all round, and goes (unnecessarily) very loud  (Active) Good material value with a fair amount of low bass from 100W design  Compact hideaway passive sub lacks deep bass for high sensitivity speakers  (Active) Has some neat styling touches and remote control, but deep bass is limited  A real heavyweight, sounds clean and transparent, if perhaps a little understated. Usefully flexible  (Active) Commendably discreet with good sense of timing but limited extension  (Active) Works well, looks great, shakes the windows but costs a lot and is bulky	22,89,28 14,22,12 50,42,43 54,47,48 45,51,45.5 52,19,34 38,41,53 55,47,39 38,5,37,43 56,43,50	•	87	8	40 30 20 20 30 45 30 20 45 45		•	2247 2248 1736 1736 2249 1736	110 179 179 154 128 154 179 154 128		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS Acoustic Energy AE 108S B&W ASW1000 B&W AS6 Celestion CS135 Jamo SW600 JPW SW60 KEF Model 30B	300 350 199 299 499 500 139 530 349 499	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun  Lots of loud subwoofer for your money, though ultimately more film than music oriented  (Active) Very competently engineered all round, and goes (unnecessarily) very loud  (Active) Good material value with a fair amount of low bass from 100W design  Compact hideaway passive sub lacks deep bass for high sensitivity speakers  (Active) Has some neat styling touches and remote control, but deep bass is limited  A real heavyweight, sounds clean and transparent, if perhaps a little understated. Usefully flexible  (Active) Commendably discreet with good sense of timing but limited extension	22,89,28 14,22,12 50,42,43 54,47,48 45,51,45.5 52,19,34 38,41,53 55,47,39 38.5,37,43 56,43,50 35,25,37	•	87	8	40 30 20 20 30 45 30 20 45		•	2247 2248 1736 1736 2249	110 179 179 154 128 154 179		
4	Wharfedale Valdus 500 Wharfedale MFM-3 ZYP AI SUBWOOFERS Acoustic Energy AE 108S B&W ASW1000 B&W AS6 Celestion CS135 Jamo SW600 JPW SW60 KEF Model 30B KEF AV1 M&K VX-7B	300 350 199 299 499 500 139 530 349 499 2,499 450	Smooth broad midband gives fine voice rendition; bass could be better  Cute metal-cased micro-miniature is quite coloured but great fun  Lots of loud subwoofer for your money, though ultimately more film than music oriented  (Active) Very competently engineered all round, and goes (unnecessarily) very loud  (Active) Cood material value with a fair amount of low bass from 100W design  Compact hideaway passive sub lacks deep bass for high sensitivity speakers  (Active) Has some neat styling touches and remote control, but deep bass is limited  A real heavyweight, sounds clean and transparent, if perhaps a little understated. Usefully flexible  (Active) Commendably discreet with good sense of timing but limited extension  (Active) Works well, looks great, shakes the windows but costs a lot and is bulky  (Active) Baby of a big range; this active design delivers deep, plenteous bass but lacks transparency	22,89,28 14,22,12 50,42,43 54,47,48 45,51,45.5 52,19,34 38,41,53 55,47,39 38.5,37,43 56,43,50 35,25,37	•	87	8	20 20 30 45 30 45 45 45 45		•	2247 2248 1736 1736 2249 1736	110 179 179 154 128 154 179 154 128 154		



## **Stands & Supports**

Hiff 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 efectronic 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.

### KEY TO SPECIFICATIONS

- HEIGHT (cm): How tall is your support?
   TOP PLATE SIZE (cm): Dimensions of top
- surface on stand or equipment support.
- FILLABLE: Some speaker stands can be 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

are made. Wood generally means Medium
Density Fibrehoard (MDF)

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# Stands & Supports

TOP PLATE SIZE (CIT)

NUMBER OF SHELF TYPE (CIT)

HEICHT SIZE (CIT)

ST	PRODUCT EQUIPMENT SUPPORTS	(E)	COMMENTS	V	VV	V	V	7	V	V
	Alphason GR 17/17-AS	275	Great looks but sound can be bettered at this price	36	60,39		4	Glass		181
4	Elemental Isotube x 4/Ref	1199	Blockbusting size and build. Super sound quality	92	45,49	•	4	Marb		181
	Fi-Rax R4	399	Lively, exuberant sound, slightly weak bass		BY S	M	5	Glass	1633	151
1	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	166
	lxos Deadrock 704	250	Looks unassuming but sound is full and inviting		46,39	200	4	Resin		181
	Kudos Corinthian	599	True heavyweight that doesn't quite manage knockout sound	91	46,38		4	Wood		181
4	Mana Acoustics Ref. Table	350	King of its type: angle iron, chipboard and glass combine to make a significant difference to sound quality	56	49,39	•	1	Glass		147
4	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	151
4	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	166
4	Optimum Int 2000 OPT660	349	Glitzy style isn't reflected in sound, which is wholesome	82	60,52		5	Glass		181
4	Quadraspire Q4	250	Easy to live with, tonally neutral	54	40,49		4	MDF	1633	151
4	Sound Organisation Z038	135	Too lively and lacking order – but inexpensive	50	84,40	•	5	Wood	1633	151
4	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	166
4	Soundstyle X100	230	Looks lovely, sounds lively but slightly bright	64	49,28	•	4	Glass		181
1	Soundstyle Select 6105	290	Respectable sonics: structurally solid and smart	78	43,36		5	Glass	1633	151
	Soundstyle Finewoods W105	320	Veneered shelves clamped between tubular uprights. Delivers with classical material	82	48,27		4	Wood	1955	166
4	Sound Organisation Z545	150	Budget gem from the stalwarts of sound supports	70	46,36		4	Glass		181
A	Soundstyle X100	150	Looks lovely, sounds lively but slightly bright	64	49,28	•	4	Glass	7	181
	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	151
4	Target B5	175	Free of colorations, fine grip and good value	81	49,36	•	5	Wood	1633	151
4	Townshend Seismic Stand	1245	It's big, it wobbles and it's pricey. But this is the ultimate equipment support	72	58,45	Mari	3	Wood		181
4	Wilson benesch Asside	590	Sounds even better than it looks. And it looks wonderful	72	37,50		4	Wood		181
	SPEAKER STANDS									
	Alphason NC I	45	Filled single-column design without threaded spike holes, that's appropriate for non-critical applications	40-60	16,16				1373	146
	Alphason NCII	84	Tall, slim and elegant, though sound and value are unexceptional	40-60	17,17	100				159
	Alphason Titan	125	Excels in the midband and allows voices to come across in a detailed and expressive fashion	40-60	16,16	•			1373	146
	Apollo AZ6	80	Fine engineering value, but sound is unexceptional and top-plate small	66	15,13	•				159
4	Atacama BD21	55	Good-looking and good value, but doesn't match the SE24's sound quality	56	15,17			1983	-	159
4	Atacama SE24	70	Stands out from the budget crowd because of the consistency and overall quality of its performance	61		•		803	1373	146
	AVF Tower 400	35	Ridiculously cheap and much better than no stand at all	54	17,20					159
4	Kudos S50	100	Better sound than the budget stands, particularly in low-frequencies	60	15,21	E.A.			7	159
4	Kudos S100	270	The best all-round stand around Probably	63	15,21			VINE I		159
4	Mana Soundframes	125	For use under floorstanders and equipment racks, these make music effortless and natural. Can be stacked	5		•		W 8	1373	146
	Revolver RS1	70	A good blend of performance and appearance for the price	53	18,18	1,100				159
4	RMS/Stands Unique Vivus	349	Pricey carbon fibres give ultra-clean sound with exceptional voices	50	N/A			PF 13 E		159
4	Stands Unique HP	220	Real wood disguises high-performance tuned technology	59	22,23		100			159
4	Target R1	280	Truly high-mass four-pillar design with superb weight and speed, giving music delicious attack	53	15,21	•		-	1373	146
			, ,	The same of		-				-



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### **Tonearms**

ess expensive tumtables are usually supplied with a matching tonearm (and often a 'starter' cartridge, too). However, hard-core viny 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 ● EFFECTIVE LENGTH (CM): Length of arm

**BEST BUY** 

 ADJUSTABLE HEIGHT: Important for accurate cartridge set-up

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EDITOR'S CHOICE

# Tonearms

ATUS	Ton	<b>e</b> 2	irms	PARALLEI TRACKING	EFFECTIVE LE	USTABLE LENG	ISSUE NUMBER
5	PRODUCT	(€)	COMMENTS	7	VV	VV	VVV
4	Kuzma Stogi Ref	1,250	Large, solid and well-made arm, gives exceptionally clear sound with just a hint of brightness	High	•		• 79
4	Linn Ekos	1,500	Superb, state-of-the-art design which builds significantly on predecessor's strengths	Medium	•	229	• 67
4	Moth Arm	95	The ultimate budget arm? Refined, sweet, detailed and natural	Low	•	237	60
1	Rega RB300	174	Despite its modest price it sets exceptional standards and could be used on many high-end turntab	les Low	•	237	60
4	Roksan Tabriz Basic	275	Targeted at the Xerxes, this is a good alternative to the Rega arm in many cases – a touch bright though	Low	•	240	• 91
4	SME Series IV	983	Superb engineering and finish with a finely balanced sound, impressive stereo focus and low coloration	Low	•	233	• 60
4	SME Series V	1,461	Excellent in all respects, this arm arguably sets the standards for pivoted arms, regardless of price	Low	•	233	• 60



### **Tuners**

TV has stolen radio's status as the foremost broadcast entertainment medium. but with its Radio Four plays and Radio Three music the BBC still makes a notent 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 clearly equate to superior performance. High-quality, roof-mounted antennae are essential for audiophile listening, so factor them into your budget

### T O SPECIFICATIONS

■ WAVEBANDS: FM – (VHF), - MW. I - LW.

● PRESETS: Number of station equencies 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, raffic news and other nformation about brodcasti

 REMOTE CONTROL: Infra ed control handset supplied SIGNAL STRENGTH

METER: Indicates strength of signal from aerial – useful for aligning your 'twig' during

ROTARY TUNING KNOB: Experience has shown that this analogue throwback is ergonomically far superior to the FACTSBACK REFERENCE:

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**BEST BUY** 

WAVEBANDS PRESETS

FM.M.I

FM.M.L

FM M

30

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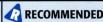
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184

142

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1810 157

# **Tuners**

### SIG STRENGTH METER ROT. TUNING KNOB REMOTE CONTROL FACTSBACK NO. ISSUE NUMBER PRODUCT 4 AMC T7 30 166 4 Arcam Alpha 7 Indifferent RF performance but a touch of audiophile sound quality with clean, strong signals FM,M,L 24 166 Arcam Delta 280 300 Fine sound quality marred by mild synthesiser whine; RF performance only average. Remote £60 extra FΜ 20 120 Careful minimalist design promises a surprisingly open and vivacious sound 4 A fine all-rounder with advanced RDS, good RF performance and decent sound. Remote extra 4 Denon TU-1500RD A well-balanced and clean sound with good bass and treble extension FM M 40 N N 184 Magnum Dynalab FT11 499 All-analogue tuner: receives weak or tightly packed stations but loses out on noise and sonic neutrality FM 3 N N 184 Harman/Kardon TU950 Bulky but effective, delivering fine RF performance and good sound for the price 4 Linn Kremlin 2.600 Controversially good sound at a very high price FM 80 1254 142 4 Magnum Dynalab FT101 Although fairly expensive given its minimum set of facilities, its excellent sound provided ample compensation FM Marantz ST-48 A classic budget model which manages a performance only just behind much more expensive mode Micromega Tune 4 750 Has digital output but even without the Micromega DAC, this provides exceptional sound quality. Looks good too FM . 1810 157 Mission Cyrus FM7 400 Open, generous soundstaging gives the music plenty of foundation, if a touch shut-in at the top FΜ 1254 142 29 Musical Fidelity E50 Sounds involving if coloured and with a subjectively larger-than-life presentation FM 157 300 20 Myryad T-10 530 A very smart unit which works well and offers good rhythmic drive and vitality, albeit at a price FM 20 N N 184 There may be better sounding tuners in the world, but we have yet to hear one 142 4 Naim NAT01 FM 1254 Pioneer F-504RDS Cable-friendly with advanced RDS and excellent RF performance; slightly disappointing sound 250 FM M 40 . . 1949 166 4 Pioneer F504RDS Lots of features, plus a sound that's low on noise and high on communication, adds up to a good value package FM M 40 184 Roksan Caspian 595 Neat facia with great ergonomics, but sound is not really any better than models at half the price FΜ 50 N Y 184 Rotel RT-935AX 160 Good ergonomics and sound quality at a realistic price, but limited features and RF selectivity FM.M 1950 166 20 Sony ST-SA3ES Clean, lean presentation but needs a quality aerial to perform at its best FM,M,L . • 157 250 30 1810

A little hiss and image compression don't detract from the clean performance of this feature-packed tuner

Decent RF performance is offset by sound quality more typical of a mini/midi system

Not exactly neutral sounding, but nonetheless makes listening fun

180

130

499

Sony STS-B920S

Technics ST-GT350L

Thorens TRT2000



### **Turntables**

**S** pecialist 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 turntable users. Less expensive turntables are usually supplied with a matching tonearm (and often a 'starter' cartridge, too). Still better quality is found at higher prices among the separate motor units and tonearms. Because 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

### KEY TO 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 longeving records or seven/12-inch singles.
- SUSPENDED SUBCHASSIS: Sprung uspension to minimise structural interference
- EXTERNAL PSU: Outboard power supply; nerally indicative of higher-quality performance SUPPLIED WITH ARM: Many turntables do

not come with a tonearm fitted, but if this cate is checked, the deck is already thus equipped.

- SUPPLIED WITH CARTRIDGE: If a turntable comes complete with arm and cartridge
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# Turntables

STATUS	lurii	Laures "Man, Auro"	AUTO SUBCHASSIS	PSU WITH ARM	H ARM	O. No.	-
15	PRODUCT	(€) COMMENTS ▼	V V V	<b>V V V</b>	Z V	V	V
	Clearaudio Reference	3,990 Opulent beast tested with Souther TQ-1 arm. Tends to gloss over detail, but can sound bold	33/45			1328	144
4	DNM Rota 2	5,600 Tonally slightly bleached, but extracts detail like few others. Works well on its own table	33/45	•		1328	144
4	Dual 505-4 UK	250 Consistent sounding and well isolated turntable. It is slightly lacking in oomph	<b>33/45</b>	•	•		103
4	Kuzma Stabi/PS	1,950 (Tested with Stogi Reference) Solid oak plinth; sound is very clear, detailed and extended	33/45	• • •			91
4	Linn LP12 Basik	1,100 Trails the full LP12 significantly, but pace, rhythm, timing etc still top rank	33	•			103
4	Linn LP12 Lingo	1,750 The classic reference is improved by the Lingo, but charming character remains	33/45	• •			91
4	Michell Gyrodec	875 Sweet and natural-sounding player, well matched to Rega RB300 arm	33/45	• •			55
	Moth Kanoot	329 Rather coarse-sounding deck that requires decent isolation and comes with a Rega RB300 arm	33/45			1907	164
4	Notts Analogue Spacedeck/Arm	750 No frills, just a first-rate, outstandingly natural-sounding deck that will last forever	33/45	•			159
4	Pink Triangle Anniversary	2,500 Possibly the most detailed, clear, neutral-sounding deck around. Likeness to master tape is uncanny	33/45	• •			91
4	Pro-ject 2	300 Remarkably effective at the price, with decent timing and a generally well defined sound	33/45		•	1907	164
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
4	Rega Planar 2	214 A remarkable product at the price, surprisingly articulate and confident	33/45				48
4	Rega Planar 3	274 Sounds musical in a balanced manner, needs decent isolation and suffers a little pitch instability	33/45			1907	164
4	Reson RS1	600 Supplied set-up and ready-tuned, this unconventional deck is packed with mid-band detail	33/45	•			159
4	Roksan Radius 3/Tabriz zi	890 Elegant-looking turntable with a tidy, ordered sound. Bright and breezy if a shade lightweight	33/45	• •			159
	SME Model 20A	4,863 Supplied with Series V arm. Engineered to last a lifetime, giving excellent stereo and detail retrieval	33/45/78	• • •			118
4	Thorens TD166 VI/UK/RB	400 Refined, solid sound with well-focused imagery; suitable for use with good MM/MC budget cartridges	33/45	•		1.6	103
	Thorens TD2001	700 Balances convenience and sound well, but deck lacks detail and bass could be better controlled	● 33/45	•			159
4	Well Tempered Record Player	1,850 Intriguing and challenging. Musically not ideal, but its limpid quality and lack of artificiality set standards	33/45	• •		1180	136





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AMC • Tangent Acoustics • tel 0500 828620

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The Hi-Fi Choice Web site 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!



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# DAVID VIVIAN

Where is the crossroads of science and magic? You'd be surprised, according to Swiss combo Yello.

quite like Yello. No, not the bananahued Kimber mains cable marketed by Russ Andrews, but those synth-wielding cosmic nut balls from Switzerland, Dieter Meier and Boris Blank. Admit it, The Race is a truly great hi-fi demo track, and the one that goes "Oh Yeaahhh" in a ridiculously deep voice isn't bad, either. BADA should give them an award for lifetime services to hi-fi retailing - a gong for the guys who make NAD sound like Naim, Kenwood sound like Krell.

But last year Yello released a wreck of a CD called Pocket Universe. No decent tunes, a depressing absence of funk, synth layering so dense it had congealed. I don't mind stylish rubbish, but this was plain poor.

Obviously I hadn't listened carefully enough, though. Because Pocket Universe is a high-concept album dealing with mankind's place in the cosmos. All that slow, portentous synth noodling and rum-

bling was meant to inspire awe at the fathomless size of the great beyond and our utter insignificance in the general scheme of things.

The denouement becomes clearer during the track Resistor which I hadn't managed to last out the first couple of times. Encouragingly, music is part of Yello's take on the meaning of life as intoned by this track. "Music," Dieter Meier moans, "is an interstellar language. The magic of music is a sign of consciousness that can be understood on far-flung worlds."

So far so good. But then he attempts to de-bunk science and replace it with "magic". He starts with Rupert Shelldrake's observation that scientists' attitudes towards

their experiments influences the results of those experiments. Is he sure that wasn't Uri Geller? Arthur C Clarke is cited as once having said that "any sufficiently advanced technology is indistinguishable from magic". Meier concludes from this that, as we approach the third millennium, scientists have had to admit that "the universe is magic".

wacko. Until you realise that what he's talking about is hi-fi. Stands to reason. Yello's interest in sound quality must have brought them into contact with the fringes of the hi-fi industry many times. There they'll have encountered things far stranger than the big bang, quasars and

• ReleeS your CDs from static attack. O Blank and Meier get The Race going.

Relees That's it, then: Dieter Meier is a

Stunning!

Arthur C Clarke. Hi-fi is where science and magic merge, where "the course of events is influenced by the intervention of spiritual forces or some other cult device".

### THE NECESSARY EXTRAS

How do I know this? I bumped into Russ Andrews at the recent Renaissance Hi-Fi Show. Perhaps more than anyone else in the business, Russ is the Prince of peripherals speaker cables, interconnects, mains cables and plugs, spikes, supports and so-on. He also sells products that claim to make your hi-fi work better – a bewildering and everchanging range of sprays, enhancers, impregnated tissues and weird stuff.

Russ doesn't require your belief, just your money. How refreshing. His latest

magic potion, called ReleeS, will set you back £20. It seems a lot for what looks like a small bottle of odourless, non-toxic clear liquid contained in a black, plastic spray mechanism. What it's made of is secret. What it's meant to do is kill the static charge that harms the performance of CDs, DVDs, cassettes and video tape. Take a CD. Spray the label side of the disc, the transport tray and, for good measure, the inside of the CD box. Then wipe the residue off

with a soft cloth. Now play the CD and, according to Russ, you'll hear deeper bass, lower distortion and a more three-dimensional soundstage. The treatment lasts for three months, then just zap it again. This is far less fiddly than the last antistatic CD product, the Statmat from Ringmat Developments (placed between disc and tray) and, claims Russ, about 10 times more effective.

He gets away with it, of course, because it works. Brilliantly. Statmat was good but ReleeS is better. It does everything he says; it's like upgrading to a better CD player. But then Russ Andrews has got accessories sussed. That's why ReleeS will walk off the shelves. Magic? No. I sprayed it on the Yello CD. It was still one of the worst albums in the universe.

**Russ Andrews Accessories Ltd 2** (01539) 823247



### HIGHLIGHTS NEXT MONTH'S ISSUE ...

### **BEST BUY FRENZY**

Next month Hi-Fi Choice takes a break from the usual format in order to produce our annual Best Buy guide. This compendium of all the Best Buy and Recommended products from 1998 is everything the enthusiast should need to shortlist compoments for a first class system.

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