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WHAT HI∗FI, May 97

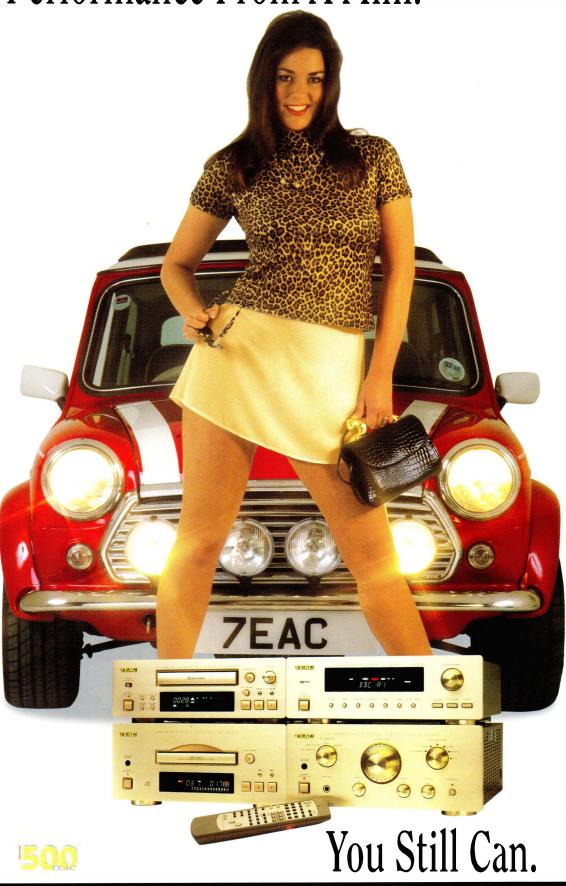
"In terms of its good looks, the system's asking price could just about be doubled"

Gramophone, Jan 97

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TEAC You Could Always Get Brilliant Performance From A Mini.



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

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Editor's Notebook



Where do we draw the line between standards and aggressive marketing? Stan 'Dard' Vincent holds forth.

new standards wars is raging. This time over carriers of prerecorded music. Long-term readers will remember the early-'90s battle between MD and DCC. Both were brand-new digital formats trying to set new standards for the domestic recording of music, at a time when another 'new' format, CD, was less than 10 years old. If recordable CD had been launched to consumers at the same time, I reckon a lot more people would have cottoned on to it.

Why didn't recordable CD launch then? Well, the technology was still quite expensive, but I think the music biz is to blame. Too many vested interests foresaw a wave of middle-class piracy and a consequent dent in the balance sheet. The piracy happened all right, but in sweatshops of Eastern Europe and the Orient. Music lovers ran the gauntlet of dodgy CDs to avoid paying the exorbitant prices charged by the record moguls.

Gradually the industry realised that a little domestic piracy was preferable to largescale copyright theft on a criminal scale. Domestic CD recorders have tumbled in price to £500 (eg Philips CDR 870, HFC 174), prices are set to be slashed further, and the prospect of rewritable discs is already secured.

It looks increasingly possible for CD to become a consumer-driven standard for music storage, both prepackaged and home-made. MiniDisc is a triumph of miniaturisation and offers far superior editing functions to CD. But will it end up the new Betamax, accomplished but unloved?

Audiophiles like you and I want the best-possible sound-quality. Historically, there have been too few of us prepared to pay for quality, to justify music and electronics' industries investment in new formats. DVD-Audio, hailed as the great hope for a better-quality CD, is still mired in the mud of political battles conducted behind closed doors. (See our feature on p33.)

All of sudden, the commercial momentum of CD might lead to a new disc variant which would satisfy both audiophiles and bean-counters at Record, Inc and Product plc. This proposition is called Super Audio CD, has been developed jointly by Philips and Sony, and is explained on p32. One of its key attractions is backwards compatibility with existing CD players. A smooth transition to tomorrow's world looks possible!

This Month's Cover Gift!

Digital Radio is set to be the big story of 1998, as we reveal on page 36. And UK readers can receive their own personal multimedia briefing on every aspect of this exciting new technology, simply by sending in a postage-prepaid card to be found on the cover of this issue. In return the BBC will send you a FREE CD/interactive CD-ROM (narrated by Alan 'Fluff' Freeman no less!) which explains all about Digital Radio's unique benefits for listeners, and the kind of products you'll soon be able to buy. Act now — send in your card today!

HI-FI CHOICE DEALER OF THE YEAR 1997 IN ASSOCIATION WITH

INTERPEDITE TANOY



ohn Clayton receives his Dealer of the Yea 997 certificate from Hi-Fi Choice publisher Simon Davies. Flanking: left, Julian Richer Richer Sounds); right, John Hill (Marantz).

In the September and October issues of Hi-Fi Choice we asked readers to nominate their best local hi-fi supplier. And the winning dealer is... John Clayton, Manager of Richer Sounds' Prestwich branch. North Manchester! John scoops a fabulous £1,000 holiday for two in New York.

But the fun didn't end there: all voting forms were entered into a Prize Draw, in which the top reward was another £1,000 jaunt to the Big Apple. The winner was reader David Hewitt of Gisburn, Lancs.

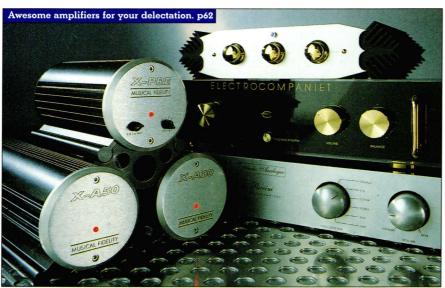
Four runners'-up prizes comprised Marantz CD players. A White of Bloxwich and H W Cosker of London won CD-67SE players worth £350 each; while A Black of Aylesbury and Neil Simms of Leeds will receive CD-67 players worth £270 each.













FEBRUARY 1998 ISSUE 175

REGULAR

Update

If you missed the January sales, don't worry if the cash is still burning a hole in your pocket. Here are some ways to spend it!

Instant Systems

Alan Sircom discovers high-end life beyond the Yank-tanks. An affordable little Euro-fi system from Copland and Sonus Faber, per favore!

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WIN! WIN! WIN!

A complete Precision system worth over £2,000!



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WIN A TWIG! Ten Antiference FM aerials must be installed – FREE!



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Goldring Excel VX56
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Update

THIS MONTH... PIONEER'S PRECISION TUNER AND CASSETTE... B&W IN CASA... NAIM'S CAN-AMP...AND MUCH MORE...

In brief

Acoustic Energy's new 200 Series claims to democratise the benefits of metal-cone technology. There are four models available in Black Ash or Rosewood vinyl veneer, priced from £249.95 for the AE200, to £499.95 for the flagship AE209. AE's new bass/mid driver, from VIFA, has a 130mm chassis in which a metal-alloy cone is thermally bonded to a 32mm high-power voice-coil.

JPW has unveiled two new designs. There's a new, low-priced member of the Millennium range: the ML110, priced at £69.99. It is a two-way design loaded by a rear-facing reflex port. And then there's an active subwoofer packing a claimed 50 Watt amp and 200mm drive unit, priced at £199.99. Both items are available exclusively in Richer Sounds stores.

Gamepath has introduced the harman/kardon AVR11 remote-controlled receiver. It offers PI, PTY and CT functions, pre-set scan and 10 direct preset buttons. Based on the AVI100, the amplifier offers "discrete high-current ultrawide bandwidth". The receiver will be priced at £299.99. The price of the AVI100, meanwhile, will be reduced to £199.99.

© (01462) 893897

Serious Kit is opening a specialist audio shop in Manchester, stocking brands including Audio Note, Rogers, Neat, FiRax, ProAc, Harbeth and Trichord. The shop will also have bargain part-exchanges available.

Hi-fi and home theatre dealer Castle Sound & Vision has recently opened in Nottingham.

Growing Precision

Pioneer has announced Precision-enhanced versions of its F-504RDS tuner and CT-S550S three-head cassette deck, to complement the existing Precision CD player and amp that have both received *Hi-Fi Choice* Best Buys. The



Pioneer's F-504RDS & CT-S550S — now in Precision focus.

Pioneer claims that "the finest capacitors" have been deployed in critical segments of the signal path, together with exclusive custom-designed integrated circuits (ICs).

new models cost £300 and £340 respectively.

The FM/AM tuner's key audiophile feature is its provision of two aerial inputs. This allows the use of a high-quality antenna pointed at the local transmitter for BBC Radio Three, for example, while still permitting the reception of local stations and others of non-critical quality, via an omnidirectional 'twig'. The cassette deck, meanwhile, incorporates Dolby S noise reduction and auto tape-tuning. ■ In Japan, Pioneer has announced the DV-S9 DVD-Video player, priced at ¥190,000 (£950 approx.) Designed to be a "flagship" model, this product is said to incorporate all of Pioneer's expertise in LaserDisc and CD-player manufacture, including a 96kHz/24-bit DAC and the Hi-Bit Legato-Link S processor.

Pioneer High Fidelity (GB) Ltd 2 (01753) 789500

Who's NXT?

NXT, the revolutionary flat-panel speaker technology designed by British-based Verity plc, will make its début in a Mission hi-fi product at the Winter Consumer Electronics Show (WCES) in Las Vegas. No details were available at press time, but the announcement is bound to be a key feature at the show, especially in the wake of awards for NXT from US specialist magazines AudioVideo and Popular Science.

The company behind NXT, New Transducers Ltd, claims it is attracting industry plaudits and new licensees at an increasing rate. NEC, first to adopt NXT for speakers in a laptop computer, has announced a range of products based on the technology.

Furthermore, NXT claims to have signed a crosslicence agreement with Sound Advance Systems (SAS), forming a strategic alliance under which NXT and its colicensors Defence Evaluation & Research Agency, Noise Cancellation Technologies, Inc and SAS now represent "over 80 active patents and patent applications in relation to flat-panel loudspeaker technology." NXT © (01480) 451777 • www.nxt.co.uk

HDCD pushes upwards

Pacific Microsonics is claiming a growing market penetration for its High Definition Compatible Digital (HDCD) system.

There are now said to be over 100 HDCD-equipped replay products, with the latest models including the Arcam Alpha 8SE, Rotel RCD-971 and Audiolab 8000DAX.

On the software side, Pacific Microsonics claims that more than 20 million copies of HDCD-encoded recordings have been sold. Adding grist to the mill are recent high-sale album certifications awarded to HDCD discs in the US. Paula Cole's *This Fire* went platinum, while noted audiophile faves Megadeth received a gold for *Cryptic Writings*. Memec plc 20 (01844) 261919 • www.hdcd.com



B&W bolsters boxes

B&W Loudspeakers has joined in the multiroom game with its new Casa system. Claimed to equal or surpass the quality of traditional hi-fi separates, Casa is based around a system controller capable of addressing up to 32 rooms or zones, plus sub-zones therein.

Speakers, system controller and wall-mount control keypads are linked together with a single-flex multicore cable to form a network in which audio signals are transmitted using balanced techniques to minimise noise.

Two new speakers are intended for in-wall installation, while a third has been designed for ceiling mount. All have built-in amps for active operation.

In its hi-fi ranges, B&W has extended 'Special Edition' (SE) refinements to all members of the company's CDM range, following the announcement of the CDM1SE in last month's Update.

A "dispersion modifier", installed in place of a dust-cap in the company's proprietary 6.5-inch Kevlar mid-bass driveunit, claims to widen sound dispersion in upper-midband regions. To follow the CDM1SE B&W is promising the CDM2SE, and CDM7SE. A novelty in the latter will be a new Kevlar/fibre composite lower-bass unit.

Other refinements include modified crossover networks, with all but the CDM2SE incorporating separate bass/mid and treble boards.

B&W Loudspeakers 2 (01903) 750750

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Headline here, please

Don't worry — the sub-editor hasn't fallen asleep on the job. Headline is the name of a new headphone amplifier from Naim. Designed for use with high-impedance, dynamic headphone designs, the Headline is said to be "very, very quiet." It is reported that low noise and distortion were key design goals.

A captive lead, terminated in one of Naim's idiosyncratic DIN plugs, permits connection to the tape output socket on its preamps; non-Naim users would have to invest in an adaptor.

The Headline itself costs £205, though it must be partnered with an external power supply. Naim recommends the £170 NA PSC, but claims "greatly enhanced" performance results from the use of the £340 FLAT-CAP or £700 HI-CAP power supplies. (The £22 SLIC lead is required for either of the latter.)

Naim Audio 2 (01722) 332266



A Digital Versatile Disk (DVD) format war was averted on December 5, 1997. The DVD Forum's Steering Committee decided that Dolby Digital would become a 'mandatory" format in the DVD specification for coun-

tries using the PAL TV system.
In practice, claims Dolby Laboratories (developer of the Dolby Digital multi-channel sound system), this means Dolby Digital will become "the worldwide standard for DVD multi-channel audio".

Now DVDs with only Dolby Digital audio may be sold legally in Europe. Previously, following an announcement at the IFA show in Berlin last August, it looked likely that a rival multichannel format, MPEG2, would be required.

Dolby Labs claims that among over 600 DVD titles issued since the launch of DVD-Video in Japan and the USA, "almost every" release has included tracks encoded in Dolby Digital. It estimates 460,000 DVD players have been sold so far.

Turn to page 32 for news of progress on the DVD-Audio standard.

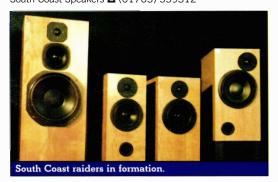
Dolby Laboratories, Inc 2 (01793) 842100

The coast is clear

South Coast Speakers has launched a range of four speakers hand-made to order in a choice of nine real-wood veneers. Oden (£299) and Hades (£695) are two-way bass-reflexloaded designs. The former employs a coated-paper midbass driver and aluminium dome tweeter, while the latter has a polypropylene mid-bass and fabric-dome tweeter.

Atlantis (£840) is a two-way stand-mount employing a 'Nawi'-shaped eight-inch mid-bass driver and 25mm aluminium-dome tweeter, while Excalibur (£1,750) is a floorstanding three-way, incorporating a ten-inch Volt driver, plus biwirable isolated bass and mid/treble crossover boards.

The company also trades as supplier of DIY speaker kits, replacement drive-units and accessories. South Coast Speakers 2 (01703) 559312





TEAC that and party

TEAC's Reference 500 system (Best Buy, HFC 174) just keeps on growing. The latest addition to its ranks is the PD-H570 seven-disc CD multiplayer, priced at £299.95. Styled with a gold effect front panel to match the rest of the 500 series components, the PD-H570 incorporates a onebit DAC with eight-times oversampling.

TEAC PD-H570

TEAC (01923) 819630



Avon calling...

Preparations are in hand for 1998's Sound & Vision Bristol hi-fi show, to be held in the city's Marriott Hotel on Lower Castle Street, from Friday 20th to Sunday 22nd February.

At press time the organisers claimed 51 exhibitors had booked space, with brands including Arcam, Audiolab, B&W, Cable Talk, Cyrus, Denon, KEF, Marantz, Meridian, Mission, Naim, Pioneer, Sony, Tannoy and Yamaha.

The show opens from 11.00am until 6.00pm the first day, and 10.00am until 5.00pm on subsequent days. Admission is £5.00 for adults, £3.00 concessions and free to accompanied children under 16. A 10 per cent discount will be offered on all purchases made at the show from organising retailers Audio Excellence and Audio T.

2 (01222) 228565 or 2 (01865) 760844



Castle stocks Naim, Castle, **Denon and Chord products** among others, and has three demonstration rooms on the premises, 2 (0115) 958 4404

The Edge Sound & Vision, (formerly Anglian Home Entertainment) has recently opened two new stores in Norwich 🕿 (01603) 458151 and Sudbury 22 (01787) 881413.

Moorgate Acoustics has updated its Web-site to include a new Marketplace where secondhand audio products may be purchased. There is also news and information about many of the products supplied. 🕿 (01142) 756048 • www.demon.co.uk/moorgate/

Design Audio Classics is a new dealership based in Scotland, offering high-end audio and specialist home cinema. The company supplies products from ProAc, Marantz, Audiolab, Mark Levinson and REL among others. 2 (0141) 353 7474

Monitor Audio has restructured its management team to incorporate a group of new partners. Robin Jones, Barry Adams, Andrew Flatt and a group of private investors have all joined the team. Monitor Audio 🕿 (01223) 242898

Thomas Transducers has implemented production of the Virtuoso Reference horn-loaded speaker under the aggis of its recently-truncated B*a brand. Virtuoso Reference, which was unveiled during Hi-Fi News's Heathrow show last September, replaces the Virtuoso Gold (HFC 167) at the top of the company's range. Price is £3995.

In line with company philosophy, the speaker boasts a solitary wide-bandwidth Lowther driveunit; in this case the new DX3 with rare-earth magnet system.

The new design is said to improve upon its predecessor with a "faster transient response". It stands just over a metre high.

Proprietor Eric Thomas claims the Virtuoso Gold is "a free-range, organic product of the audio world", which "costs a bit more, but tastes a whole lot better."

The Sony Corporation has announced the passing of Masaru Ibaku, its founder and Chief Advisor, He was 89.

Huropean Union

Alan Sircom surveys Continental high-end territory with a little help from Copland electronics and Sonus Faber loudspeakers.

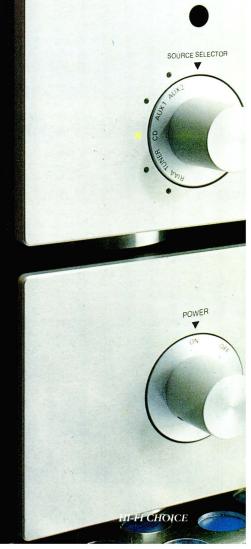
Somus faber

igh-end kit needn't be big, heavy and American. Some of the best high-end audio isn't even too expensive, either.

Although high-end distributor Absolute Sounds stocks some of the highest of high-end American kit from brands like Krell, Wilson and Theta, other strings to its bow are products of European companies like Copland and Sonus Faber.

These appear to offer a true high-end approach, while falling into the 'almost affordable' segment of many listeners' wish-list budgets.

To test this proposition, we assembled the following system: from Swedish brand Copland, the recently-introduced CDA266 CD player and the brand-spanking-new CSA28 integrated amplifier; from Italian speaker craftsmen Sonus Faber,



the Minima Amator loudspeakers supported on the purpose-designed adjustable Ironwood loudspeaker stands.

Despite its European origins, Copland is committed to the High Definition
Compatible Digital (HDCD) system, developed in the US by Pacific Microsonics, which claims to upgrade the quality of CD replay using a special encoding process. All three Copland CD players incorporate the PMD100 HDCD digital filter, allied to the Burr-Brown PCM 63P 20-bit D/A converter; all share a discrete-component, Class-A-configured analogue output section. Unlike Copland's '277 and '288 CD players, the CDA 266 uses a new, sprungsuspension Sony CD mechanism.

The amplifier is the real star of the show, if only because it is so new. The CSA28 is the first Copland amplifier ever to feature a remote control. Like the CSA14, it is a 60-Watt valve/solid-state hybrid. Rugged, hard-driving, cool-running semiconductors populate most of the circuit-boards, but a pair of double-triode valves straddle the pre- and power stages exactly where Copland believes sonic benefits are most beneficial and important.

For the speakers we move south to Italy,

HOICE

home of the exquisite Sonus Faber speaker you see in the photo. This two-way, 11.5-litre ported box is best sited away from the walls for optimal acoustics, but an enclosure like this just cries out to be shown off anyway. With a claimed efficiency of 88dB/W/m and impedance of four Ohms, this speaker must be matched with care to prospective amplificatory suitors, but it doesn't demand a powerhouse.

The distributor chose not to specify cables for this outfit — the natural choice would have been Transparent Audio, also from the Absolute Sounds portfolio, but we experimented with reasonably-high-end Audioquest, DNM, LAT and the new Nordost SBM Reference.

The latter brand was represented by a three-metre set of speaker cables and a one-metre interconnect, whose cost is almost the same as the system components themselves. The cables' portrayal of rhythmic information is among the most accurate around, but I'd say the SBM Reference is better suited to a darker-toned system; I opted for LAT and DNM.

So what does this system sound like? Can it fulfil the promise of 'affordable high end'? Well, if you're seeking the most accu-

THE 'EURO-HIGH-END' SYSTEM

 Copland CDA266 CD player
 £1,199.00

 Copland CSA28 amplifier
 £1,249.00

 Copland CSA28 remote control
 £65.00

 Sonus Faber Minima Amator spkrs
 £1,395.00

 Sonus Faber Ironwood stands
 £480.00

 TOTAL
 £4388.00

rate rig in the world, look elsewhere. However, if you would rather spend time with equipment that makes the most of almost any music played on it, this will be much more in line with your tastes. There is a sense of a self-imposed soundstage, especially from the Copland components, but this is nothing if not magically alluring.

Toe in the speakers dramatically and the imagery takes on precise proportions, yet the soundstage doesn't bloat or bloom. It is unquestionably on a slightly small scale, but only because the bass is in correct proportion and doesn't boom or disappear.

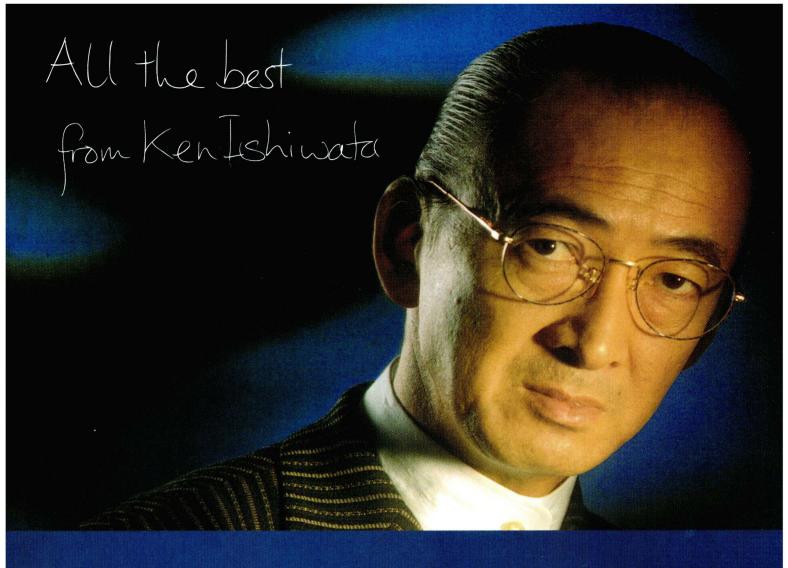
I found these components complemented all manner of musical selections, from Muddy Waters' *Mannish Boy* played at full blast, to Monteverdi madrigals relayed at a whisper. This rig makes particular sense of vocals, even massed vocals,

which are expressed with lyricism and articulation. It does tend to paint all music in the same hue, and will not dig deep into the mix to extract the n^{th} degree of detail and soundstaging. Instead, it lulls and relaxes the listener with a silken sheen that is the audio equivalent of a Radox bath, soothing away sonic tensions and leaving the listener enraptured and relaxed.

Sophisticates will love this system. The sharp-edged Scandinavian style of the Copland pieces strikes a unique chord with the elegant craftsmanship embodied in the Sonus Faber speakers. The refined sound quality only serves to heighten that Bollinger-sipping appeal. High end but 'almost affordable'? Yes, I think so.

Absolute Sounds (181) 947 5047









The PM-66 KI-Signature, voted European Amplifier of the Year

1997-1998

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Ear Waxings

Jason Kennedy, noted unreconstructed rock fan of this parish, finally hears his '70s albums the way they were recorded.

hat great music, those groovy clothes, the big, bluff loudspeakers... I'll never forget the '70s. The living was easy, especially for those in the hi-fi business. Pioneer PL-10D turntables, A&R A60 amps and AR18 speakers quite literally flew out of the dealers' doors.

At the same time on the professional side of the fence, bluebaffled JBL monitors like the 4312 were helping a whole host of superstars make the fantastic records we drool over today. And it must be to evoke memories of cheesecloth shirts and flares that JBL has reissued the 4312 in mkII guise, at a price of £1,000. When even retro studio monitors are cool, you know the world is trapped in an endless anachronism.

To be more specific, Japan is the territory most obsessed with two decades past. In fact, the 4312 is a 14-year-oldstudio monitor, the last in a line of relatively compact designs that were sired in 1968 by the 4310. At the time, the latter was so popular it spawned a domestic sibling called the L100 Century; which in turn was recently reissued as the Century Gold. Both the Century and the 4310 used Alnico magnets to power their five-inch midrange

The L100 incorporated a new, soft-dome tweeter, and though a domestic design, was proving most popular in recording studios. JBL was moved to release the 4311 monitor modelled upon it, and according to legend, this latter speaker assisted in the recording or mixing of two-thirds of US Top 50 albums in 1979. It was replaced in 1983 by the 4312, which featured a titanium-dome tweeter,

drive-units and distinctive, white

BI. 4x19mbit

and JBL claims that rated impedance is the only difference between the latter and the eight Ohm mkII.

I can't help but con-

A throwback to the days when

speakers had tone controls (left).

sider this a pretty cool speaker. In an age of slimbaffled, slickly-veneered boxes, the 4312's big Aquaplas -coated woofer and distinctive blue baffle really stand out. As do the level controls for midrange and treble energy. Heresy! But not every aspect of nostalgia integrates with modernity — it's not easy to

integrates with modernity — it's not easy to use this box with stands. In the 4312's heyday, a speaker stand was a flimsy brown thing with castors underneath it. Big racks of black steel look wrong in a supporting role.

But in this case two wrongs make a right, at least as far as sound quality is concerned: I expected soft, mellow, sophisticated; I got

presence, resolution, power. You can hear an awful lot through these big boxes. In fact I'd be very hard pressed to think of another similarly-priced design that would match it for bandwidth and resolution. The Acoustic Precision Eikos FR I offers a greater sense of speed and better imagery, but it will never match the glorious sense of West-Coastease, and the grunt of a big paper woofer cone.

Reelin' in the years

I honoured the reissued JBL with music that might have been mixed on its predecessors: Steely Dan, Brand X, Stanley Clarke, the Doobie Brothers, Supertramp etc. All sounded excellent; there were numerous highlights. I've never before heard such a good rendition of Goodbye Pork-Pie Hat, for example, from Jeff Beck's 1976 LP, Wired. The reasons for such sonic success are quite elusive, however. A speaker of this vintage, with low-tech drivers and a prosaic, inset-baffle box, should not be

so revealing. Perhaps it's because good threeway designs are so rare: this unusual driver array pays little by way of lip service to timing and imaging, yet delivers them consummately nonetheless.

I tried the 4312mkII both upright and on its side. The latter gave a warmer balance, but both configurations were pretty effective. What you hear is character: of instruments, voices and recording techniques, but not of the speakers themselves. Switch to the Eikos FR1, and the contrast throws into relief the signature of the JBL's box and its multiple drivers; but when the JBL performed I found its artefacts quickly blended into the background, leaving only the sound of the music in a very palpable sense.

So the only niggle is their awkward look on top of a pair of stands. Guess I'll just have to invest in a mixing desk and effects rack to make 'em feel at home...

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The Jimmy Hughes

Experience

Criticism of **Jimmy Hughes**'s hi-fi system sparked him to reappraise the noble principle of compromise.

know good sound is a matter of personal opinion, but it does help if you have some sort of yardstick. Because my principal goal is the natural, unexaggerated reproduction of classical music, my reference is the warmth, homogeneity, and sheer ease of live acoustic sound when heard in a good concert hall. The trouble is, I also want music to be immediate, involving — and exciting.

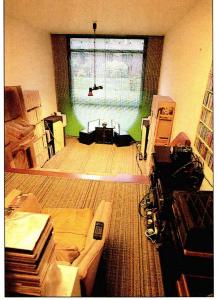
Are all of these qualities incompatible? Not necessarily. But it is easy to enhance excitement and involvement by exaggeration. More is always better until you go too far. It's a bit like increasing the contrast and colour saturation on your TV set to enhance the picture and make it more vivid and 'real'. It seems like an improvement until you notice every person looks like they have a serious drink problem.

Exaggeration works up to a point, but the drawback is its selectivity. The effect is superb in some cases, terrible in others. Something truly neutral shows no preference, but recreates all things without favour. The trouble is, because 'more' is always 'better', sometimes it's difficult to accept a neutral, unexaggerated balance: the temptation is to spice things up. It's easy to be seduced by added boom and tizz.

I love the way that good reproduced sound can clarify complex textures which might sound rather opaque when heard live. Some pieces of music are so dense and layered, it's almost impossible, during a live performance, to hear everything the composer wrote. A carefully-balanced recording can capture detail lost in the concert hall, to give a more complete experience of the music.

Over the years I've aimed steadily for sound that approaches the smooth tonal balance and unequivocal integration I perceive when seated in a concert hall. Unfortunately, this conflicts with the part of me that wants the sound of hi-fi in excelsis: forward, clean, brightly-detailed, tactile, articulate, dynamic. Of course I want to hear every note reproduced clearly, but I'd rather avoid obvious highlighting or exaggeration.

In a sense, the problem stems from trying to serve two masters. On the one hand there's fidelity to the sound made by an orchestra in a specific concert hall. On the other, there's fidelity to the music itself. Each overlaps the other, so a compromise must be achieved.





Jimmy's rig (with reversed Impulse speakers) is intended to sound like a concert hall.

Second opinions

To more closely approach the live experience, I've reversed my loudspeakers so the sound is reflected from the rear wall. I've added several line-matching transformers to enhance subtle changes in pitch definition and dynamics. It's a highly unusual approach, so I'm always interested to see what others make of its results.

Last October I received a visit from Branko Bozic of Audiofreaks, and Alan Sircom of *Hi-Fi Choice*. Branko last visited me some 10 years ago, while for Alan it was his first venture into my inner sanctum. "Would they like my system?" I wondered. The short answer was... no! Indeed, Branko listed several parameters in which he believed the sound was lacking.

I wasn't shocked by Alan's thumbs-down. He listens to Rehdeko loudspeakers, which have a very forward and articulate midband. After Rehdeko, even the QE2's foghorn would sound recessed! The French manufacturers put immediacy, dynamics and articulation before neutrality and bandwidth.

However, I was surprised Branko wasn't more positive. He did say the tonal balance was extremely natural, but I felt this was a consolation prize. For Branko (and Alan too, I suspect), the sound wasn't exciting and involving enough. It didn't grab you by the lapels and make you listen. The very things I'd struggled to achieve — evenness, neutrality, integration — meant little or nothing.

I thought the sound was rather good. I liked the way each new recording sounded quite different to the last. With many hi-fi systems, once you've heard a track or two, you often know exactly what to expect — the sound never surprises you. Here it was nicely integrated and homogeneous, yet remarkably contrasted, tonally and dynamically

I also liked the way each recording was revealed in a positive light, so you heard what was right rather than what was wrong. If sheer physical excitement was lacking, I felt it was a price worth paying for the virtues outlined. For sure, I also want that excitement at times. But not if it means sacrificing integration and naturalness.

Some weeks later, Branko rang back to say he'd changed his mind about my system. He'd been to the New York Metropolitan opera to hear Rossini's *Cenerentola*, and realised what he heard at home, although of superb quality, was not like the sound he'd heard performed. The balance at my place, he felt, was much closer to a 'live' experience.

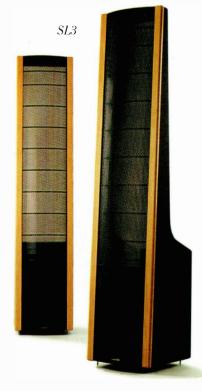
I was pleased to receive this 'phone call, but ironically, perhaps having been stung by criticism, I had subsequently modified my rig to liven things up a bit. Maybe before, I'd gone too far towards integration and smoothness, at the expense of bite.

The truth is, good live sound encompasses extremes of loud and soft, sharp and smooth, high and low, which hi-fi equipment still struggles to recreate. It's inevitable that we will have to compromise certain facets of our systems' performance, in order to make the most of others which are more important to us. The hi-fi enthusiast's skill is in knowing where the compromises should be made.



re:Quest Martin Logan the name in electrostatics







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- D Warren of York
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All entries must arrive by first post, Thursday 26th February 1998.

THE OUESTION

What is the Antiference dipole called?

- a) Matchmaker
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- c) True Blue
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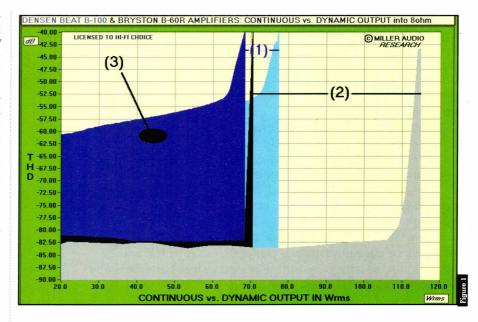
Paul Miller's Oasis of Sanity

Two amplifiers with the same quoted power output sound as loud as one another, right? Wrong, actually — and here's **Paul Miller** to explain why.

his month's column prefaces a feature next month in which we will investigate the arcane amplifier/loudspeaker interface (now known in the office as the 'Grand Unified Theory' – Ed). This month I will build upon an earlier Oasis (HFC 166) in which the topic of an amplifier's 'load tolerance' was first raised. We will uncover important differences between an amplifier's continuous power output, its dynamic power output and its tolerance of difficult speaker loads. I have drawn examples from the contestants in this month's group test (p62).

Power output specifications still come top of the list for unscrupulous manufacturers who want to exaggerate the potential of their amplifiers. These days, bogus or overoptimistic specs are hardly rife, but they still occur often enough to catch out those magazines lacking Hi-Fi Choice's technical expertise. Even if the specification is not deliberately 'exaggerated', different measurement conditions will give rise to different results. For example, power output might be specified into eight or four Ohms or, alternatively, with both channels or just one driven. In each case, the latter of the two options will seem to give a higher power figure. Also, power output might be tightly specified at a one per cent distortion limit (à la Choice), instead of at 'clipping' or 'maximum' which involve a degree of interpretation and error.

'Peak music power' is especially dubious, so be wary of any product specified in such a fashion, particularly if the power output seems too good to be true. I mention this because it goes to show that one manufacturer's '70 Watt specification' may not equate to another's, and why it's especially dangerous to cross amplifiers off your shortlist just because they seem to offer a lower power output. It could be that those 'lower



specced' products are simply more honestly described.

method of specification.

This is also why you'll read comments in the hifi comics like "this amplifier sounds a lot louder than we expected". The assumption, of course, is that several amplifiers all rated at (say) 70 Watts will drive the same loudspeakers to an equal level. In practice there is no mystery surrounding the reasons why one 70 Watt amplifier may seem to 'go louder' than another model, even when both models are adhering to a common

FIGURE 1: DYNAMIC AND CONTINUOUS POWER RATINGS

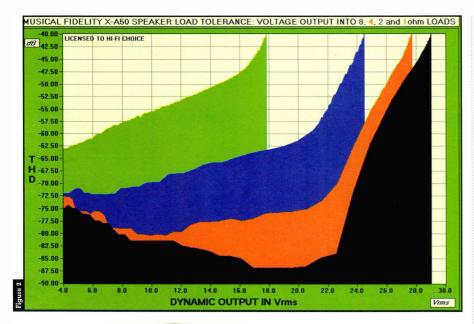
Here's an example of two amplifiers taken from this month's group test: the Densen

light blue) and Bryston B-60R (black and grey). The maximum *continuous* power outputs of both amplifiers are represented by the dark blue and black traces respectively, and are plotted against distortion on the vertical axis. On this scale, -40dB equals 1 per cent distortion, -60dB equals 0.1 per cent and -80dB equals 0.01 per cent. As a result, it's possible to see that even within the power band of both amplifiers (say, up to 60 Watts), the output of Densen's B-100 is always more distorted (3) than that of Bryston's B-60R. But this is incidental to the main thrust of our discussion.

en Beat B-100

Importantly, we can see that the continuous power output of the B-100 is 68 Watts into eight Ohms, while its dynamic output reaches 77 Watts, a *difference* or 'dynamic headroom' of just +0.5dB (1). By contrast, though the continuous power output of





the B-60R is little more than its rival at 71 Watts into eight Ohms, it has sufficient headroom (2) to achieve 115 Watts per eight Ohms under dynamic conditions.

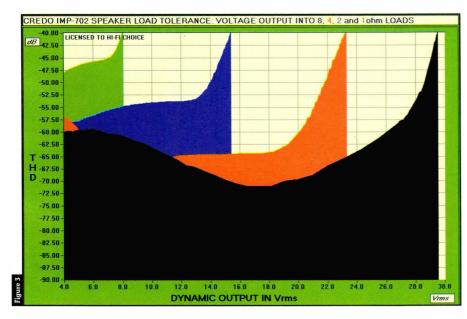
Which, in practice,

I am not trying to make a qualitative statement about the respective sound qualities of either amplifier. Rather, the graph simply demonstrates that while both amplifiers might seem to be rated at a similar 70 Watts per eight Ohms, in practice the B-60R may well have the capacity to achieve greater sound levels under dynamic conditions.

FIGURES 2&3: SPEAKER LOADS

Of course, this assumes your loudspeaker offers a broadly non-reactive eight Ohm load

few ever do. So why else might two similarly-specified amplifiers sound 'louder' or 'quieter' than expected? The answer lies in their ability to maintain a given output regardless of the difficulty posed by the speaker load. The easiest way to appreciate such differences is to view the amplifier as a source of Volts and not Watts. Broadly speaking, the more 'load tolerant' the amplifier, then the more able it will be to sustain a given voltage across the speaker load. Take Credo's IMP-702 and Musical Fidelity's X-



A50 by way of comparison.

The former will maintain roughly 29.5V across eight Ohms (a dynamic power output of 108 Watts) while the latter offers a similar 29.0V or 104 Watts into eight Ohms. This is realised graphically by the black traces in both images, which plot dynamic *voltage* output against distortion, once again.

As before, obvious differences in distortion versus output are apparent and will exact their own influence on the respective sound quality of each amplifier. For our purposes, however, we are more interested in how this 20.5V or 29.0V output is maintained into lower four Ohm, two Ohm and one Ohm loads (red, blue and green traces, respectively).

And the difference or respective 'load tolerance' of both amplifiers is very obvious indeed. Under identical, dynamic conditions, the Credo collapses very quickly indeed, its 29.5V holding to 23.1V (133 Watts) into four Ohms but then collapsing to 15V (113 Watts) and 8V (64 Watts) into two and one Ohm loads respectively. Contrast this with the X-A50, which only falls marginally from 29V to 27.5V (188 Watts) into four Ohms and then 24.5V (286 Watts) into two Ohms and 17.9V (289 Watts) into one Ohm.

So, although the Credo has a slight +0.2dB advantage in dynamic output into eight Ohms, it's the MF that ends up with a handsome +4.0dB margin if and when the speaker load dips momentarily to two Ohms or so. As a result, the '100 Watt MF' will still be singing through the sort of difficult speakers which would leave the '100 Watt Credo' gasping for breath.

The moral of this tale is simple: don't rely on simple power specs to gauge the ultimate loudness capacity of a given amplifier/speaker combination.

If that's set your head reeling, just wait until next month, when we begin divining the loudspeaker's rôle in the replay chain!

Do you have ideas for topics we might address in the Oasis? Please contact Paul Miller direct via E-mail on 100576.3021@compuserve.com







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WHAT HI-FI? October 1997 ★★★★

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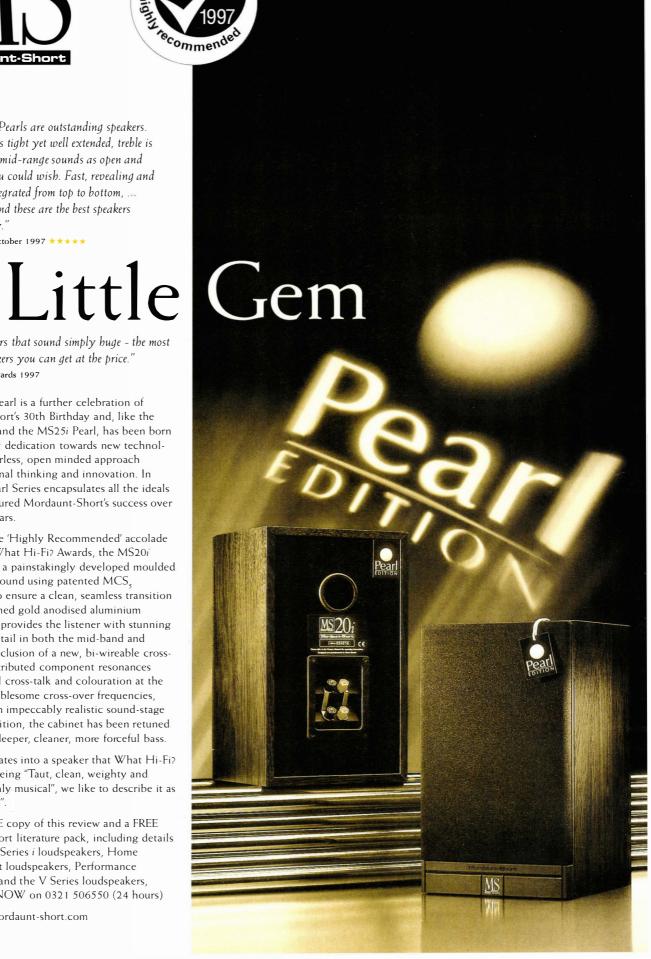
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Personal

Having undertaken his first cartridge test for 10 years, **Paul Messenger** ponders the continuing power of vinyl.

Microgroove or microbus? Paul has his fave.

onthly magazines do a good job of chronicling day-to-day hi-fi topics, but their 30-day perspective is apt to ignore the longer-term view. And the latter can be more useful in the way it avoids trivia and focuses on trends. This month's group test of vinyl pickup cartridges (p54) comes roughly 10 years after I was last involved in such a project. The differences between then and now aren't enormous, but they are important.

A decade ago vinyl looked ready to receive its last rites, its doom long foretold by the false prophets of the silver disc. Today (thanks in no small part to the DJ/club scene) vinyl seems to have established a solid, if small, specialist niche; and sales of hi-fi turntables, tonearms and cartridges have picked up. One rep recently complained he thought he'd seen the last of 'dratted fiddly little pickup cartridges' years ago — and was not at all happy to find them making a comeback.

To what extent this is happening is difficult to gauge, but there certainly seems to be more vinyl activity than five years ago, and

a 'lost generation' of under-30s is starting to discover what it's been missing. A 19-year-old hi-fi-nut friend of my son stayed over for a weekend recently. It was maybe a little unfair to hit him with the full 20-grand-and-some Linn/Naim experience, way beyond teenage aspirations. But it was the vinyl bit that really knocked him out. It was so far beyond his expectations, he went straight down to the hi-fi shop the next day, to put his name on the secondhand Sondek list.

The past 10 years has seen steady improvements in all areas of hi-fi, but I can't help feeling that the gap between vinyl and CD has widened rather than shrunk. I can certainly hear differences between

Messages

CD players, but I'm not sure how important they are. The contrasts between the cartridges I've just tried were altogether more obvious and interesting.

The only components I haven't changed over the past 10 years are my turntable and tonearm. Even so, vinyl sound quality has improved dramatically, thanks to improvements in support furniture, pickup cartridges (and, for that matter, cartridge head-amp arrangements and power supplies).

A worthwhile investment

The big down-side of vinyl addiction is running costs. Turntables and tonearms need little more attention than a sun dial, but pickup cartridge stylii wear out as you use them. The high-end cartridges reviewed this month are not only seriously expensive items: they'll need replacing in a few years time, depending on usage. If you get a thousand hours out of a £1,500 cartridge, that works out at around 50p per LP side, which is a sobering reflection. Still, I guess it's no more than a long-haul holiday in the sun — and that's only going to last a few weeks.

The high prices of these cartridges shocked me at first, but when I investigated the historical record, I found that real increases hadn't significantly outstripped general inflation. Indeed, van den Hul's MC10 and MC One models cost £600 and £800 in 1986. Today's *Directory* lists them at £800 and £1,000, which is actually considerably less than 12 years' inflation.

Those two cartridges were VdH's top (and only) models back in 1986. Nowadays

there are more expensive Grasshoppers and Frogs, with all sorts of extra refinements. High-end cartridge prices have risen ahead of inflation over the years, but that rise only reflects the considerable improvements in performance which have been going on at the same time. I picked the van den Hul examples because they were the only models listed under identical names in *HFC* issues 48 *and* 172. All other 'equivalents' had undergone upgrade processes. For example, Linn's 1986 Karma (£400) has evolved into the 1998 Arkiv 2 (£1,200), following a pattern much closer to inflation, but offering considerable performance improvements at the same time.

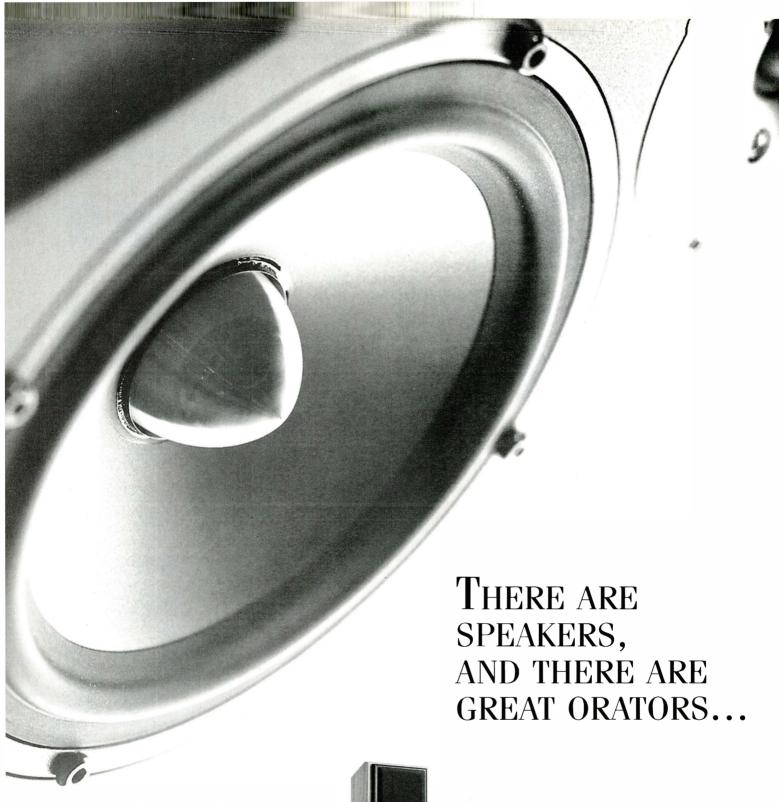
The historical perspective gives some reassurance about the price tags on today's highend cartridges, and if 'value for money' is an inappropriate phrase, I am thoroughly convinced that the 'value' part is in place. The cartridges tested in this issue provide us with an excellent example: I wouldn't kick any of them out of my tonearm, and managed to fall in love with each of the Recommended models in turn, for their own special reasons.

When I got quite excited by Linn's new Arkiv in my December '97 column, the office caption writer identified this as a 'shocking confirmation of known prejudices'. Perhaps so, but the fact that it so comprehensively blows away its predecessor is perfect evidence of the continuing progression of the cartridge art. The Arkiv 2 suits my own system and preferences very well, but every one of the five Recommended cartridges in this month's group test offers its own alternative set of temptations. To be perfectly honest, I

wouldn't mind hanging onto a selection, just so I can ring the changes according to the mood or disc!

The 10-year trends don't involve any radical changes, but instead relate to small, incremental improvements in micro-engineering. More precise stylus profiles, smaller diamond tips, and stiffer (eg boron) cantilevers all help in controlling high frequency resonances. Efficiencies are up a couple of dB too, probably as a result of refinements in the magnetic structure, and the overall effect is considerably enhanced transparency and dynamic range. After three weeks playing exclusively with vinyl, I'm finding it very hard to go back to CD!





"In summary, the Concert 8 is one of the most advanced loudspeaker designs on the market today."

Hi-Fi World June 1997

"..., the Jamos prove capable of wide open soundstaging, wonderfully free-breathing dynamics and a winning combination of glorious bass power with smoothly-

integrated midband ambience and sweet, clear treble."

WHAT HI-FT? APRIL 1997 ****

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 ◆ Acoustic Precision Eikos interconnect, one metre (£85) ● Electrofluidics Monolith 20:20 speaker cable, six metres (£270) **TOTAL PRIZE VALUE: £2,152.90**

egular Hi-Fi Choice readers will recognise the name of Tom Evans. For a number of years now he's been a prominent hi-fi iconoclast, with a highly individual view of what makes a great hi-fi rig. This month's Prize System represents the realisation of Tom's 'phase-linear' system concept.

Both electronic components are from Pioneer's Precision series. The CD player and amp are based on standard Pioneer products, albeit with Tom's extensive tweaks fitted at Pioneer's Yorkshire-based factory.

The PD-S505 Precision CD player incorporates a revised master-clock module and a proprietary IC output stage which has reduced distortion. The A-300R Precision, meanwhile, incorporates upgraded op-amps and offers a power output of 57 Watts (into eight Ohms).

Linking the two together is a metre of Acoustic Precision's noted Eikos interconnect.

Acoustic Precision is also the name gracing our system's speakers. The Eikos FR1 enclosures, made from a special 30mmthick honeycomb-copolymer material, are the fruit of a liaison between Tom and Paddy Handscombe of Electrofluidics. With a single metal-cone drive-unit and no crossover, the FR1s are built for speed. Though sporting a black finish for our photo, those supplied to our competition winner will be dressed in an appropriate shade of British Racing Green.

To complete the rig there's a three-metre-long pair of Electrofluidics Monolith 20:20 speaker cables, and Acoustic Precision's Black Box power conditioner to supply high-purity juice to the CD player.

Alan Sircom reviewed this system last month, and his findings are best boiled down into the following statement: "If your music collection is a little more eclectic than the norm, the Pioneer/Acoustic Precision/Electrofluidics outfit will show you why musical diversity makes the rockin' world go round."

We await your submissions...

HOW TO ENTER

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

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Bradley Stoke North,

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All entries must arrive by first post, Thursday 26th February 1998.

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Tom Evans's system concept is based on which concept?

- a) Linear Phase
- b) Line Phase
- c) Phasers Set To Stun
- d) Phase Linear

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COMPETITION RULES

- The Closing Date for this competition is Thursday 26th February 1998. Winners of the Phase Linear System Competition will be judged from all correct entries submitted, and drawn at random after the Closing Date.
- Winners will be notified by post.
- The Editor's decision is final and no correspondence will be entered into.
- The Phase Linear System Competition is not open to employees of Dennis Publishing Ltd, Pioneer High-Fidelity (GB) Ltd, Acoustic Precision Ltd, Electrofluidics Ltd. nor their suppliers, agents or associates.
- We regret this competition is open to UK residents only.
- No cash alternatives will be offered.
- We reserve the right to substitute alternative prizes with equivalent value to these shown, in the unlikely event of stock being temporarily unavailable.
- By entering the competition you agree to be bound by the rules.
- All entries must be on this official entry coupon. If you do not wish to cut your magazine, you may send a photocopy of the page instead. Please note: only one entry form per household.

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head tape deck in September 1996. They continued,

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LETTER OF THE MONTH



Great (hi-fi) mates

In these cynical times when consumers are abused willynilly by retailers, stories of good service deserve to be heard. My system here in the 'land of sand' currently com-

prises an Arcam Delta 250/Black Box 50 CD replay system, Delta 290/290P amps, Castle Avon speakers and Audioquest cables. All but the speakers are almost two years old.

Recently my Delta 250 developed a fault whereby it failed to read discs on their first insertion. When I switched the power off and on again the fault corrected itself, but obviously all was not well. Assuming a problem due to dust or lack of lubrication, I took the unit to local Naim dealer, Mate Hi-Fi, here in Dhahran.

Investigation revealed that the problem lay in a weak laser assembly. So I contacted my Arcam dealer in the UK, Acton Gate Audio, who approached the company about the fault. As a result Arcam agreed to supply a replacement laser assembly, merely on being informed of the unit's serial number. They didn't even want to view the player! I received the replacement part, free of charge, within 10 days of my initial enquiry.

I passed on the new laser assembly to Mate Hi-Fi, who installed it, tested the player and returned it to me within 24 hours — again, free of charge. The owner of the shop justified his generosity by pointing out that I have regularly coaxed my colleagues in his direction, so he was happy to return the favour.

As far as I'm concerned the first lesson from this fortunate tale is to 'buy British'; the second is find a good dealer, and stick with him. Loyalty is repaid! This goes to prove that manufacturers and retailers do value their customers.

P C Jones, Dhahran, Saudi Arabia

A measured response

First, let me say I enjoy reading your magazine. It is entertaining, but not entirely useful, because most of the equipment you review is not available in the USA. However, I noticed another curious thing: the measurements you print for every contender in a group test are not consistent from model to model. Case in point: your November Budget Beaters amp review lists output impedance figures for some players, but not all.

Even more interesting: lab reports for the top two

machines are devoid of those measurements. Why is that? Could it be that those measurements might be in the unexceptional range of 500-1,000 Ohms, a characteristic of most inexpensive Japanese players?

I've long since accepted reviewing along national/distributor/advertiser lines, so popular in US and British magazines, but your decision to leave out those measurements leaves a bad taste. Please prove me wrong and include ALL measurements, for ALL players. Albert Guzik, NYC, US

Our Technical Editor, Paul Miller, includes in his Lab Reports the results that he believes to be most relevant to findings during the listening tests. Listening tests are our final arbiters of quality, but it is useful to form an objective opinion of why a product sounds the way it does. Inherent to this approach is a policy of leaving out unexceptional test data. If you desire rigorously-tabulated spec-lists, read a user manual. M

Power trip

With interest I have followed the 'loudness' debate initiated by Musical Fidelity with its Kelly Transducers KT-3 loudspeaker. The whole premise behind this power trip (pun intended) is the reproduction of 'live concert' SPLs. But is this classical-music performance SPLs, or rock-concert SPLs?

In the orchestra we experience levels of up to 105dB, but in the hall itself, even with the music in full swing, a sound-pressure-level reading would be less than that. I believe there is an issue here that is being ignored: perspective.

I used two recordings, both Cleveland Symphony Orchestra playing Mussorgsky's Pictures At An Exhibition and Tchaikovsky Symphony No 4. If I put the levels any higher than 92dB while playing these two pieces the whole orchestra would appear too close. That is to say, if I listened to the opening trumpet solo in Pictures with the amplifier attenuated for a 92dB peak, it would put me about 15 feet away from the first trumpet, which would have me sitting on top of the fourth stand of violas!

If I wanted to hear the group the way the director

OUR ADDRESS

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hears it, I would listen this way, but it's not a particularly realistic way of simulating a concert hall experience.

Sean Engel via the Internet



Vinyl solutions?

As a recent convert from CD back to records, I am disappointed in the paucity of reviews and editorial dedicated to turntables, tonearms, and cartridges in *HFC* of late. In the light of evidence pointing to a vinyl revival, and when you con-

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Write on!

sider the number of people who still have record collections in their home, is it not time to redress this imbalance?

A regular review of cartridges would be most useful, as these are some of the most difficult components to audition for oneself. Being able to draw up a shortlist from your reviews would be a relief not only for those readers who still use vinyl, but for dealers as well. How about bringing back 'Sessions' for this purpose? R Dane, Gillingham, Dorset

As chance would have it, we've taken the opportunity to review tasty cartridges in this very issue (p54). In last September's edition we dedicated six pages to audiophile recordings much 'black gold' was included therein. We are duty bound to concentrate on features appealing to the greatest number of readers, and our Help pages show that, perhaps regrettably, very few of them still 'put the needle on the record'. However, more than half of our contributors still use turntables, so rest assured we're still keeping the LP faith. IK



The fine wine effect

May I congratulate you on the CD player test in the September issue. It must be no mean feat to test so many machines, assemble a coherent listening panel, meet a deadline and arrive at useful, accurate conclusions.

At your prompting I purchased the Sony CDP-X3000ES. I am pleased with my purchase but (and here it comes) I must bring to your attention a problem not properly underscored: the break-in time necessary to evaluate good gear. This varies from blessedly short to absurdly long. In either case a reviewer or purchaser can't judge until this waiting game is over!

World class reviewers need world class integrity as well as the ears to hear, lest they lead the eager lambs astray. The Sony is a perfect example: 300 hours later it is still changing — for the better. I shudder to think how many reviews have been unjust or misleading due to haste. Careful ageing is mandatory for wine and hi-fi alike.

Shepperd Strudwick, La Mothe Cassel, France

I'm glad to hear your CDP is still improving, I remember a series of letters from a reader whose Sony CDP kept getting better over the months.

As you point out, most comnonents improve as they are run in, which is why we always thoroughly warm up our review samples. However, when it comes to our group tests, where comparative evaluations are made, it's unlikely that extended run-in periods would affect the pecking order of components. And because of the inevitable time constraints of our thorough reviewing procedure, we rely on manufacturers to run-in products before supplying them.

When one-off reviews are carried out we have longer to appraise a product and less need to make A/B comparisons. This might explain why most Statements candidates always seem to fare relatively well. IK

Taping times

I was very pleased to see that in issue 171 of your magazine, you conducted tests on twin cassette decks, which sometimes are not regarded as proper hi-fi. My interest is in getting up to three hours uninterrupted recording time on an audio tape. Unfortunately, none of the decks included in your test report will provide this, because they do not reverse until the spool is empty, so there are two silent gaps in the recording where both sides of the leader tape have passed over the recording head.

Could your experts please tell me of a twin deck with a 'quick reverse' action? I realise that this may be outside the price range set for the tests you featured.

George Carmichael, Beverley

A number of autoreverse single decks of yesteryear featured an optically-triggered end of side detector, but it is debatable whether that sophisticated feature ever made the transition to a double-deck machine.

An alternative (and far more elegant) means of recording up to eight hours non-stop is to use a video recorder equipped with Hi-Fi Stereo capability, switchable audio input sockets and a long-play (LP) feature. With one of these you have the added bonus of timer control — just leave your tuner hooked up and turned on, and Bob's your uncle! Sound quality is on a par with FM radio; no worse than that of most double decks. IK

Tighten your Belts

Jimmy Hughes's monthly column in your magazine tends to conclude that purely mechanical explanations of hi-fi sound quality are insufficient. So I was therefore disappointed at the way in which JMH's column and your editorial comment (HFC 172, p19) dismissed Peter Belt as a crank.

Peter Belt has done more than anyone else in hi-fi to establish the effectiveness of new and far-reaching techniques to improve perceived sound. PWB Electronics, which markets and develops Belt's inventions, continues to produce its remarkable devices. These deserve renewed attention from the press.

The issue now is not whether they work, but whether the public and the hi-fi industry are prepared to listen to PWB's explanation of what's going on. Theory deserves its proper place in the scheme of things, and it is not enough to be easily dismissive of new ideas, particularly when these are producing consistently impressive results. I recommend that Jimmy Hughes revisits the PWB Web site (www.belt.demon.co.uk) and checks out the latest developments. To dismiss them out of hand would be to close the door on profound developments in the theory of perceived hi-fi sound. And the editor of the magazine should be more circumspect. The 'left-field' theory to which he refers may one day become axiomatic!

Kenneth Hyam, London

Epiphany...

I have only discovered hi-fi in the past few years. Being an impoverished student I have limited funds available to lash out on equipment. However, I have always had two things:



lots of vinyl, and the means by which to hear it. Recently I've been able to splurge and I am happy with the equipment I have purchased, even though it is not, by any means, the best gear available.

I have noticed, however, that my musical tastes have gradually shifted away from styles I used to follow religiously (mainly rock), in favour of classical, jazz and folk genres. Do you think this is a function of decent hi-fi revealing the compressed nature of many rock recordings, or just a side-effect of maturing tastes?

Even though I am musicall metamorphosing, I still think that the greats of '60s and '70s rock trample all over any of today's pretenders (Ocean Colour Scene, Oasis, Supergrass, even Paul Weller). Why do they insist on reinventing the wheel? I'd almost rather listen to the Spice Girls!

Also, I've seen the word 'musicality' bandied about in hi-fi reviews — what does it mean? It strikes me as a very subjective term to use.

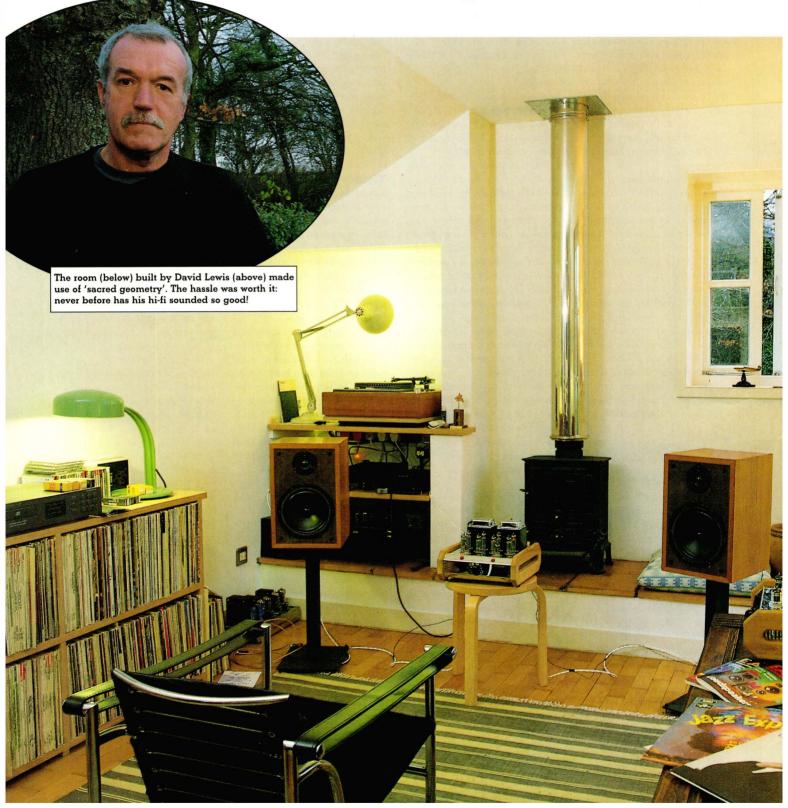
Ramon Zarete, via the Internet

Look at it this way: a good system does not so much reveal the deficiencies in bad recordings, as reproduce more sophisticated recordings in such a way as to show off their attractive qualities to the full. The best hifi system is the one that makes the most difficult material sound like music.

'Musicality' is a subjective term, so we try to avoid it wherever possible. In general it refers to timing and the sense of musical enjoyment that strong hi-fi products can confer. JK



The Gold



Standand



Architect **David Lewis** tells the tale of his 'ultimate' hi-fi upgrade: a new listening room created using 12th Century mathematical principles — and 20th Century builders...

wo years ago I decided to leave fulltime employment as director of a large architectural practice in London. I would get out of the Smoke and move to a small house in Sussex, previously used only at weekends. The only problem on arriving was what to do with my hair-shirt music-playing system and collection of 3,000 records. My wife was reluctant for the full-on hi-fi to usurp the user-friendly, all-transistor record player. The rig and most of the records were consigned to the loft for rest and recuperation.

Having intended to enter semi-retirement, I found myself suddenly flooded with work. Even the spare bedroom was pressed into service as a temporary office. We were seriously running out of space, and one evening — in expansive mood after a particularly fine supper — we concluded our only option was to build an extension onto the rear of the house.

You'd think this would be child's play for an architect. But there's an old saying that the shoemaker's children always have bare feet. As the new room was intended as an office-cum-music room, I was adamant, to the point of obsession, that it should have Golden Section proportions.

Golden headcuffs

The Golden Section is an architectural term for a room whose dimensions are based on a sequence of numbers identified by the 12th Century Italian mathematician Leonardo Fibonacci, in which each term is the sum of the preceding two terms. For example, 1, 2, 3, 5, 8, 13, 21 etc. In practice, a space thus constructed will not entertain deleterious standing waves at any frequency.

(For an explanation of this concept, read David's article in HFC 167. You can order it via FactsBack reference 1974 — see page 128 for instructions. -Ed.)

Numerous obstacles presented themselves. My wife, who has spent many years working with architects, wasn't going to be fooled easily. She was adamant that the view of an old oak tree from the dining room was sacrosanct. Then the local planners gave me a hard time about my proposal to build immediately next to a former Roman road and hedgerow. The garden was quite narrow, so how would my neighbour react to an extension overlooking her patio? Problems, problems.

Worst of all was my mounting inability to reconcile the practical needs of an office, and the recreational needs of a serious listening room. Where to put the drawing board and computer? What about the filing cabinet? The speakers had to be installed well clear of walls and corners, but how to achieve that while preserving access through the French doors?

Could I work out a layout that would allow me to swivel around in my chair, from desk to listening position? Would an acoustic obstacle result from the presence of our family heirloom, a Jacobean chest which had to be moved into the new room?

On paper, walls were going up and down like yo-yos. Every evening my wife and I staggered around the garden in the dark, banging canes into the lawn in an attempt to visualise the outline of our metaphorical building, and its effect on the existing house, its roof, the views, the hedgerow, the neighbour. Indeed, it seemed, the entire universe.

Slowly, I had to acknowledge there would be compromises in my quest for audio nirvana. With all constraints imposed, there was no way the room could be constructed to wholly-Golden-Section proportions in both plan and cross-section.

Reluctantly I settled for a Golden Section plan (ie floor area). I selected ceiling height such that resonant modes occurring along



INSPIRATIONS

the length and breadth of the room would be incompatible with those occurring in the vertical dimension. Once I got to this point, I knew that in theory, the room should possess beneficial acoustics. Things started to move on apace from this point onwards, and in what seemed like no time at all, the builders arrived. Then the fun really started.

Building confidence

I've had a lot of experience with all types of builders over the years, but I'm still amazed by their ability to take over one's life lock, stock and barrel. Building work is very much like war: short periods of frantic activity and anxiety, followed by long periods of boredom and waiting. It's very easy to become disheartened by an apparent lack of progress, and I wondered if I would ever hear my system again. On the plus side, however, the hiatus made time for my Leak Stereo 20 and Troughline 3 tuner to be rebuilt and restored by Graham Tricker of GT Audio.

Building work lurched to a halt just before Christmas, so I had time during the festive break to get the room 'warmed up'. I had only theoretical reassurance that the room would sound wonderful, but despite my anxiety to get everything up and running, I took time to savour every moment of installing, positioning and mounting the equipment. When working out how the room was to be constructed and finished, I had been careful to select dense materials

— such as a concrete suspended floor — to make sure that bass would be kept under control. I was also keen that there was little or no absorption of sound by curtains or over-soft furnishings.

As the room was appointed so sparsely, initially it sounded very 'live'. Gradually I added more and more 'diffusion' (books and records on the rear and side walls) then more absorption. I tried a range of rugs, small and large, thick and thin, on the wood-block floor. Slowly, the sound came into focus. In fact, it became really quite awesome!



It seemed so clean, effortless and dynamic that, initially, I couldn't work out whether this

was due to the room, my home-made Dave Berriman DBS6 kit loudspeakers, or the rebuilt Leak Stereo 20. Graham Tricker had warned me that a straightforward rebuild of the Leak amp would produce a really knockout amplifier, equivalent to one that might cost around £1,500-£2,000 at today's prices. And even though Graham had gone so far as to replace the original capacitors with Cerafines, I hadn't expected a design obsolete for 30 years ago to sound like this.

I moved the system to the living room, which has completely different proportions, being longer and narrower, more like a double square, with more absorption but roughly the same volume. Sited therein, as I had expected, the system still sounded dynamic but much less controlled. I suspect part of this was due to the speaker stands being spiked to a timber floor, but it was pretty



David's system includes a Garrard 401 turntable, Audio Innovations L1 preamp, Leak Stereo 20 power amp, Troughline 3 tuner and home-made DBS6 speakers.





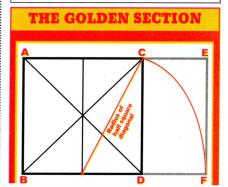
After about nine months of fine tuning,

After about nine months of fine tuning, the room — now known in my household as the 'dog-box' — has really settled in, and just seems to sound better and better. This has had the unforeseen effect of attracting my nephew, Mo, to use the room as a testbed for his esoteric prototype valve amplifiers with kiloVolt supply rails. His latest idea is to fashion lead-cloaked Blu-Tack surrounds for volume controls, capacitors and any other components susceptible to vibration or resonance. I made one and tried it out on my preamp valve, and it really did seem to bring about quite an improvement.

As I wrote in *HFC* 167, audiophiles can save a lot of hair-pulling by isolating the effect of room acoustics prior to upgrading components, interconnects et al. I have been fortunate enough to design my listening room from scratch, so you'd think I would now concentrate on the widgets and wires. Chance would be a fine thing — now I've become convinced that my room isn't big enough. So my next upgrade will be to build a bigger space with absolutely ideal Golden Section proportions. Signor Fibonacci was on to something special, but I bet he didn't have to deal with builders...

David Lewis has worked as an architect for 27 years, and has been involved in the building of spaces for the Arts, music and broadcasting.

Below: In search of sonic purity. A-B,C,D is a square, while A-B-E-F is a Golden Section.

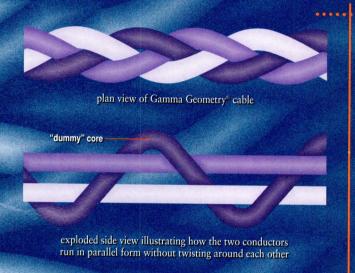


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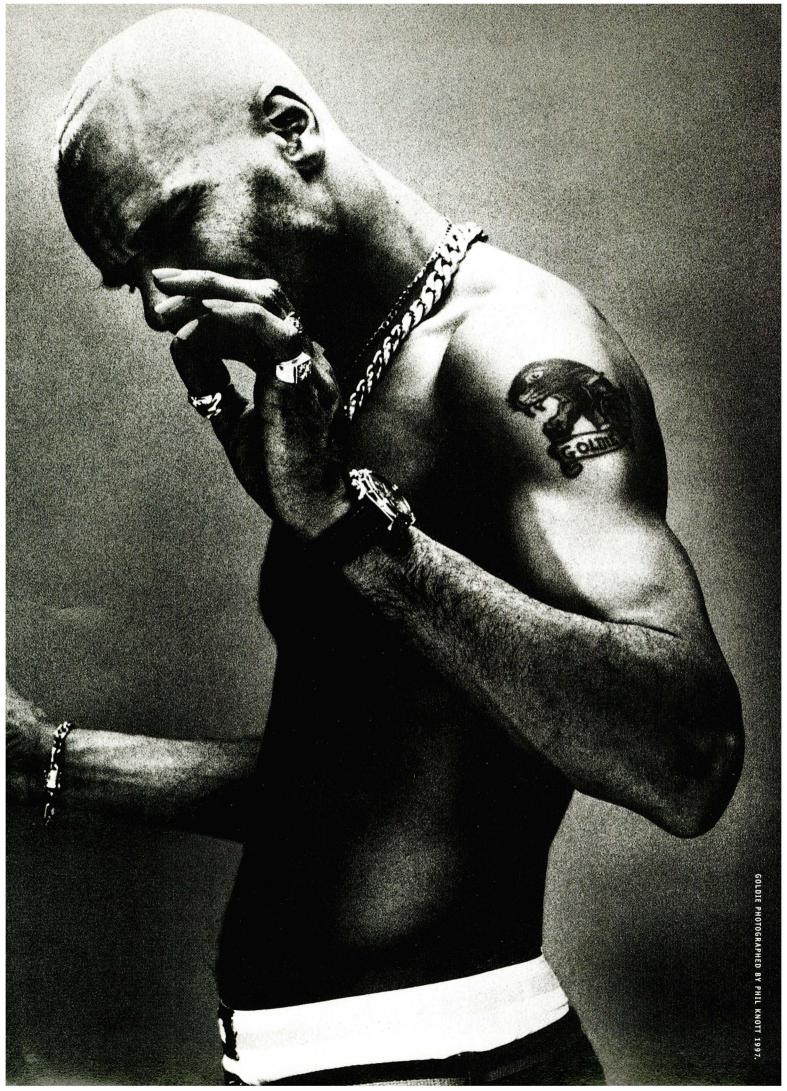
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The Direct approach

As debate rages over DVD Audio, Sony and Philips have upped the stakes with an alternative 'super CD' intended to be compatible with today's CD players. Could this late entrant end up leading the field? **Richard Black** has been calculating the odds.

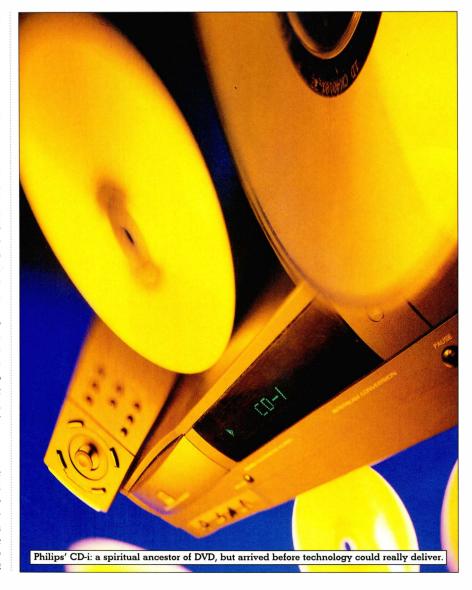
ypical. You wait 15 years for a better digital audio standard, then two come along all at once. Just as everyone was quietly assuming that DVD would go ahead with the mooted high-quality audio format of 96kHz sampling/24-bit word length, Sony and Philips have revealed details of a rival idea, 'Super Audio Compact Disc' (SACD). And on the face of it at least, this one's a stormer.

SACD is based on a Sony invention called 'Direct Stream Digital' (DSD). Proposed six years ago, this system was first announced publicly about two years back when Sony needed to archive a gigantic tape collection newly acquired from the old CBS vaults. (As explained on p23 of *HFC* 155–Ed.) The principle of DSD is simple and elegant, and is related to the fact that most modern analogue-to-digital (ADC) and digital-to-analogue (DAC) converters use the so-called 'Delta-Sigma' technique.

This mathematical shorthand refers to the sampling/encoding process whereby conversion is done at a one-bit level. (For example, in Philips' 'Bitstream' system and derivatives.) Digital signal processing is used to intermediate between this and the 16-bit Pulse Code Modulation (PCM) format, which is a data storage technique used by compact discs to store data.

One for the money

"Well," said the Sony boffins. "If you're converting analogue to one-bit digital, and later one-bit digital to analogue, why go to all the trouble of twiddling bits to get to 16-bit and back again, just for the benefit of a storage medium? Why not, in fact, store the one-bit data?" And that's exactly what DSD does. Using well-established techniques >34



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THE FAT-CAT SAT ON THE FORMAT

The shape of 'super CD' is taking place behind closed doors. But Super Audio CD (SACD), and even DVD-Audio itself, are far from being guaranteed automatic commercial success writes Tim Frost.

The audio format for DVD-Video is now more or less agreed, with both MPEG and Dolby Digital stereo (or multichannel) soundtracks equally allowable on European players and discs. So now it's the turn of DVD-Forum to sort out DVD-Audio.

The Forum, which is the talking shop for companies with an interest in DVD, still has just ten decision making members: Matsushita, Mitsubishi, Pioneer, Toshiba, Hitachi, Sony, Thomson, Time-Warner, Philips and JVC. These are the entities most responsible for DVD's development, and the ones which will decide on the final format for DVD-Audio.

But from the very start the Forum has been split, with Matsushita/Toshiba/Time-Warner on one side, and Philips/Sony on the other. There have been incessant battles between the two camps over every possible aspect of DVD. And it is no different with DVD-Audio: Matsushita/Toshiba/Time-Warner are going in one direction, while Philips/Sony have opted for something completely different.

However, the Sony/Philips contingent has found itself in a position where it can, and will, be outvoted on any suggestion, so the companies involved are simply not even trying to get their Super-Audio-CD/DSD system adopted as the official DVD-Audio standard. Top sources in Sony have confirmed that there are no proposals being presented to the DVD-Audio working groups from Philips/Sony, so Super Audio is simply off the DVD-Audio agenda. That is not to say that DSD is going to go away - quite the opposite. It will continue as a viable alternative, but won't officially carry the DVD logo.

All of the Forum's own proposals for the audio disc are in the melting pot, still under discussion by the Forum's working groups, but some fundamentals are emerging.

Serious audio is to be served by an uncompressed audio track with substantially wider dynamics and bandwidth than CD: 24-bit resolution and sampling frequency around 96kHz. This will be able to carry stereo or multi-channel sound.

Intriguingly, there have been comments from Forum members claiming that "PCM has nothing to do with DVD-Audio", showing a marked preference for single-bit datastreams rather than the pure PCM of CD. for example. A single-bit protocol has the distinct attraction of being much easier to implement successfully in moderate-quality players than expensive, sensitive, 24-bit PCM DACs. But on the other hand. PCM has universality in its favour.

If it comes to a battle between different 'DVD' audio formats, groups representing the recording industry are trying to ensure that all discs carry at least one format in common, so any disc will work on any player. 24-bit PCM stereo is a strong contender for that. One PCM option being actively considered is 'scalable' - meaning that artists can choose from a range of bitrates and sampling frequencies the combination that suits them best. The player would automatically adjust itself on playback.

No matter that audiophiles fret over precise provision for twochannel stereo: there's more to **DVD-Audio**, which will carry a compressed multi-channel audio bit-stream several if there is space.

For DVD-Audio, Dolby Digital, DTS and MPEG are all possibilities. Another portion of data-space is reserved for video, stills, text and/or computer programs; DVD-Audio it might be, but no new disc format can afford to ignore the 'advantages' of multimedia and Web site link-ups.

So while the hardware manufacturers continue to make decisions behind proverbial closed doors, where does the record industry stand on all of this? After an abortive attempt to organise industry-wide listening tests, the American recording industry's representative body, the RIAA, has retreated to the position of ensuring only that DVD-Audio discs will carry enough copy protection and anti-piracy measures to protect it members' assets.

"What audio standards will be applied are up to the record companies themselves," says RIAA Senior Executive VP Cary Sherman, who "hopes" for some form of agreement between the different camps. The RIAA has left the field wide open for a freefor-all on audio standards - as long as all of them incorporate copy-protection measures.

A format war is almost inevitable, but if it occurs, it will exhibit a novel twist: DVD and DSD audio players should be able to extract information from each other's discs, even if not to the level of high-bit, high sampling rates and multi-channel feeds. Artists, record companies, studios and the buying public will decide which format survives.

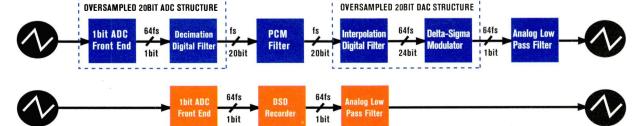
But another real possibility is that DVD-Audio is just one new standard too far. Ponder this scenario: instead of a global jump aboard the DVD-Audio bandwagon, CD survives and DVD-Video becomes the advanced carrier for music. DVD-Video can carry 24bit/96kHz PCM and any of the multichannel

options, it is already an accepted disc standard, and most future video players will be able to extract the 'super-fi' bitstream. The winner of the DVD-Audio battle may find it has gained a Pyrrhic victory.

> Tim Frost edits the newsletter DVD & Future CD.

The ill fated DCC, a ghost of formats past.

Conventional multibit PCM requires decimation filters on the record side plus interpolation filters on the playback side.



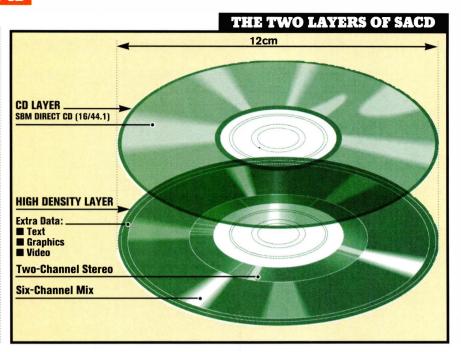
Direct Stream Digital eliminates the filters and records the original 1-bit signal directly.

TECHNOLOGY: THE FUTURE OF CD

the audio signal is oversampled by a factor of 64 with noise shaping (as in the input stage of most ADCs), and the resulting data stream is stored on tape or disc. On replay, the bits are simply fed to a one-bit DAC, as you will find implemented in most recent CD players.

Naturally, this process has pros and cons. The most obvious pro is that less signal processing means less scope for distortion. But there would appear to be a clear con: a 64-times-oversampled, one-bit audio signal occupies fourtimes as many bits as a normal 16-bit signal. In 1983, when CD was launched, this was a major consideration, but in the era of multi-gigabyte optical discs, bits are frankly so cheap that it's no longer a problem to store this quantity of data.

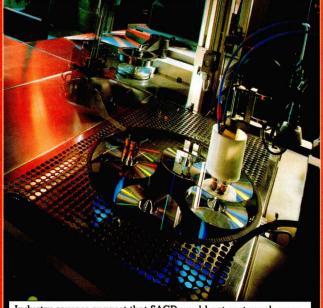
And, indeed, that con is really a hint at the biggest pro of all, which is that four times as many bits means four times as much information. That's four times the bandwidth of CD, potentially, with the same signal-tonoise ratio, or four times the signal-to-noise



THE MUSIC INDUSTRY'S DILEMMA

Recording engineers suddenly have more to worry about than whether or not to use soft-knee compression writes Stan Vincent. When capturing the warblings of the latest hot stars and starlets, they have to produce a master-tape for the 44.1kHz/16-bit CD we know and love, while at the same time preparing for future re-releases made on a 'super' CD format, such as DVD-Audio, or SACD as outlined elsewhere in this feature.

At present, many recordings are being mastered at 24-bit/96kHz resolution, which are then 'decimated' to 44.1kHz/16-bit using digital interpolation techniques, a process known as 'downconverting'. This has led to some disingenuous packaging of CDs, such as the recently-reissued series of Jean-Michel Jarre albums on Sony Music. These are decorated with 24-bit/96kHz references, which might well lead the uninitiated to assume that the existing CD format had somehow taken a leap in quality. Of course not. Sony's engineers may well have dug out the master-tapes, and loaded them into a 24-bit/96kHz Sonic Solutions workstation; but the CD is still ultimately only of 16-bit/44.1kHz quality.



Industry sources suggest that SACD would not cost much more than CD to manufacture. 75p is the premium being touted.



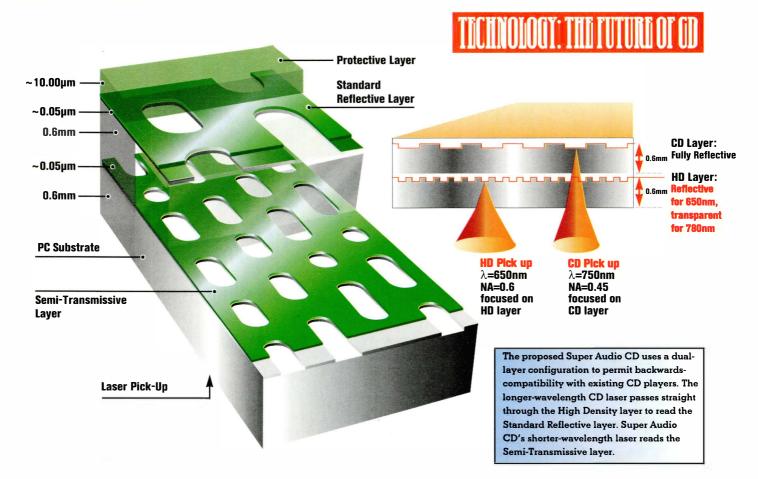
Pacific Microsonics, the US-based company that invented the High Definition Compatible Digital (HDCD) system to 'enhance' standard 16-bit CDs, is eager to jump on the super-CD bandwagon. As reported in last month's *Update*, the company has recently announced an HDCD recording processor offering mastering at 88.2kHz — ie, twice the sampling frequency of CD. Pacific Microsonics claims the interpolation process required to decimate 96/24 recordings into the 44.1/16 format, generates "audible distortions that can only be reduced, but not eliminated, by elaborate DSP". It alleges 88.2kHz HDCD recordings "can be converted to 96kHz with fidelity that remains superior to any other 96kHz recordings."

DSD appears to circumvent these problems by reason of its onebit nature, and the fact that its sampling frequency is 2.8224MHz — exactly 64 times that of CD. Sony claims that the downconversion process can generate masters with any combination of sampling frequency and word-length, but without the degradation one would experience when moving from a 24-bit/96kHz master.

On paper at least, DSD appears to be the best each-way bet for recording practitioners, whether for capturing new music or remastering the old. Apparently the only fly in the ointment is a greater susceptibility to clock jitter; but one would assume this is a straightforward engineering challenge. As a consequence, it's no surprise that the recording industry seems very interested in DSD.

Numerous Audio Engineering Society (AES) preprints have hinted at the whole-scale design of the new components necessary to equip a multi-track DSD studio. Sonic Solutions has already announced a DSD editing system based on an existing digital editing workstation. Interesting times indeed for twiddlers of multitrack faders...

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ratio (SNR) with the same bandwidth — or any permutation of the same in different proportions.

What DSD offers, according to the Technical Proposal for SACD published jointly by Sony and Philips, is an SNR of 120dB across the audio band (20Hz to 20kHz), and bandwidth extending to 100kHz, albeit with decreasing SNR. In a remarkable climbdown from earlier crowing about 'perfect sound forever', the proposal talks about matching and exceeding the performance of the best analogue tape recorders and concedes that CD as it stands does not in fact meet the highest aural requirements.

By contrast DSD, with its 2.8224MHz sampling rate, gives better bandwidth and SNR than any analogue recorder, and 'analogue-like' gentle roll-off instead of the brickwall filters that chop off CD player output signals above the audio band.

Entente cordiale

Now comes the clincher. Not only does SACD offer a substantially higher quality of sound reproduction — it bundles in full, both-ways compatibility with normal CD too. The idea is that discs are made as a duallayer affair, with one layer carrying normal CD audio, the other DSD. In this way, discs will be compatible with existing CD players, and new SACD players will still be able to read existing CDs. Hey presto: no dualinventory problems for retailers during the changeover period.

Sony has even been muttering about offering SACD for the same price as existing CD. Experience suggests we should perhaps take that with a dose of salt, but the economics of recording production bear close scrutiny

on this count. Even doubling manufacturing costs of the disc needn't have a vast effect on retail prices: maybe less than 75p per disc.

At the recording stage, a DSD master can be turned into CD-format audio with minimal effort — the same process occurs already in conventional ADCs. Sony has already announced 'Super Bit Mapping Direct', which executes the conversion process to higher standards than existing ADCs. And the solitary SBMD CD currently available (see the

box below) is very promising.

These are early days, but the few recording engineers who have heard DSD are pretty impressed. To me, it makes sense: it's compatible in every sense with existing standards (which can't be said for 96kHz/24bit), and offers a major step forward. As a commercial entity it's undoubtedly a little way off, but if all of us stand up and clamour for it, maybe the powers that be will hurry things along. I'm clamouring already!

'THE WORLD'S FIRST COMMERCIAL DSD RECORDING'

Jazz fans will know of the US record label recording, as transferred onto CD, seems Digital Music Products (DMP). And article immediately screechy by comparison. But CD-521 of its catalogue — Alto, by guitarist listen closer and you can hear all the sub-Joe Beck and jazz-flautist Ali Ryerson — is tleties of instrumental articulation. 40 years claimed to be the first CD created from a of progress have not revolutionised record-Direct Stream Digital master. ing; merely refined it. In musical terms, it's the kind of easylistenin' fare that would bring a smile to the face of BECK Louis Balfour, who

RYERSON

of BBC2's Fast Show. Undeniable artistry, then, but unlikely to upset your dinner guests. The recording, however, is notably smooth and detailed. The sound is every little bit as mellow as the music.

hosts Jazz Club in the

now infamous sketch

Just by way of comparison, we played Somethin' Else, by the Julian 'Cannonball' Adderley quintet. The 1958 Blue Note

Of course, this CD does not demonstrate the true potential of DSD. It is only a downconverted representation of the mastering process, effected for CD using Sony's Super Bit **Mapping Direct** process. Nonetheless, as the first purchasable artefact associated with DSD, it may

go on to become an audiophile collector's item!

Wollaton Audio 2 (0115) 928 4147

On the Web, www.dmprecords.com

HI-FI CHOICE FEBRUARY 1998 **35**

Radio's days are numbered...

Or at least they will be this Spring! A bright new digital future awaits good ol' analogue radio, as **Kevin Hilton** reports.

hanging names is in vogue these days. Look at Nigel Kennedy, who has gone the other way to Inspector Morse and become just 'Kennedy'. The same thing has happened to digital audio broadcasting, or DAB to its closer friends. Henceforth, it'll be known as Digital Radio.

Promoters of the new technology have effected this change to separate the technology from the actual service it provides for the listeners. Stephen Mulholland, Editor, BBC Digital Radio, says: "By calling the format Digital Radio, we think that people will be able to get a better handle on what it can do for them. Anyway, 'digital' is no longer a scary thing in the public psyche."

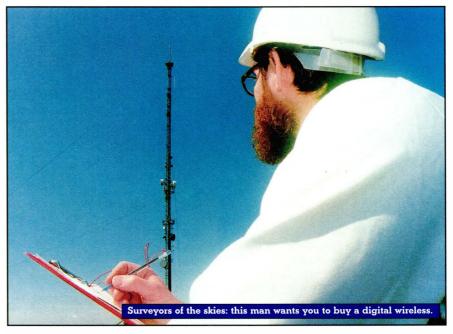
This 'brand repositioning', as the marketeers might describe it, has occurred because the end is so near for the big build-up to Digital Radio. But the process began in 1987, when European broadcasters (including the BBC), and manufacturers, began collaborating on the Eureka 147 project. The aim was to create radio for the 21st Century.

The benefits of digital

Digitisation of radio, as with digital television, allows multiple channels to be carried as a group, or multiplex, on a single frequency. The greater capacity not only enables existing stations to be carried as a bouquet, but introduces scope for the provision of additional services.

Services will not be restricted to those we have come to expect of conventional radio stations. Instead, digital content will include a dedicated Parliamentary channel and additional sports coverage, plus the potential for





associated text, data, still pictures and even near-audio-on-demand.

Eureka 147's intention was to offer all of this with near-CD audio quality, plus the added bonus of easier tuning and distortion-free reception. There is also the potential to liberate space in today's crowded analogue frequency bands, in particular jam-packed FM. However, analogue transmissions will continue to co-exist or simulcast with Digital Radio, for at least the next ten years.

The first you've heard of it

As research work progressed, occasional demonstrations were given to the industry and press. These usually involved driving around a city in a specially-equipped bus; initially, the in-car market was identified as the one with most to gain from a digital radio system. Anyone who's endured wavering reception during a long-haul drive, or has had to re-tune endlessly for the best signal, will need no persuading of the digital advantage.

Eureka 147 was subsequently adopted as a world-wide standard, although the US does not appear to be following Europe and may opt for a rival format, IBOC. With Europe committed to Eureka 147, the BBC decided to push ahead to be among the first broadcasters to create a Digital Radio network.

Go-ahead for this was given in mid-1994, with a pilot scheme launched on 27th September 1995. Coverage was limited to 20 per cent of the UK population, with plans to reach 60 per cent by March 1998. This service is still running, with Radios 1, 2, 3 and 4 carried in full stereo, and Radio 5 Live in mono. Additional services have included BBC Parliament and BBC 5 Live Sports Plus.

All your favourite stations

Unsurprisingly, the commercial radio sector doesn't want to get left behind in the dash for digital. The Radio Authority (RA), which licences and regulates independent radio, has kept up with developments, and on 25th November 1997 published both its plans for licensing digital services, and a time-table of when everything is likely to happen.

The RA will advertise the licence for a single national commercial multiplex sometime around March 1998, guaranteeing space for the three current independent country-wide stations — Classic FM, Virgin Radio and

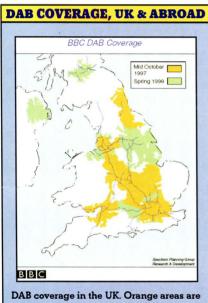
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Talk Radio — if they show that this is what they want. The Authority says that another five or six services could be sustained on this carrier. Local multiplex licences will be advertised once the mix of programming on the national multiplex has been determined. Present estimates indicate Autumn 1998 as the time this will happen.

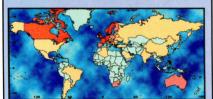
Like the BBC, the RA is running a pilot scheme in the London area, with technology provided by NTL, the company supplying transmission infrastructure for the majority of commercial radio. This service started in March 1996 and currently offers the three national stations plus Melody, Sunrise, Kiss, WRN and Capital.

When will it all begin?

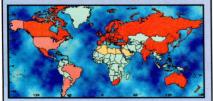
Despite this great sense of progress, Digital Radio is still caught in the chicken-and-egg situation that ensnared it in 1995. Now as then, this is due largely to the lack of domestic receivers available. There were promises of a breakthrough at the IFA consumer elec-



receiving test transmissions



The status of DAB worldwide in 1997. Red areas have pre-operational (pilot) services while orange areas have advanced interest.



DAB worldwide forecast for the year 2000. The deep red areas are expected to use the Eureka 147 broadcast format.

tronics fair in Berlin last August (see report, HFC 171). While 17 manufacturers showed product in four distinct areas (in-car, hi-fi tuners, mini systems and PC cards), High Street retailers have yet to be swamped by suitably-equipped products.

Trade groups variously representing specialist hi-fi dealers, retailers and manufacturers say that their members are aware of Digital Radio, but that there is still a strong element of 'wait and see' in the current consumer response. Many companies are still at the semi-prototype stage with equipment.

The BBC's Stephen Mulholland says that the first phase of Digital Radio, the launch of the technology, has been successfully completed. Now the emphasis is on "selling it to the public", which will initially concentrate on building a general awareness of digital, and then beginning to differentiate between the technologies for television and radio. "We've put together a retail database as well," comments Mulholland, "so that when product arrives, the retailers will be ready."

Mulholland says that research shows public awareness of Digital Radio is 40 per cent, while that of the retail sector is 95 per cent. He describes Digital Radio as "re-defining radio, making it a more compelling proposition for the multi-channel future,' but warns that people "tamper with the art of making radio programmes at their peril."

While agreeing that, for many, the basic way of listening to the wireless will not change, Mulholland observes: "It's a question of scalability. In the future, there will be small screens on in-car sets, and the Sharp midi-system [due to be launched towards the end of 1998] will have a screen, and will deliver text, audio and still images that change once every ten seconds. The pinnacle of this development will be a Digital Radio card in a PC or personal organiser, to give the full multi-media effect."

Received wisdom

The services are here now, and are being developed for the future. The crucial commercial trigger for Digital Radio will the spread of receivers. In-car units are due to appear during early 1998, but there is no doubt they will be expensive. And while observers feel that the in-car market is important, the real benefit of this technology will be felt not in the high or medium end of hifi, where those with good FM tuners and permanent aerials may react like vinyl buffs confronted with CD. Instead, the real clincher will be Digital Radio's penetration into the home portable market.

At the moment, Digital Radio chip-sets are too expensive to be considered for the kitchen-windowsill tranny. But thanks to a pro-active BBC initiative, Digital Radio is undoubtedly poised to offer real benefits for radio listeners when it launches formally this Spring. Those selfsame listeners have the power to decide whether or not it becomes established. The waiting continues...

WHICH RADIOS ARE READY?

Digital radio equipment shown at Berlin's IFA show last August, and due for future release

PRODUCT TYPE

MANUFACTURER

Alpine In-car
Bang & Olufsen Home mini system
Becker In-car
Bosch/Blaupunkt In-car (two models)
Clarion In-car
Delco In-car
Grundig In-car/Hi-fi tuner
Fujitsu TenIn-car
JVCIn-car
Kenwood In-car/Hi-fi tuner
Panasonic (Technics)
In-car/Hi-fi tuner/PC card
Philips In-car
PioneerIn-car
Sharp Home midi system
Sony In-car/Hi-fi tuner
TechnoTrend PC card

In-car DAB hardware planned for launch this spring. From top: Pioneer, Grundig, JVC









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Alan Sircom and Jason Kennedy are here with the answers.

Every letter published wins a TDK SA 90 tape worth approx. £2.39! Ten tapes for our Query of the Month!



Query of the month Brought to you in association with TDK

Upwards, backwards, sideways, down

Like so many other readers, I am looking to upgrade my system, which currently comprises a Marantz CD-63SE, PM-66SE and Mission 733s. During a recent speaker test for a friend I was surprised to hear that the Heybrook Optimas sounded better than my Missions, but the thought of purchasing these seems like a sideways or backwards step.

My local dealer suggested I might try changing the amp first, to something like a Cyrus SL, Arcam Alpha 9 or the new affordable Audiolab 8000LX. He claimed that it might tighten the pace and offer more control. I'm suffering with boomy bass at the moment, but that may be a characteristic of my room, which is sparsely furnished.

I enjoy a clean, clear, almost bright sound, and often listen to vocal-oriented music by artists such as Tori Amos, k d lang and The Beautiful South. Would minor (cheap) soundproofing offer a significant advantage? Speakers, or amp? I'm confused. D George, Kent

We're a little confused, too, as to your requirements. On the one hand you claim to prefer 'an almost bright' sound, but on the other you suggest installing soundproofing, which if anything will have the effect of dulling the sound.

If you want a general increase in resolution you should either replace fundamental

components within the system, or investig

cables and supports. The problem with

changing components is that the system as it stands is well

balanced, so there is a danger that changing anything but the source wouldn't necessarily take you in the right direction. And a better source may not be able to shine through the existing kit. Having said that, changing amps is where we'd

Townshend Seismic Sink

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start — but can you cope with the idea of improving the rest of the system later?

To refine what you have, look for decent cable and stands. Marantz seems to like Audioquest interconnect and Kimber speaker cable, while a Townshend Audio Seismic Sink under both amp and CDP will tidy up the sound and add weight. You'll be well served by these ancillaries if you decide to upgrade!

Every issue, we're giving 10 of TDK's awardwinning SA 90 tapes to the writer of the month's best query. When reviewed in Hi-Fi Choice, TDK's SA tape revealed the heart and soul of music with a graceful and transparent sound. We awarded Five Stars for Sound Quality and our coveted Recommended flag!

Raging slabs

My current system comprises Technics SU-A600mk2 amplifier connected by Gale 189 cable to Mission 733is, each one supported on two concrete paving slabs sandwiched with polystyrene ceiling tiles. I have a Denon DCD-425 CD player and a Sony MDS-510 MD player. Everything is connected up with Cable Talk and Pacific interconnects. I listen to a variety of music from Sheryl Crow to The Prodigy.

I would be very grateful if you could advise me on upgrading first my amplifier and subsequently my CD player (which should incorporate a digital output for MD). I have a budget of £600. Paul Darke, Plymouth

Assuming that your budget is for both pieces, we'd listen to some or all of the following: Arcam's Alpha 7 CD player and amp, the Denon DCD-1015 CDP and Audio Innovations' underrated Alto amplifier, or the following harman/kardon combination: HD730 CDP and HK620 amp. Some pairings may be easier to audition than others, given the vagaries of distribution, but if you ask nicely you might be able to borrow samples for a weekend.

Interesting speaker support arrangement. Do you have spikes



under the speakers? You might try Blu-Tacking the speakers directly to the concrete slabs. It's an unconventional approach but it might give better results.

Black, black, black!

I own a full-size Pioneer stacking system which has served me well — I am very happy with it. The system consists of a TX-720L tuner, CT-400 tape deck, SG-300 equaliser, PL-8 turntable and an SA-510 amp driving Mission 731 speakers. All of the electronic components are finished in silver. My problem is that I wish to purchase a CD player finished in silver to add to my system. I can't seem to find one — everything seems to have a black finish. Can you suggest any sources to try? My budget is around £250.

D G Jackson, Hopeman, Moray

We don't think any of our Recommended budget CD players is available in a silver finish, but you might find a solution to your problems in Denon's DF-10. This is a rather attractive minisize unit with a brushed-metal facia that costs £250 — conveniently enough. The only catch is that it's not remote

controllable without a matching amp. Which would be a nice upgrade option!

Denon DF-10

Compact and silvery.



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Joy seeking

My present system includes Naim NAP 90/NAC 92 (1994) amplification, a Mission DAD5 CD with DAC5, and NAD 802 speakers on Epos stands. I tried the Roksan Caspian and the Naim 3.5 with the above system as possibilities for an upgrade

I thoroughly enjoyed both CD players for different aspects of their sonic capabilities. However, it is deeply frustrating having to trade off their fundamentally different attributes when choosing one above the other.

In short, the Roksan brought weight and smoothness, while the Naim delivered revealing, rhythmic sound which didn't trip up over more complex recordings. I listen to all types of music, from Deep Purple to Wagner. Can you recommend any other CD players which, if possible, have the attributes of both abovementioned CDPs, and would bring joy to my weekends?

It sounds as if you want a little more than a £1,000 CD player can be expected to deliver, but we are in the process of reviewing a dozen machines priced between £450 and £1,300 (for the March 1998 issue). It's possible that we'll discover therein something which will fit your bill.

In the meantime we can't help but feel that your joy factor

may be inhibited by your speakers. Have you tried listening to alternative enclosures? Depending on your taste and budget, you might enjoy the speakers that go with your easier to choose a CD



A decent and legal means of ensuring joy-filled weekends.



Balancing act

My system is a Nakamichi DR3 tape deck, Marantz PM-44SE amp, B&W 601 speakers on sand-filled Atacama SE24 stands, Cable Talk Monitor 2 interconnects and Cable Talk 4.1 bi-wire speaker cable.

It sounds great but I would really love a top-quality amp like the Naim Nait, Roksan Caspian or Sonneteer Campion. Or should I buy the cheaper Marantz PM-66 KI-Sig instead?

I intend to buy either a Technics SL-PG580A, Marantz CD-48 or Sony CDP-XE510 CD player. J Bedford, Leeds, W Yorkshire

We think you should invest in a better CD player before going for a serious amp. The amps and CDPs you mention are fundamentally out of balance — like putting a V6 into a Metro!

So audition both source and amp simultaneously, and pick a combination which works. Then buy the CD player and save up for the amp. If you've got a grand to blow overall, then try to hear the Pioneer Precision combo which is up for grabs in one of our competitions this month (p17). Alternatively, listen to Marantz KI Signature, Arcam Alpha 8 and Musical Fidelity A2 combinations.

Can control

I have fallen in love with the quality of sound available from a good CD player and a decent pair of headphones; now I want to permutate a CD/can combination of my own. Given headphones' varying tonal characteristics, must one be as careful matching them to a CD player as when assembling a full system?

Can you recommend a suitable CD player and headphone combination for



Premium intimate listening ahoy!

around £500, that will give a warm but detailed sound, with good bass extension? At this price level, would it be worth investing in a headphone amplifier at a later date? Brett Bylett, Crawley, Sussex

Good question. We cannot claim to have investigated this topic extensively, but would suggest you start by choosing a headphone. Try to hear Jecklin Floats, Sennheiser HD545s, Philips SBC 3396s and Beyer DT531s. That done, find which CD player works best with your favoured cans. Obvious choices include Pioneer's PD-S505 Precision, Marantz CD-63mkII KI-Sig (you have to adjust volume with the remote), harman/kardon HD730 or Yamaha CDX-890.

You should audition both combinations before purchase; any will be enhanced by the addition of a headphone amp from the likes of Creek, Musical Fidelity or Amity. See HFC 172 for info.

Turntable tips

Our current system comprises Project 1.2 turntable with Ortofon 510 cartridge, Marantz CD63mkII KI-Sig CDP, Audiolab 8000S amp, Rotel RQ970 phono preamp, Mission 752 Freedom speakers, Audioquest Indigo II speaker cable and Audioquest Quartz interconnects. All stand on Mission Isoplats or a Stands Unique Sound Tower with Isolation platform. As newcomers to the world of turntables and with a restricted budget, we would welcome your views on the relative merits of upgrading the turntable to either the Pink Triangle Tarantella or the Michell Syncro.

Both are around £500, not including arm or cartridge, and both have been recommended as good choices by my local dealer. We have shortlisted the Goldring 1042, Ortofon MC Super II cartridges and Rega RB250/RB300 arms.

Our dealer has neither of the turntables in stock, and while he awaits review samples we were hoping for your



Great value for money at £500.

views on our candidates' build quality, sonic ability on the basis of same arm and cartridge, compatibility with the other components, and our choice of cartridge/arm. Andy & Helen Hague

Not having a good working knowledge of the new Pink Triangle Tarantella, we can't really advise you how it compares with the Syncro. However, the Michell is a great turntable for the money, and has a proven track record with regard to reliability and compatibility with the Rega arm. So unless the spider-like PT beats the Syncro hands-down on sound quality, Michell's option would get our vote. Try to track down a Grado or Denon cartridge — you'll find them a little smoother than the options you list.



*

Afloat in the Caspian

What would be the best CD player to partner my Roksan Caspian amp? I have listened to a Cyrus dAD3Q and a Marantz CD-17KI, and was not impressed with either, even though the dAD3Q was the better of the two.

I have a pair of Ruark Prologue One speakers on home demo, and I wonder whether I need to change the speakers as well. I am using bi-wired Ortofon SPK300 speaker cable. I have vdH The First interconnect.

Simon Lyons, Washington, Tyne and Wear



Roksan Ojan 3

This seems a vague

An ideal partner for the Caspian amp.

approach to system building. Could your dealer not offer you a complete set-up to your liking? We must assume not, so let's make the best of your decent amplifier. Take this to a few dealers and see what they can build around it.

We have yet to test the Ruark Prologue Ones, so can't say whether they are a good match for the Caspian. What is likely to work, however, is one of the Roksan speakers: either the Ojan 3 or the OJ3X which costs a bit more. You could even combine them with the Caspian CD player for a complete Roksan system — we'd imagine that might work very well.

At the crossroads

My system is currently a Linn Sondek LP12/Lingo turntable with Ekos arm and Denon DL304 cartridge. This is connected to a Naim NAC72/Hi-Cap/NAP180 power amp and Linn Kan speakers (1983 vintage).

I am trying to decide on an upgrade. The weak point appears to be the Kans, which cannot be bi-wired. Also, the bass drivers were replaced recently, and they haven't sounded the same since. Should I replace these with Naim SBLs? What are other alternatives? I'd probably bi-amp with another NAP180 in a few years.

Would I gain more from SBLs or would a greater increase in quality be obtained from upgrading the LP12 to the Linto/Arkiv?

I could also leave the system as it is and add a CD player — what do you recommend? My budget is £1,500 - £2,000. David Barron, North Yorkshire

The Arkiv is an excellent cartridge, and will make beautiful music with your current system if the Kans are placed upon Kan II stands. The bass problem you currently suffer is either due to poor sealing by the repair man, or the drivers have yet to run in.

You may not need to go for the Linto with the phono stage, as Naim's own are superb if you use the right board for the Arkiv.

Ultimately, though, the Linto will improve matters further.

The Naim SBLs are the obvious choice, but eventually you may need to upgrade to a NAP 250 or 135s to get the best out of them.

As you have no CD player as yet, upgrade the rest of the system first, especially as the original Kans are not the most CD-friendly speakers around. When the time comes to bite the CD bullet, go for an Exposure, Marantz, Helios, Naim or Roksan player costing at least a grand or more.

Kan you afford not to put them on your upgrade list?



My system comprises a Micromega Solo Classic, Audion Silver Night integrated (2x7W silver wired), Audio Note AN/E-SP speakers, Audio Note AN/V interconnects and Nordost Blue Heaven speaker cable.

I'm planning to change my Audion for an EAR 859. Is this a good upgrade? What do you think about these amps? What other valve amps do you recommend?

'Ramon', via our Web site

Yes, this is a good upgrade, but the sound of the two products is radically different. As it stands, your system is ideally matched. The push-pull circuit of the EAR is more powerful, but it will not sound as sweet as a single-ended model like the Silver Night.

In short, we'd class this move as more of a side-grade than an upgrade. Unless you are looking for more grunt we think that you'd be better off going for an Audion or Audio Note pre/power amp in your system.

Phase linear club

I'd like to say that I totally agree with *Hi-Fi Choice* on the Pioneer Precision series, and now I am a big fan of the Tom Evans 'phase linear' club, even though I don't own any Pioneer or Acoustic Precision products! I was caught in sheer joy when I first listened to the Precision series at the Ramada hi-fi show last September. It is nothing less than pure high-fidelity.

Anyway, since I now have a Marantz CD-67, Audiolab 8000A and a pair of KEF Q35s, what should I do? I might swap for the Pioneers but I can't afford the Acoustic Precision speakers.

'Yellowjackets', via our Web site

If you are convinced by the Pione
the CD and amplifier by trading

If you are convinced by the Pioneer Precision, opt for the CD and amplifier by trading in your existing system and add a pair of Musical Technology Kestrel SE speakers. Use lengths of Monolith 20/20 speaker cable and AP Eikos interconnects.

Ultimately, the Kestrel SEs are no match for the clarity of the Eikos FR1s, but they will work well.
Alternatively, keep the KEFs for the meantime and save, save, save for the real three-D thing. Oh, and enter this month's competition (p21). You might just win the whole system!

Musical Technology Kestrel SE

No match for the AP Eikos FR1, but the next best thing.

Cosy listenin'

I fancy getting a hi-fi system between £2,500 and £3,000. I like to listen to soul and R&B music. I'm thinking of getting an Audiolab 8000 CD player, Musical Fidelity X-PRE, a pair of Musical Fidelity X-A50 monobloks and a pair of Jamo Concert 8 speakers. Another system which I've considered is the Roksan Caspian CD player and amplifier with a pair of Jamo Concert 8 or KEF RDM Two speakers. 'Entau', via our Web site



The MF pre/power is a lovely warm-sounding combo that will balance well with the dryness of the Audiolab. The Jamo Concert 8 would be an excellent — and much understated — match.

The Roksan Caspian combination is a real clean and crisp star, but we'd not recommend using the RDM Two with it. Try the aforementioned B&Ws, along with Roksan's own Ojan, Linn's Keilidh or Castle's Harlech speakers.

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Bitter pills to swallow

I'd welcome any ideas that might help improve my system. It comprises a Marantz CD-63mkII KI-Sig CD player, Arcam Alpha 9 amplifier and Mordaunt-Short MS25i speakers, with Cable Talk 3 bi-wire speaker cables and DIY interconnect.

I am thinking of upgrading the speakers to ProAc Tablette 50s in order to get better midrange. I prefer female vocals and played at medium levels.

Altan Cin, via the Internet

The amp and CD are not up to the job of driving Tablette 50s. They won't damage the speaker, or become damaged themselves, but their inadequacies will bring on upgrade fever sooner rather than later. You should either upgrade the CD and amplifier, or tone down your speaker selection.

If you decide to do the former, try a Marantz CD-17 KI Signature, Meracus Tanto or AVI S2000MC Ref with an ECA Vista/Lectern pre/power at the



Hunting for an imaginary hi-fi system

My friend is awaiting the moment he can be reunited with his hi-fi when he moves. His system is transducer-less at the moment, as he has sold his Chario Syntar IIs. He doesn't know where he'll be living, but is sure he wants a pair of floorstanders on the end of: Pioneer PDS-703/Trichord Clock 2/Audio Alchemy DDEv1.1 CD player, Systemdek IIX900 (re-built)/Roksan Tabriz/Sumiko Blue Point record player, Audiolab 8000C/P amplification.

He's heard (and liked) the Castle Harlechs, but I'd have thought we're talking about a VERY big room to get the best out of those. Any ideas? I'd just like to know what would bring out the best in his C/P combination. (I say ProAc Tablettes but he doesn't seem to think small is beautiful...). He's into vaguely left-field rock/pop/dance and, curiously, choral works (Schnittke's a favourite). *Mike Jones, via the internet*

Don't worry about room size: the Castles work in some surprisingly small spaces, and do favour the sound of Audiolab. Best check them out in the room if there is a problem, but if they sound bass heavy, then so will almost every other floorstander on the market, except possibly the Musical Technology range.

What shows off Audiolab to its best? Now there's a loaded question. Audiolab claims absolute neutrality that will give the best to any transducer, but the sound is rather antiseptic if not partnered correctly. Even-tempered speakers, such as Dynaudio, KEF and Audiovector designs, are the order of the day, along with oldschool BBC designs.

Dynaudio Audience 50

Even-tempered partner for Audiolab.



Miles of aisles

I am planning to upgrade the whole of my current system. The items I have in mind, that I have liked individually, are the Theta Miles CDP and Martin-Logan SL3 speakers. Which amp? I know the M-Ls are rather difficult to drive.

Marva Salkit, via the Internet

You are on to a good bet with the Theta Miles and the Martin-Logan SL3. Partnering amps we favour include the Audio Research LS9/VT60SE valve combination, although the speakers could do with a solid-state amplifier combo, like the Classé CP50/CA150 or the new Krell 300.



Making allowances

Please advise me on how to get tighter bass from my set up. The system comprises Technics 770 CD, Technics SU-C/SE-A1000mk2 pre/power amps, Sony MDS-510 MiniDisc and B&W DM603 speakers with Audioquest Indigo/Topaz cables.

I want a deeper and tighter bass, and wonder if I should invest in another power amp and bi-amp the system. Or maybe I should buy a subwoofer.

My living room is 28 metres square, and the speakers are positioned as far into the room as I am allowed, and 0.5m from side walls. New speakers are out of the question for now, but maybe in a year I will be able to get some. 'Runer', via our Web site

I don't think that another Technics power amp will make things tighter. The amp is smooth and light, but is not capable of delivering a deeper and tighter bass. Also, the floorstanding 603s can tend to wallow a bit if the amp isn't controlling them with a vice-like grip, and this is something that the Technics can't do well. The CD player is seriously smooth and beautifully built, but not the world's best at digging up deep bass. Lastly, the AQ cables are tonally neutral but tend to sound slightly soft at the bottom end.

We would expect this system to have an excellent midband and a nice, smooth treble, but to be wallowing big-time in the bass. You could add a subwoofer like the REL Q-100E, but we don't think this will solve all of your problems.

There are two courses of action you could take. The first would to invest in a complete collection of Mana equipment isolation tables including a multi-tier equipment rack and speaker platforms; then buy some kickin' cable like Monolith 20:20 and some tight interconnect like DNM or Tara Labs.

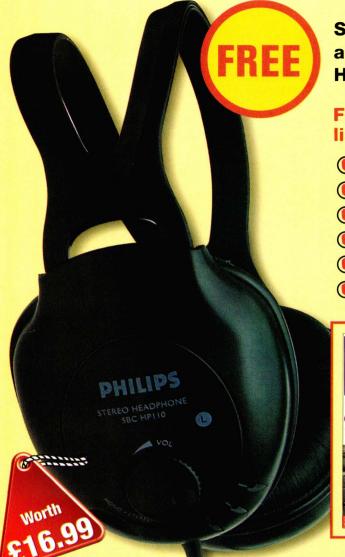
Alternatively trade in the whole system for something with a bit of bite, such as the Rega Planet or Arcam Alpha 8 CD player hooked up to a Naim Nait 3R integrated amplifier using Chord Chameleon interconnects, and thence to a pair of Acoustic Energy 109 speakers with Naim NAC A5 speaker cable.

Changing the entire system may seem like a harsh measure and not one to be taken lightly. But it could pay dividends.

Spend a few afternoons sitting in dealers' listening rooms!

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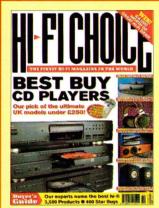
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Mulled hi-fi

Recently I bought a pair of Totem One speakers and a Rega Planet CD player, but I'm not certain about the best pre/power combination to work with them. I like warm and sweet sounds. Could anyone offer some helpful suggestions? Juan Arismar, Brazil.

You could try Exposure's XVII/XVIII, but like Naim pairings this may not be sweet enough for you. Alternatively, Rega's Hal/Exon combo is a bit bold, but a nice match for the CD, and always sounds in command of all it plays. Finally, if you have the cash, the conrad-johnson PV10AL/MV55 offers the warm and sweet qualities you seek. You should check out these suggestions along with a few other North American models from brands like Sumo, Sonic Frontiers and Audio Research.

Rehydrating a dried-out sound

Which should I upgrade first — CD or amp? My system is an Aura CD 100 CD player, Aura Evolution 100 amp and Monitor Audio 700 PMC speakers. I think the sound from the speakers could be improved.

The problem is that the system sounds too dry. It's more 'studio' than 'live' sound. If necessary, I will upgrade amp or CD because I think I need a warmer sound, so I can listen to music for longer. I listen to jazz, R&B, funk and classical. 'JRW of Brasil', via our Web site

Both the amp and the speakers are bright and will certainly not sound warm. However, I'd say swapping the MA speakers for a pair of Castle Harlechs or Celestion A1s would help greatly, as both of the latter are warm-sounding speakers Also try Audioquest the sting out of almost any system.



Warm-sounding, to moisten up a Brazilian system.

HINTS AND TI

Kimber kables kill

kakky kurrent!

14444444444444₄₄

CABLES CAN HELP TO CONTROL RADIO FREQUENCY INTERFERENCE... JIMMY HUGHES EXPLAINS HOW!

ost serious hi-fi enthusiasts know that RFI (radio frequency interference) can adversely affect the quality of sound perceived from their hi-fi system. At its most extreme RFI can cause audible interference: either as noise (usually a high-pitched warble or whistle), or the sound of a broadcast. However, even when there's no direct evidence of such interference, it's still possible for RFI to impair your hi-fi.

RFI is omnipresent, and attacks equipment and interconnects at every opportunity. Partly this explains why numerous plug and socket-breaks (in both mains and inter-connect cables) have such an adverse audible effect. They act as an entry point for RFI. So, how do you deal with the problem? Well, one answer appears to be investing in Kimber mains cables. mercurence correct correct control of the control o

Importer Russ Andrews offers a range of cables and mains distribution boards to suit most kinds of equipment.

Kimber's special plaited construction claims to help cancel out RFI, giving a smoother, cleaner sound. I tried a six-way mains distribution board and was very impressed with the improvement. At £199 it seems expensive, but it made a clear difference to the sound, which became smoother and slightly more relaxed, yet at the same time better separated and more detailed. There was a reduction in 'hash' so that individual voices and instruments emerged with greater separation and individuality.

Superficially, the treble appeared smoother and less sharp, almost as though the top frequencies had been rolled off slightly. But on close listening you'd surely agree this wasn't the case — the treble is just as tactile and articulate; it's just that a halo of background grunge has been reduced. This has the effect of making the music sound more holographic and dynamic. Yet at the same time the tonal balance is actually sweeter, more natural, and less aggressively 'hi-fi'.

This eliminates some of the false brilliance one hears with many systems, and results in a truer, more natural sound. However, if you happen to like this added brilliance, the sound may seem lacking afterwards. Listening to the Kimber distribution board with a friend, he slightly preferred the extra bite and energy of my usual mains board. However, I definitely preferred the Kimber, specifically because it seemed to reveal an extra individuality and dimension to so many tracks.

Essentially, having the Kimber mains distribution board in the system revealed important musical detail that was otherwise obscured. The sound was more obviously stereophonic,

> and contrasts between loud and soft, high and low, were increased. To make an analogy, excessive RFI is a bit like having too much salt on your food; you no longer taste individual flavours, only salty versions of them. In much the same way, RFI robs the sound of fine

detail and subtleties. Superficially, there may be some lack of 'flavour' when RFI is reduced, but if your system's any good there should be an increase in delicacy, and fine tonal colours.

Russ Andrews offers a wide range of Kimber mains cables, ranging in price from about £20 to £60. To find out more contact Russ Andrews Accessories Ltd, Edge Bank House, Kendal, Cumbria, LA8 9AS

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Silence is Golden



nexpensive high-end audio is a rarity, but one in which US company Golden Tube Audio specialises. For a bag of chips short of a grand (£999) the company's new SI-50 amp seems to perform the impossible. It's an integrated valve design claiming to offer 50 Watts of push-pull pentode power a side, it is microprocessor controlled, it can run in active or passive mode, and it may be operated by an excellent remote control hewn from a billet of solid alloy. You'd expect a much higher price-tag for a product like this, especially as it needs to be shipped thousands of miles.

Furthermore, this is no simple Williamson circuit board with a motorised volume pot and a fancy front panel. Considerable work has gone into the design. Every stage has its own special module, making repair and replacement swift and easy, and the layout is symmetrical. Within the hefty aluminium casing and behind that ultra-thick front panel, the main drive section (containing phase splitter and input triode, preamp driver and power pentodes) is laid out horizontally. Each pair of EL34 pentodes is kept cool by a low-voltage fan on each channel.

The fans, sourced from a supplier to the computer industry, are not especially noisy, but at low listening levels in smaller rooms, I found them quite intrusive. Granted, those swirling blades help to prevent overheating problems, and permit this valve amp to be much more compact than most of the breed. But if your ear/brain interface becomes attuned to the fans like mine did, you'll find the constant whirr impossible to ignore.

The fan is not the only part of the SI-50

Can there be such a thing as a budget high-end amplifier? **Alan Sircom** believes he's found one in the shape of the Golden Tube Audio SI-50, a valve amp with microprocessor control.

to have been derived from the computer industry. This amp uses a sophisticated microprocessor control system to control behaviour during switch-on and power-down. The silicon also keeps constant check on the valves for correct biasing, and displays warning lights when a tube goes belly-up.

Another option is for the fuzzy-logic software to switch the amplifier into a tube-saving standby mode. This keeps the valve heaters in a state of pre-warmed readiness, without ramping up to full amplification.

One quirk of the microprocessor system should be brought to the attention of those afflicted by indecisiveness: take great care with the 'power-on' procedure. If you turn the power on, off and on again in quick succession, the amplifier goes into what can only be described as a spasm.

I am informed that rapid on/off switching can play havoc with the microprocessor chip itself, at the hands of ham-fisted operators. This is not explained properly in the manual, but does appear on a loose-inserted 'erratum' sheet supplied with the amplifier.

Cable stitching

Another twist to the 'smart' controls became evident when I came to set up the amplifier for the first time. Inadvertently, I plugged in speaker cable with a broken termination. As any valve aficionado will tell you, to visit this iniquity on a push-pull valve-amp is tantamount to smashing its glowing bottles with a hammer. However, I was surprised by the speed with which the SI-50 went into overheat, and I believe in part that this resulted from the microprocessor attempting to bias the valve in its distressed condition. No cautionary tale, this, except to myself and those who regularly play the cable game. And since the amplifier's EL34 power tubes remained ultimately untroubled by my abuse, the story is a testament to both tube and installation.

The amplifier can be set up to act as a power amp for bi-amping purposes, but it may not be used as a dedicated preamp. With only two line inputs and a tape circuit available, most people will probably prefer to use a separate preamplifier with more inputs.

If you seek that typical valve-amplifier sound, you'll find it in the SI-50. Like all good tubed kit, it does midband beautifully, and relishes in music that is sympathetic to the bygone golden age of valves. Play Blue Note jazz and the SI-50 becomes part amp, part time machine, as you're transported back to an era when America had Duke Ellington — and we had Billy Butlin. This is especially true when the amp works in 'passive' mode — ie, with the active preamp circuits disengaged. Fortunately, with a pair of ludicrously sensitive Rehdeko RK115a speakers, the power-limitations of passive were no great hardship.

The SI-50's treble is well mannered. You could connect this amp to the most vexatious and brash speakers, and it would still find something good to say about them. It has a smoothing effect on treble sounds, making them polished, even, but never raucous.

Bass is seldom a strong point with valve amplifiers, and the SI-50 is no exception to the rule. It produces full but slightly spongy low frequencies — not the most tight, rhythmic or coherent around. It's never less than dynamic and highly expressive, though. For those of us hooked on controlled, fast, dancemusic-style bass, the SI-50 is a bit soft and sluggish; but folks with more catholic tastes may well find the full and easy bottom end appeals. Stereo performance was first class, with pin-sharp images and an excellent sense of air around musicians.

On the debit side, the SI-50 is not the most feature=packed amp around, and its cooling fan may prove obtrusive. To its credit, one word sums up the sound: refined. You'll be hard-pressed to do better for £1,000. \triangle

HI-FI CHOICE FEBRUARY 1998 45



Tablettes of stone

Tiny speakers and big sound don't always go together. But as **Stan Vincent** discovers, these little ProAcs punch above their weight.

mall is beautiful, and a small speaker is especially beautiful if it generates room-filling sound convincingly. The ProAc Tablette 50 looks like an ideal candidate for performing such a trick.

Based on a design in manufacture since 1979, and priced at £899.90, it is not a cheap proposition, especially when you realise how small it is (11 by 6.5 by 9 inches). But on closer inspection you realise this enclosure is finished in a most elegant realwood veneer (burr oak as reviewed; ebony, or bird'seye maple). Pick up the speaker and you'll feel it: at 14 lbs per cabinet it feels densely packed.

Indeed it is. The mid-bass drive unit, housed within a diecast chassis, incorporates a five-inch polycarbon cone, and is driven by a "special copper magnet" assembly. Poking out of the front is a copper-phase plug to aid dispersion. The tweeter is a three-quarter-inch soft-dome device, with a honeycomb-wound voice coil and ferrofluid cooling. The cabinet housing both units has been "critically strengthened" and "heavily damped" to resist resonance.

On the back panel you will find twin reflex ports and well-specified, bi-wirable cable terminals. These lead to a "specially dedicated" crossover, apparently. Oh, and nestling between the ports is a little plaque inscribed with the signature of Stewart Tyler, ProAc's chief designer.

ProAc claims the Tab 50 Sig has an efficiency of 89dB/W/m, an unconditional frequency response of 35Hz to 30kHz, a nominal impedance of eight Ohms, and a power handling capacity of 150 Watts.

I set the speakers up on Target R/1 pillar stands (£280). ProAc claims these boxes are amenable to most sites in a room, provided there are six to 12 feet of space between them. Regrettably in my shoe-box-sized dwelling I could manage only a four-foot gap, but with a bit of toe-ing in they still provided



a stereo image one could believe in.

It appears
ProAc doesn't get
too involved in cable
philosophy wars, and
nor do I if I can help it, but
I tried AudioQuest Cobalt for

bi-wiring and Kimber 8TC for 'ordinary'. The latter gave a greater sense of image size and depth: more freedom to the sound.

Quad-rophonic

Even before listening I gained an impression that these speakers would form a rapport with the Quad 77 CD player and amp I use at home. Fortuitously, that turned out to be the case. The Quad and ProAc components complemented each others' sense of restrained but effective performance. Perhaps inevitably, this restricts the impression they make at low levels; whereas part of the appeal of a Rehdeko, for example, is the way it catches your attention even when idling. But while I am quite enamoured of, say, Paul Messenger's Naim/Rehdeko system, I'm not sure I'd want to live with it.

The Quad/ProAc pairing, by contrast, is right up my street. A key reason for this is its assured handling of my odd-ball record collection, which covers all manner of stylistic bases. The Tab 50 Sigs bring out the differences between recordings by getting right

inside them: by revealing the shimmering harmonics of a struck cymbal, and that spinetingling internal harmony-yet-discord characterising a church organ in full flow.

Some might find the treble a little aggressive when the volume's cranked up—it's the price paid for insight into detail, I guess. Others might want for a little more bass, though you'd need a pretty big room to exploit it. Imagery is good, though I must confess with any system it makes my head spin when I try to hear the second violinist's nasal hair twitching. I was surprised, however, by the width and depth of soundstages generated in my little room.

As always, a speaker is the result of several compromises adjusted to suit a particular design goal. In the Tablette 50 Signature, the balance weighs in favour of... well, a balanced approach to all music; a commitment to portraying detail and scale rather than an edge-of-seat, Technicolor performance for the musically uninitiated.

Acoustic Precision Eikos FR1 speakers, by way of contrast, represent an attempt to optimise speed and stereo imagery at the cost of a reduced-bandwidth response. The pedants can argue over that — I'd rather have the Tab 50 Sig's real-wood finish than the Eikos's 'flock', any day. I'd advise everyone to hear these speakers. From small acorns, massive oak-veneered sounds grow.

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HI-FI CHOICE FEBRUARY 1998 47



audio T

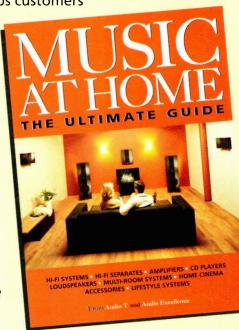
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Wazoo fraternity

This amplifier was inspired by Francis Vincent Zappa, Jr. For **Jason 'Black Napkins' Kennedy**, that's all he needs to know...

kay, I admit it: I have a penchant for the music of Frank Zappa. I knew you'd be surprised. If you aren't, then imagine how keen I was to grapple with an amplifier named after one of Frank's finest works: his early '70s album, The Grand Wazoo. I recommended the latter to Choice readers a few years ago, to rejuvenate those who had become jaded by too much samey hi-fi. So it is a piece of conceptual continuity worthy of Zappa himself, that the component which was inspired by his album, also inspires by

The Bow Technologies' Wazoo has been fashioned at the hands of Bo Christensen, a Dane with a reputation for building beautiful kit. In a former incarnation he was the driving force behind the Primare brand, which was known in the late'80s/early-'90s for some stunning amps in the 'carved-from-solid' mould. The current Bow Tech range must be the envy of industrial designers throughout the industry.

virtue of its looks and premise.

The Wazoo looks like a megabucks product — and it's bigger in size than it looks in the photo. So in material terms alone it seems like good value at the suggested price of £1,795. Its power output claims to be 50 Watts per channel into eight Ohms, and its 20kg anodised chassis sports five inputs, one of which is balanced. Top-notch WBT speaker terminals complete the package, but I was rather baffled by the way these terminals' bare-wire/second-plug holes are oriented horizontally. To bi-wire from these, except when using Y-configured wires with plugs, is not easy.

Bow says that the Wazoo is based on circuit topology found in the company's more expensive ZZ-One (does it have a long beard? -Ed), but the former design is less powerful and uses fewer components. However, according to Bow, neither's circuits use negative feedback in their gain stages.

One immediate downer for me was the Wazoo's lack of a remote-control handset.



optional extra. Apparently the receiver will be a stainlesssteel tube, with an 'eye' at one end, which may be laid down beside the amp. Nice.

socket shows that

the joy of infra-red

is coming to a

Wazoo soon, as an

You Are What You Is

The Wazoo took the place of a Densen Beat B-100 in my system — as it happens another Danish design, conspiracy fans. My speaker cable of choice was Electrofluidics Sonolith Monolith 20/20, which comprises two flat ribbons of solid copper. Although never tested formally in Choice, it closely resembles Goertz M2, which we tested in HFC 168. Both designs share very high capacitance allied to low impedance and resistance. Some amps don't like this combination of electrical characteristics, and the Wazoo was one of them — its protection circuits clamped down on the power output in self-defence. Bo was quite surprised to hear of this, as he is a major fan of Goertz himself. The problem was remedied by swapping the short length of Monolith for a longer length of Goertz. If you plan on using these cables, length is a factor. Consult amplifier manufacturers for their recommendations.

Joe's Garage

Okay, audition time. I hooked up the Wazoo to the new, braced version of the Acoustic Precision Eikos FR1 (*HFC* 165), and the recently reissued JBL 4412mkII studio monitors (see *Ear Waxings*, p11). They say jour-

nalists shouldn't reveal their sources, but I'll tell you all of mine: SME Model 20A/V Gold/Dynavector XX-1 for LP vinyl, and the Acoustic Precision Eikos for CD.

In the wake of the Beat B-100, the Wazoo brought some finesse to the party, but for a while I missed the former's exuberance. However, it was not long before the greater Dane had captivated me with its organic, rich textures, and effortless resolution.

I would not rank it among the quickest or most dynamic of amps, but it offers a special quality of sound that reveals hidden subtleties in music, and brings performances all the way out into the room from the speakers, yielding an intimacy that is rare. Clearly it was happier to work with the more sensitive speakers, the JBLs: together, this pair revelled in dark backgrounds and superb presence. I enjoyed hours of fun, particularly with '70s vinyl. The Wazoo responded positively to the air provided from vinyl via the Michell Iso HR phono stage.

Those who set their watches by imagery, timing and dynamics might be disappointed by the Wazoo. Modern high fidelity qualities like these are not its strong suit. Rather, the Wazoo excels in the way it helps you forget about 'hi-fi'. This valve-like quality inspired me to simply play music long and loud.

It's important for every new hi-fi design to extend the possibilities of hi-fi music reproduction. But hi-fi is only a tool to help people enjoy music. If that music happens to be the magnificent Grand Wazoo — "...an oversize primitive-but-effective megaphone" according to the sleeve notes — then a musically attuned amplifier like the Wazoo is the ideal tool for the job.

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See your face in both sides

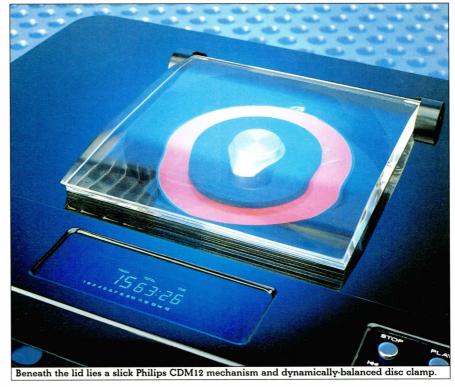
The first-ever CD transport and DAC from speaker specialist Rogers: how much more black could it be? **Alan Sircom** says: "None... but what colour is it?"

f you're a famous name in hi-fi, but specialise in loudspeakers, how do you diversify? For most companies, a sophisticated electronics R&D arm is likely to become a money-pit, from which there is no guarantee of producing a world-class product at the end of the day. It's a genuine problem with which many speaker manufacturers now grapple.

Rogers falls precisely into this pigeonhole, even though it was known as an electronics manufacturer in days of yore. This time round it has effectively side-stepped a risky transition period by buying in the best brains for the task. The first non-speaker products since the days of the Cadet amplifier were two valve-integrated amplifiers, designed by the back-room boys who brought us the Audio Note Oto. The new Serie Cadenza CD player, CD transport and D/A converter — the latter pair on test here - have been designed along similar lines. Each is every inch a unique Rogers product, but members of this trio were designed and built in France, and carry the unmistakable stamp of a particular Gallic digital designer.

The presence of a top-loading mechanism doesn't narrow down the field much, but the use of a separate power supply for the transport mechanism, acres of black metacrylate and a separate 18-bit D/A converter all point to the design school of Pierre Lurné. Lurné, a craftsman of considerable note, cut his teeth working on the ultra-high-end Goldmund turntable project before going solo with his own range of digital and analogue sources. Pierre Lurné's own line of turntables, arms, CD players, transports and DACs are also available in the UK, imported by Kronos Distribution.

So a Lurné heritage is clearly manifested in Rogers' £2,699 SC-8t CD transport and



£1,899 SC-8m D/A converter. This is a three-box system for which the power supply is housed in a bluff plastic box with a toggle switch and red 'power on' LED. It connects to the transport using a frankly cheesy D-SUB connector cable borrowed from the computer industry, but I suppose fancy cabling here would be a waste, even if it might have served to reassure. That said, the top-loading transport mechanism is rather slick, with a Philips CDM12 disc tray and a dynamically-balanced, custom-fabricated metaland-metacrylate disc-clamp.

At the front is a pair of adjustable and springy feet; a spirit level nestles in the transport recess, which is a very useful feature. One minor gripe, applicable almost uniquely to Lurné transport designs, concerns the horizontally-oriented blue-LED display panel directly in front of the transport. Unless you are standing right above the SC-8t, you cannot see any disc information at all.

Get yourself connected

Although transport and DAC have been designed with each other in mind, there is a

host of connections that are not common to both. The transport has Toslink optical, RCA-phono coaxial and AES/EBU balanced XLR digital outputs; while the 18-bit, Analogue-Devices-based D/A converter eschews optical altogether but proffers one more BNC electrical coaxial connection than offered by the SC-8t. Toslink optical is an option for the SC-8m, but both transport and DAC have an optional AT&T (ST) optical connection. Some users may opt also for a re-clock circuit à la Trichord.

Digital sources are selected using a large knob amidships the SC-8m's front panel. This is flanked by a host of red LEDs, and while aesthetically unmatched to the blue displays of the transport, they do elevate the unit's level of information provision above the norm for a humble DAC.

More choices must be made at the analogue end, as the SC-8m may incorporate a Class A balanced output (using a pair of XLR sockets) if the user is minded to pay extra. Even with standard PTFE insulated gold phonosockets, however, the claimed 2V RMS output seems more than sufficient.



The transport may have springy feet, but the DAC rests upon lumps of solid metacrylate. Like its disc-spinning sibling, however, it is housed within a rigid, damped enclosure.

After a week's worth of non-stop warm-up, I hooked up the Rogers duo to my Meridian 502/557 pre/power amp combination, and made comparisons with both a Meridian 508.20 and my current Euro-fave, the superb Micromega Solo. Speakers, in the guise of Rehdeko RK115, stayed in the Francophile mode, but to avoid claims of national bias, I made reference to a pair of B&W 805. Both pairs of enclosures were occasionally augmented by a REL Q-100e subwoofer. Cables included DNM, Nordost SBM Reference and vdH The First.

Keep it in the family

Rogers seems intent to produce a 'family' sound all the way from source to speaker: one that is musically faithful and accurate right across the frequency range. It only strays very slightly toward the warm and rose-tinted end of the spectrum, but this doesn't detract from a basically lively nature. The transport and DAC may not be kings of rhythm, but they do James Brown no

disservice. There is a superior sense of detail; play a well-recorded CD and it sounds like someone just handed you the master tape.

The Rogers duo seemed to seek out the good in every silver platter. It strived to put a brave face on even the nastiest Northern Soul track, but that doesn't make it a simple warm-toned crowd-pleaser. Never once did it disgrace itself, even in the dubious company of my record collection. It even made a good fist of generating a kind of soundstage with the most mixed-about Cream records—and I mean those from both the '60s supergroup and the '90s Liverpool club.

So it's a philanthropic design, but also egalitarian in its outlook. Rock music gets the same treatment as jazz, classical or opera.

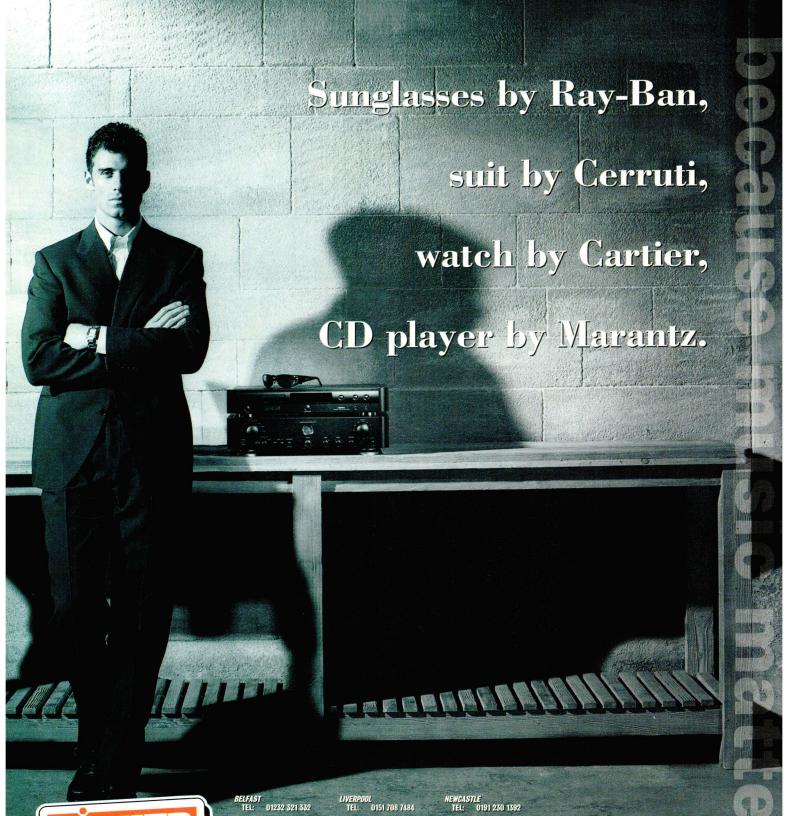
And if all of the preceding sounds like damning with faint prize, there'd be a grain of truth in such an accusation. This is a hugely competent CD player, very transparent, and because of that very difficult to criticise. Therein lies the rub, however, because it is also nigh on impossible to pin-point this player's strengths when its performance is pretty uniform across the board. Audiophiles who have developed eclectic tastes will not find a hook for their addiction, even if they find a natural

and even-tempered performance complements some CDs in their collection.

So, the \$64,000 question: why do I prefer the Micromega Solo? I'm not altogether sure. If ever two players were very closely matched, they would be the Micromega and the Rogers. In some respects, the Solo remains my Euro-fave for the very reason why the Rogers is so good — its absence of character. The Solo is easy to pin down, with a distinctive, pacey and earthy signature which is at once beguiling and frustrating. The Rogers outfit simply plays the music without comment or criticism. If I owned a Spice Girls CD — and I'm speaking purely theoretically here — I could play it on the Rogers rig but would fear the torrent of criticism from the Micromega. It would probably blow Gauloises smoke in my face.

Rogers has been smart with its first digital products. Their honest and tidy sound harmonises with the character of the company's speakers. If more speaker companies started making CD players this good, small CD manufacturers would have to start taking better care of their customers. But I just missed something to get my teeth into.

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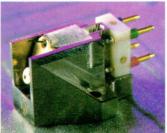
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Jutothe State

Paul Messenger puts the needle to the record and tests eight high-end cartridges, priced from £500-£2,000.









HOW THE TESTS WERE DONE

It's more than a decade since I last did a group test of cartridges for Hi-Fi Choice. I'd cast the test discs into a dark recess after finishing my last ordeal with 100+ models, but the LPs in guestion had survived banishment gamely, and helped provide valuable extra insight into this month's very select group. Listening tests provide the final arbiter, and here we decided to use the Naim ARO tonearm, not only because of its fine sound quality, but also because the ability to lift off the complete arm-top quickly is a considerable boon when installing these very delicate and fragile cartridges. Naim loaned some additional arm-tops to facilitate easy comparisons. The main turntable, a modified Linn Sondek LP12, is supported on a combination of Mana and Townshend, Backup deck is an ARO-equipped Rega Planar 9. The main amplification system is Naim throughout, though we also used Linn's Linto/Kairn/Klout combo and Audiolab's delightfully versatile 8000PPA phono stage. The latter fed a Krell KAV-300i. Speakers are Rehdeko RK175 and flush-mounted Tannoy Westminster Royal dual-

WHAT MUSIC DID WE USE?

The KLF: The White Room on JAMS LP006 Joni Mitchell: Mingus on Asylum AS 53 091 Tom Waits: Rain Dogs on Island ILPS 9803 Nirvana: Unplugged on Geffen GEF 24727 Leftfield: Leftism on Hard Hands HANDI P2D Mendelssohn: Symphony No3/LSO/Maag on Decca SPA503

Grateful Dead: Reckoning on Arista DARTY9 The Chemical Brothers: Dig Your Own Hole on XDUSTLP2

Strauss: Dancing in Old Vienna/LSO/Georgiadis on Enigma K53577 ■ Test discs were the 'classic' JVC TRS-1007mkll Frequency Response Test, and the Denon XI-7007-9 Audio Technical Records box set.

he offer was altogether too tempting. The chance to play with eight of the world's finest and most exotic vinyl pickup cartridges would be irresistible to any serious hi-fi nut. This is the cream of the crop (if not quite 'la crème de la crème', as several of the brands have even more extreme and expensive alternatives).

The test candidates cost a pretty packet, when you consider they'll be worn out in a few years' time. But they're an essential part of the audiophile lifestyle. Slip one of these into a good tonearm, at the front end of a high-class system, and you'll know straight away why vinyl is experiencing a revival. CD can never get this good!

Seven of our eight are so-called low-(or lowish-) output moving-coil devices, which is the accepted modus operandum for the serious high end. All require some degree of 'step up' if used with traditional amplifier phono inputs; though in practice the modern trend is to use separate standalone units for cartridge amplification and equalisation. Such a device passes a standard, line-level signal to the preamplifier. Grado's £1,000 Signature provides the high-output, movingmagnet alternative, making it slightly harder to make comparative judgements.

Exotic materials are a major raison d'etre for these needles' exotic prices. There are diamond stylii on all the cartridges, but their bodies are built from all sorts of other extreme materials. Titanium and wood are popular choices, but carbon fibre and nudity are also represented. If you paid attention during chemistry at school, you might remember something called Boron (rhymes with moron), but never had the faintest idea what use it could have. Today it's the popu-

MODEL	PRICE	PAGE
Clearaudio Signature	£1,495.00	p55
Dynavector Te-Kaitora	£1,698.00	p55
Goldring Excel VX	£525.00	p56
Grado Reference	£995.00	p56
Lyra Parnassus DCt	£1,895.00	p57
Ortofon Rohmann	£1,000.00	p57
van den Hul Frog	£1,500.00	p58
Wilson Benesch Carbon (le	ss 15% trade-in)
	£1,572.50	p58

lar choice for high-end cartridge cantilevers. "Ah! Boron...," you can say at the pub quiz.

I noticed not only silver but also gold wire in evidence, and special super-stiff, nonconductive ceramic elements in both bodywork and motor structures. (The latter is the part that converts the mechanical energy abstracted from the LP into electrical juice for your preamp.) To achieve a desired result, the cartridge purveyor has at least as many options as those who make loudspeakers, in the selection of materials, compliances, damping materials and so on.

I was surprised by the ease with which I could hear differences between models. I should caution, however, that the sound of a cartridge is invariably heavily modified by its turntable, tonearm, and support furniture, not to mention the tonal balance of amplifier and speaker. At the high end of hi-fi, subtleties of component and system matching are major factors. Our tests provide a useful comparative perspective, but from an inevitably restricted viewpoint. The final choice is always better made with your own turntable and the help of an experienced, specialist dealer.

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CLEARAUDIO SIGNATURE

Clearaudio is a small German cartridge manufacturer which concentrates on the high (and very high) end. I recall reviewing a Gamma for a *Choice Collection* about a decade ago, and being impressed then by both its qualities and its 'differentness'.

The Gamma is still available as the least expensive member of a range which includes this £1,495 Signature. Key features include 24ct gold wiring, a hollow boron cantilever, and a Trygon II stylus.

The shape is best described as a 'hammerhead', with a slim rearward section containing magnet and mounting lugs, while a wide front not only houses the stylus, cantilever and coils, but also the terminal pins. Some tonearms might require longer-than-usual headshell wires to accommodate this.

It's also a relatively heavy cartridge, the heaviest in our group by a small margin at 11-12g. Installation is a bit fiddly because separate nuts and bolts are used, but the stylus guard gives good security. Alignment is straightforward, however, thanks to a neat little line inscribed on the hammerhead side. The stylus-to-mounting-plate height is several millimetres greater than average here, which might pose clearance problems with some dust covers.

Output level is among the highest of the 'low output' types, registering only 10dB below the high output Grado model. The subsonic resonance has slightly higher damping than average, and hit a very sensible 10Hz in our medium-mass tonearm. The response traces are pretty well ordered, though there's a minor glitch at 800Hz, and a well-damped treble resonance across the 7.5-15kHz octave. Vertical/lateral separation is around 30dB over most of the range, dropping gently above 2kHz.

SOUND **** VALUE **** PRICE £1,495 A great all-round performer with fine dynamic vitality and a seductive midband intimacy. Audiofreaks, 15 Link Way, Ham, Surrey, TW10 7QT (0181) 948 4153

Sound quality

Barring a touch of 'edge' and brightness (presumably associated with that treble peak), the Signature sounds absolutely gorgeous. Voices have great presence and coherence, and a real dose of dynamic vitality. The dry, deep, clean bass helps dig a serious groove, and if surface noise is slightly obvious, there's an overall sense of intimacy and credibilty in the midband which is very special indeed.

The most convincing all-rounder in the group, yet by no means the most expensive, Clearaudio's Signature is the obvious recipient of a Best Buy flag.

DYNAVECTOR TE-KAITORA

Long-established Japanese manufacturer Dynavector has been a *Choice* favourite down the years. Its new flagship, the £1,698 Te-Kaitora, is named after a Maori phrase for 'the discoverer'. (Dynavector New Zealand helped with the design.)

The most striking factor is its nudity. There's no bodywork at all here, just the magnet structure left open to the elements, albeit with the backing of a substantial flat titanium plate. There's good sense in doing this because bodywork, however exotically fashioned, is bound to add some degree of resonance coloration to the sound.

There's no stylus/cantilever guard either,

so several millimetres of very fragile, exposed, expensive and almost invisible boron-rod cantilever pokes out. Although it was perfectly straightforward, I have to admit I didn't enjoy the installation process.

The stylus is an Ogura Pathfinder, the wiring is silver, and the cartridge features Dynavector's proprietary magnetic tweaks — a 'flux dumper' coil on the front, and 'magnetic softening' via ferrous metal strips.

Weighing 8.8g, the Te-Kaitora has a relatively low (ie stiff) compliance, giving a lightly-damped subsonic resonance at a highish 14Hz in our medium-mass test arm, though it'll be happy in higher-mass arms, too. Output level is at the low end of our group's range: 16dB below that of the Grado.

The response traces look very promising. There's no sign of a treble peak, although upper-mid output is a bit suppressed, and there are small glitches at 900Hz and 5.8kHz. Lateral/vertical separation is better than 30dB across most of the band up to 5kHz.

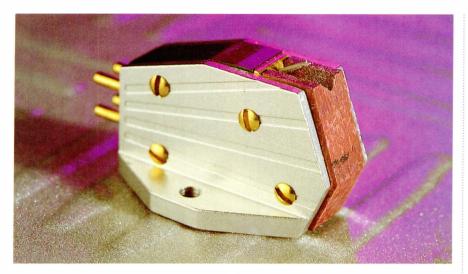
Despite the low compliance, trackability seemed fine, while needle-talk is exceptionally low, which is nice if you dislike dust covers and listen late at night.

Sound quality

I developed a very healthy respect for this delightfully smooth and transparent cartridge, but it took a day or three to fall in love with it. There's very little to criticise about the sound *per* se, save some lack of vividness and power. It's very delicate, with a wide dynamic range, but it is also rather laid back in presentation.

This is a real smoothie. The price is high, but it's well worth checking out if you're looking for laid-back transparency, and value the low level of needle-talk.





GOLDRING EXCEL VX

When I first opened the box, I thought there must have been a mistake. I was expecting a Goldring cartridge, yet inside the box lurked something that looked awfully like an Audio Note IO. Imitation is, of course, a form of flattery; and as it turns out the Excel VX is actually a very different design. It weighs around eight grams, whereas the IO was a serious heavyweight.

The sides are flat, parallel alloy plates, bolted together either side of the motor, with wooden sections filling the gaps. Those sides are then shaped to form a generous and strong mounting plate, with threaded inserts. The shape makes alignment pretty straightforward (especially the 'mirror test' used to ensure perpendicularity, necessary with a uni-pivot arm). A Vital PH stylus with 0.040x0.008 mm radii is fitted.

As a medium-mass cartridge, its compliance was just about right for our medium-mass tonearm, with a well-damped subsonic resonance bang on 10Hz. Output is generous by low-output standards, recording -11dB ref. the high-output Grado.

Response measurements give no cause for concern, though the upper midband could be a little stronger. There's a minor glitch at 800Hz, and while the treble looks encouragingly smooth, there's evidence of some unevenness in the lateral/vertical crosstalk trace.

Sound quality

In the assembled company, this Goldring is outclassed. That's no disgrace, of course, because it costs somewhere between a quarter and half the price of the other models assembled here. It might indeed be a



respectable performer among its direct price peers, but no way does it take on a giant-killer rôle here.

The bass does have a measure of drive and enthusiasm, but further up the band the Excel VX simply sounds thick, kludgy and imprecise. It gets into the groove well enough, but lacks dynamic tension further up the band: the top end sounds diffuse, sibilants smeary. In a group context, however, it's a dull and rather old-fashioned sort of sound, lacking the sort of precision and analysis available at higher prices.

GRADO REFERENCE

From one of the oldest cartridge manufacturers in the business, Grado's £995 Signature is at the top of the company's range, and differs dramatically from the others gathered for this report. It's beautifully built, and is presented in a solid hardwood body with matching, effective stylus guard.

Unlike the rest, this is a high-output, moving-magnet design which will connect directly to the phono input of any amplifier thus equipped, without the need for any step-up device. This fact will be particularly interesting to valve amp users, who usually employ a step-up transformer for low output cartridges.

Even by moving-magnet standards, Grados are unusual in two key respects. Most moving-magnet cartridges are

designed so that their inductance interacts with the amplifier input, to create a tuned resonance which enhances treble output (somewhat at the expense of treble quality). Grados have a comparatively low inductance, and are therefore unaffected by the capacitance of the amplifier input, and free from that tuned high-frequency resonance.

Grados also have virtually no internal low-frequency mechanical damping — the subsonic sweep shows a very lively fundamental resonance centred on a sensible 9Hz. This in turn puts a premium on the quality of the turntable and arm: any defects in either are likely to be magnified by the cartridge. If available, some arm damping is likely to be beneficial too.

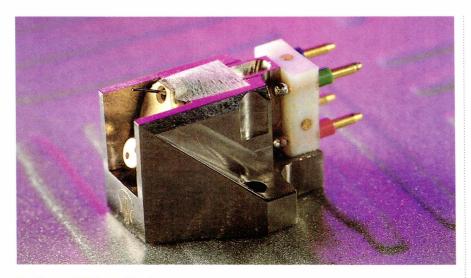
The response sweeps reflect this model's unique mode of operation, showing a smooth trend but some relative lack of midband output, a broad treble peak 4-8kHz, and an early ultimate roll-off.

Sound quality

Sonically the Grado's strength is its midband, which is smooth and well ordered, with tracking security and headroom that is very comforting — somehow it seems less stressed than the moving-coil models here. The bass seemed deep and clean, if a bit defocused, though to be fair it might have benefitted from some arm damping. The slightly shiny treble is a disappointment, lacking the analysis and transparency of the top moving-coil models. Cymbals have a slightly artificial character, and consonants are a bit clipped.

The Grado lacks the bandwidth resolution of the low output models, but could make sense in a midband-oriented valve-amp system.





LYRA PARNASSUS DCt

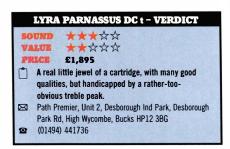
A specialist high-end brand from Scan-Tech in Japan, Lyra has enjoyed considerable success with models like the £995 Clavis DC. For a few dollars more (well, £900 actually), Lyra has this altogether more dramatic and sexy-looking Parnassus, its motor clad in a milled block of titanium, and yours for a mere £1,895. That's a heck of a price for a cartridge, true; but of all the models assembled for this group test, the Parnassus is the one which looks most like a piece of jewellery, which serves to sweeten the pill a little. In terms of exotic ingredients, Parnassus takes some beating. The stylus is a tiny 60micron-shanked Ogura PA line-contact, while the cantilever is diamond-coated, ceramic-reinforced aluminium.

The total cartridge weight of 10.5 grams was towards the top end of our group; installation and alignment were particularly straightforward. Output level is the lowest by a small margin, though still perfectly acceptable at -17dB below the high-output Grado. A relatively low compliance ensures that the fundamental subsonic resonance hits a close-to-ideal 10Hz in our medium-mass arm. Internal damping is about average here, so additional arm damping should not be necessary.

The response is well maintained up through the midband, registering just a slight glitch at 900Hz (though rather more modes are visible on the lateral/vertical crosstalk trace). Much more potentially troublesome is a broad treble peak, centred on 7.5kHz but detectable from 4kHz right up to 12kHz.

Sound quality

First listening impressions were very positive



indeed. The Parnassus appeared to combine suitably kicking dynamics with wide-band smoothness and transparency. As the evening wore on, and I worked my way through a number of discs, the effects of that treble peak became more and more obvious — and, once noticed, more and more irritating. It's quite clean, but resolutely shiny in the way cymbals, sibilants and consonants are reproduced. If that's the down-side, there's no denying the exceptionally wide dynamic range, and a fine ability to resolve information deep down in the mix.

There's much to admire in the Parnassus, but the treble peak is unwelcome considering the very high price.

ORTOFON ROHMANN

Danish manufacturer Ortofon claims to have made the world's first moving-coil cartridges (in 1948), and has stuck firmly to that line of trade ever since. Even when it was virtually the sole representative of MC during the moving magnet-dominated '60s and '70s.

When improvements in turntables and tonearms started bringing the moving-coil principle back into favour near the end of the '70s, Ortofon was well placed to take advantage, and now produces complete ranges of both types of needle: from cheap magnetics up to (and beyond) this £1,000 Rohmann.

Named after Ortofon's late proprietor, it

SOUND **** VALUE *** PRICE £1,000 A class act in nearly every respect, with fine groove security and a very smooth, even-handed sound. Henley Designs Ltd, The Old Coach House, The Street, Crowmarsh Gifford, Wallingford, Oxon OX10 8EH (01491) 834700

features a pretty and purposeful-looking blue-anodised body, milled from solid aluminium. The 'Orto-line' nude stylus has a $100\mu m$ major radius to give an unusually extended line contact. This reduces groove pressure and therefore allows the security of a highish 2.5-gram tracking weight. A tapered aluminium cantilever connects to a carbon-fibre armature, wound with high (99.9999 per cent) purity silver wire.

The Rohmann's weight is about average, while the compliance is quite stiff, resulting in a lightly-damped subsonic resonance at a highish 15Hz in our medium-mass test arm. Higher-mass arms should not be a problem, and light damping might be worth trying.

Specific output level is high by historic Ortofon standards, but fairly low in our group context, registering -16dB ref. the high output Grado. The responses are as close to neutral as any, with just a minor glitch at 900Hz and a suggestion of a very well-damped resonance at around 10kHz.

Sound quality

I suspect the security of that generous 2.5g downforce has much to do with the fine stability and solid coherence of this cartridge. Transparency and neutrality are its greatest strengths, with just the faintest top-end sheen in evidence. Dynamic range is excellent, giving clear information retrieval way down into the mix, though dynamics themselves do lack a little spark and vitality. The Rohmann is always laid-back in the way it goes about things. Ultimately, what it lacks in tension and drama, it makes up for in smoothness and delicacy.

A fine all-round performer at a more realistic price than most, the Rohmann deserves confident Recommendation.



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HI-FI CHOICE FEBRUARY 1998 57



VAN DEN HUL FROG

van den Hul's first cartridges came under *Choice* scrutiny in the mid-'80s, at around the time CD was getting under way. The brand was already well-known for the special stylii which Dutchman AJ van den Hul had developed previously.

AJ's top Grasshopper models are completely nude designs, but the Frog has a conventional body in vivid green. The basic cartridge looks to have been sourced from Benz in Switzerland; the body will be familiar to vdH acolytes. Its squared-off shape makes alignment easy, although the screw-together metal body might add resonant colouration.

All the internals, however, are to van den Hul's specifications, especially the crucial and specially-shaped Type 1S diamond stylus, upon which final tuning, adjustment and testing are carried out in Holland. Other features include a solid boron rod cantilever, and mono-crystal silver-wire coils.

The Frog differs from most of the other moving-coil models in a number of ways. It's amongst the lightest at seven grams, yet also has the highest output, just 9dB below the high-output Grado, which should ensure wide electrical compatibility. It also has the highest cantilever compliance, and the lowest recommended tracking weight (the two usually go together). The subsonic trace shows that the fundamental resonance is exceptionally well damped, but at a lower frequency than most (9Hz). Higher mass arms should, therefore, be avoided.

The basic response trace is well balanced, but there is a cluster of small resonances through the midband (500-550Hz, 850-900Hz and 1.4kHz). The mid-treble is just a shade prominent.

SOUND **** VALUE *** PRICE £1,500.00 Seems to control/suppress surface noise better than its rivals, this delicate and subtle performer has great charm. van den Hul UK, Unit 12, Imex House, 6 Wadsworth Rd, Perivale, Middx UB3 7JS (0181) 810 9388

Sound quality

The most remarkable characteristic of the Frog is the way it seems to ignore surface noise and groove damage, or at least offer superior suppression of it. That alone should commend it to those interested in classical vinyl, or given to scouring second-hand shops. Over and above that observation, the sound itself is very impressive, especially the delicate vocal clarity.

The top is a little shiny, the midband slightly coloured, and the bass could have more drive and authority, but the mid-bass is solid and tuneful, and the whole has a graceful and caressing quality which is very seductive. In all, the Frog is a delicate and subtle performer with great charm.

WILSON BENESCH CARBON

Wilson benesch is arguably the most exciting British hi-fi company to have emerged in the last decade, and is best known for the creative application of carbon fibre composites in various different parts of the hi-fi chain — from cartridges, tonearms and turntables through to loudspeakers.

The company sells several models of cartridge, all at fairly exotic prices, from the £786 Matrix up to the latest £1,850 Analogue. The £1,572.50 (including a 15 per cent trade in for any other MC cartridge) Carbon reviewed here features a very elegant

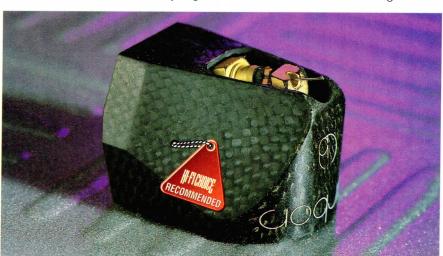
body fashioned from carbon-fibre composite, cladding a low-output, moving-coil generator sourced from Benz of Switzerland. While it looks very tasty indeed, the curvy shape means alignment isn't too easy, and there's no obvious way of attaching a stylus guard, so installation is rather an act of faith.

Other highlights include a solid-boronrod cantilever, nude elliptical diamond, and
sapphire armature. The seven-gram Carbon
is among the lighter cartridges in our test
group, and also has a highish specific output
level: just 12dB below the high output
Grado. The compliance is well judged to give
a reasonably damped fundamental resonance at 10Hz in our medium mass arm
high mass arms are probably best avoided.

The response is exceptionally flat up to 1kHz. It avoids the slight loss of midband output often found elsewhere, but not a slight mechanical glitch at 850Hz. There's a trace of treble forwardness centred on 7-8kHz, but in that respect results are exemplary, achieving around 30dB vertical/lateral separation right up to 6kHz.

Sound quality

When used in anger the Carbon sounds beautifully open and remarkably free from voice colorations, to a degree probably only matched by the nude designs. The bass is clean, quick and dry, and offers fine timing, but the treble is just slightly shiny and sheeny in character. I can't help suspecting that the Carbon would make a particularly fine match for Wb's A.C.T.One loudspeaker (HFC 162), but it's just as impressive as an all-round performer in any context. Further vindication, I'd say, of carbon fibre's potential value as a hi-fi-manufacturing material.



CONCLUSIONS

I haven't had so much fun (with my hi-fi) for ages! After a decade in which I've barely changed a cartridge except to replace those that wore out, I was quite surprised at how easy it was to perceive differences between these eight very-high-class models. I was gratified, too, to find pretty good correlations between my sound quality notes and the basic measurements I carried out.

Any cartridge faces a major problem: how to cover the full three-decade-wide bandwidth needed for audio. High frequency resonances seem pretty well inevitable, and mid-band 'glitches' are difficult to avoid, too, as the frequency-response and vertical/ lateral crosstalk sweeps showed. Not surprisingly, the success with which these are controlled is very closely linked to the cartridge's sound quality.

The subsonic resonance of the arm and cartridge is an important factor, too. And







there are wide variations between models, both in frequency (a function of compliance and mass) and in self-damping properties. The Naim ARO arm proved a good all-round match, but some cartridges might have worked better with alternatives. The Grado could have used a bit of damping, for example; while the vdH might have been more at home in a lower-effective-mass arm.

Relative output level was another parameter that correlated with sound quality. Our listening tests tended to favour the higher-output types, though whether this is an absolute finding, or one specifically related to our test system, is difficult to say.

Winners and losers

Taking everything into account, two models stand out for Best Buy recommendation. Some might argue that no cartridge costing £1,495 should carry a BB flag, and I have some sympathy with that view, but there's no doubting the fine balance of qualities shown by the Clearaudio Signature. The only real complaint is that installation is difficult, and the total height of the cartridge is much greater than average. This might prove awkward with some turntables, for example regarding dust-cover clearance. But the combination of stunning midband clarity and vigorous dynamics is rare and hard to resist.

At £1,000, the Ortofon Rohmann is quite a bit cheaper than the group average, yet delivers a sound that's close to the best at any price. For sheer transparency and neutrality it's pretty hard to beat, though you might find it a little reluctant to grab the music by the scruff of the neck, and force the listener to pay full attention.

Three other models earn Recommended flags. I found myself alternatively blowing hot and cold over the £1,698 Dynavector Te-Kaitora. The nude construction undoubtedly contributes to a beguiling transparency right across the broad midband, which is quite delightful with acoustic instruments, but heavier rock material seemed less happy, in dynamics and timing for example.

The Wilson benesch Carbon carries a £1,572 price-tag, though a 15 per cent discount is available to those trading in an old moving-coil cartridge. The Carbon is just a bit light and dry at the bottom, and a little shiny towards the top, but the midband is beautifully clear and open, with an exceptional dynamic range — thanks presumably to the carbon-fibre bodywork.

The van den Hul Frog is not cheap at £1,500, considering the relatively prosaic nature of its body and generator, but this cartridge's crowning glory and raison d'être is the famous van den Hul tip, which somehow manages to read the music and ignore any groove damage much more effectively than its rivals. The midband might not be the cleanest around, but anyone heavily into classical vinyl, or hooked on picking up secondhand discs of variable quality, would do well to check this one out.







The Goldring Excel VX definitely looks the business, and must be very tempting at a relatively modest £525. Sadly it's no giant-killer. For all I know it might be the best cartridge around the £500 level, but in this much more exalted company it was clearly well out of its depth.

Perhaps it was a little unfair to include the moving-magnet Grado Reference (£995) in this otherwise moving-coil test group, and it's equally true that this undamped model was probably least-wellsuited to our test equipment. Direct comparison is difficult, but the top-end limitations are real enough, as the test discs confirmed.

The Lyra Parnassus DCt was the most expensive in our group at £1,895, arguably also the best-looker, but proved a sonic disappointment. A strong first impression soon gave way to some irritation at the all-tooobvious treble peak, overriding whatever good qualities were heard elsewhere.

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To Infinity And Beyond!

Alvin Gold (listening tests) and **Paul Miller** (lab tests) grapple with the latest amplifiers priced from £450 to £1,300.



hile our last amplifier group test (HFC 171) focused on models priced from £130 to £300, this contest sets its sights on more costly designs. And almost all of our candidates are single-box integrated amplifiers. Exceptions include the Alchemist Kraken, a two-box integrated in which all the audio circuits are in one box, the mains transformers in another. Another, the Technics SU-A900DII, could be described as a hybrid, a half-way house between integrated and separate pre/power amplifiers. It comes in two boxes, but has a solitary power supply housed in the power amp section. It is also the least costly in the group, remarkably since hi-fi component boxes are a major cost factor. The final exception is from Musical Fidelity, which

THE CAST	LIST	
MODEL	PRICE	.PAGE
Alchemist Kraken	£579.00	71
Audio Analogue Puccini	£450.00	64
Audiolab 8000LX	£469.90	66
AVI S2000MI	£999.00	81
Bryston B60from	£1,280.00	83
Credo 702	£850.00	84
Densen Beat B100	£649.99	73
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Magnum Class A SE	£795.00	88
Musical Fidelity X-PRE/X-A50	£739.97	75
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Pioneer A-07	£999.95	89
Talk Electronics Storm 2		
Technics SU-A900DII	£499.95	68

has supplied a true pre/power amplifier with monoblok power amps, from its novel X-Series range. This family of products has unique styling, and is unusually flexible thanks to a number of matching products which can add functionality to the basic bare-bones rig we tested.

The market consists predominantly of one-box amplifiers at these prices, which

represents a swing back from a situation prevailing a few years ago. Other changes have been triggered by European regulations aimed at electrical safety and RFI performance, namely the dreaded 'CE' mark which all new products must bear.

When it comes to features, most of our candidates exhibit a trend towards increasing minimalism. Only the Technics has tone controls, while the Musical Fidelity provides the option of them with its X-TONE module. Headphone sockets are also becoming rarer, which seems a shame, but phono stages continue to remain widely available — if not as a standard part of the product, then often as a reasonably affordable add-on. The quid pro quo is that an increasing number of amplifiers have remote control, and many models have preamplifier outputs, which can be used with same-make power amplifiers of appropriate input sensitivity for sound-enhancing biamplification purposes. AG

HOW THE TESTS WERE DONE

ur 14 amplifiers were subject to a full battery of tests, including a close physical examination, unsighted panel-based listening tests in a high-grade system, hands-on listening using a range of speakers and source components, and a computerised measurement test programme. Each amplifier was run in and warmed up prior to being auditioned. Once again, it is worth stressing that the *Hi-Fi Choice* test programme is by far the most searching battery of tests that any magazine employs to judge high-fidelity components.

Panel testing was conducted over a period of two days, and included a number of repeats, with no panel member knowing the identity of the equipment on test. Volume levels were carefully equalised between test runs. The system used for these tests included a Krell KAV-300cd CD player and Tannoy D500 loudspeakers. Cables included Red Dawn from Nordost. The hands-on listening was broadened to include a number of other loudspeakers, including the Tannoy D900 (a gargantuan, widebandwidth loudspeaker), Mirage OM-6 (a floorstanding bipole with an active bass section), and TDL Cheviots CF300 (another floorstander). Other source components used included a Meridian 508 CD player. A Classé CAP-100 amplifier was used as a point of reference.

WHAT MUSIC DID WE USE?

Handel: Chaconne in G Major HWV428 (Murray Perahia) on Sony SK62785. Afro Celt Sound System: Saor/Free from Afro Celt Sound System/Volume 1 Sound Magic on Real World Records CDRW61. Jennifer Warnes: Somewhere, Somebody from The Hunter on Private Music 261 974. Mozart Finale: molto allegro from Serenade in B Flat for 13 Wind Instruments K361 (Wind Soloists of the Orchestra of the Age of Enlightenment, dir. Anthony Halstead) on BBC Music cov. disc Vol VI Nº 2. Dohnányi: Scherzo from Symphonic Minutes Op. 35 (Matthias Bamert/BBC Philharmonic Orchestra) on Chandos CHAN 9455. Various other titles used during hands-on listening sessions.

THE LISTENING PANEL

Our thanks for the skills and valuable time contributed by our listening panel, which comprised David Inman (The Audio Marketing Department), Keith Haddock (REL), Julian Maddock (Mission), Jonathan Jordan (B&W Loudspeakers), Kevin Edwards (Cable Talk), Steve Cross (Ruark) and Jason Kennedy (*Hi-Fi Choice*).

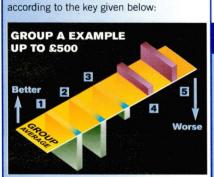
62 FEBRUARY 1998 HI-FI CHOICE



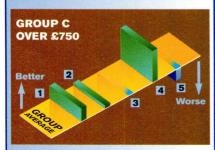


BAR-GRAPHS AND GROUP AVERAGES

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







UNDERSTANDING OUR BAR-GRAPH MEASUREMENTS

Technics SU-A900DII p68

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

1 Dynamic Power Output

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

2 Speaker Load Tolerance

This indicates how ably the amplifier maintains a given level of performance into progressively lower-impedance and difficult speaker loads.

3 Audible Distortion

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

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

5 Susceptibility to RFI

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





Electrocompaniet ECI-2 p86



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.



Audio Analogue Puccini

The name of Audio Analogue is new to these shores. I can tell you that it is 'handcrafted in Italy', that the Puccini SE has been on sale for a few months, and that the non-SE models boast a single transformer where the dual mono SE uses two. The Puccini is the basic model in a multi-faceted range, which

has been designed along purist lines: no tone controls, no speaker switching. Uniquely, however, the Puccini has the neatest 'idle' facility I have ever encountered: it operates when the volume control is set to minimum. Older readers may remember amplifiers with on/off switches incorporated into their volume controls. The same thing happens here but there is no click, and rather than the mains power supply being connected and disconncted, here there is only transition from a 'standby' to an 'active' state.

The amplifier is otherwise conventional in layout, but the standard of finish is well above average. The excellent turned-alloy controls and thick panel extrusion are the kind of touches you might expect only at much higher prices. Claimed power output is a little down on group average, at 40 Watts into eight Ohms on paper, though it is said to almost double into four Ohm loads, to about 72



Watts.

The Puccini is also fitted with an MM/MC phono input, though load-switching involves getting your hands dirty inside the case. The line inputs have a claimed 50 kOhms input

Sound quality

impedance.

CHILLIAN .

"Real electricity at last, and at such low cost! Sounds faster, more dramatic and has better dynamics (than previous models)," was the verdict of one panellist after the Afro Celt track. He also noted a lot more activity in the treble than had been apparent before. Another described the same piece as "very detailed"; that it "takes a firm grip on the music, and has great flourishes of authority". A third talked of the "explicit, articulate bass", and that it sounded "bigger, more exciting and lively". Unlike some other amplifiers that made a good job of the Afro Celt track, the Puccini continued to deliver at a slightly less impressive but still credible level with less frenetic music designed to stress more subtle performance elements. The only criticisms were centred on a loss of subtle detail and demeanour: in the Handel. for example, the Puccini was felt to be "jangly....(and it did) not do the system any favours"; but a second listener described the as "very sweet, detailed and involving", though he also commented on the presence of some colorations.

The frenetic quality was noticed in the hands-on sessions too, but this did little to detract from a clean, surprisingly punchy and articulate presentation. This was a real wolf in sheep's clothing, and one of the most enjoyable amplifiers in the test. I believe this impression arises from a tuneful and powerful bass, upfront, well-focused imagery, and enough resolution to paint a clear picture with any half-decent recording. Be warned, though: it doesn't suffer poor transcriptions gladly. The amp worked well with a range of speakers, though it failed to set the big Tannoy D900s alight.

Conclusion

same track

It is always a pleasant surprise when a new-comer with no known pedigree swoops to the front of the field on its first outing. The Puccini is everything a low-cost amplifier should be, and unusually well presented. The real secret of its success, however, is its bold, engaging and crystal-clear sound quality. Best Buy. AG

HOW IT COMPARES 1 DYNAMIC POWER OUTPUT -55% 2 SPEAKER LOAD TOLERANCE 10% 3 AUDIBLE DISTORTION -15% NOISE 15% SUSCEPTIBILITY TO RFI -35% 2 AUDIBLE DISTORTION -35%

THE LAB REPORT

Turn the volume control below -85dB, and this amplifier immediately drops into standby mode. It's a clever idea in which standby and mute facilities are combined in one hit. There's an increase in odd-order distortion, from 0.002 to 0.015 per cent as output rises from 1W/8 0hms to two-thirds output. However, as the amplifier is driven hard, at least distortion remains broadly consistent through bass, mid and treble. This is a good sign, as is the low 0.028 0hm output impedance, the easy-going 50 kOhm input impedance, the flat response and the wide 86.5dB A-wtd S/N ratio (re. 1W/8 0hms).

Furthermore, though there's a distinct lack of any dynamic headroom (+0.5dB = 49W into 8 Ohms) this is at least partially offset by the amplifier's stiff power supply, which offers a moderate tolerance of difficult speakers. Nevertheless, AA's literature suggests speakers no lower than 4 Ohms should be connected and, in practice, this is wise advice: the Puccini offers a maximum dynamic output of 49W/74W/91W/84W into 8/4/2/1 Ohm loads, respectively. This is equivalent to a current reserve of 8.7A over 10msec or 10A over 5msec. There's some mild susceptibility to RFI but, otherwise, the Puccini should prove solid enough with sympathetic ancillaries. PMI

This man can't believe what he's hearing...



have suggested — in the meantime the 8000LX provides an incremental degree of 'new product' interest.

This is the new budget-price, entry-level model, which has lost none of the house styling cues, and looks exactly like another logical addition to the 8000 family. As usual, you notice attention to detail; packaging and engineering can't be faulted. Frontpanel controls are limited to those for volume, input (listen) and recording source. There are three line and three tape circuits (video, tape 1 and tape 2), an arrangement that provides monitoring of either tape circuit, or tape-to-tape dubbing in either direction. There is a claimed 600 Ohm preamplifier output and a power amp input, though to activate this your dealer will have to wield the tin snips internally. An optional £15 module drives outboard DC-coupled amplifiers (like Audiolab's own) to prevent turn-on thumps. A headphone socket is fitted. Mute



and power LEDs complete the front panel furniture, and Deltron speaker terminals are fitted at the back. (Be prepared to invest in new plugs for existing speaker wires.) One surprise is that the 8000LX is Class II double insulated, and doesn't require earthing via the mains plug.

The 8000LX is rated at 60 Watts per channel into eight Ohms. Input loading is allegedly 20 kOhms on all inputs, which could result in treble loss with high output impedance CD players connected up using capacitative cables.

Design notes supplied with the amp talk in terms of maximising sound quality through adoption of a simple 'straight line' signal path. The preamplifier electronics are based on the Audiolab 8000A (HFC 140). and the power amplifier borrows its DCcoupled circuit from the 8000S.

Sound quality

The panel score slightly over-stated the case for the defence of an amplifier which, on the whole, was less than enthusiastically received. Some of the complaints concerned a loss of immediacy and of focus, others concerned blandness (read: loss of resolution) in the extreme treble. There was also persistent criticism of a loss of control with complex mater-

ial such as the Afro Celt track, which was variously described as "jangly and overblown", "a bit confused" and "strongly detailed but two dimensional".

POWER

audiolah

One listener demurred, or appeared to: "I didn't like this model at the beginning, but I grew to do so. It has good detail resolution, though dynamically it seems rather flat, and everything is a bit too sweet and syrupy. The level of detail is good, however: the effect is quite musical. I ended up charmed".

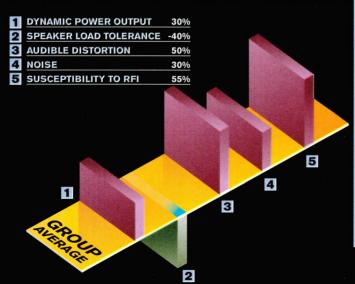
My own findings were in tune with the consensus view. The Audiolab behaved consistently from speaker to speaker, and midband performance was generally good, but there was more than a suggestion of blandness and an inability to maintain its grip when the going got tough, which was mainly observed with complex material.

Conclusion

A well-built entry-level model: the 8000LX performs adequately but without excelling. It works quite well with simple material, but can lose its cool when stressed with com-

plex, difficult music. AG

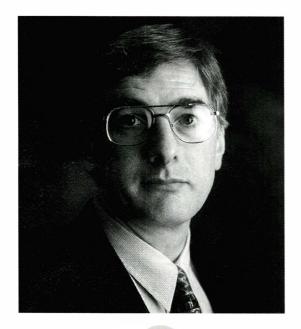
HOW IT COMPARES



THE LAB REPORT

Issue 154 carried our review of Audiolab's 8000S, a refined version of the company's long-standing 8000A integrated amplifier. Well, the 8000LX might be a good £200 cheaper, but it gives very, very little away to its illustrious relatives. For example, this version will sustain 82W into 8 Ohms and 136W into 4 Ohms, with midband distortion settling at just 0.0013 per cent. The 'S' offered 78W and 129W respectively at 0.0012 per cent THD. Furthermore, Audiolab's evercautious protection circuitry is in evidence, preventing more than 6.5A escaping into 1 Ohm loads, even though some 12A is released to support a dynamic output of 300W into 2 0hm loads (10msec).

Judging by the slightly poorer channel balance of the LX, it's not unreasonable to suspect it's been fitted with a marginally-cheaper volume pot, even though there's no deterioration in channel separation. Moreover, the LX has been designed with less gain, so its input sensitivity is reduced from 25mV to 37mV (re. 1W/8 Ohm), while its S/N ratio has widened from 84.9dB to 87.1dB. And all without any extra susceptibility to RFI, although the 26 kOhm input loading is marginally tougher than before. As ever, very solid; but, equally, very predictable stuff. Will Audiolab's new owners inject some fresh inspiration? PMI



...But it's true.

Peter J Comeau is no ordinary reviewer. As designer of the only product to win

the coveted What Hi-fi Best Loudspeaker Award three times in succession, he's generally regarded as the guru of small speakers. With 30 years' experience as a specialist hi-fi retailer, \(\sigma \)

Percussion is firm co-founder of a highly respected UK hi-fi manufacturer and one of the *'terrible* three' pioneered whosubjective reviewing in the staid hi-fi press of the 1970s, his opinion carries

and practically floor shaking in its intensity - just a few bars and you are already reaching for your wallet.

66...The 12i marks the baseline performance above which all other speakers should rise. But do they? Do they hell! 99 Seasoned hi-fi critics are notoriously hard to impress. So how come we weren't surprised when Peter J Comeau enthused so fulsomely about our new 12i?

formidable weight.

"They sound like a grand's worth of exotic compact," he wrote in October's Hi-Fi News. "If Celestion can achieve this sort of performance for a miserly figure, why are most of the speakers that arrive on the market so poor in comparison?"

Well, we can't speak for anyone else - but we know what makes the 12i such a remarkable performer.

The smooth, natural-sounding vocals? Celestion's 19mm tweeter, whose neodymium magnet is ferrofluid-cooled for improved power handling.

The phenomenal bass response? 130mm long throw bass drivers, which allow the cone extended movement without removing the HF coil from the magnetic gap where energy is most concentrated.

The acoustic purity and lack of distortion? The use of laser interferometry to tune out the response peaks of conventional speakers. Celestion crossovers to ensure seamlessly smooth transitions. Mounting the drivers and reflex port in a dense one-piece composite baffle to minimise resonance. Cabinets computer-designed to eliminate box coloration.

In the words of the Hi-Fi News lab report, "the horizontal off-axis trace is brilliantly managed." To the listener, that means the same seductive audio experience wherever you sit in the room.



No wonder the 12i reproduces the most demanding material with such accuracy ▷

t looks like a pre/power amplifier combination, but on this occasion looks deceive. This amplifier does operate using two boxes, which provides the key benefit of unhooking preamps from power amps, but there is only one power supply the preamp draws its power from the power amp across a wire link. In fact you can't buy one component without the other, but you can acquire a second power amp, the SE-A1000M2, for bi-amplified and multi-room applications.

In some ways, this package is curiously old-fashioned. The big moving-coil meters (scaled for eight Ohm loads and too sluggish in operation to register peaks) are a real blast from the past. But they do possess a kind of charm, especially when viewed with the switchable backlighting. The power amp is otherwise direct and to the point, with switching for two pairs of speakers and a headphone socket up front, a pair of barewire terminals and thermostatically triggered cooling fan at the back. (Would a full heatsink have broken the piggy-bank?) Plus, there's a system control socket. The preamp offers two tape, three line and phono (moving magnet) inputs, with monitoring of the

VERDICT SOUND VALUE £499.95 The most attractive features of this amplifier are its appearance — the power amp with its twin power meters really does look the biz - and its extraordinary material value for money. If only its sound quality was equally impressive. Panasonic UK Ltd. Panasonic House, Willoughby Road. Bracknell, Berks RG12 8FP (0990) 357357

source, tape 1 or tape 2 inputs. All switching is accomplished with electronic logic actuation from the front panel or by remote control. Standard tone, tone-bypass and balance controls are also fitted. with muting available from the remote control only. Rated

power output is 70 Watts per channel with the usual stipulations. A limited but unquantified increase is reported to be available into a four Ohm load.

The remote control is a system handset, capable of controlling a tuner, CD player and two tape decks chosen from compatible Technics ranges.

Sound quality

"A lightweight sound, very two dimensional, not very clean, and with a soft bass," wrote one panellist following the Afro Celt track. Unfortunately this comment was all too typical. Even the most favourable comments placed it no higher than average, though one listener felt that the Technics was "light and airy" and that it displayed more "life and immediacy" than the group average. But he too marked the amplifier down for "lacking attack", commenting at the end that it might not have been loud enough.

Of course all amplifiers were presented to the panel at exactly the same sound pressure level. What this listener was hearing was the Technics's lack of internal clarity. Perhaps it was the influence of the preamplifier power supply working at a dis-

tance, but aurally

this amplifier simply lacked discipline, and sharp transient edges often seemed smudged. Tonally it was attractive enough, but the Technics never seemed to be as much in control as many of the others. The glamorous-looking power amplifier was never quite as solidsounding as its butch appearance implied: bass especially sounded rather wishywashy with the bigger speakers, and the treble sounded safe rather than being particularly revealing.

Conclusion

This is a great-looking and well-priced amplifier. It appears to offer the benefits of pre- and power amplifier sections, but in practice it is an integrated amplifier in two boxes. It is tempting to say that without some of the gimmicks — the outsize meters; the complex, two-box packaging — the designers' time would have been better concentrated on bottom-line performance. AG

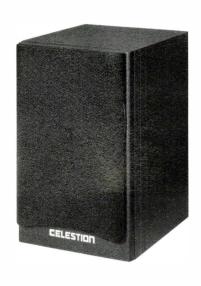
HOW IT COMPARES

DYNAMIC POWER OUTPUT 40% SPEAKER LOAD TOLERANCE 35% **AUDIBLE DISTORTION** 30% NOISE -40% SUSCEPTIBILITY TO RFI -40% 3 5

THE LAB REPORT

Huge, illuminated meters are all well and good, but how accurate are they? At low frequencies they're almost spot-on, registering precisely 100W when 100W is being developed into an 8 Ohm test load at 20Hz. But at higher midband frequencies the meter ballistics are poor, and read halfway between 100-200W when the amp reaches its true clip point of 102W/8 Ohms. Let's be realistic: multimeters accurate in the kHz range are not ten-a-penny, and so are hardly likely to succeed as decoration on a mass-market hi-fi power amp. More funds have been dumped into the amplifier's power supply which has a 17A current reserve and is capable of delivering dynamic cutputs of 120W, 233W and 332W into 8, 4 and 2 Ohm loads, respectively.

Otherwise, the SU-A900DII behaves like a slightly more powerful version of Audiolab's 8000LX, with a low 0.0012 per cent midband distortion increasing to 0.03 per cent at the treble extremes. Volume channel tracking is superior, but, conversely, its overall S/N ratio is poorer at 81.5dB. As, I might add, is its susceptibility to RFI, with breaks between 1-5MHz and, unusually, as far up the band as 750-900MHz — this is getting close to satellite baseband frequencies! Another safe but relatively uninspiring amplifier. PMi



and emotional depth.

"The coherence is extraordinary," Peter J Comeau remarks. "That each note is so well defined is remarkable for a speaker of this class."

Peter concludes "When you close your eyes, they (the artists) might just as well be in the room with you."

That's the ultimate accolade for any speaker, irrespective of price.

At only £119, no wonder he couldn't believe his ears.

Nothing prepares you for the sound of this new model. Ask listeners to guess the price, I guarantee an answer closer to £500 than the spare change you have to sprinkle on the counter to own a pair.

...At only £119, no wonder he couldn't believe his ears.

The 12i is available at:

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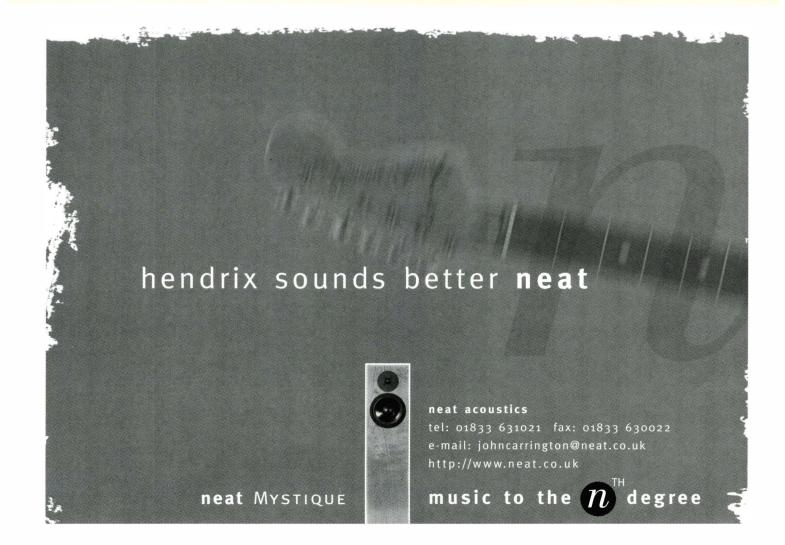
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Alchemist Kraken APD6A

The latest version of the long-running Kraken stays true to the distinctive Alchemist house style, but thanks to the use of an outboard power supply, it is contained within an unusually compact case only 320mm wide. It ranks with the AVI as the smallest amp in this month's group. It is not an amplifier you would want to leave powered up for extended periods, as it runs very hot. The maker states that the case will reach about 55°C when idling at an ambient temperature of 24°C.

The casework is *très* Darth Vader, with dramatic curves, various colours including brushed aluminium, black and gold, blue LEDs — but too many sharp edges and protruding screws for my comfort. The volume control is rather stiff, and the panel graphics are not easy to read under low lighting. However, separate Listen and Record selectors provide useful off-tape monitoring facilities. There are three line inputs, two tape circuits and a moving-magnet phono input.

In electrical terms it appears to be a pretty simple design. In an external box, Alchemist claims, are dual-mono power supplies based on twin 250VA transformers. These are said to drive a bridge rectifier on



each channel of the main circuit board, leading to claimed power outputs of 'greater than' 55 Watts, (1kHz, eight Ohms), rising to 75 Watts into four Ohms. Another claim is gentle transition into the output devices' clipping region. The latter are said to run at an unusually highly-biased Class A setting, which explains the prodigious heat output. A preamp output offers upgrade opportunities. According to the literature, the front end is a normal differential input feeding a single-

Sound quality

ended Class A driver stage.

The Kraken is a bit of a lush, with a warm, sensuous and relaxed delivery at moderate volume levels. However, the nature of its sound did not remain as consistent as some rivals when the volume level increased, or when different speakers were used. Perhaps understandably, it sounded out of its depth with the big Tannoy D900s — other contenders drove them with greater aplomb.

All panel members noted a sense of softness in this amp's sound. "It's quite dynamic with good bass — slightly soft, though," wrote one. Another talked of a "cloudy" sound and a "restrained" quality, though again there was praise for the Kraken's

1 DYNAMIC POWER OUTPUT

dynamic midband performance.

More damningly, one listener described the Kraken as having a "soggy" bass, and of not being very "refined or precise". He also felt that the Alchemist "lacked authority" — in fact, each of this panellist's comments closely mirrored my own independent conclusions. There was nothing offensive about this amplifier, and many listeners, with sympathetic systems, might welcome its almost valve-like euphony. It was harder to accept a fundamental 'lack of grip', and inconsistency with different loudspeakers.

Conclusion

It would be unfair to criticise a product for failing to be what it was never intended to be. To describe the Kraken as smooth and rounded is simply to confirm Alchemist's own design goals. Nevertheless, because the Kraken is so system-dependent, and inconsistent in its performance at different volume levels — stereo perspectives seemed to shift, especially with regard to image 'depth' — we will not be able to Recommend it on this occasion. AG

Visit Gur Web Site: www.hif

THE LAB REPORT

Alchemist's fire-breathing Kraken was last tested five years ago, when it graced the cover of issue 116 (it seems like yesterday). Today's version has a slightly higher 5.5A reserve of current, though this is still insufficient to prevent a collapse in dynamic power from 90W into 4 0hms to 56W into 2 0hms and just 24W into 1 0hm. A continuous 54W is available into 8 0hms at 1kHz; yet, as before, power output is limited by slewing at HF rather than genuine clipping, where distortion creeps beyond 1 per cent at 18W/20kHz/8 0hms. High sensitivity, 8 0hm speakers are a must.

Noise remains high at -74dB (re. 1W/8 Ohms), RFI susceptibility is very poor (1-200MHz), and the DC offset (like the case temperature) is way too high at $+98\,\text{mV}$. However, a superior volume control has eliminated the earlier tracking errors — important, because the Kraken is very sensitive at just 14mV for 1W/8 Ohm. Distortion increases from 0.12 to 0.22 per cent (re. 1W/8 Ohm) at high frequencies as the Kraken heats up, though the nature of this distortion also shifts from 2nd/3rd harmonic to pure 2nd harmonic. More remarkably, its frequency response also changes with temperature so that the -0.7dB drop at 20kHz increases to -1.3dB after an hour, then settles at -0.6dB after several hours. And it's this hot-headed behaviour that lies behind the shifting results of Alvin's blind listening test. ρMh

SPEAKER LOAD TOLERANCE -70% AUDIBLE DISTORTION -40% NOISE -55% SUSCEPTIBILITY TO RFI -90% 1 2 AUDIBLE DISTORTION -40% AUDIBLE DISTORTION -40

HOW IT COMPARES

HI-FI CHOICE FEBRUARY 1998 71



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The B-100mkII is a straightforward development of the original Beat B-100, which was Recommended in HFC 162. Before that we bestowed the same honour in HFC 154. The mkll's internal differences are not radical, but they do include a completely redesigned main circuit board (which has a higher proportion than before of surfacemount components) and an improved power supply. The fundamental circuit topology remains unchanged, so still involves a passive preamplifier section, no overall feedback and only minimal local feedback. There is a specified power output of 60 Watts per channel into eight Ohms (100 Watts into four Ohms).

Other claimed vital statistics include a 360VA transformer and 40,000µF of reservoir capacitance, and two separate power



supplies per channel. The B-100mkll weighs in at an impressive 9.6kg.

Home recordists beware: there is no tape monitor button, though there is a tape input. The maker justifies the omission by arguing that the tape loop should be isolated from the main signal path to avoid degrading sound quality. The amplifier looks good, but the cosmetic quality of the knobs is a little inconsistent, and sharp box corners could catch the skin during careless handling.

Sound quality

This is a 'wide bandwidth' design, according to Densen. In issue 154 we cited a claimed frequency response of 2Hz to 200kHz — too wide, in our Tech Ed's estimation. Could the latter be linked to our discovery in issue 162 of the Beat's susceptibility to radio-frequency interference (RFI)?

Input 1 is wired differently to permit fitting of the phono board — best line-level sound quality will be obtained via the others. Input 2 served for most of the test work.

It sounds like a pun, but isn't: the Beat understands how to rock'n'roll. The listening panel didn't get to hear it through different loudspeakers, and were not privy to the amp's ability to scale its performance to the character of the speakers. Dynamics and rhythmic timing are the Beat's strong suit, and it performed tirelessly into all of the test loudspeakers, even the massive Tannoy D900s with the volume cranked up high. It just

Curiously, the least fortuitous partnering was with the smaller Tannoys used for the panel test: perhaps this is because the areas in which the Beat excels are at odds with those of the speaker. Its dynamic qualities were markedly inconsistent, but there was some consensus that the amplifier sounded dry, even cold, and that sound didn't always 'breathe' naturally. There was also considerable agreement that this amp was detailed, tight and well projected.

Conclusion

seemed in control.

Not the most sophisticated sound on earth, then, but in its elemental way, this is an unusually punchy, detailed performer which took control of some really quite difficult loudspeakers. You'll need to take care with system matching — don't hook up to bright speakers with nasty metal domes — but that caveat out of the way, a Recommended flag is otherwise mandatory. AG

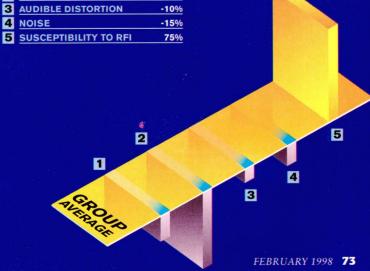
THE LAB REPORT

Having been previously evaluated as recently as issues 154 and 162, the Densen BEAT B-100 looks to have been progressively modified during its life in production, though its appearance and manual remain unchanged. Is Densen offering upgrades or trade-ins? I do hope so.

On this occasion I noted a shift from the previously flat response to a marked treble roll-off amounting to -1.5dB at 20kHz. Noise has increased by a substantial 8dB or so, potentially submerging the effects of its RF susceptibility discussed in issue 162. The input loading remains very low at 9.5kOhms but any parallel capacitance has also been held in check, despite the amp's CE compliance. For whatever reason, the B-100's susceptibility to RF is now markedly reduced from before.

The 'latest' B-100 is no more powerful at 66W/8 Ohms. And more importantly, it is just as intolerant of difficult speaker loads. Its dynamic output reaches 77W and 145W into 8 and 4 Ohm loads, but falls back to 117W and just 38W into 2 and 1 Ohm loads respectively, thanks to some over-zealous electronic protection and a very high 0.27 Ohm output impedance. There's the same extended spray of distortion harmonics amounting to 0.13-0.45 per cent at two-thirds power, and the amplifier's DC offset has sneaked back up to >45mV. Will the 'real' B-100 please stand up? PMI

HOW IT COMPARES 1 DYNAMIC POWER OUTPUT SPEAKER LOAD TOLERANCE -60%



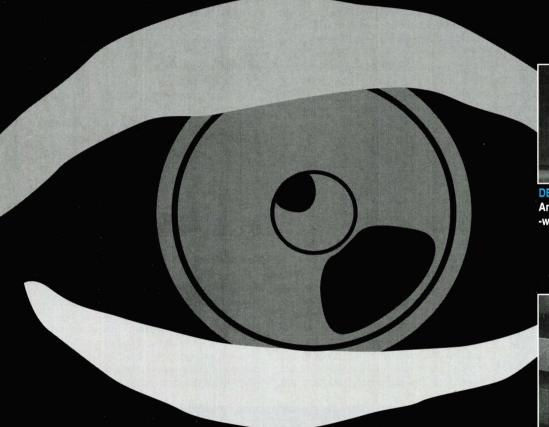


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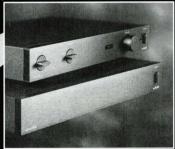




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Musical Fidelity X-PRE/X-A50

which the X-PRE and X-A50 are drawn, includes a number of purpose-specific modular hi-fi components. JK reviewed the X-PRE preamp in *HFC* 166, while SV tackled the X-A50 power amplifier monoblok in *HFC* 169. On the latter's outing we clocked power output at 65 Watts continuous into eight Ohms. It uses a quasicomplementary bipolar output stage, with paralleled sockets to permit daisy-chaining into other monobloks and therefore biamplification.

The X-PRE claims to be a Class A, single-ended-triode design based on KT-88 valves. That would make it about as purist a product as they come, though there is no external indication at all that the X-PRE is tube-powered. There are four line inputs and a volume control (both nail-breakingly small and fiddly) and no tape circuit. It hooks up to the mains via a plug-top transformer.

By way of interconnects we deployed M-F's own X-LINX wires (£40 per pair).

Sound quality

The combination registered an indifferent average score across two presentations to our panel, with the hands-on listening ses-



sions suggesting that the preamp's power supply was a significant drag on system performance, preventing the X-PRE from 'breathing' freely with recorded dynamics. Among other effects, this reduced perceived stereo separation. The £130 X-PSU power supply, though not officially part of the test, did enhance performance, limiting the perception that musical detail was being homogenised. There was more space and 'air' to the sound, and tighter bass.

The following panel comments, however, refer to the preamp's performance with the plugtop PSU. One common observation was of a "refined, spacious... yet slightly hard quality in the Mozart Wind Serenade" (referring to the upper registers). But there was a persistent complaint that the sound was rather soft in the lowest octaves — one listener even described the bass as "cardboard-like". There were occasional moans of lacking definition, and one listener speculatively wrote that the combination had a "Class A valve-like" quality. A particularly perceptive comment: the preamplifier does tend to dominate the mix, especially with the supplied power supply.

My own listening confirmed an impression that the rather warm, distant balance of the Tannoy D500s was not ideally matched to this combination. The X-PRE/X-A50 rig really comes into its own with big, clean, dynamic speakers, especially the Definitive Technology BP2002 and Mirage OM-6 (both lively, engaging transducers), and even the big Tannoy Definition D900s. The latter sounded surprisingly grown-up



Conclusion

The build quality of these components is excellent; their configuration most flexible. The three-strong assemblage may be expanded in numerous directions as desired, for example by adding an improved power supply, tone controls, or a phono stage. Simplicity and value for money are its principal assets, however.

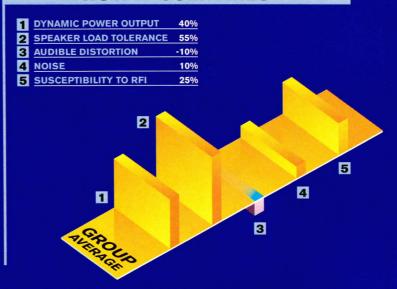
Taking this into account, and allowing for the effect on panel-test results of an unfavourable loudspeaker, Musical Fidelity's trio earns a Recommended tag. That snazzy little support bracket in the photo costs just £30 extra, by the way! AG

THE LAB REPORT

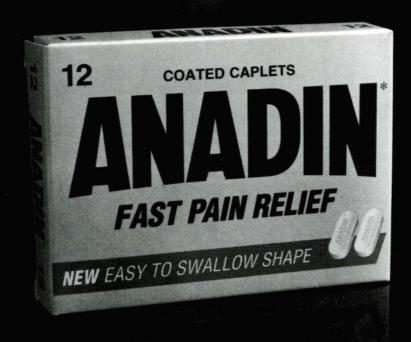
For whatever reason, this latest sample of MF's X-A50 is not quite the gutwrenching powerhouse we witnessed back in issue 169. Oddly enough, its continuous power rating has improved from 65W to 73W (8 Ohms) and 94W to 109W (4 Ohms) though it still falls to 55W/8 Ohms at 20kHz. Meanwhile, a drop in current reserve from 23.9A to 16.2A, and a 'softer' clipping behaviour, has reduced its dynamic output from 92W/180W/342W/571W to 104W/188W/285W/289W into 8/4/2 and 1 Ohm loads respectively. Not quite as stunning then, but still pretty amazing for a '50W' amplifier. As ever, the X-A50 should still prove very tolerant of difficult speakers!

The partnering X-PRE preamp offers a mere, but sensible, +6.5 dB gain, and even manages to hold its interchannel balance to within 0.2dB over a full 60dB range. The pattern of distortion is interesting because it almost precisely mimics that of the X-A50, with just 0.003 per cent through the midband rising to an equally insignificant 0.006 per cent at HF. It just goes to show that valve (triode) stages need not introduce vast swathes of harmonic distortion. RF susceptibility is another matter, however, with breaks at 1-10MHz and 350MHz. Some CD-player dependence could be experienced, but otherwise, the MF X-Series outfit is a compelling combination. PMI

HOW IT COMPARES



HI-FI CHOICE FEBRUARY 1998 75



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Myryad MI 120

his is the same Myrvad MI 120 that we reviewed in HFC 154, but in a number of respects its design has been modified. No changes are visible externally indeed there is not so much as a 'mark II' badge in sight.

Changes are claimed to include an improved mains transformer with reduced stray field, said to be particularly beneficial when used with the optional MC phono module. Furthermore, the maker says, enhanced filtering and upgraded rectifiers in the power supply have reduced 'HF hash'. Input coupling, decoupling and RF filter capacitors have been changed, allegedly, for selected high-speed types, likewise improved internal signal wiring.

The rest of the story runs as before. The passive preamp is built around an ALPs volume control, and handles up to four line inputs and two tape circuits, with source selection by relay. Tape monitoring, a headphone socket and preamplifier outputs are provided, the latter usable with the matching Myryad power amplifier. Unusually, the preamp feed is attenuated from the main output: this might seem like a roundabout approach, but it should ensure a strong





former has the added benefit of a Mute button. The amplifier can be left in Standby mode to keep critical circuits on song, and the power supply looks well endowed for its 60 Watts per channel (eight Ohms) power rating. IHF dynamic power is said to be 80 Watts/120 Watts/160 Watts (eight/four/two Ohms), illustrating the MI 120's substantial power reserves. (The lab test shows these are conservative ratings. -Ed.) A phono input is available as an option.

The amplifier incorporates heavy-gauge side panels, a 6.3mm-thick aluminium facia, and a unique aesthetic design which to these eyes is extremely attractive. The recessed aluminium volume control sports a protruding illuminated marker, without which it would be difficult to operate. Fit and finish are, in a word, exemplary.

Sound quality

There were indications that the new MI 120 really is a better amplifier. The rather coarse, grainy sound noticed before has been replaced by a much smoother, more detailed quality, with more substantial bass. But the amp did not receive a completely clean bill one of the two listening sessions:

there were complaints of midband compression, and even a suggestion of hiss according to one panellist. "It did nothing particularly well, but it lacks resolution," concluded another. The second day's presentation, however, engendered a more positive reaction, possibly because on this outing it followed a weaker model. Here it elicited such epithets as "accurate tonal colours", "well defined, especially the vocals" (Warnes) and "exciting... best so far".

Having tried this amplifier in various systems, I have found it a consistent performer, with a disciplined, fairly detailed quality, accurate tonality, but a hint of greyness and compression when stretched.

Conclusion

This is a good amplifier that stops just short of generating the electricity perceived from one or two designs in the same price band. Nevertheless, it is Recommended for its inherent clarity and musical manners, its strong features, excellent build and, on the basis of my tests with a number of loudspeakers, its even-handed consistency. AG

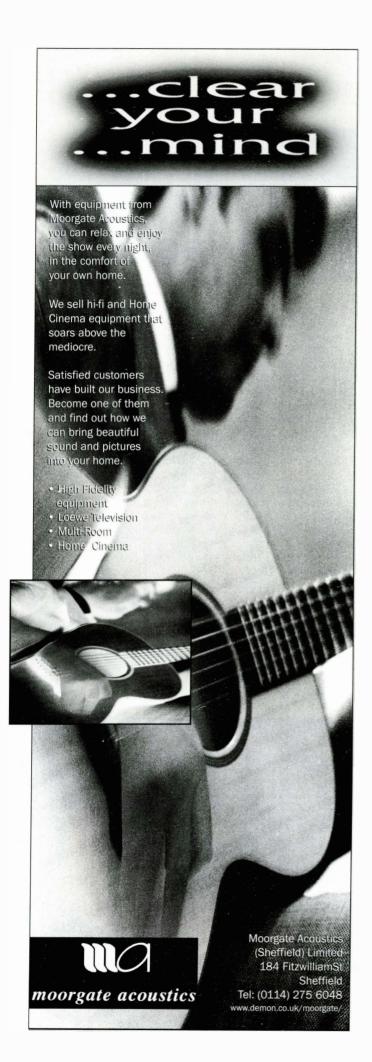
THE LAB REPORT

In this latest iteration of the Myryad amplifier, an enhanced power supply and internal wiring have been specified, though the repercussions are slightly mixed. Noise, for example, has been reduced by a healthy 2dB, bringing the S/N ratio up to an impressive 88.7dB (re. 1W/8 Ohms) and a whopping 103dB re. two-thirds output. All achieved, I might add, without unmasking any harsh-sounding RFI. Channel balance is also slightly improved, either through tighter tolerancing of the volume control or, alternatively, just plain good luck as far as this sample is concerned.

On the other hand, there's a fractionally lower power output, resulting in maximum current reduced from 20A to 17.3A. The original version managed 90/140W into 8/4 Ohms respectively; this latest iteration delivered 87/133W under the same conditions. Short-term output is increased to 110/192/293/329W into 8/4/2/1 Ohm loads, respectively, so the MI 120 remains as immune to the ravages of difficult speakers as ever. Like before, this is a tightly-controlled design capable of a highly 'regulated' and predictable performance. PMi

HOW IT COMPARES 1 DYNAMIC POWER OUTPUT 2 **SPEAKER LOAD TOLERANCE** 60% **AUDIBLE DISTORTION** 15% 60% NOISE 5 SUSCEPTIBILITY TO RFI 5 3

FEBRUARY 1998 **77 HI-FI CHOICE**



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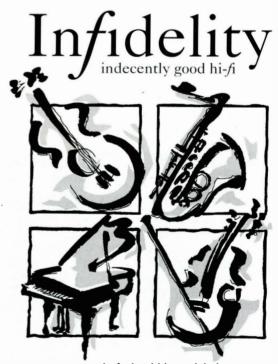
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Talk Electronics Storm 2

his is the bigger brother of the Storm 1 amp (HFC 162). Power output is claimed to be 65 Watts per channel into eight Ohms (we measured 54 Watts for the Storm 1), or 80 Watts into four Ohm loads (65 Watts for the Storm 1).

The makers report further that the amp tested here benefits from redesigned output protection, triggered only by near-short-circuit conditions. This should mean that the amp is happier driving difficult loads than early Storms. In the audio circuit and early power-amp gain stage, apparently, there are Field Effect Transistors (FETs); while in the outputs there are Metal Oxide Semiconductor FETs (MOSFETs). This implies a simple, inherent robust design reprising the Storm 1's circuit topology.

In other respects, trying to distinguish between the two Storm integrated amps is like trying to select snowballs in Siberia. The control scheme is minimalist: simple source selection — CD, tuner, auxiliary, AV and two tape circuits — are augmented by tape monitor and mute switches, all accessible from the remote control. In addition, there's a non-inverting preamp-level output. Finish is excellent; control layout is utterly individual.





Sound quality

Reprising the opinions engendered by the Storm 1 on its earlier outing, the Storm 2 achieved a strong and highly-consistent panel score. It worked at least moderately well in all key areas, and exhibited no obvious identifiable weaknesses. If it does have a particular strength, this would be the open, crystal-clear, yet airy midband, and its good timing. It's difficult to tell whether the Storm 2's extra power makes a lot of difference, but evidence from my own tests suggests this amp was less amenable to difficult loads and ultra-wide-bandwidth loudspeakers. In this instance the sound took on a shrill edge, and developed a plummy, overhung bass when pushed hard. There were also clear indications of power limiting at only modestly high volume levels.

this price and the basic version (£80).

Put these elements together and you begin to form an image of an amplifier that is a little circumscribed in some ways, and not really intended for heavy-duty, wide band-

is more than routinely communicative and musically engaging when punching inside its weight range.

"Bounces along with real gusto, good perspectives — and it reproduces tonal colour well, too," remarked one of the Mozart Wind Serenade test piece. Another chose to comment on "good dynamics", and a "vigorous, powerful and fast sound" in the Afro Celt track, with mild criticisms from some panellists of a slightly two-dimensional, rather matter-of-fact quality. Considered together, these comments might suggest the presence of some harmonic distortion residues.

Conclusion

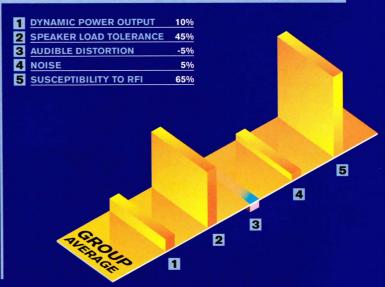
While I would fight shy of attempting to induce too many links between Talk Electronics Storm 1's and 2's similarity in sonic character (and, apparently, in power yield), I have no absolutely qualms about Recommending the latter, which is well balanced, and accurately attuned to the attributes of mainstream source components and speakers at similar prices. AG

THE LAB REPORT

Over the past year Talk Electronics has improved the frequency response, power output and load tolerance of all its amplifiers. This is evidenced unequivocally by the Storm 2, which is significantly more capable of tackling 'real world' speakers than the cheaper Storm 1 (HFC 162). Indeed, the Storm 2 bears far greater resemblance to the general design and performance of the latest (uprated) version of the Tornado 2 power amplifier (originally reviewed in issue 165). Output is now up to 70W into 8 Ohms and 99W into 4 Ohms, with a short-term delivery of 96W/155W/212W/223W into 8, 4, 2 and 1 Ohm loads, respectively. This blows the old Storm 1 into the weeds and, along with a commensurate drop in output impedance, ensures the '2 will perform very much more consistently and reliably with a wider variety of loudspeakers.

Some old foibles remain to haunt the '2, however, such as the jump in distortion from 0.01 (midband) to 0.22 per cent (high treble), though this now remains consistent with power output. The 68 kOhm input load will prove a doddle for all CD players, though the 4V overload limit is only +6dB above the notional 2V standard. 99 per cent of the time, however, the latest Storm 2 should offer a 100 per cent improvement in performance over its forebears. PMI

HOW IT COMPARES



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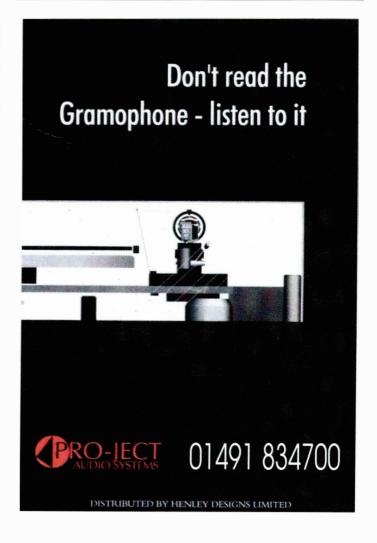
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AVI S2000MI

ccording to AVI, this amplifier is particularly appealing to women, on the grounds that it is small and sports no protruding controls. Personally, I wonder if it is not a little patronising to suggest that women don't like amplifiers which look like amplifiers. In the meantime, you can use AVI's claim to offset my personal view that the AVI styling job is heavy handed. The control panel probably has its fans, but I found the stepped-ladder volume control (with its low-res thermometertype level display) awkward and uninformative; and to me the front panel seems to pay scant attention to real-life ergonomic requirements. But I probably got this wrong too, and there is no denying the AVI's good build-quality and finish.

Four inputs and a single tape circuit are provided, with volume and mute switching available, but no balance control or headphone feed. Just the basic connections populate the back panel. The remote control handset, which is well laid out and clear, can be used to control a complete system.

Internally the amplifier appears to be a fairly simple design, with a passive preamplifier section and cool-running bipolar out-





ply rail; the other, the positive rail. Other highlights include a motorised volume control and reed-relay source switching, and the amplifier is said to have an above-average ability to drive real-life loudspeakers. Power output (which is not synonymous with loudspeaker driving ability) is claimed to be 100 Watts into eight Ohms, and 144 Watts into four Ohms. See Lab Test for our figures.

Sound quality

It may not be a looker, but it steamed along nicely on test, scoring a good average across two sessions, and pleasing the panel with its well-focused midband, strong sense of detail and good timing. More generally, the S2000MI is an amplifier that works well with a wide range of speakers, sounding confident and in command with each. Some might find this amplifier a bit clinical and dry, and one panel member felt that the AVI was coloured and chesty, and "struggling on bravely even though she's got a blocked nose" (Warnes). Valve-like it ain't.

Other comments were more positive. The Handel piano piece was felt by one listener to have "real sparkle", while another wrote of "good detail", and of how the "notes linger and decay in a lifelike way," This was echoed by others. The Afro Celt track was "very detailed, fast and smooth, with good timing," or "rhythmic and powerful." Sporadic criticisms concerned some upper bass excess.

Conclusion

HOW IT COMPARES

The styling job is ultimately a matter of taste, but the compact packaging is a boon, and musically the S2000MI runs away with the honours. This is a clean and attractive amplifier, and one that worked well with a variety of speakers. It has been in production for some years, and my dealer contacts praise it for reliability. (It is often specified for multi-room systems, where this quality is vital.) Strongly Recommended. AG

THE LAB REPORT

AVI has a reputation for top-notch engineering, and in this instance seems to have striven to deliver as wide an S/N ratio as humanly possible. Subjectively, of course, there are no hard and fast rules. A Naim Nait 3 has a poor S/N ratio, while a typical Orelle or Marantz amplifier will enjoy anything up to 15dB less noise, yet all three amplifiers 'get away with it' on the basis of a subjective airing. AVI's S2000MI has an S/N ratio that's even wider (7dB or so greater, in fact), leading to a final figure of 95.2dB for 1W/8 Ohms. This is ground-breaking stuff, and sufficiently unusual for me to check and re-check the result several times over! At two-thirds output, the S/N ratio reaches an incredible 110dB. Nevertheless, this 'wide open window' also provides ample opportunity for some less desirable distortions RF IMD in particular — to sail through unhindered. Fortunately, the S2000MI proves fundamentally insensitive to RFI.

It's also unfazed by the demands of different loudspeakers, providing bursts of 133/236/316W and 327W into 8, 4, 2 and 1 Ohm loads (increasing to 18.7A over 5msec/1 Ohm = 350W). This, combined with its flat response and low 0.03 Ohm output impedance, ensures the S2000MI is ideally suited to the unusually low sensitivity of its own marque's matching loudspeaker, the Positron (see Jan '98 issue). PMi

DYNAMIC POWER OUTPUT 2 SPEAKER LOAD TOLERANCE 3 **AUDIBLE DISTORTION** 54% 64% 4 NOISE 55% **5** SUSCEPTIBILITY TO RFI 5 4 3 2

1

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Bryston B-60

Coosoo

here is nothing glamorous about the B-60. It is a domestic

amp from a company that supplies professionals, and it has stark good looks. However, it is distinguished principally

by an ultra-slimline faceplate (height barely 1.75in) and tank-like build quality (backed with a 20-year guarantee). Claimed power outputs are 60/100 Watts per channel into eight/four Ohms respectively.

Features include source selection for four line inputs, plus tape, volume and balance controls, a tape monitor switch and headphone socket. A processor loop, too.

The B-60 is available with or without remote handset — a simple device offering volume control (via motorised potentiometer in the amp) and full mute. The remote is an elaborately engineered, heavy and rather blocky design, designed to add prestige. Its presence adds £187 to the bottom line.

The circuits within involve the services of completely independent toroidal transformers, one for each channel. This decision may have been driven by the inability to accommodate a single fatter toroid; the maker



would probably regard that as putting the cart before the horse. Plus there are individually-regulated power supplies for all voltage-gain stages, and claimed unconditional stability for loads of four Ohms or above. Line inputs are said to offer 50 kOhms input impedance, making them easy to drive; though the tape circuit, we're told, is set at 10 kOhms in and out.

Sound quality

The B-60 opened to some rave reviews in the US press. I was certainly very impressed when I visited the Bryston factory near Toronto in Canada, to find a conservative, workmanlike atmosphere and the kind of long-term approach to design and manufacturing that used to be the sole preserve of venerable companies like Quad. I would not be at all surprised if the B60 was still around, essentially unaltered, in 20 years' time, although I doubt this will be as a result of UK sales, given that the UK price is about double that in Canada.

The panel members simply scored by what their ears told them, which was 'average' and no more. Although the character of the comments was by no means damning, there was a degree of damning with faint praise, as in the consistently repeated comment that the amp offered "homogenised

treble". One rather extreme

comment wrote off the B-60 as "two dimensional, one-note and uninvolving" (Mozart), while another described it as "muddy, boxy and confused" (Warnes). My notes repeat a number of points made by the panel, including more positive ones in which the Bryston's smoothness, midband timing and image depth were praised.

However, the loss of clarity in extreme treble, and ungainliness in the deep bass, are artefacts hard to refute, even with speakers more obviously suited to the B-60's laidback temperament. There was plenty of power on hand, though, and this unit did strike up an affinity with fellow Canuck the Mirage OM-6, which is a sharp, articulate bipolar with active bass.

Conclusion

UK pricing definitely acts against this amplifier's best interests, but despite the short-comings noted at the frequency extremes, the Bryston has an honest and capable midband, and plenty of poke — and let's not forget that extraordinary 20-year guarantee. These things excuse much, and the B-60 is at least built to last. AG

at least built to

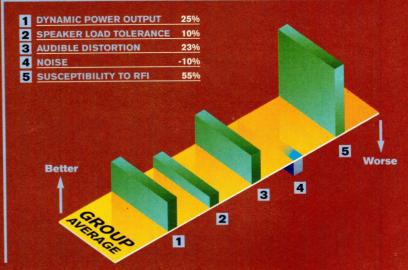
THE LAB REPORT

Do not be deceived by appearances, for though the B-60 is slim, it's also a very tough cookie. Though it'll sustain just 70W under continuous conditions, the B-60 has a substantial *dynamic* headroom in excess of +2dB, which is just as well, because when it runs out of puff the B-60 clips very abruptly indeed. As a result, it is capable of delivering 115W, 193W and 299W under dynamic conditions into 8, 4 and 2 0hm loads respectively. Only then does its resolve weaken with a drop to 259W into 1 0hm (equivalent to 15.4A over 10msec or 16A over 5msec at less than 1 per cent THD). Combine this healthy output with its utterly flat response and low 0.02 0hm source impedance, and the B-60 should perform very consistently with a wide variety of loudspeakers.

Of course, compact high-power amplifiers do not run this cool unless they are very efficient, which typically means Class B operation. In this instance we see a decrease in crossover-like distortions of around 4-5dB as the amplifier is cranked up. Nevertheless, with THD typically hovering around the 0.01 per cent region, distortion is hardly an issue of great importance. Nevertheless, I could well imagine the B-60R being criticised subjectively for sounding a little too 'colourless'! PMi

HI-FI CHOICE

HOW IT COMPARES



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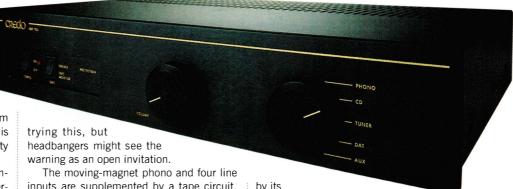
ON TEST: AMPLIFIERS (ABOVE £758)

Credo IMP 702

he Credo IMP702 is designed for function, not form. It is a four-square design with a certain hair-shirt appeal, but the rocker switches are positively antediluvian — perhaps Rolls-Royce buys from the same supplier. The plasticky volume and input-selector rotaries have shallow, bevelled edges, making them difficult to handle; but rear-panel furniture is more impressive, and internal build quality appears to be good.

The importer, Townshend Audio, confirms that the Credo is 'deliberately understated', and that the designer's brief was to produce an amplifier capable of delivering plenty of current into just about any real-life load; but not for sustained, high-level power delivery. The logic, of course, is that real music has only short-duration high-level crescendos, but this in turn implies that compressed rock and pop music will not be the Credo's best friend. Rated power output is 70 Watts into eight Ohms, a figure said to double into four Ohms. I noticed that it makes threatening noises at full gain with an unloaded input, which could mean incipient instability. The instructions warn against





inputs are supplemented by a tape circuit, with front-panel features limited to volume, source-selection and a tape-monitor switch. There is neither balance control nor headphone socket.

Sound quality

With one exception, the panel made appreciative noises about this amplifier, though when it came to awarding points, they were a little restrained, and the Credo scored relatively modestly. The nonconformist panel member felt the Credo was "mundane", with a "compressed midrange" (Afro Celt), and a lack of "openness" with vocals (Jennifer Warnes). More typical was the following, also referring to the Afro Celt piece: "Decent drum tone; fast bass; hangs together rhythmically, encouraging further listening". The Handel was praised for sounding "relaxed, yet lively, with good timing". The Jennifer Warnes track offered "the best vocal reproduction of the group so far... very sweet, defined and musical, with an excellent bass and good image depth." You get the picture.

After using the Credo with more loudspeakers and source material, I found myself impressed by its capabilities and infuriated

by its

inconsistencies. The volume control favours the early part of its travel, making it difficult to achieve proper channel balance. Musically, it is a rather black and white device. It is sharp and articulate, but also somewhat unforgiving, and even mildly suspect source material can be made to sound hard and grainy. Though with the best-recorded music and appropriate speakers (avoid spitty metal domes, for example) the Credo simply sounded very much alive. This is not, however, an amplifier for the big Tannoy D900s, and in general it doesn't like to be stressed too hard, not because it won't go loud, but because it hardens up and can even become quite steely at high volumes.

Conclusion

Definitely a 'try before you buy' design, and one that undoubtedly prefers the company of high-resolution, well-controlled peripherals. A formal Recommendation was rejected finally on the grounds that the Credo's idiosyncrasies make it a less-than-safe purchase unless you really know what you're doing. But it's definitely worth auditioning in a suitably synergistic system. AG

HOW IT COMPARES DYNAMIC POWER OUTPUT SPEAKER LOAD TOLERANCE 3 **AUDIBLE DISTORTION** 4 NOISE SUSCEPTIBILITY TO RFI 4 3 5 2 Worse Better

THE LAB REPORT

This amp displayed an apparent manufacturing date of 15/05/95, but the time elapsed since then and this test must have been a sabbatical, because the amp's dynamic output seems perfectly strong at 108W and 133W into 8 and 4 Ohm loads respectively. It falls back to 113W (<1 per cent THD) and 65W (<2 per cent THD) into lower 2 and 1 Ohm loads as levels of distortion gradually creep upwards. This is a consequence of a design where even at 1W/8 Ohms, distortion increases from 0.06 per cent through the midrange to over 1 per cent through the extreme treble. Its maximum 8.3A/5msec current delivery is meagre for an amplifier rated at 70W, though its output impedance is low at 0.05 Ohms. Easy-to-moderate-impedance loudspeakers should not prove a problem.

At just 15mV for 1W/8 Ohms, the 702 is also a very sensitive amplifier, so you'll be limited to the bottom end of its volume control when listening to modern, high-output line-sources like CD. Noise is gratifyingly low at -84dB (re. 1W/8 Ohms) but you could experience channel errors of between 0.5-1dB (up to 2dB at -60dB). The DC offset was also very high at 78mV on one channel of this sample. However you look at it, the IMP 702 is a very 'colourful' amplifier! PMI



WHAT HI-FI MAGAZINE
HAS GIVEN ITS TOP
AWARDS TO SONY FOR THREE
YEARS IN A ROW.
(THIS IS NOT A QUESTION.)

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





Electrocompaniet ECI-2

ELECTROCOMPANIET

The ECI-2 is in direct line of descent from the original (and famously unreliable) Two Channel Audio Amplifier of the '70s. The current, much-evolved model is rated at 50 Watts into eight Ohms, 90 Watts into four Ohms and 150 Watts into two Ohms. It has four line inputs, a single set of speaker outputs, an external processor loop (with read-

puts, an external processor loop (with readily-detachable wire U links) and a preamplifier output. A gain switch is provided to give easier volume setting and improved channel balance at low volume levels, but there is no centre detent on the balance control, and no tape-monitor loop. The amplifier is well built, the stand-out feature being the blackened Perspex front panel and gold-finished control knobs. Tiny blue LEDs on each one show that the power is on.

One amplifier topology graces the entire range of Electrocompaniet integrated, pre and power amps. The input section is described as a 'transconductance' amplifier, and claims to have no overall feedback. The output block, described as a transresistive amplifier with feedback, has bandwidth limitations designed to prevent TIM (Transient Intermodulation Distortion) and related



readmpligive distortions, and again
loop (local) rather than overall feedis no back. The power supply appears to use a
large (575VA) transformer, fast rectifiers and
well small electrolytics with parallel-connected

recovery from transient surges.

Sound quality

The ECI-2 scored encouragingly, and more to the point, attracted consistent comments all round. This author's own findings echoed those of the panel. This is an energetic, full and weighty performer capable of high sound pressure levels, with solid dynamics and large — sometimes excessive — imagery. The treble, by contrast, was slightly recessed with the panel test speakers; less so with others. There is a sharp edge to the treble, amounting at times to a suggestion of fizziness, which with some material led to a rather grainy result.

bypass caps. This, allegedly, permits quick

Overall this is a fine amplifier, a little slow according to two panel members, but the bass is tuneful, deep and well controlled, which invests the music with a sense of solidity and substance lacking in some other amplifiers. "Good atmosphere, and sound-staging is good," wrote one of the piano test piece. "The instrument has a real sense of

scale". The Jennifer

Warnes track was praised for its "well-separated vocal," and, more generally, for its "open, full" quality.

This particular sample has been around for a while, and survived a change in UK distributor a few months ago. Although it sounds a little less fresh and consistent than I remember of an earlier sample, the basic qualities of the original are still present. This design has some significant sonic limitations, but they are not fundamental to the musical integrity of the design. Uppermost in a cauldron of impressions lies that of an amp which retains the feel and character of real players, performing on real instruments in real acoustics.

Conclusion

Nothing if not big, bold and interesting, the Electrocompaniet ECI-2 has a degree of musical integrity which more than offsets its occasional lack of manners. This is, however, an audiophile design, so don't expect to be able to play games on its control set, and never listen in anger until it has been warmed up and run in for a few days. AG

HOW IT COMPARES 1 DYNAMIC POWER OUTPUT -50% 2 SPEAKER LOAD TOLERANCE 30% 3 AUDIBLE DISTORTION -18% 4 NOISE 5% 5 SUSCEPTIBILITY TO RFI 55% Better 1 4

THE LAB REPORT

Described as a 'high current' integrated amplifier, the ECI-2 comfortably exceeds its 50W specification through the midband with a continuous 8 0hm output of 66W. There is a shortfall in bass, however, amounting to -2.6dB at 20Hz, where the maximum output is just 49W. Distortion is just over Electro's 0.001 per cent spec at 0.002 per cent (1kHz/8 0hms/1W) but then this also increases to 0.06 per cent with increasing output and frequency (where there's less compensation at work). The company's claim of a >45Amp 'max peak current' is very vague, much like harman/kardon's claims for its HCC (High Instantaneous Current Capacity).

In practice, as the amplifier is asked to drive more taxing loads, VI limiting rears its head and prompts an early increase in THD. This reaches 1 per cent at a point where the dynamic power output into 2 and 1 0hm loads is almost precisely 250W (or 15.1A over 10msec at <1 per cent THD). Into easier 8 and 4 0hm speakers, the dynamic output is 84W and 154W respectively. Otherwise, noise is very low at –87.2dB (re. 1W/8 0hms), input loading satisfactory at 20 k0hms and its immunity to RFI very good indeed. So, overall, the ECI-2 looks solid enough, even if Electro should be more precise in its specification. PMI



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

> It's not that difficult to remember the names of these five star CD players. They're all preceded by the same four letters. S.O.N.Y.



Magnum Class A SE

t may come as a surprise to some when they discover how hot this amplifier runs. There is a deep top-plate heat sink, which is a clearly capable device, but it doesn't prevent this unit from cooking some.

A number of refinements have been visited on the Class A to make this SE version. Upgraded components are said to include Vishay bulk foil and Holco Precision caps in the feedback paths, affixed with silver solder. There are some external identifiers, including a blue LED. Wot, no SE label?

The rest of the technical story is of a basic circuit from the Magnum cupboard, using Hitachi MOSFETs with jacked-up bias. Apparently this is an enriched Class AB amplifier that is said to produce about 10 Watts or so in Class A, and up to 80 Watts or so in Class AB (both eight Ohms). The power amplifier is, apparently, driven by separate stabilised power supplies for each channel, each with its own separate transformer windings, bridge rectifier and reservoir. The preamplifier has its own similar power supply, and claims to feature the shortest practical signal paths and reed-relay input switching. One consequence of all this is a back-breaking weight of 15.5kg.

The control set includes separate record





In addition to the enriched bias output, there is a touch of high-frequency response tailoring, notionally outside the audio band. The combination of these two features is meant to endow the Class A with the aural character of valve amplification.

Sound quality

The panel gave this one a thumbs-up. All listeners were agreed on the basics, namely a rich and well-extended bass, "and a clean and dry, even clinical mid/treble", and "excellent low-frequency extension and control, with good differentiation on percussion," as one wrote following the Afro Celt track. Another, discussing the same track, wrote of "fast tempi, with a dry presentation and a slightly soft, but well-extended bass".

A third commented: "tight and musical, very dry sounding. Very 'spicy', with a firm grip on the music and a fine ambience". Clearly all listeners were singing from the

My own listening with other speakers gave slightly different results. My notes describe the Magnum as coloured with some of the source material, and that the overall feel was rather dark and close, lacking air and space. Background noise levels often seemed more intrusive than expected, though the impression was more subliminal

Conclusion

than obvious.

The declared aim was to produce a MOSFET amplifier with valve-like attributes, and Magnum has succeeded on a much deeper level than usual. The amplifier's tonality is inescapably valve-like, yet its information-retrieval abilities are greatly superior to the usual character stereotypes one assigns to valves. However, the amplifier also shows clear signs of variation in its performance with different types of loudspeaker, and I couldn't replicate the panel results with all the test enclosures. 46

HOW IT COMPARES 1 DYNAMIC POWER OUTPUT 5% SPEAKER LOAD TOLERANCE 60% 3 AUDIBLE DISTORTION -25% 4 NOISE -45% 5 SUSCEPTIBILITY TO RFI -5% Better Better 2 3 4

THE LAB REPORT

Appearances are deceptive, for though this behemoth looks just like the Magnum Class A reviewed five years ago in issue 116, this 'SE' version represents a marked improvement on that high-temperature MOSFET design of yesteryear. Power output has now increased substantially from 55/88W to 92/144W into 8/4 Ohm loads respectively, while holding up to a full 86W at 20kHz. The old model incurred a severe slewing distortion at HF, which limited its output to around 4W at <1 per cent THD! Sure enough, even this new version incurs a big increase in 2nd harmonic distortion as the volume is cranked up and the amplifier runs from Class A into the more efficient but less linear Class AB. Nevertheless, a figure of 0.022 per cent through the midrange is now complemented by a perfectly satisfactory 0.1 per cent through the treble.

So the A-Class SE remains 'colourful' but not overwhelmingly so — even its response is a lot 'flatter'. For example, under dynamic conditions, the amplifier will deliver 111W into 8 Ohms at typically 0.02 per cent THD, rising to 201W/4 Ohms (0.04 per cent) 342W/2 Ohms (0.08 per cent) and 463W/1 Ohm at typically 0.2-0.25 per cent THD. This is equivalent to a speaker-crunching 20.5A reservoir of current. There's still some residual susceptibility to RFI around 200-300MHz, but otherwise the Class A has been given a new lease of life. PMI

his flagship one-box amplifier is fabulously built, and attractively presented in a pale champagne finish. Although of standard 440mm width, it is unusually tall (163mm). Its 475mm depth amounts to a good half meter once you've made the necessary allowance for cables. Not only big, but heavy too: 18.4kg is the reading on the scales. Despite these heavy-duty attributes, this is a minimalist design, with little that could be described as superfluous gadgetry.

The only controls are for volume, input selection and a gain-range setting. Low gain is recommended unless there is insufficient input to drive the system at the required volume. There is no balance control, no headphone feed, no off-tape monitor; but there is a remote control with source and volume switching. The only other front-panel decoration is a switch that determines whether any input is be fed to the tape output. The preferred setting is 'off', though I found its effect hard to identify consistently.

There are six inputs, including two tape circuits and a moving-magnet phono input. Rated power output is 80 Watts into eight Ohms and 120 Watts into four Ohms (DIN, 1 per cent THD, in the absence of a standard RMS figure).





Sound quality

This amplifier left the panel underwhelmed. There was a consistent feeling of it starting out well with the energetic Afro Celt track, but that it was all downhill from there on in, and little to engage the emotions or suffuse the spirit. A consistent thread running through the critiques was that the amp sounded detailed, but rather thin and small, and although this implies an amplifier with plenty of small detail resolution, there were other models in this group with comparable resolving power but which somehow seemed more in charge of proceedings. Somehow, we just couldn't shake the feeling that the Pioneer seemed to lack conviction.

centre of the base (shades of Mark

Levinson). There are some notable propri-

etary circuits, including the Version 5 itera-

tion of Pioneer's Wide Range Linear Circuit.

The overall panel test score was far from disastrous, but for an amplifier costing were slightly disappointing.

It was the Mozart and the Handel — music relying on a sense of discipline, proportion and fine control over dynamics and tonality - which suffered worst.

The A-07 did liven up a little when tested with other loudspeakers. With the Mirage OM-6, it sounded easy, generous and spacious, and even with the big Tannoy D900s it worked well, mostly due to the latter's generous and well-voiced bass/lower midband. The amp remained consistent tonally, dynamically and spatially as the volume was increased, even to very high levels, which makes the modest power rating seem more conservative than is sometimes the case.

Conclusion

HOW IT COMPARES

Here is another example of an amplifier that fails the consistency test. It only worked well in some combinations. At the end of the day, the Pioneer failed to convincingly improve upon other good amplifiers in this group, even when it was on best behaviour. AG

THE LAB REPORT

Regrettably, this A-07 has all the hallmarks of a very powerful, low distortion, highly 'controlled' design that, in the final analysis, is simply not particularly exciting. There's a current limit of around 15.2A which enables the amplifier to punch out short-term peaks of 122W, 215W, 292W and 255W into 8, 4, 2 and 1 Ohm loads respectively. But there is no obvious VI-limiting: the amplifier continues to provide a very low distortion output (typically <0.01 per cent) regardless of load condition or frequency until it reaches its 'end-stops' and clips very abruptly indeed. Pioneer specifies a damping factor of 350, which is well met at 371 while rating the A-07 at 80/120W continuous into 8/4 Ohms. In practice, it's possible to wrest 90/135W, respectively, into 8/4 Ohms.

All else is highly contained. Noise falls to -84.6dB (re. 1W/8 Ohms), the response is flat to within +0.0/-0.5dB limits from 20Hz-20kHz, while distortion collapses to as low as 0.001 per cent through the midband. A hint of RF susceptibility between 1-10MHz gives a clue to the true open-loop bandwidth of the amplifier and suggests some variability in performance might be encountered with different CD players. Otherwise, I cannot help but wonder if the A-O7 is too squeaky-clean for its own good (cf Audiolab, Technics and Myryad). PMI

1 DYNAMIC POWER OUTPUT 20% 2 SPEAKER LOAD TOLERANCE -15% 3 AUDIBLE DISTORTION 50% 4 NOISE -20% 5 SUSCEPTIBILITY TO RFI -20% 5 3 4

1

Conclusions

t is always a pleasure to review a group of hi-fi components in which there are some genuinely interesting models, and the sure-fire probability of some real talent. However, while many of these amps intrigued, only one was outstanding.

Observation and instinct suggest that European regulations relating to electronic equipment are beginning to have a real impact, but not always in the manner intended. Some designers have been taking the regulations seriously, learning how to reduce RF problems without spoiling the performance of their designs. Others have simply 'slugged' their amplifiers with capacitance to wipe out all high frequencies that might cause trouble, with predictable consequences. A third group appears to have simply ignored the regulations altogether. Surely, if we need these regulations they should be enforced; if not, why bother? There are reports that the strictures referring

to RFI are partly a matter of interpretation anyway: move a wire a quarter of an inch and the whole pattern of interference can change. The situation has become so farcical that in the trade, CE has become known as Caveat Emptor, and the result is that performance standards are often lower than two or three years ago, and there appears to be more model-to-model variation than ever. I am sure the Editor would welcome correspondence on this topic. AG

GROUP A (UP TO £500)

 Audio Analogue Puccini
 £450.00

 Audiolab 8000LX
 £469.90

 Technics SU-A900D II
 £499.95

The budget threesome in this test turned out to be an unusually interesting and varied collection. The **Technics SU-A900D II** is what might be described as a two-box integrated: its single power supply built into the power amplifier drives the preamp via a low-voltage wire link. The Technics was the only amplifier tested with tone controls, and it also boasts massive moving coil power meters, though the meter response doesn't appear to bear much relation to real-world power output. The Technics looks good

enough to eat, but it was a disappointing listen, with fudged leading edges and a generally lossy, rather soft-centred quality—though it never sounded unpleasant.

The new entry-level model from the **Audiolab** stable, the **8000LX**, is a real chip off the old block, with the usual immaculate presentation and well-sorted feature set (minus tone controls in this case) of the 8000S. Sadly, the LX doesn't have the precision and dynamics, and it sounds a little too safe to convince.

Technics SU-A900D II

For inspiration at a bargain price, look no further than the Audio Analogue Puccini. This amplifier is reasonably powerful, immaculately presented, cleverly equipped (it comes as standard with an MM/MC input, and standby switching incorporated into the volume

control), and has sharp, articulate musical manners. The pricing seems particularly keen, perhaps thanks to the strength of the pound relative to the Italian lira. Isn't it about time that other importers reappraised their pricing policies?

GROUP B (£501-£750)

Alchemist Kraken £579.00

Densen Beat B-100 mk II £649.99

Musical Fidelity X-Pre/X-A50 £739.97

Myryad MI-120 £599.95

Talk Electronics Storm 2 £649.95

The Alchemist Kraken is a midi-size amplifier with an outboard power supply. It is a likeably lush-sounding package, but it runs too hot, though the maker insists it is within legal limits. It impressed us with its laid-back quality, but failed to exert much grip with some speakers. If you like easy listening music, though, this could be the one.

The Myryad MI-120 has been here

before, but has been improved for this outing. The result is a clearly smoother and more euphonious amplifier than before, and one that seems more in command, though its basic character remains unaltered. The **Densen Beat** also had a repeat run: now it displays a controlled, dynamic and coherent character, but sometimes a machine-like quality, with suggestions of background hiss.

The **Talk Electronics Storm 2** is an upspec, higher-power derivative of the Storm 1. This is the one to go for: it gives every indication of being more powerful and in command of the situation, though it is no muscle amp. The **Musical Fidelity X-PRE/**

X-A50 is easily the most flexible amplifier tested: not just in its standard trim, but with the user's personal choice of 'X-Ponent' addons, which can include valve buffer stages, tone controls, outboard power supplies for the valve preamp (strongly recommended), headphone amps and more. Curiously there is no tape monitor facility — yet.



GROUP C (OVER £750)

AVI \$2000MI £999.00
Bryston B60 from £1,280.00
Credo 702 £850.00
Electrocompaniet ECI-2 £995.00
Magnum Class A SE £795.00
Pioneer A-07 £999.95

The Magnum Class A runs hot enough to be a potential hazard. Despite some aural inconsistencies, at its best this is an extremely fine amplifier, with many valvelike attributes but none of that breed's loss of resolution and smeared leading edges.

The Credo 702 is a crisp, well-defined amplifier, but the line inputs are too

sensitive for most CD players, noise levels are also rather high, there are level-related inconsistencies.

Electrocompaniet's ECI-2 is a powerful, solid-sounding model, with the kind of indepth ability that will make sense in many quality systems. The same goes for the AVI S2000MI, a brand renowned for its reliability. The control system isn't very userfriendly, but this remains an excellent-sounding design, whose clear and detailed q u a lity

shone through a wide variety of source components and loudspeakers.

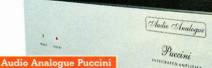
In material terms, the **Pioneer A-07** looks more than good value. It has all the attributes of a serious amplifier, with a strippeddown control set. In some systems it excelled, but it could sound rather 'handsoff' in some combinations.

The **Bryston B60** also missed out on a recommendation. The 20 years' guarantee is a unique benefit, and the unit is astonishingly slim (though it takes up no less shelf space

than most). But there is no getting away from the high pricing, and performance fell off towards the frequency extremes.

BEST BUY

nly one model, the £450 Audio Analogue Puccini, met all the requirements for Best Buy. This is a first-rate budget amplifier that looks and sounds like an altogether more costly model. Check it out.



RECOMMENDED





he Recommendations are all drawn from the £600 to £1,000 band. The Myryad MI-120 (£599.95) is an enhanced version of an existing amplifier which has finally come on song. It's unusually attractive and well built. Only a little more expensive, the Densen Beat B-100 mk II is another improved version of an existing model, and majors on dynamic qualities: this is one for the pace and timing brigade, and it will only set you back £649.99. The obvious point to make is that existing owners seem to have been left in the cold by these changes, and might feel aggrieved. The Talk Electronics Storm 2 (£649.95) is much better than the Storm 1 tested some time ago — a good all-rounder.





The real oddball is the Musical Fidelity X-PRE/X-A50 (£739.97 with X-LINX cable), which can be extended in several ways and turned into the kind of amplifier you'd like it to be, unless you have a three-head cassette deck. Even a two-header can be difficult to plumb in without feeding everything through the cassette deck's ampli-

fier chain — though it could be done with an external switchbox. The Electrocompaniet ECI-2 (£995.00) is a solid, dynamic performer, and a good base for some heavyweight systems, while the AVI S2000MI (£999.00) while somewhat sharper but less 'physical', is still a consistent, high-level performer.

HI-FI CHOICE

AVI S200MI



Musical Fidelity X-Pre/X-A50





Be in no doubt: there is no shortage of genuinely talented amplifiers already doing the rounds, especially towards the lower end of this month's price band. Obvious luminaries include the Mission Cyrus SL (£398), Marantz PM66 KI Signature (£400) and the Pioneer A-300R Precision (£400). Only one step further up the price ladder, is the excellent Orelle SA100 (£449). Around £500, check out the Musical Fidelity A2 (£499) and the Arcam Alpha 9 (exactly £500).

Marantz PM66 KI Signature



Those interested in the Densen Beat might like to check out the model which in many ways comes closest to being its inspiration, the Naim Nait 3 (£575), though the Densen is a much more powerful design, and there are many other differences. The Roksan Caspian (£695) is a particularly strong contender, and arguably the one to beat at the price, but the Musical Fidelity A220 (£700) and Audiolab 8000S (£750) should also be considered here. Last but not least, there are two Copland models that fall just within our price band, both svelte and highly listenable designs: the CSA-8 (£945) and the CSA-14 (£1,199).



Five Stars

Paul Messenger explains why you should visit an independent

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

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

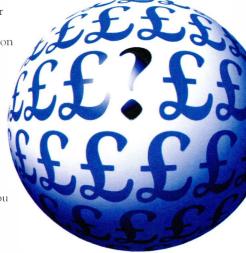
The independent specialist dealer doesn't know everything, and he doesn't know much about you, but if music's an important part of your life, he's the only guy around who's able (and hopefully willing) to help you choose the equipment which will give you the best long term satisfaction.

Power of the Press

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

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

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



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

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

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

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

The Role of the Dealer

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

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

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

Value

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

decision making process.

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



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

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

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

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

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

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

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

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

"The views and opinions expressed here are my own and not necessarily those of hi-fi choice.

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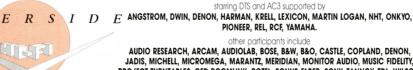
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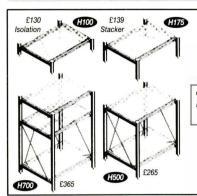
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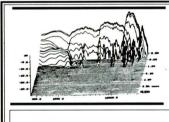


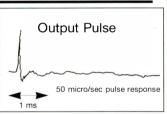
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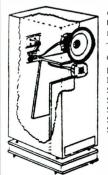
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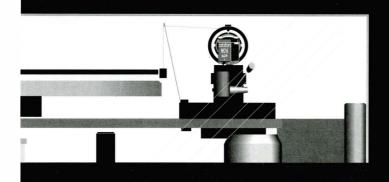
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HI-FI CHOICE FEBRUARY 1998 101



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Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AWI S2000M Capland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0	6 6 6 6 6 6	100W 85W 70W 65W 50W 65W 50W 100W 12W 100W 60W 70W 50W 55W 70W 60W	949 950 950 950 950 950 950 950 999 945 938 1,000 995 800 790
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX7R C701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AWI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680	6 6 6 6 6 6 6 6	100W 85W 70W 65W 50W 60W 100W 12W 100W 50W 70W 70W 50W 50W 85W	650 700 695 615 649 549 650 700 949 959 945 938 1,000 995 800 790 790 1,000
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX7R F701 to E10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/X MK680 LFD 0 LE Integrated Linn Majik (Phono)	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100W 85W 70W 65W 50W 100W 12W 100W 70W 70W 55W 70W 60W 85W 60W 85W 60W 85W	650 700 695 615 649 549 650 700 999 945 938 1,000 790 790 1,000 799 1,000
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000M Capland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100W 85W 70W 65W 60W 60W 100W 12W 70W 70W 55W 70W 50W 50W 50W 60W 60W	650 700 695 615 649 650 700 949 950 999 945 938 1,000 790 790 1,000 1,000 799
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to E-10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K MK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100W 85W 70W 65W 50W 65W 100W 12W 100W 50W 55W 70W 55W 60W 85W 60W 85W 60W 55W	650 700 695 615 649 549 650 949 950 999 945 938 1,000 790 790 790 800 799 800 799 815
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000M Capland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Tease Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK600 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 2	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100W 85W 70W 55W 50W 60W 55W 100W 110W 60W 70W 70W 55W 60W 85W 60W 85W 60W 85W 60W 85W 60W 75W	650 700 695 649 549 950 999 945 938 1,000 995 800 790 790 1,000 1,000 1,000 1,000 795 50 999 800 795 795 795 795 795 795 795 795 795 795
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BX7R F701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K MK680 LFD O LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100W 85W 70W 50W 65W 50W 100W 110W 70W 70W 70W 50W 85W 85W 85W 50W 85W 50W 85W 50W	650 700 695 615 649 549 949 945 999 945 990 995 800 790 1,000 1,000 1,000 815 990 800 795 800 795 800 795 800 795 800 795 800 795 800 800 800 800 800 800 800 800 800 80
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to E-10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/X HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100W 85W 50W 50W 50W 100W 100W 100W 100W 50W 50W 50W 85W 60W 33W 85W 60W 75W 85W 50W 85W 85W 80W 80W	650 700 695 615 649 949 950 999 945 800 790 1,000 799 800 799 800 799 800 799 800 795 800 799 800 799 800 799 800 799 800 815 800 815 815 815 815 815 815 815 815 815 815
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/X HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultru Linear Naim Nait 3 R Pioneer A-07 Primare A20 Rega Elicit	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100W 85W 50W 100W 12W 100W 55W 70W 70W 70W 55W 70W 85W 50W 85W 60W 33W 85W 60W 33W 85W 60W 75W 30W 80W 70W 70W 70W 70W 80W 80W 70W 80W 70W 80W 70W	650 700 695 645 549 650 700 949 950 999 945 938 1,000 1,000 1,000 800 750 750 950 999 1,000 1,000 1,000 800 760 1,000 800 800 800 800 800 800 800 800 800
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to E-10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/X HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Naim Nait 3 R Pioneer A-07 Primare A20 Rega Elicit Shearne Phase 2 Reference	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100W 85W 50W 65W 50W 65W 50W 65W 50W 65W 50W 65W 50W 65W 70W 55W 70W 55W 70W 55W 70W 65W 85W 60W 55W 50W 60W 50W 50W 50W 50W 50W 50W 50W 50W 50W	650 700 695 649 549 650 700 999 945 938 1,000 1,000 1,000 790 790 790 790 790 790 790 790 790
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR E701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000M Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Naim Nait 3 R Pioneer A-07 Primare A20 Rega Elicit Shearne Phase 2 Reference Sonneteer Alabaster Stemfoort ST000 TEAC AB-X10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100W 85W 50W 65W 50W 100W 12W 100W 70W 70W 55W 70W 66W 85W 66W 85W 66W 85W 66W 85W 66W 85W 66W 85W 66W 85W 66W 85W 66W 85W 85W 85W 85W 85W 85W 85W 85W 85W 85	650 700 695 615 649 950 999 945 938 800 995 800 790 790 1,000 799 800 900 795 750 900 800 1,000 800 799 900 800 800 800 800 800 800 800 800 8
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to C10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000MI Capland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K MK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2 Minstred Ultra Linear Naim Nait 3 R Pioneer A-07 Primare A20 Rega Elicit Shearne Phase 2 Reference Sonneteer Alabaster Stemfoort SF100 TEAC AB-X10 Unison Simply Two	© © © © © © © © © © © © © © © © © © ©	100W 85W 60W 65W 50W 10W 50W 50W 85W 70W 85W 50W 85W 33W 85W 60W 33W 85W 60W 75W 30W 80W 70W 100W 100W 100W 12W	650 700 695 645 549 650 700 949 950 999 945 938 1,000 1,000 1,000 1,000 790 780 780 780 780 780 780 780 780 780 78
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to E-10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000M Copland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK800 HZ DO LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Naim Nait 3 R Pioneer A-07 Primare A20 Rega Elicit Shearne Phase 2 Reference Sonneteer Alabaster Stemfoort SF100 TEAC AB-X10 Ultison Simply Two	© © © © © © © © © © © © © © © © © © ©	100W 85W 50W 65W 50W 12W 100W 50W 50W 50W 50W 50W 50W 50W 50W 50W	650 700 695 615 649 950 999 945 938 800 995 800 790 790 1,000 799 800 900 795 750 900 800 1,000 800 799 900 800 800 800 800 800 800 800 800 8
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000M Capland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Naim Nait 3 R Pioneer A-07 Primare A20 Rega Elicit Shearne Phase 2 Reference Sonneteer Alabaster Stemfoort SF100 TEAC AB-X10 Unison Simply Two £1001 to £24 Art Audio Integra	© © © © © © © © © © © © © © © © © © ©	100W 85W 60W 65W 50W 100W 55W 70W 100W 100W 100W 100W 100W 100W 100W	650 700 695 645 549 650 700 949 950 999 945 938 1,000 1,000 1,000 750 750 950 760 1,000 750 760 1,000 750 750 750 750 750 750 750 750 750
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AWI S2000M Capland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Naim Nait 3 R Pioneer A-07 Primare A20 Rega Elicit Shearne Phase 2 Reference Sonneteer Alabaster Stemfoort SF100 TEAC AB-X10 Unison Simply Two E1001 to £20 Audio Note Soro Line PP Audio Note Oto Line SE	© © © © © © © © © © © © © © © © © © ©	100W 85W 50W 100W 12W 100W 55W 50W 25W 26W 33W 85W 60W 55W 50W 100W 100W 100W 100W 100W 100W	650 700 695 615 549 650 700 999 945 938 1,000 790 790 790 790 790 790 790 790 790
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR E701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000M Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 EXPOSURE XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 2 Minstrel Ultra Linear Naim Nai Ta R Pioneer A-07 Primare A20 Minstrel Ultra Linear Naim Nai Ta R Pioneer A-07 Primare A20 Rega Elicit Shearne Phase 2 Reference Sonneteer Alabaster Stemfoort SF100 TEAC AB-X10 Unison Simply Two E1001 to £21 Art Audio Integra Audiolnov Classic 25 Audiolnov S500 Audio Note Oto Line SE Audio Note Soro Line PP Audio Note Soro Line SE	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100W 85W 50W 65W 50W 12W 100W 50W 55W 50W 50W 50W 50W 50W 50W 50W	650 700 695 615 649 950 999 945 938 800 995 800 790 790 1,000 799 800 1,000 800 1,000 800 1,000 800 1,000 800 1,000 800 1,000 800 1,000 800 1,000 800 1,000 800 1,000 800 1,000 800 1,000 800 1,000 800 800 800 800 800 800 800 800 800
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Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR F701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AUS S2000M Capland CSA8 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD O LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Naim Nait 3 R Pioneer A-07 Primare A20 Rega Elicit Shearne Phase 2 Reference Sonneteer Alabaster Stemfoort SF100 TEAC AB-X10 Unison Simply Two E1001 to £224 Audio Integra Audio Note Soro Line SE Audio Note Oto Line SE Audio Note Oto Line SE Audio Note Soro Line SE Beam-Echo SA-50	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100W 85W 50W 100W 12W 100W 55W 50W 26W 50W 25W 26W 33W 85W 60W 70W 60W 100W 100W 100W 100W 100W 100W 100	650 700 700 695 615 649 950 949 945 938 800 979 1,000 799 800 1,000 800 1,000 800 1,000 800 1,000 801 1,000 802 1,000 803 1,000 804 1,000 805 1,000 805 1,000 806 1,000 807 1,000 807 1,000 808 1,000 809 1,009 1,
Prime Design A-100 Quad 77 Integrated Roksan Caspian Rose Scion Shearne Phase 2 Stemfoort SF60 Talk Electronics Storm 2 TEAC A-BXTR E701 to £10 Alchemist Forseti Integrated Audio Note Oto Line PP AVI S2000M Copland CSA8 Credo IMP702 Credo IMP703 Electrocompaniet ECI-2 Exposure XV Super Fase Evoluzione Performance 1.1 Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50 H/K HK680 LFD 0 LE Integrated Linn Majik (Phono) Magnum Class A SE Marantz PM-17 Meridian 551 Micromega Tempo 1 Micromega Tempo 2 Minstrel Ultra Linear Naim Nai 3 R Pioneer A-07 Primare A20 Minstrel Ultra Linear Naim Nai 3 R Pioneer A-07 Primare A20 Rega Elicit Shearne Phase 2 Reference Sonneteer Alabaster Stemfoort SF100 TEAC AB-X10 Unison Simply Two E1001 to £21 Art Audio Integra Audiolnove Clot Line SE Audio Note Oto Line SE Audio Note Soro Line SE Audio Note Soro Line SE Beam-Echo SA-50 Bryston B-60 Copland CSA14	© © © © © © © © © © © © © © © © © © ©	100W 85W 60W 65W 50W 66W 55W 50W 66W 55W 50W 66W 55W 50W 66W 70W 25W 25W 25W 25W 25W 25W 25W 25W 25W 25	650 700 695 649 549 650 700 999 950 999 1,000 1,000 1,000 1,000 1,000 790 790 800 780 790 790 780 790 800 790 790 800 790 790 800 790 800 790 800 790 800 800 800 800 800 800 800 800 800 8



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CR Dev Romulus V3	6	35W	1,198	Hi Q Sound LCP2	
CR Dev Remus V3	0	60W	1,989	LFD Mistral Linestage	6
Credo LIM 702			1,191	LFD LSO Linestage	0
Credo LIM 703			1,249	Lumley PP70	0
EAR 834	0	40W	1,999	Lumley PP1	0
Graaf Venticinque	0	20W	1,995	Magnum MP120	0
LFD Integrated 1	0	65W	1,099	Magnum MP660	0
Marantz PM-16	0	90W	1,700	Magnum MP330	0
Meracus Intrare	0	60W	1,095	Moth 30 Passive	0
Minstrel Partridge Monrio MC-205	0	26W	1,499 1,545	Moth 30 RIAA Moth 30 Active	
Musical Fidelity A1000	0	80W 50W	1,500	Musical Fidelity X10-D	0
Primare 301	0	80W	1,800	Musical Fidelity X-LP	U
Rogers E-20a	0	20W	1,229	Musical Fidelity X-PRE	0
Rogers E-40a	0	40W	1,900	Musical Fidelity E20	0
Sonic Frontiers Anthem Integrated	0	25W	1,295	Musical Fidelity F2	6
T+A PA1200	0	90W	1,350	NAD 114	0
T+A R1200R	0	90W	1,495	NAD 116	0
T+A PA1500	0	135W	1,650	Naim Prefix	
T+A R1500R	0	135W	1,895	Naim NAC92	0
Jnison Simply Four P	0	24W	1,555	Rega EOS	
Jnison Simply Four T	0	11W	1,595	Roksan Artaxerxes 10	
Noodside ISA230 Line	0	30W	1,099	Rose RV-23	8
Woodside ISA230 Disc	0	30W	1,249	Rotel RC970BX MkII	•
Over £200			0.505	Talk Electronics Hurricane 1	0
ldyton Opera	0	50W	2,595	Technics SU-C1000	0
Audio Note Meishu Line		9W	2,750	Trilogy 905	
Audio Note Ongaku Audio Research CA50	0	26W	56,000	Trilogy 904	
Cary CAD-300SEI	0		3,990 3,495	Trilogy 900 Unison Simply Phono	0
Conrad-Johnson CAV-50	0	11W	2,495	£501 to £2	2000
EAR 859	0	50W 13W	2,499	Adyton Chorus	48800
Electrocompaniet ECI-1	0	100W	2,195	Alchemist Kraken Pre	6
Samma Rhythm	6	18W	2,499	Alchemist Forseti Pre	0
Samma Rhythm Ref	0	20W	3,499	Art Audio Headline	o
Samma Moment 845	6		19,999	Art Audio VPL	
adis DA30		30W	3,490	Art Audio Conductor Phono	
adis DA60	0	60W	5,750	Art Audio VP1	
(rell KAV300i	0	150W	2,550	Art Audio Conductor	0
Meracus Onesta	0	75W	2,595	Art Audio Conductor Export	
Pioneer A-09	0	45W	4,000	Audio Note M1 Line	
ube Tech Unisis Sig. Int.		30W	2,300	Audio Note M1 RIAA	
ube Tech Synergy PPS	0	150W	6,900	Audio Note M2 Line	
nison Performance One	0	25W	4,500	Audio Note Discovery	
Inison Absolute 845	0	40W	11,995	Audio Note M2RIAA	
PREAMPS				Audio Research LS7	0
Note that the same of the same	1837	A STATE OF		Audio Research LS3	0
KEY			41.5	Audio Synthesis Pro Passion Audio Synthesis Passion	0
🖯 – (etc) number of lin	e-le	vel in	puts.	Audio Synthesis Passion 8S	0
Ph - phono input fitte				Audio Synthesis Passion 8M	0
				Audiolab 8000C	6
(may be an option on some	oth	er mod	eis).	Audiolab 8000PPA	0
Up to £500	0		(2) H	Audiolab 8000Q	•
MC CVT 1030A	0	Ph	400	Aura CA-200	0
rt Audio Minuet			499	AVI S2000MP	0
udio Analogue Bellini	0	Ph	475	AVI S2000MP+P	6
udioInnov P1		Ph	369	Beam-Echo SP-21	0
udiolnnov L1	0		369	Bryston .4	0
udio Note The M			350	Bryston BP5	0
eam-Echo PP-21		Ph	499	Bryston BP20	

Bryston BP5 Bryston BP20 Bryston BP-25

Cary SLP-50 Cary SLP-74

Cary PH-301 Chord CPA 1800 Concordant Exhilerant

Concordant Exquisite

Conrad-Johnson PV-10AL

Conrad-Johnson PV-12AL

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949 1,199 1,116 642 889 1,126

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Ph 375 Ph 499 Ph 500 1,995 519 919 919 952 1,250 2,000 Ph 550 999 999 Ph 1,099 1,750

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Beam-Echo PP-21 Bryston BP1

Carver CT-24 CR Dev Themis

Crimson CS610C EAR 834P EAR 834L

Electrocompaniet ECP-1

Fase Evoluzione Phonodrive 1.0 Henley HMC50 Henley HMC100

Creek P43

Creek P52

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Conrad-Johnson PF-2	0	Ph	1,990	Unison Mystery One	0		1,750	NAD 912	30W	200	Naim NAP140	45W	750
Copland CSA303	0	Ph	1,199	Unison Phono One		Ph	1,995	NAD 214	80 W	370	Naim NAP180	60W	1,060
Copland CTA301 MkII	0	Ph	1,399	Van Den Hul Pre-amp	0		1,700	NAD 216THX	125W	470	Naim NAP135	75W	1,655
CR Dev Carmenta	0		659	Wilson Benesch Stage One		Ph	995	Naim NAP90/3	30W	450	Naim NAP250	70W	1,655
CR Dev Argento		Ph	699	Woodside SC27 Line	0		949	Rotel RB970BX MkII	60W	225	Papworth TVA50	50W	1,425
Credo CMP004			1,246	Woodside SC26 Line	•		1.557	Rotel RB980BX		450	Prime Design P-150		650
Credo CMP005			1,876	XTC PRE-1					120W	469		150W	2000
Densen DM-20					0		1,250	Shearne 3.5	35W		Quad 77 Power	85W	600
	3		1,200	Yamaha CX-2	0	Ph	650	Talk Electronics Tornado 1	50W	450	Quad 707	140W	800
DNM 3 Start	0		1,000	Over £200	00		100	Technics SE-A1000	70W	400	Rega EXS	70W	598
DNM 3A Start	0		1,650	Adyton Temper			2,495	£501 to £20	000	WE THE	Rega Exon	125W	1,196
DPA Enlightenment pre			795	Adyton Modus	0		2,695	Alchemist Kraken pwr	60W	529	Roksan ROK-S1.5	70W	1,495
DPA DSP500S			2,000	Alchemist The Alchemist pre			4,995	Alchemist Forseti Pwr	150W	1,309	Rose RP-190 (Dual Mode)	75W	550
Dynavector L200	0		1,195	ATC SCA2			2,499	AMC CVT 2100A	80W	600	Rotel RB990BX	200W	625
Dynavector P100		Ph	1,495	Audio Note M3Line			2,650	Art Audio Quintet	15W	1,393	Shearne Phase 3	50W	619
Dynavector L100	0		1,995	Audio Research LS15	0		3,399	Art Audio Quintet SE MB		1,500	Shearne Phase 3 Reference		729
Earmax Earmax Pre			1.895	Audio Research LS22				Art Audio Concerto	-W			50W	
	0				0		4,391		50W	1,669	Shearne Phase 5 Mono	100W	1,500
ECA Vista S	0		760	Audio Research LS5 MkIII	0		6,435	Audio Analogue Donizetti	60W	575	Sonic Frontiers Anthem Amp 1	40W	1,195
ECA Vista HD	0		880	Audio Research REF 1	0		9,900	AudioInnov First Audio	7.5W	1,749	Sonographe SA250	125W	1,195
ECA Prisma		Ph	880	Boulder L3AE	0		2,100	AudioInnov Series 1000	50W	1,799	Sonographe SA400	220W	1,695
Electrocompaniet EC-4.5			1,195	Boulder L5AE			3,400	Audio Note The P	40W	550	Sumo Polaris III	164W	950
Electrocompaniet EC-4R	0		1,495	Boulder L5M			3,800	Audio Note P0	9W	599	Sumo Model Five		1,975
Electrocompaniet EC-4.6	0		1,750	Boulder 2010	0		19,995	Audio Note P1	12W	750	Sumo Andromeda III	60W	1,975
Exposure XIX	U		800	Cary SLP-94L	8000			Audio Note P1SE		999		240W	
Explain the second of the seco					0		2,095		12W		T+A A1200	110W	845
Exposure XVII	0	Ph	850	Cary SLP-98L	0		2,295	Audio Note P2	20W	1,000	T+A A1500	140W	1,495
Fase Evoluzione Controlsource 2.0	0	Ph	625	Chord CPA 2200	0		2,355	Audio Note P2SE	18W	1,499	Talk Electronics Tornado 2	65W	600
Fase Evoluzione Controlsource 1.0	0		1,395	Chord CPA 2800	•	Ph	3,246	Audio Note Conqueror	8W	1,599	Talk Electronics Tornado 3	100W	750
Golden Tube Audio SEP-1	0		990	Chord CPA 3200	0		3,320	Audiolab 8000SX	60W	550	Talk Electronics Tornado 4	110W	1,100
Graaf WFB Two	0	Ph	1,195	Chord CPA 4000	0		6,210	Audiolab 8000PX	100W	850	Technics SE-A2000	100W	1,100
Graaf WFB One	0	Ph	1,895	Conrad-Johnson PF-R	0		2,490	Audiolab 8000MX	125W	1,800	Thorens TTA-2000	30W	599
Henley HMC200			750	Conrad-Johnson PV-12A	6	Ph	2,590	Aura PA-100	125W 100W	700	Trilogy 948	50W	1,895
Heybrook Signature II Pre	0		555	Conrad-Johnson Premier 15	Ð	Ph	3.995	Aura PA-200		1,200	Tube Tech Syrinx		
Hi Q Sound MCB2	9	Ph	545	Conrad-Johnson Premier 14		-n			110W			45W	1,150
Hi Q Sound MCL2		Pn		Conrad-Johnson Art	0		4,495	Aura PA-200 C	100W	1,250	Tube Tech Unisis Sig. Pwr	30W	1,900
	0		645		0		14,995	AVI S2000MM	150W	1,399	Woodside SA240	40W	1,199
Jadis DPL2	0		1,790	CAT SL1 Sig. Mk2	0	Ph	6,500	Bryston 2B-LP	75W	750	Woodside MA100	100W	1,733
LFD MC1 Phonostage		Ph	949	CR Dev Kastor	0	The same	2,995	Bryston 3B-ST PRO	150W	1,160	Woodside STA50	50W	1,880
LFD LS1 Linestage	0		999	Credo LPR 001			2,815	Bryston 3B-ST	150W	1,160	XTC POW-2	150W	1,450
LFD MC2 Phonostage		Ph	1,499	DNM 3C Primus	0		2,550	Bryston THX3B	150W	1,262	Yamaha MX-2	150W	750
LFD LS2 Linestage	6		1,599	DNM 3C Twin	0		3,800	Bryston 7B-ST PRO		1,545	Over £20	NOCI	750
LFD LSB Linestage	0		1,999	DNM 3C Six					500W			1000	2.405
Linn Wakonda			750		0		5,050	Bryston 4B-ST PRO	-W	1,756	Adyton Cordis 1.6	120W	3,495
Linn Linto	•			EAR 802MC	•	Ph	2,599	Bryston 4B-ST	300W	1,756	Adyton Cordis 3B	280W	12,995
			850	EAR G88	0	Ph		Bryston 7B-ST	500W	1,815	Alchemist The Alchemist pwr	220W	3,995
Linn Kairn	0		1,400	EAR P52	•	Ph	15,999	Bryston THX4B	300W	1,850	Alchemist The Alchemist mono	55W	8,995
Lumley LV1.5	0		895	Gamma Era Ref	0	Ph	7,999	Bryston THX7B	500W	1,886	Art Audio Tempo	30W	2,499
Lumley LV1	0		1,150	Gamma Era Sig	0	Ph	19,999	Carver TFM-15CB	100W	599	Art Audio Quintet SE	-W	2,500
Lumley PV1.5	0	Ph	1,700	Graaf GM13.5B	0		3,950	Carver A-500X	250W	949	Art Audio Maestro	100W	3,524
Lumley PV1	0	Ph	1,700	Jadis DP60L	0		2,800	Carver A-760X	380W	1,299	ATC SPA2-150		2,500
Marantz AC-500	0	Ph	700	Jadis DPL	0		3,190	Cary SLA-70 II		1,495	AudioInnov Ser 1000SE	200W	2,499
Marantz EC-500	0		900	Jadis DPMC	•	D.	3,190	Chord SPM 400	30W	1,325	AudioInnov Second Audio	50W	
Matisse Atom	0		1,000	Jadis JPL		Ph	4,720	Chord SPM 600	100W			15W	3,299
Meracus Ingredi			925	Jadis JPP200	0				130W	1,720	Audio Note P3	9W	2,150
	(3)						4,998	Conrad-Johnson MV-55	50W	1,995	Audio Note Quest	9W	2,750
Meridian 501 Meridian 562	•		695	Jadis JP30MC	•	Ph	5,978	Copland CTA501	30W	1,750	Audio Note Yubi	18W	3,850
			765	Jadis JPS2	0		7,900	CR Dev Amphion	12W	1,949	Audio Note Conquest	18W	4,450
Meridian 562V			995	Jadis JP80MC	0	Ph	11,989	Credo PMP 804		1,876	Audio Note Tomei	30W	8,500
Meridian 502	•		1,295	Krell KRC3	0		3,250	Creek A52SE	80W	599	Audio Note Neiro	7W	11,360
Michell Argo	③		730	Krell KRC-HR	•		6,949	Crimson CS630C	100W	800	Audio Note Ankoru	60W	14,500
Michi RHC-10			795	LFD Disc Preamp		Ph	4,499	Densen DM-30	100W	1,200	Audio Research D130	130W	2,299
Michi RHQ-10		Ph	1,150	Marantz Model 7	0	Ph	3,500	DNM PA Start	45W	1,000	Audio Research VT60	35W	2,395
Michi RHA-10			1,150	Mark Levinson 25S		Ph	2,950	DNM PA1 Start	45W	1,650	Audio Research D300	300W	4,678
Micromega Tempo P	0		1,250	Mark Levinson 380	0		3,995	DPA Enlightenment pwr	100W	995	Audio Research VT100	100W	4,995
Mission Cyrus Pre	0	Ph	648	Mark Levinson 380S	1900		6,495	Earmax Earmax Power		1,895	Audio Research D400 MkII		6,850
Monrio ADN	•		625		0				25W			400W	
		Ph		Matisse Fantasy	0		2,500	ECA Lectern S	50W	880	Audio Research VT130 SE	130W	8,500
Monrio Pluri-L	0		960	Matisse Reference	0	Ph		ECA Lectern HD	50W	1,480	Audio Research VT150 SE	150W	17,000
Muse Model 3	6		1,990	Meracus Pretare	0	Ph	2,195	Electrocompaniet AW60B	60W	1,095	Audio Synthesis Desire Decade	200W	2,495
Musical Fidelity F25	0	Ph	1,500	Naim NAC82	0		2,160	Exposure XVIII Super	70W	850	Beam-Echo DL7-35	30W	3,525
NAD 118			1,000	Naim NAC52	0		3,350	Fase Evoluzione Powersource 2.0	65W	860	Border Patrol 300B SE	10W	3,495
Naim NAC92R	6		630	Roksan ROK-L1.5	0		2,250	Fase Evoluzione Powersource 1.0			Boulder 102AE	- CO	2,800
Naim NAC72	0		725	Sonic Frontiers Line 2				Laze CANINSINIE LOMEIZONICE T'N	100W	1,670		100W	3,100
Naim NAC102	0		1,050	Sonic Frontiers Line 3		2000	2,995	Golden Tube Audio SE-40	100W 40W	1,670		100W	0,100
Quad 77 Pre	4	84	1,000				2,995	Golden Tube Audio SE-40	40W	1,670 1,100	Boulder 102M	100W	V 00E
Rega Hal			850	T+A Pre DA3000			4,995	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII	40W 8W	1,670 1,100 1,490	Boulder 102M Boulder 500AE	100W 150W	4,995
Roksan ROK-L2.5		Ph	850	T+A Pre DA3000			4,995 2,800	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100	40W 8W 100W	1,670 1,100 1,490 1,995	Boulder 102M Boulder 500AE Boulder 500M	100W 150W 150W	5,500
	0	Ph	998	Tesserac TAP-A	6		4,995 2,800 5,300	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P	40W 8W 100W 25W	1,670 1,100 1,490 1,995 1,250	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060	100W 150W 150W 600W	5,500 19,000
Rose RV-23S	6	Ph	998 1,250	Tesserac TAP-A Trilogy 918	0		4,995 2,800 5,300 2,775	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr	40W 8W 100W 25W 120W	1,670 1,100 1,490 1,995 1,250 1,045	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050	100W 150W 150W 600W 999W	5,500 19,000 35,000
Shearne Phase 6 Pre	3 3 3 3 3 3 3 3 3 3		998 1,250 525	Tesserac TAP-A Trilogy 918 Unison Dream	6		4,995 2,800 5,300 2,775 11,995	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM	40W 8W 100W 25W 120W 70W	1,670 1,100 1,490 1,995 1,250 1,045 715	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THX8B	100W 150W 150W 600W 999W 150W	5,500 19,000 35,000 2,385
Shearne Phase 1 Pre Ref	(3) (4) (6)	Ph	998 1,250 525 899	Tesserac TAP-A Trilogy 918	0	Ph Ph	4,995 2,800 5,300 2,775	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS	40W 8W 100W 25W 120W 70W 40W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THX8B Cary CAD-572SE	100W 150W 150W 600W 999W 150W 20W	5,500 19,000 35,000 2,385 2,495
	3 3 3 3 3 3 3 3 3 3	Ph Ph	998 1,250 525 899 1,399	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono	G G		4,995 2,800 5,300 2,775 11,995	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212	40W 8W 100W 25W 120W 70W 40W 120W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THXBB Cary CAD-572SE Cary CAD-300SE	100W 150W 150W 600W 999W 150W 20W 12W	5,500 19,000 35,000 2,385 2,495 3,795
Sonic Frontiers Anthem Pre 1P	(3) (4) (6)	Ph	998 1,250 525 899	Tesserac TAP-A Trilogy 918 Unison Dream	G G		4,995 2,800 5,300 2,775 11,995	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage	40W 8W 100W 25W 120W 70W 40W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999	Boulder 102M Boulder 500AE Boulder 200M Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805	100W 150W 150W 600W 999W 150W 20W	5,500 19,000 35,000 2,385 2,495
	(3) (4) (6)	Ph Ph	998 1,250 525 899 1,399	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM	G G		4,995 2,800 5,300 2,775 11,995	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212	40W 8W 100W 25W 120W 70W 40W 120W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THXBB Cary CAD-572SE Cary CAD-300SE	100W 150W 150W 600W 999W 150W 20W 12W	5,500 19,000 35,000 2,385 2,495 3,795
Sonic Frontiers Anthem Pre 1P	6 6	Ph Ph Ph	998 1,250 525 899 1,399 895	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM	6 6 1PS	Ph	4,995 2,800 5,300 2,775 11,995 2,233	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999	Boulder 102M Boulder 500AE Boulder 200M Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805	100W 150W 150W 600W 999W 150W 20W 12W 50W 160W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1	6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM	6 6 1PS	Ph	4,995 2,800 5,300 2,775 11,995 2,233	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B	100W 150W 150W 600W 999W 150W 20W 12W 50W 160W 200W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1	6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KINY '20W' — output power	6 5 6 IPS	Ph	4,995 2,800 5,300 2,775 11,995 2,233	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2 Powerstage LIN LK100	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 50W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,999 650	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B	100W 150W 150W 600W 999W 150W 20W 12W 50W 160W 200W 250W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26	6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 995	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM ** *** '20W' — output power into nominal load of 8	6 6 8 IPS per cl	Ph	4,995 2,800 5,300 2,775 11,995 2,233	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 50W 120W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 650 750	Boulder 102M Boulder 500ME Boulder 500M Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B	100W 150W 150W 600W 999W 150W 20W 12W 50W 160W 200W 250W 315W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line	6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 995 767	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KONG '20W' — output power into nominal load of 8 Up to £56	G G G IPS Per cl	Ph	4,995 2,800 5,300 2,775 11,995 2,233	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK200 Linn AV5105	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 50W 120W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,999 650 750 1,200	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1200C	100W 150W 150W 600W 999W 150W 20W 12W 50W 160W 200W 250W 315W 200W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena II Line Sumo Athena II Line	6 6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 995 767 987	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KEY '20W' — output power into nominal load of 8 Up to £56 AMC CVT 2030A	6 6 8 IPS per cl	Ph	4,995 2,800 5,300 2,775 11,995 2,233	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2 Powerstage Linn LK100 Linn LK240 Linn LK240 Linn AV5105 Lynwood Ruby	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 50W 120W 120W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 650 750 1,200 985	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200B Chord SPM 1200C Chord SPM 1600 Chord SPM 1600 Chord SPM 1600 Chord SPM 1600	100W 150W 150W 600W 999W 150W 20W 12W 50W 160W 200W 250W 315W 200W 380W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718 7,830
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena IIB/II LS Sumo Athena IIB/II	6 6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 995 767 987 987	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KIEY '20W' — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 8P	G G G IPS Per cl	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 250	Golden Tube Audio SE-40 Golden Tube Audio SE-3008 MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage LINI LK100 Linn LK200 Linn LK200 Linn LK200 Lynwood Ruby Magnum MF330	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 120W 120W 120W 120W 120W 120W 120W 150W 150W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 650 750 1,200 985 685	Boulder 102M Boulder 500ME Boulder 500M Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1600 Chord SPM 1600	100W 150W 600W 999W 150W 20W 150W 20W 250W 315W 200W 250W 315W 415W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718 7,830 13,544
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena III Ls Sumo Athena III Sumo Artemis uP	6 6 6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 995 767 987 987 1,595	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KEY '20W' — output power into nominal load of 8 Up to £56 AMC CVT 2030A	G G G IPS Per cl Ohmo	Ph	4,995 2,800 5,300 2,775 11,995 2,233	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Ventricinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK200 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF330 Magnum MF660	40W 8W 100W 25W 120W 70W 40W 120W 50W 120W 100W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,200 985 685 685	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1600 Chord SPM 16000 Chord SPM 16000 Conrad-Johnson MF-2300A	100W 150W 600W 999W 150W 20W 12W 50W 160W 200W 315W 200W 315W 200W 340W 415W 250W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718 7,830 13,544 2,990
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena II Line Sumo Athena III LS Sumo Athena III Sumo Athena III Sumo Ath	6 6 6 7	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 995 767 987 987 1,595 890	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KIEY '20W' — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 8P	G G S IPS per c Ohm	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 250	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graat Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage Linn LK100 Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum M500SE	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 120W 120W 120W 150W 120W 120W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,200 1,200 985 685 825 1,485	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1600 Chord SPM 5000 Chord SPM 5000 Chord SPM 5000 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A	100W 150W 600W 999W 150W 20W 12W 50W 160W 250W 315W 200W 380W 415W 250W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,525 3,915 4,718 7,830 13,544 2,990 3,500
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena IIB/II LS Sumo Athena III Sumo Artemis uP T+A P1200R Talk Electronics Hurricane 2	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 767 987 987 987 1,595 890 650	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM (120W' — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 8P Arcam Alpha 8P Arcam Alpha 9P	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 250 400	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage LFD NA2M Dowerstage LFD NA2M Dowerstage LFD NA2M Powerstage LFD N	40W 8W 100W 25W 120W 70W 40W 120W 50W 120W 100W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 650 750 1,200 985 685 825 1,485	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 1000B Chord SPM 1000B Chord SPM 1200B Chord SPM 1600 Ch	100W 150W 600W 999W 150W 20W 12W 50W 160W 200W 315W 200W 315W 200W 340W 415W 250W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718 7,830 13,544 2,990 3,500 6,900
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena II Line Sumo Athena III LS Sumo Athena III Sumo Athena III Sumo Ath	6 6 6 7	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 995 767 987 987 1,595 890	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KEY '20W' — output power into nominal load of 8 Up to ESC AMC CVT 2030A Arcam Alpha 8P Arcam Blata 290P Carver TFM-6CB	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 250 400 400 399	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graat Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage Linn LK100 Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum M500SE	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 120W 120W 120W 150W 120W 120W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,200 1,200 985 685 825 1,485	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1600 Chord SPM 5000 Chord SPM 5000 Chord SPM 5000 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A	100W 150W 600W 999W 150W 20W 12W 50W 160W 250W 315W 200W 380W 415W 250W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,525 3,915 4,718 7,830 13,544 2,990 3,500
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena IIB/II LS Sumo Athena III Sumo Artemis uP T+A P1200R Talk Electronics Hurricane 2	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 767 987 987 987 1,595 890 650	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM (1-1) (20W' — output power into nominal load of 8 Up to \$50 ACC CVT 2030A ACC ACT 2030A ACC ACT 2030A ACC CVT 2030A AC	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 250 400 400 399 399	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage LFD NA2M Dowerstage LFD NA2M Dowerstage LFD NA2M Powerstage LFD N	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 120W 100W 120W 100W 120W 120W 120W 150W 125W 200W 60W 60W 60W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 650 750 1,200 985 685 825 1,485	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 1000B Chord SPM 1000B Chord SPM 1200B Chord SPM 1600 Ch	100W 150W 600W 999W 150W 20W 12W 50W 200W 250W 250W 250W 415W 250W 70W 140W 150W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718 7,830 13,544 2,990 3,500 6,900
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena III LS Sumo Athena III S Sumo Athena III S T + A P1200R Talk Electronics Hurricane 2 Talk Electronics Hurricane 3	6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 767 987 987 987 987 987 1,595 890 650 900 1,550	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KEY "20W" — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 9P Arcam Alpha 9P Arcam Delta 290P Carver TFM-6CB Creek A43 Creek A52	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 400 250 400 400 399 499	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2W Powerstage LFD PA2M Powerstage Linn LK100 Linn LK200 Linn LK200 Linn AV5105 Lymwood Ruby Magnum MF330 Magnum MF660 Magnum MF660 Magnum A500SE Meracus Ciere	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 120W 120W 120W 120W 120W 125W 200W 200W 60W 60W 60W 60W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 650 750 1,200 985 825 1,485 1,595	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1200C Chord SPM 1400B Chord SP	100W 150W 600W 999W 150W 20W 12W 50W 200W 250W 250W 315W 200W 380W 415W 70W 140W 150W 275W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 4,718 7,830 13,544 2,990 3,500 6,900 17,000
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena II Line Sumo Athena III LS Sumo Athena II LS	6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 767 987 987 1,595 890 650 900 1,550 1,900	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM (20W' — output power into nominal load of 8 Up to £56 AMC CVT 2030A Arcam Alpha 9P Arcam Delta 290P Carver TFM-6CB Creek A43 Creek A43 Creek A52 Crimson CS620C	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 250 400 400 399 399 499 499	Golden Tube Audio SE-40 Golden Tube Audio SE-3008 MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage LFD NA2M Powerstage LFD NA2M Powerstage LINI LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF660 Magnum MF660 Magnum A500SE Magnum A500SE Meracus Ciere Merdian 555 Merdian 556	40W 8W 1100W 25W 1120W 120W 120W 60W 120W 120W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,599 1,595 685 825 685 825 1,485 1,595 1,050 895	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-300SE Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1600 C	100W 150W 600W 999W 20W 150W 20W 160W 200W 315W 200W 315W 250W 315W 250W 70W 415W 250W 70W 250W 250W 250W 250W 250W 250W 250W 25	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718 7,18 7,18 7,18 7,18 7,18 7,18 7,18
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena II Line Sumo Athena III LS Sumo Athena III SUMO ATHENIS P1200R Talk Electronics Hurricane 2 Talk Electronics Hurricane 3 Talk Electronics Hurricane 4 Talk Electronics Hurricane 5 Talk Electronics Hurricane 5 Talk Electronics Hurricane 5 Talk Electronics Hurricane 5	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 767 987 987 1,595 890 650 900 1,550 1,900 700	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM *** *20W' — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 8P Arcam Alpha 9P Arcam Delta 290P Carver TFM-6CB Creek A43 Creek A52 Crimson CS620C Earmax Earmax Headphone	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 250 400 400 399 399 499 450 375	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage Linn LK100 Linn LK200 Linn LK200 Linn LK300 Magnum MF330 Magnum MF330 Magnum MF660 Magnum A500SE Meracus Ciere Meridian 555 Meridian 556 Meridian 556 Meridian 556 Meridian 557	40W 8W 25W 120W 25W 120W 70W 60W 60W 75W 120W 120W 120W 120W 120W 120W 120W 120	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,999 650 750 1,200 985 825 1,485 1,595 1,095 750 885	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200B Chord SPM 1200B Chord SPM 1600 Conrad-Johnson Premier 11 Conrad-Johnson Premier 11 Conrad-Johnson Premier 12 Conrad-Johnson Premier 12 Conrad-Johnson Premier 13 Conrad-Johnson Premier 14 Conrad-Johnson Premier 8X Conrad-Johnson Premier 8A CAT JL1 Copland CTA505	100W 150W 600W 999W 150W 150W 200W 12W 200W 250W 315W 200W 380W 250W 70W 250W 415W 250W 70W 250W 250W 250W 250W 250W 250W 250W 25	5,500 19,000 35,000 2,385 2,495 3,795 2,265 2,785 3,525 4,718 7,830 13,544 2,990 3,500 17,000 17,000 17,000 17,000 17,000 2,099
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SCZ6 Sumo Athena II Line Sumo Athena II Line Sumo Athena II Line Sumo Athena III Sumo Athena III Sumo Athenis IP T+A P1200R Talk Electronics Hurricane 2 Talk Electronics Hurricane 3 Talk Electronics Hurricane 4 Talk Electronics Hurricane 5 Tencies SU-CZ000 Tesserac TAADA	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 967 987 987 1,595 890 650 900 1,550 1,900	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM K-1-Y '20W' — ontput power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 8P Arcam Alpha 9P Arcam Delta 290P Carver TFM-6CB Creek AA3 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 400 399 499 450 399 499 450 400 399 499	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK100 Linn AV5105 Lynwood Ruby Magnum MF660 Magnum MF660 Magnum A500SE Magnum A500SE Meridian 555 Meridian 555 Meridian 557 Meridian 557	40W 8W 100W 25W 120W 120W 120W 60W 75W 90W 120W 120W 120W 120W 120W 150W 120W 150W 150W 150W 100W 60W 60W 60W 100W 100W 160W 160W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,590 1,200 985 685 750 1,200 985 685 1,250 1,200 985 1,200 985 1,200 985 1,200 985 1,200 985 1,200 985 1,200 985 1,200 985 1,200 985 1,200 1,200 985 1,200 1,200 985 1,200 1,500 1,200 1,500 1,500 1,500 1,500 1,500 1,500 1,500	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A Conrad-Johnson Premier 12 Conrad-Johnson Premier 8X Conrad-Johnson Premier 8X Conrad-Johnson Premier 8X Conrad-Johnson Premier 8X CONTAD-SONSON PREMIER 8X CONTAD-SON	100W 150W 600W 999W 20W 150W 20W 160W 200W 315W 200W 315W 250W 315W 250W 70W 415W 250W 70W 250W 250W 250W 250W 250W 250W 250W 25	5,500 19,000 35,000 2,385 2,495 2,265 2,785 3,525 3,915 4,718 4,718 4,718 4,718 4,718 5,500 6,900 17,000 17,000 15,500 2,099 4,995
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena III LINE Sumo Athena III LINE Sumo Artemis uP T+A P1200R Talk Electronics Hurricane 2 Talk Electronics Hurricane 3 Talk Electronics Hurricane 4 Talk Electronics Hurricane 5 Technics SU-C2000 Tesserac TAADA Tesserac TAADA		Ph Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 767 987 987 1,595 890 650 900 1,550 1,900 1,500 1,500	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM K RY '20W' — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 9P Arcam Alpha 9P Arcam Alpha 9P Carver TFM-6CB Creek A43 Creek A43 Creek A43 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power LFD Mistral Power LFD Mistral Power LFD More Powerstage	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 5,300 2,775 11,995 2,233 400 250 400 400 399 399 450 375 449 499	Golden Tube Audio SE-40 Golden Tube Audio SE-3008 MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage LFD PA2M Powerstage LFD NA2M Powerstage LFD N	40W 8W 100W 25W 120W 70W 40W 120W 40W 120W 120W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,595 685 825 685 825 1,485 1,595 1,095 1,095 1,400 1,150	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1600 Conrad-Johnson Premier 11A Conrad-Johnson Premier 11A Conrad-Johnson Premier 12 Conrad-Johnson Premier 8X CAT JL1 Copland CTA505 CR Dev Artemis Credo LPO 804	100W 150W 600W 999W 150W 150W 200W 12W 200W 250W 315W 200W 380W 250W 70W 250W 415W 250W 70W 250W 250W 250W 250W 250W 250W 250W 25	5,500 19,000 35,000 2,385 2,495 3,795 3,795 3,525 3,915 4,718 7,830 13,544 2,990 17,000 15,500 2,099 4,995 2,456
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena III Line Sumo Athena III Line Sumo Athena III Line Sumo Athena III Line T+A P1200R Talk Electronics Hurricane 2 Talk Electronics Hurricane 3 Talk Electronics Hurricane 4 Talk Electronics Hurricane 5 Technics SU-C2000 Tesserac TALA Tesserac TALA	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 995 767 987 1,595 890 650 1,900 700 1,500 1,500 1,500	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM **** **20W' — output power into nominal load of 8 Up to \$50 Arcam Alpha 9P Arcam Alpha 9P Arcam Delta 290P Carver TEM-6CB Creek A43 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power LFD PAO Powerstage Magnum MF120	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Ph	4,995 2,800 2,775 11,995 2,233 400 400 250 400 400 400 399 499 399 499 499 499 499 365	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage Linn LK100 Linn LK200 Linn LK200 Linn LK300 Magnum MF330 Magnum MF330 Magnum MF660 Magnum A500SE Meracus Ciere Meridian 555 Meridian 556 Meridian 557 Meridian 557 Michell Alecto Stereo Michell Alecto Mono	40W 8W 25W 120W 25W 120W 60W 60W 75W 120W 120W 120W 120W 120W 120W 120W 120	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 650 750 1,200 985 885 825 1,485 1,595 1,095 750 1,400 1,590	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1200C Chord SPM 1000B Conrad-Johnson Premier 11A Conrad-Johnson Premier 12 Conrad-Johnson Premier 12 Conrad-Johnson Premier 8X Conrad-Johnson Premier 8A CAT JL1 Copland CTA505 CR Dev Artemis Credo LPO 804 Credo PMP 155	100W 150W 600W 999W 150W 150W 200W 12W 200W 250W 315W 200W 380W 250W 70W 250W 415W 250W 70W 250W 250W 250W 250W 250W 250W 250W 25	5,500 19,000 35,000 2,385 2,495 3,795 2,265 2,785 3,525 3,525 3,525 3,525 3,525 3,525 4,718 7,830 13,544 2,990 3,500 17,000 17,000 17,000 15,500 2,099 4,995 2,456 2,676
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line		Ph Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 995 767 987 987 1,595 890 1,500 1,500 1,500 1,500 1,800 699	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM Y-Y-Y '20W' — ontput power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 8P Arcam Alpha 9P Arcam Delta 290P Carver TFM-6CB Creek A43 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power LFD PA0 Powerstage Magnum MF120 Marantz MA-500	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 400 399 499 499 499 499 499 499 499 499 499	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK100 Linn AV5105 Lynwood Ruby Magnum MF680 Magnum A500SE Magnum A500SE Magnum A50SE Meridian 555 Meridian 556 Meridian 557 Meridian 557 Meridian 557 Meridian 505 Michell Alecto Stereo Michell Alecto Mono Michiel RHB-05	40W 8W 100W 25W 120W 70W 120W 60W 75W 90W 120W 120W 120W 120W 150W 125W 200W 200W 60W 60W 150W 150W 150W 120W 100W 100W 100W 100W 100W 100W 10	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 650 750 1,200 985 685 825 1,485 1,595 1,995 1,400 1,590 1,590 1,590 1,150 1,100	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1200C Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A Conrad-Johnson Premier 11A Conrad-Johnson Premier 8X Conrad-Johnson Premier 8X COnrad-Johnson Premier 8X COTAD-100 SPM 500 CR Dev Artemis Credo LPO 804 Credo PMP 155 Credo LPO 455	100W 150W 600W 999W 150W 150W 200W 12W 200W 250W 315W 200W 380W 250W 70W 250W 415W 250W 70W 250W 250W 250W 250W 250W 250W 250W 25	5,500 19,000 35,000 2,385 2,495 2,265 2,785 3,515 4,718 4,718 4,718 4,718 4,718 4,719 4,919 1,000 17
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena II Line Sumo Athena III Line Sumo Athena II Line S	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph	998 1,250 525 889 1,399 885 1,495 1,995 995 767 987 1,595 890 1,550 1,900 1,500 1,500 1,500 1,500 1,500 750	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KPY '20W' — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 9P Arcam Alpha 9P Arcam Alpha 9P Carver TFM-6CB Creek A43 Creek A43 Creek A43 Creek A43 Creek A45 Creek A45 Creek A45 Creek A40 Cree	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 399 399 490 450 375 449 499 365 250 400	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD P	40W 8W 100W 25W 120W 75W 40W 120W 40W 120W 120W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,595 685 825 685 825 1,485 1,595 1,400 1,590 1,590 1,150 1,900 1,150 1,900 2,000	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-300SE Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1200C Chord SPM 1600 Chord SPM 1600 Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A Conrad-Johnson Premier 12 Conrad-Johnson Premier 8XS Conrad-Johnson Premier 8XS CONTAD-100 SPM 1600 C	100W 150W 600W 999W 20W 150W 20W 160W 200W 315W 200W 415W 250W 315W 250W 315W 200W 415W 250W 338W 415W 250W 338W 415W 250W 338W 415W 250W 338W 415W 348W 415W 415W 415W 415W 415W 415W 415W 415	5,500 19,000 35,000 2,385 2,495 3,795 3,795 3,525 3,915 4,718 7,830 13,544 2,990 4,995 4,9
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena III LINE Sumo Athena II LINE Sumo Athena Sumo Athena Sumo Athena Sumo Ath	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,995 1,995 1,995 987 987 987 987 1,595 890 1,550 1,900 1,500 1,500 1,500 1,500 1,800 1,500 1,809 750	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM **** **20W' — output power into nominal load of 8 Up to \$50 AMC CVT 2030A Arcam Alpha 9P Arcam Alpha 9P Arcam Delta 290P Carver TEM-6CB Creek A43 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power LFD PAO Powerstage Magnum MF120 Marantz MA-500 Marantz MA-500 Marantz MA-700 Mission Cyrus XPA	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 400 399 499 499 499 499 499 499 499 499 499	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum A50SE Meracus Ciere Meridian 555 Meridian 556 Meridian 557 Meridian 557 Meridian 557 Michelf Alecto Stereo Michel I Alecto Mono Michi RHB-05 Michel RHB-10 Micromega Amp	40W 8W 25W 120W 25W 120W 70W 60W 60W 75W 90W 120W 120W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 650 750 1,200 985 685 825 1,485 1,995 1,095 750 1,400 1,590 1,159 1,159 1,199 1,199 1,199 1,199 1,199 1,199 1,199 1,199 1,199 1,199 1,199 1,199 1,100 1,250	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-805C Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1200C Chord SPM 1600 Chord SPM 1600 Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11 Conrad-Johnson Premier 12 Conrad-Johnson Premier 12 Conrad-Johnson Premier 8X Conrad-Johnson Premier 8X Conrad-Johnson Premier 8X Cornad-Johnson Premier 9X Cornad-Johnson Premier 12 Contad-Johnson Premier 12 Contad-Johnson Premier 13 Cornad-Johnson Premier 14 Contad-Johnson Premier 15 Cordo LPO 804 Credo PMP 155 Credo LPO 855 Credo LPO 155 DNM PA3	100W 150W 600W 999W 150W 150W 150W 200W 250W 315W 200W 415W 250W 315W 250W 140W 150W 250W 380W 415W 250W 380W 415W 250W 380W 415W 50W 50W 50W 50W 50W 50W 50W 50W 50W 5	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718 7,180 7,990 3,500 17,000 17,000 17,000 15,500 2,099 4,995 2,456 2,676 4,975 6,983 2,500
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line		Ph Ph Ph Ph Ph	998 1,250 899 1,399 1,399 1,495 1,995 995 767 987 1,595 890 1,550 1,900 1,500 1,500 1,500 1,500 1,500 1,500 1,505	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM KPY '20W' — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 9P Arcam Alpha 9P Arcam Alpha 9P Carver TFM-6CB Creek A43 Creek A43 Creek A43 Creek A43 Creek A45 Creek A45 Creek A45 Creek A40 Cree	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 399 399 490 450 375 449 499 365 250 400	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graat Ventricinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage Linn LK100 Linn LK100 Linn MS-300SE Magnum MF-300SE Magnum A500SE Magnum A500SE Merdian 555 Meridian 555 Meridian 556 Meridian 557 Meridian 557 Meridian 505 Michell Alecto Mono Michil RHB-05 Mich RHB-05 Mich RHB-05 Mich RHB-10 Micromega Amp Monrio Cento	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 120W 120W 120W 125W 200W 60W 60W 150W 120W 200W 60W 60W 100W 200W 160W 150W 135W 120W 100W 135W 135W 135W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 650 750 1,200 985 685 750 1,200 985 1,595 1,485 1,595 1,495 1,495 1,150 1,15	Boulder 102M Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200B Chord SPM 1200B Chord SPM 1200B Chord SPM 1000 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A Conrad-Johnson Premier 11A Conrad-Johnson Premier 8X Corrad-Johnson Premie	100W 150W 600W 999W 150W 12W 20W 12W 200W 250W 250W 250W 415W 250W 70W 140W 150W 275W 200W 380W 250W 70W 350W 250W 70W 250W 250W 250W 250W 250W 250W 250W 25	5,500 19,000 35,000 2,385 2,495 2,265 2,785 3,515 4,718 4,718 4,718 4,718 4,718 4,719 4,919 2,900 17,000 17
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ph Ph Ph Ph Ph	998 1,250 525 899 1,399 895 1,495 1,995 1,995 767 987 71,595 890 650 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,000	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM **** **20W' — output power into nominal load of 8 Up to \$50 AMC CVT 2030A Arcam Alpha 9P Arcam Alpha 9P Arcam Delta 290P Carver TEM-6CB Creek A43 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power LFD PAO Powerstage Magnum MF120 Marantz MA-500 Marantz MA-500 Marantz MA-700 Mission Cyrus XPA	9 6 9 6 9 1 1 2 5	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 400 399 399 499 365 250 400 298	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD P	40W 8W 25W 120W 25W 120W 70W 60W 60W 75W 90W 120W 120W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,595 1,200 1,595 1,200 1,595 1,485 1,595 1,485 1,595 1,485 1,595 1,495 1,150	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-300SE Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200B Chord SPM 1200C Chord SPM 1600 Chord SPM 1600 Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A Conrad-Johnson Premier 12 Conrad-Johnson Premier 8X CAT JL1 Copland CTA50S CR Dev Artemis Credo LPO 804 Credo PMP 155 Credo LPO 455 Credo LPO 455 Credo LPO 455 Credo LPO 155 DNM PA3S	100W 150W 600W 999W 150W 20W 150W 160W 200W 315W 200W 315W 200W 415W 250W 140W 140W 150W 275W 275W 275W 275W 275W 275W 275W 275	5,500 19,000 35,000 2,385 2,495 3,795 3,795 3,525 3,915 4,718 7,830 13,544 2,990 17,000 15,500 2,099 2,456 2,676 4,975 4,995 4,676 4,975 4,995 4
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Attena II Line		Ph Ph Ph Ph Ph	998 1,250 899 1,399 1,399 1,399 1,995 767 987 1,595 890 1,500	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM Y-Y-Y- '20W' — ontput power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 8P Arcam Alpha 8P Arcam Belta 290P Carver TFM-6CB Creek AA3 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power LFD PA0 Powerstage Magnum MF120 Marantz MA-500 Marantz MA-500 Marantz MA-700 Mission Cyrus XPA Mission Cyrus YPA Mission Cyrus Power	9 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 399 399 450 375 449 499 365 250 400 298 498 498 499	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LIN LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum A50SE Meracus Ciere Meridian 555 Meridian 556 Meridian 557 Meridian 557 Meridian 557 Michell Alecto Stereo Michell Alecto Mono Michi RHB-10 Micromega Amp Monrio Cento Monrio HP1 Moth 60 Stereo	40W 8W 100W 25W 120W 70W 40W 120W 60W 75W 90W 120W 120W 120W 125W 200W 60W 60W 150W 120W 200W 60W 60W 100W 200W 160W 150W 135W 120W 100W 135W 135W 135W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,599 1,595 685 885 825 1,485 1,955 1,955 1,950 1,200 1,590 1,150 1,989 1,100 1,250 1,495 1,455 1,455 1,455 1,455 1,455 1,595 1,150 1,595 1,150 1,989 1,100 1,250 1,455 1,455 1,755 1,455 1,755 1,455 1,755	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-3075E Cary CAD-300SE Cary CAD-300SE Chord SPM 1000B Chord SPM 1000B Chord SPM 1200C Chord SPM 1200C Chord SPM 1600 Chord SPM 1600 Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11 Conrad-Johnson Premier 12 Conrad-Johnson Premier 12 Conrad-Johnson Premier 8X Conrad-Johnson Premier 8X Conrad-Johnson Premier 8X Corrad-Johnson Premier 9X Corrad-Johnson Premier 9X Corrad-Johnson Premier 12 Conrad-Johnson Premier 12 Conrad-Johnson Premier 13 Conrad-Johnson Premier 13 Conrad-Johnson Premier 14 Conrad-Johnson Premier 15 Conrad-	100W 150W 600W 999W 150W 12W 20W 12W 200W 250W 250W 250W 415W 250W 70W 140W 150W 275W 200W 380W 250W 70W 350W 250W 70W 250W 250W 250W 250W 250W 250W 250W 25	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718 7,18 7,18 7,18 7,18 7,18 7,18 7,18
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena II L		Ph Ph Ph Ph Ph	998 1,250 899 1,399 1,399 1,495 1,995 995 767 987 1,595 890 1,550 1,900 700 1,500 1,500 1,500 1,500 1,500 1,500 1,500 2,000 2,000	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM **** **20W' — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 9P Arcam Alpha 9P Arcam Belta 290P Carver TEM-6CB Creek A43 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power LFD PAO Powerstage Magnum MF120 Marantz MA-500 Marantz MA-700 Mission Cyrus Power Moth 30 Series Power Moth 30 Series Power Moth 30 Mono/40	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 400 399 499 450 499 499 365 250 400 298 498	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK200 Linn LK200 Linn MS300 Magnum MF330 Magnum MF330 Magnum MF300SE Merdian 555 Meridian 555 Meridian 556 Meridian 557 Meridian 557 Meridian 557 Michell Alecto Stereo Michi RHB-05 Mich RHB-05 Mich RHB-05 Mich RHB-05 Mich RHB-05 Mich RHB-05 Mich RHB-05 Michi RHB-10 Morrio Cento Monrio HP1 Moth 60 Stereo Moth 30 Mono/100	40W 8W 100W 25W 120W 75W 40W 120W 40W 120W 120W 120W 120W 120W 120W 120W 150W 120W 150W 125W 200W 60W 100W 200W 100W 200W 100W 200W 100W 135W 135W 135W 135W	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,590 1,200 985 685 750 1,200 985 1,485 1,595 1,590 1,150 1,485 1,750 1,485 1,750 1,485 1,750 1,485 1,750 1,485 1,750 1,485 1,750 1,485 1,750 1,485 1,750 1,599 1,750	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1000B Chord SPM 1200C Chord SPM 1200C Chord SPM 1600 Chord SPM 1400B mono Chord SPM 1400B mono Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A Conrad-Johnson Premier 11A Conrad-Johnson Premier 8X Conra	100W 150W 600W 999W 150W 20W 150W 160W 200W 315W 200W 315W 200W 415W 250W 140W 140W 150W 275W 275W 275W 275W 275W 275W 275W 275	5,500 19,000 35,000 2,385 2,495 2,265 2,785 3,515 4,718 4,718 4,718 4,718 4,718 4,719 4,919 2,995 2,456 2,698 4,975 6,983 2,500 2,099 4,975 6,983 2,500 2,099 3,750 3,75
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line		Ph Ph Ph Ph Ph	998 1,250 899 1,399 1,399 1,995 767 987 987 1,595 995 1,595 1,595 1,595 1,595 1,595 1,595 1,595 1,595 1,590 1,500	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM K PY "20W" — output power into nominal load of 8 Up to £50 AMC CVT 2030A Arcam Alpha 9P Arcam Alpha 9P Arcam Delta 290P Carver TFM-6CB Creek A43 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power LFD PAO Powerstage Magnum MF120 Marantz MA-500 Marantz MA-500 Mission Cyrus XPA Mission Cyrus Power Moth 30 Series Power	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 400 399 499 450 499 499 365 250 400 298 498 249 498 249 499 130	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LETD PA1 Powerstage LFD PA2 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD P	40W 8W 100W 25W 120W 70W 60W 60W 75W 120W 120W 120W 120W 120W 120W 120W 120	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,590 1,500 1,200 1,200 1,200 1,200 1,150 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,100 1,250 1,495 1,750 589 1,490	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-300SE Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1200C Chord SPM 1600 Chord SPM 1600 Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A Conrad-Johnson Premier 12 Conrad-Johnson Premier 8X CAT JL1 Copland CTA505 CR Dev Artemis Credo LPO 804 Credo PMP 155 Credo LPO 455 Credo LPO 455 Credo LPO 455 Credo LPO 455 Credo LPO 155 DNM PA3S	100W 150W 600W 999W 150W 150W 20W 12W 250W 315W 200W 415W 250W 70W 150W 250W 38W 415W 250W 70W 150W 275W 35W 57W 35W	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,525 3,915 4,718 7,18 7,18 7,18 7,18 7,18 7,18 7,18
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line Sumo Athena III Line Sumo Athena III Line Sumo Athena III Line Sumo Athena III Line The Part II Line Sumo Athena III Line Sumo Athena II Line Sumo Athena		Ph Ph Ph Ph Ph	998 1,250 899 1,399 1,399 1,495 1,995 995 767 987 1,595 890 1,550 1,900 700 1,500 1,500 1,500 1,500 1,500 1,500 1,500 2,000 2,000	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM K PY "20W" — ontput power into nominal load of 8 Up to £56 AMC CVT 2030A Arcam Alpha 8P Arcam Alpha 8P Arcam Alpha 9P Arcam Delta 290P Carver TFM-6CB Creek AA3 Creek A52 Crimson CS620C Earmax Earmax Headphone LFD Mistral Power LFD PAO Powerstage Magnum EM120 Marantz MA-500 Marantz MA-700 Mission Cyrus XPA Mission Cyrus XPA Mission Cyrus Power Moth 30 Series Power Moth 30 Series Power Moth 30 Mono/40 Musical Fidelity X-CANS Musical Fidelity E30	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 400 399 399 450 375 449 499 365 250 400 298 498 499 499 365 250 400 298 499 499 500 500 500 500 500 500 500 500 500 5	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DAS Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK200 Linn LK200 Linn MS300 Magnum MF330 Magnum MF330 Magnum MF300SE Merdian 555 Meridian 555 Meridian 556 Meridian 557 Meridian 557 Meridian 557 Michell Alecto Stereo Michi RHB-05 Mich RHB-05 Mich RHB-05 Mich RHB-05 Mich RHB-05 Mich RHB-05 Mich RHB-05 Michi RHB-10 Morrio Cento Monrio HP1 Moth 60 Stereo Moth 30 Mono/100	40W 8W 120W 120W 60W 75W 90W 120W 120W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,599 1,595 685 885 825 1,485 1,955 1,955 1,955 1,955 1,400 1,590 1,150 1,150 1,250 1,455 1,455 1,455 1,455 1,455 1,455 1,599 879 1,490 800	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-805 Chord SPM 800 Chord SPM 1000B Chord SPM 1000B Chord SPM 1200C Chord SPM 1200C Chord SPM 1600 Chord SPM 1400B mono Chord SPM 1400B mono Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A Conrad-Johnson Premier 11A Conrad-Johnson Premier 8X Conra	100W 150W 600W 999W 150W 150W 200W 12W 250W 250W 250W 250W 250W 250W 250W 25	5,500 19,000 35,000 2,385 2,495 3,795 8,495 2,265 2,785 3,515 4,718 4,718 4,718 4,718 4,719 4,995 2,456 2,676 4,975 6,983 2,500 2,099 4,995 2,456 2,676 6,983 2,500 2,099 2,195 3,750 3,75
Sonic Frontiers Anthem Pre 1P Sonic Frontiers Anthem Pre 1 Sonic Frontiers Phono 1 Sonic Frontiers Phono 1 Sonic Frontiers Line 1 Sonographe SC26 Sumo Athena II Line		Ph Ph Ph Ph Ph	998 1,250 899 1,399 1,399 1,995 767 987 987 1,595 995 1,595 1,595 1,595 1,595 1,595 1,595 1,595 1,595 1,590 1,500	Tesserac TAP-A Trilogy 918 Unison Dream Woodside SC26 Line & Phono POWER AM 19 10 10 10 10 10 10 10 10 10 10 10 10 10	G G G G G G G G G G G G G G G G G G G	Ph	4,995 2,800 2,775 11,995 2,233 400 250 400 400 399 499 450 499 499 365 250 400 298 498 249 498 249 499 130	Golden Tube Audio SE-40 Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100 Graaf Venticinque P Heybrook Signature II Pwr Hi Q Sound MCM Jadis DA5 Lexicon 212 LETD PA1 Powerstage LFD PA2 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD P	40W 8W 100W 25W 120W 75W 40W 120W 40W 120W 120W 120W 120W 120W 120W 120W 12	1,670 1,100 1,490 1,995 1,250 1,045 715 1,997 1,850 999 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,599 1,590 1,500 1,200 1,200 1,200 1,200 1,150 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,150 1,190 1,150 1,190 1,150 1,190 1,150 1,190 1,100 1,250 1,495 1,750 589 1,490	Boulder 102M Boulder 500AE Boulder 500M Boulder 2050 Boulder 2050 Boulder 2050 Boulder 2050 Bryston THX8B Cary CAD-572SE Cary CAD-300SE Cary CAD-300SE Chord SPM 800 Chord SPM 1000B Chord SPM 1200B Chord SPM 1200C Chord SPM 1200C Chord SPM 1600 Chord SPM 1600 Chord SPM 1600 Conrad-Johnson MF-2300A Conrad-Johnson Premier 11A Conrad-Johnson Premier 12 Conrad-Johnson Premier 8X CAT JL1 Copland CTA505 CR Dev Artemis Credo LPO 804 Credo PMP 155 Credo LPO 455 Credo LPO 455 Credo LPO 455 Credo LPO 455 Credo LPO 155 DNM PA3S	100W 150W 600W 999W 20W 120W 150W 160W 200W 315W 200W 415W 250W 315W 200W 415W 250W 338W 415W 250W 338W 415W 250W 57W 35W 25W 140W 150W 275W 275W 275W 275W 275W 275W 275W 275	5,500 19,000 35,000 2,385 2,495 2,265 2,785 3,525 3,915 4,718 4,718 3,500 6,900 17,000 15,500 2,099 4,995 2,456 2,676 6,983 2,500 3,750 3,000 2,195 3,000 2,195 3,000 2,195 3,995 3,995 3,299

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IR 549	200W	6,499	Audioquest Turquoise 2	0	40.00	Siltech MC4-24S	⊕ 400.00	Moth Leyline Datalink	•
ectrocompaniet AW100DMB	100W	2,095	Audioquest Topaz 2	0	60.00 80.00	Siltech FTM-3S Silver Sounds SS2	⊕ 730.00 ⊕ 99.00	Nordost Moonglo	0
ectrocompaniet AW120DMB ectrocompaniet AW250DMB	120W 250W	2,695 3,995	Audioquest Ruby 2 Audioquest Quartz	0	120.00	Silver Sounds SS1	⊕ 99.00⊕ 199.00	Precious Metals Silver Dig 35 Precious Metals Silver Dig 100	•
ectrocompaniet AW180MB	180W	4,595	Audioquest Opal	0	189.00	Silver Tone Ex-Static	③ 35.00	Precious Metals Silver Dig 200	:
posure IV posure XVI	80W 125W	2,199 4,000	Audioquest Emerald Audioquest Lapis	•	249.00 399.00	Silver Tone Sci-Fi SME S2LB-4	⊕ 95.00⊕ 46.18	Precious Metals Silver Dig 202 QED Digiflex	(1)
imma Aeon	20W	4,999	Audioquest Diamond	0	549.00	SME S3LB-4	© 52.06	QED Optiflex	•
mma Space Ref	18W	7,999	Cable Talk Improved 2/CD	•	26.00	SME 4900A	② 76.83	Roksan ROK-Intercon	•
ımma Aeon Ref aaf 5050	50W 50W	39,999	Cable Talk Advanced 2 Cable Talk Monitor 2.1	(1)	35.00 50.00	SME 5900A Sonic Link Bonus	⊕ 102.57 ⊕ 15.00	Siltech HF-6 Sonic Link Green	•
aaf GM20	60W	2,750	Cable Talk Improved 2/Tape	0	50.00	Sonic Link Red	© 25.00	ChordCo Codac	•
aaf GM100	100W	4,490	Cable Talk Studio 2	0	65.00	Sonic Link Silver pink	€ 35.00	ChordCo Prodac	•
aaf GM200 dis DA8	200W 80W	8,000 3,333	Cable Talk Professional 2 Cable Talk Broadcast 2	(1)	85.00 100.00	Sonic Link Black Sonic Link White	♦ 49.00♦ 65.00	Transparent Cable PDL Trichord Pulsewire 75D	•
dis DA7	100W	5,290	Cable Talk Reference 2	©	150.00	Sonic Link Winte	70.00	Trichord Pulsewire 110D	
dis JA30	30W	5,980	Cable Talk Signature 2 Gold	0	300.00	Sonic Link Violet	€ 85.00	Vampire Wire DI/1	•
dis JA300B dis JA80	10W	9,000 9,912	Cambridge Atlantic Cambridge Arctic	0	10.00 20.00	Sonic Link Maroon Sonic Link Blue Nickel	⊕ 125.00● 150.00	Van Den Hul Source HB Van Den Hul Videolink	(
dis JA200	60W 160W	15,518	Cambridge Pacific	(1)	30.00	Sonic Link Vermillion	195.00	Van Den Hul AES-EBU 110	*
lis JA500	400W	21,500	Cambridge Studio Reference	0	40.00	Sonic Link Red earth	● 300.00	Van Den Hul First	•
ell KAV500/2	100W	3,485 6,490	Cardas Audio 300B-Microtwin	0	115.00 200.00	Sonic Link Black earth	450.00695.00	Van Den Hul Second	•
ell FPB200 ell FPB300	200W 300W	9,500	Cardas Audio Quadlink-Five Cardas Audio Cardas Cross	③	360.00	Sonic Link Blue earth Sonic Link Black Rhodium	995.00		THE RES
ell FPB600	600W	12,900	Cardas Audio Hexlink-Five C	•	530.00	ChordCo Chrysalis	€ 33.00		学业组织
ell KAS2	200W	20,000	Cardas Audio Hexlink Golden-5 C	0	600.00	ChordCo Cobra	€ 50.00		
xicon 225 xicon 501	250W	2,500 5,000	Cardas Audio Golden Cross Connections UK Ultra	0	700.00 28.00	ChordCo Siren ChordCo Chameleon	© 65.00 © 85.00		
in Klout	500W 80W	2,400	Connections UK Midas	(1)	39.00	ChordCo Solid	⊕ 85.00⊕ 99.00		
mley M125	120W	3,750	Connections UK HD	③	46.00	Transparent Cable Musichord Int	€ 48.00		
mley M250	250W	7,500 2,450	DNM-Reson TCC75		34.0041.00	Transparent Cable The Link Transparent Cable Music Link	⊕ 92.00 ⊕ 119.00	上次に	1
gnum Class A mono gnum A200SE	180W 275W	3,750	DPA Slink DPA White Slink		41.0075.00	Transparent Cable Music Link Trichord Pulsewire 75	(i) 119.00 (ii) 169.00		71-
rantz Model 8	35W	3,500	DPA Black Slink		245.00	Vampire Wire CC	③ 24.00		MI
rantz Model 9	70W	4,000	Expressive Tech IC-1	0	700.00	Vampire Wire CCC/II	€ 58.00		
rk Levinson 331 rk Levinson 332	100W 200W	4,495 6,495	Gamma Wow Balance Goertz Interconnect	©	799.00 148.00	Vampire Wire SC/II Vampire Wire SC/IV	⊕ 98.00 ⊕ 144.00		
rk Levinson 333	300W	8,495	GT Audio Intercon		130.00	Vampire Wire AI/2	259.00		
rk Levinson 33H	150W	19,395	Henley HSP10	©	20.00	Vampire Wire SL	412.00	SPEAKER CA	BLES
tisse Ref Monoblocks racus Tentare	180W	8,000 2,245	Henley HSP50 Henley HSP100	©	35.00 65.00	Van Den Hul Storm Van Den Hul Source HB	② 25.00 ③ 50.00	KEY KEY	
racus lentare racus Cantare	75W -W	8,995	Henley HSP200	©	95.00	Van Den Hul D102 IIIHB	© 70.00	⊕ – stranded construc	tion
se Model 160 Ser. II	160W	2,290	Heybrook Black Flash		49.95	Van Den Hul Thunderline HB			
se Model 150	125W	2,690	Insert Audio Focus 1.2	0	21.50	Van Den Hul First	210.00	o – solid-core constru	
se Model 175 Ser. II se Model 300 Ser. II	175W 300W	3,490 3,990	Insert Audio IC100 Mk II Insert Audio Status 3.4	(1)	46.95 160.00	Van Den Hul Second Van Den Hul MC Gold	② 240.00 ③ 400.00	Price per mono metre	untermina
sical Fidelity F16	200W	2,500	lxos 104	©	20.00	Van Den Hul MC Silver IT	① 1,240.00		
isical Fidelity F19	300W	4,000	Ixos 1003	0	30.00	Van Den Hul MC Silver IT Bal	① 1,560.00	Acoustic Energy AESC-C3	•
pworth M100 pworth M200	100W	2,645 3,825	Ixos 1002 Ixos 103	©	40.00 45.00	XLO Type 150 XLO Type 0.1	⑤ 50.00 ⑥ 180.00	Apertura Silver Art Yam Church M2000	0
pworth M200 ksan ROK-M1.5	200W 160W	2,250	Ixos 103	•	60.00	льо туро ол	100.00	Art Yam Church 5000	0
earne Phase 1 Pwr Ref	100W	2,199	Ixos 101		100.00	国的基础和新 斯	是是自身的	Audio Note AN-D	•
nic Frontiers Power 1	55W	2,495 4,995	Ixos 100.X03 Kimber PBJ	©	150.00 68.00			Audio Note AN-B Audio Note AN-L	0
nic Frontiers Power 2 nic Frontiers Power 3	110W 220W	9,995	Kimber PBJ Kimber KC1	©	96.00			Audio Note AN-SP	•
mo Model Ten/M	240W	4,200	Kimber Hero	•	110.00		Brown and and	Audio Note AN-SPx	•
nfire Sunfire	300W	2,170	Kimber Silver Streak	0	180.00			Audioquest Type 2 Audioquest F-16	**
· A A3000 k Electronics Tornado 5	190W 200W	3,000 2,100	Kimber KCAG Kimber KCTG	©	390.00 720.00	70.40		Audioquest Type 6	•
sserac TAMP-60	60W	7,350	Kronos Konnekt 3	©	49.00			Audioquest Indigo 2	•
logy 958	100W	3,395	Kronos Konnekt 2		99.00		1	Audioquest Crystal	**
ne Tech Genesis Sig. ne Tech Synergy DMA	100W	4,700 6,400	Kronos Konnekt 1 LAT International IC-50	(1)	199.00 37.00			Audioquest Forest Audioquest Argent	0
ison Smart 845	150W 24W	3,250	LAT International IC-50 LAT International IC-80	(1)	60.00			Audioquest Clear 3	•
ison Palladio	32W	11,995	LAT International IC-100-D		● 89.00			Bandridge LC7409	•
Den Hul Power amp	65W	2,500	LAT International IC-200 Mk II	-	151.00340.00	DIGITAL INTERCO	NNECTS	Bandridge LC4110 Bandridge LC3410	•
POW-1	200W	2,250	Lieder Chanson Lieder Lek	(1)	340.00 420.00	KEY	MNECIS	Bandridge LC3210	0
		A STATE OF THE STA	Lieder Het Lied	©	420.00		tion	Bandridge LC3219	•
TLIII			Lieder Song	0	580.00	- stranded construct		Bandridge LC3220	0
			Lieder Maas Lieder Rijn	③	620.00 1,000,00	 solid-core construction 		Bandridge LC3310 Bandridge LC3240	0
	1000		Lieder Rijn Lieder Waal	③	1,400.00	Prices of interconnects		Cable Talk The Flat One	0
		- 100	Lumley Silver 12/2	©	115.00	for a one-metre termina	ated pair.	Cable Talk Theatre 2	•
			Lumley Silver 14/4	0	175.00			Cable Talk Talk 3.1 Cable Talk Overture 2.1	0
FITTE			Moth Leyline Black Moth Leyline Grey	•	100.00 200.00	Apertura Model B Apertura Model A	(a) 139.00 (b) 255.00	Cable Talk Talk 4.1	0
	/>=		Nordost Magic	***	35.00	Apertura Model A Apogee Digital Wyde Eye	② 255.00 ② 20.00	Cable Talk Talk 3.1 Biwire	•
	YOL	-	Nordost Black Knight	0	60.00	Apogee Digital Wyde Eye Bal.	⊕ 30.00	Cable Talk Concert 2.1	0
上 少く			Nordost Blue Angel	0	98.00	Art Yam Church 5000	② 275.00	Cable Talk Talk 4.1 Biwire Cable Talk Symphony 3	()
		F F W	Nordost Blue Heaven Nordost Red Dawn	③	145.00 285.00	Audioquest Digital/video 1 Audioquest Digital/video 2	⊕ 30.00⊕ 60.00	Cable Talk Concert 2.1 Biwire	0
股級基本 的基本主义	对于	東部開閉	Nordost SPM	0	825.00	Audioquest Optilink X	90.00	Cardas Audio 300B-Microtwin SC	0
CABLES ANALOGUE INTER		TS	Ortofon 7N interconnect	③	250.00	Audioquest Digital PRO	100.00	Cardas Audio Quadlink-Five SC Cardas Audio Cross SC	(1)
KEY	SOMMEC		Precious Metals Silver Signal 35 Precious Metals Silver Signal 50	©	40.00 50.00	Audioquest Optilink Pro Audioquest Optilink Z	149.00 179.00	Cardas Audio Cross SC Cardas Audio Hexlink-Five SC	0
	otion	125618	Precious Metals Silver Signal 52	©	70.00	Cable Talk Digital 2	② 78.00	Cardas Audio Hexlink Golden5 SC	•
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Aura CD100		1010	400 299
Carver SDA-400 Carver MV-5	■•	10	469
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Pink Triangle Numeral		1010	999
Pioneer PD-506 Primare D20		100 100 100	550 800
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TEAC VRDS-7		100 100 100	895 599
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Micromega Solo		11 0	2,750
Musical Fidelity FCD		110	1,500
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Primare 302		1010 1010	1,800
Roksan Attessa-DP3P		100 100 100 100	1,495
Sherwood CD1		III10	1,100
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Audiomeca Kreatura SE	1010 1010	1,400
Audiomeca Mephisto	1D10	2.350
Cambridge Discmagic One	ID10	300
Conrad-Johnson DR-1	1 010	1,795
DPA Enlightenment Dry	ID10	725
Jadis JD3	ID10	4.850
Jadis JD2	II)10	4.990
Jadis JDI		12,500
Krell KPS-20t	III)10	8,490
Linn Karik	1010	1,850
Mark Levinson 37	11 010	3,995
Mark Levinson 31.5	1010	9,295
Meracus Imago	1010	3,995
Meridian 500	1010	1,245
Micromega Drive 3	1010	750
Micromega Data	1010	2,250
Monrio Bitmatch	1010	950
Muse Model 5	1010	1,800
Pink Triangle Cardinal II	1010	875
PS Audio Lambda TR	1010	2,250
PS Audio Lambda AT&T	1010	2,778
Roksan Attessa-DP3	1010	1,295
Sonic Frontiers SFT-1	1010	2,295
Sonic Frontiers Transport 3		5,995
T+A CM1200R	1010	990
TEAC VRDS-T1	1010	550
TEAC P-30 Theta Digital Data Basic II	1010	2,500
Theta Digital Data III NTSC/PAL	1010	
Thorens TCD-2000	1010	5,45
Trichord Digital Turntable	11010	699
Tube Tech Fulcrum	1010 1010	1.000
Wadia 8	1010	3,19
Wadia 20	1010	4,3
110010 20	1010	4,5
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		ARTIN MINISTER
AMC CDM7VAC		200
Apogee Digital DA-1000	0	3,395
Arcam Black Box 50		480
Arcam Black Box 500 Audio Note DAC1		750 675
Audio Note DAC2		1,099
Audio Note DAC3		1,750
Audio Research DAC5		2,148
Audio Research DAC5 Audio Research DAC3		2,335
Audio Research DAC3		4,195 4,555
Audio Synthesis DAX Decade	0	2,795
Audiolab 8000DAC	0	900
Audiomeca Elixir		799 1.850
Audiomeca Ambrosia Boulder 2020	0	17,750
Cambridge Dacmagic 2 Mk II	U	150
Chord DSC1100	0	2,575
Chord DSC1500	0	3,850
Conrad-Johnson D/A-3 Conrad-Johnson D/A-2b	0	1,195 1,990
Denon DCD-425		150
DPA Little Bit 3	0	325
DPA Renaissance DAC		570
DPA Enlightenment DAC DPA SX128		825 2,000
DPA SX256		4,000
DPA SX512		8,000
Jadis JS3		2,129
Jadis JS1 LFD DAC2		8,068 1,950
LFD DAC3		3,000
Linn Numerik		1,500
Manley Professional DAC-20	0	6,950
Mark Levinson 36	0	3,995
Mark Levinson 30.5 Meracus Auriga		15,950 1,295
Meracus Flagrare		2,495
Meridian 566		1,095
Micromega DAC 2 Micromega Dialog		750 2,000
Monrio 18B2	0	795
Muse Model 2		2,190
Muse Model 2 Plus	•	2,500
Musical Fidelity X-ACT Musical Fidelity X-DAC		200 300
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
Roksan Attessa-DA2	0	595
Sonic Frontiers SFD-2 Mk 2	6	5,295
Sonic Frontiers Processor 3	•	6,995
Sumo Theorem II Sumo Theorem IIB		945 1,155
TEAC D-T1	0	500
TEAC D-700		600
Theta Digital Chroma Std		849
Theta Digital Pro Geny Theta Digital Pro Prime II		1,145 1,800
Theta Digital Pro Basic III		2,990
Theta Digital Gen V SE		4,300
Theta Digital Casablanca LS		5,910
Thorens TDA-2000 Trichord Pulsar Ser One	0	700 1,395
Tube Tech Fulcrum		1,400
Wadia 12		1,530
Wadia 15		3,790
Wadia 64.4		4,750
Wadia 16 Wadia 7		7,395 9,995
Wadia 9		12,790
Woodside DVAC-18		1,499



KEY
MD – MiniDisc
DAT – Digital Audio Tape
©® – portable

 Denon DMD-1300
 MD
 500

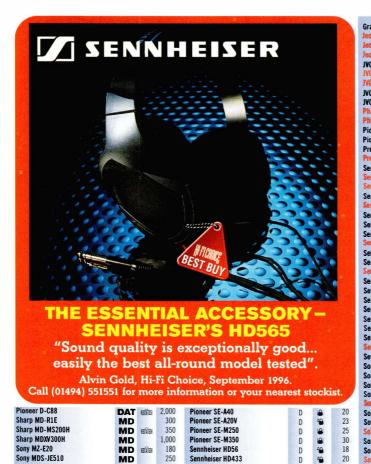
 Kenwood DM-7090
 MD
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 Onkys MD 122
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 Pioneer PDR-04
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 Pioneer DMT
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Sharp MD-MS200H

MD

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HEADPHONES

 dynamic type, compatible with virtually all normal headphone sockets.

- electrostatic type; generally includes a separate power supply. - open-back construction.

🔊 – closed-back cor	structio	n.	
Up to	£40		
Aiwa HP-X301	D	101	20
Aiwa HP-VX303	D	101	25
Aiwa HP-X705	D	181	40
AKG Rox	D	IAI	30
Audio Technica ATH-P5	D	40	20
Beyer DT111	D	40	15
Beyer DT211	D	40	31
Beyer DT211TV	D	40	35
JVC HA-CD88	D	40	18
JVC HA-D525	D	IAI	20
JVC HA-F65	D	IAI	20
JVC HA-D626	D	IA.	25
Kenwood KPM-310	D	10	18
Kenwood KPM-410	D	101	25
KLH KHP201TW	D	IAI	21
KLH KHP-300V	D	101	25
KLH KHP-420V	D	40	33
Maxell HP-1000	D	101	20
Maxell HP-2000	D	101	25
Maxell HP-3000	D	*	30

FIUILEEL SE-MAN	U		21
Pioneer SE-A20V	D	40	2
Pioneer SE-M250	D	10	2
Pioneer SE-M350	D	IAI	31
Sennheiser HD56	D	40	18
Sennheiser HD433	D	40	21
Sennheiser HD435 Vegas	D	40	31
Sennheiser HD435 Manhattan	D	40	31
Sennheiser HD60TV	D	Da.	41
Sony MDR-W20G	D	40	18
Sony MDR-E837	D	40	18
Sony MDR-P70	D	•	18
Sony MDR-ED238	D	40	21
Sony MDR-009TV	D	40	21
Sony MDR-A34L	D	40	21
Sony MDR-E848	D	*	21
Sony MDR-P1TV	D		2
Sony MDR-CD270	D		31
Sony MDR-E868	D	*	3
Sony MDR-V400	D		41
Sony MDR-D11	D		41
Technics RP-HT280	D		31
Technics RP-HT300	D		41
Vivanco SR250	D		1
Vivanco SR150	D		21
Vivanco SR200	D	101	2
Vivanco SR300	D	101	3
Over £4	1	Seat 1	
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Vivanco SR150	D		20
Vivanco SR200	D	101	25
Vivanco SR300	D	IOI	30
AKG K301	D	40	80
AKG K222IR	D		100
AKG K401	D	*	120
AKG K501	D	40	150
AKG K333IR	D		150
AKG K444IR	D		180
AKG K290S	D	181	250
AKG K1000	D	76	700
Audio Technica ATH910PRO	D	18	80
Audio Technica ATHD40FS	D		120
Audio Technica ATHM40FS	D		120
Audio Technica ATH911	D	40	120
Beyer DT311	D	40	50
Beyer DT411	D	40	63
Beyer DT511	D	200	10
Beyer DT801	D		125
Beyer DT811	D	an Oct	14
Beyer DT100	D		160
Beyer DT901	D	40	160
Beyer DT911	D	-	170
Denon AH-D210	D	10	4
Denon AH-D350	D	101	6
Denon AH-D550	D	(4)	8
Denon AH-D650	D		9
Denon AH-D750	D		130
Denon AH-D950	D	101	150
Grado SR40	D		4
Grado SR60	D	40	75
Grado SR80	D	40	100
Grado SR125	D	*	150
Grado SR225	D	40	200
Grado SR325	D	30	30
Grado RS2	D	40	49

Grado RS1	D	40	695
Jecklin Float Model 1	D	**	79
Jecklin Float Model 2	D	***	99 3 99
Jecklin Float ELS JVC HA-D727	E	10	43
JVC HA-W60	D	IAI	49
JVC HA-D910	D	IAI	65
JVC HA-D1000	D	101	250
JVC HA-F25	D	10:	699
Philips SBC 3396	D	101	70
Philips SBC HP9000	D		90
Pioneer SE-M550 Pioneer SE-M750	D D	IAI	50 60
Precide Ergo Model 1	D	40	120
Precide Ergo Model 2	D	40	140
Sennheiser HD445	D	*	45
Sennheiser IS 380	D	(55
Sennheiser HD455	D	***	55
Sennheiser HD465 Sennheiser HD475	D	101	65 80
Sennheiser HD25 SP	D D	IAI	90
Sennheiser HD535	D	40	105
Sennheiser IS450	D	40	120
Sennheiser HD545 Ref	D	*	125
Sennheiser HD250II	D		150
Sennheiser HDC 451-1 Sennheiser HD565 Ovat'n	D	**	150 150
Sennheiser HD265 Linear	D D	IQI	150
Sennheiser HD25-13	D	IOI	160
Sennheiser HD25	D	101	160
Sennheiser HD 580 P'cision	D	40	200
Sennheiser HD600	D	₩.	250
Sennheiser Lucas		10	280 859
Sennheiser IS850 Sennheiser HE60/HEV70	D E	40	998
Sennheiser Orpheus	E	10	9,652
Sony MDR-IF120K	D	IA	50
Sony MDR-E888	D	40	55
Sony MDR-IF125RK	D		60
Sony MDR-V600 Sony MDR-F1	D		70 100
Sony MDR-NC5	D D	Δ	100
Sony MDR-IF420RK	D	IA:	100
Sony MDR-CD770	D		100
Sony MDR-D77	D		130
Sony MDR-IF520RK	D		150
Sony MDR-CD1700 Stax SR-0001	D E	AQ.	200 280
Stax SR-Lambda Nova C	E	ΔO	370
Stax Lambda Nova Basic	E	100	449
Stax SR-Lambda Nova S	E	40	450
Technics RP-HT400	D		50
Technics RP-HT600 Technics RP-HT700	D		60 70
Technics RP-DJ1200	D	40	130
Vivanco IR5800	D	40	50
Vivanco IR5700	D	101	50
Vivanco IR5000	D	40	50
Vivanco SR850	D		50
Vivanco SR650 Vivanco SR750	D	10	50 60
Vivanco IR6000	D	40	70
Vivanco SR909	D	40	70
Vivanco FMH 3000	D	101	80
Vivanco IR6500	D	₽₽	90
Vivanco SR10001FL	D	40	110 120
Vivanco IR7100 Vivanco IR7600	D D	计算机 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	140
Vivanco SR200IFL	D	40	140

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ARIVES AT A	
JPPORTS tands	
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Alphason NCI	60	47
Alphason Akros I	60	49
Alphason RS1	120	49
Alphason Akros II	60	59
Alphason NCII	60	84
Alphason HDS-40/M	60	85
Alphason Titan S	60	125
Apollo AZ6	66	80
Arcici Q-1	30	299
Arcici Q-2	30	299
Atacama BD21	56	55
Atacama BD17		55
Atacama BD25		60

Ì	Manager CE1C		65
3	Atacama SE16		
Ì	Atacama SE12		65
Ì	Atacama SX500		67
ì	Atacama F2		70
ş	Atacama F1		70
Ì	Atacama SX600		70
ì	Atacama SL200		70
į	Atacama SE24		70
į	Atacama SE20		70
ì			2000
3	Atacama SX700		73
3	Atacama SL300		73
9	Atacama TP600		75
į	Atacama TP500		75
1	Atacama SE615		75
1	Atacama SE515		75
1	Atacama SE415		75
1	Atacama SL400		76
1	Atacama SE1000S		80
1	AVF Tower P6144BP	60	35
1	BCD Model 1010		495
į	Credo STD 001	60	284
1			
ì	Custom Design CD 500	50	35
ł	Custom Design AS 630AV	65	40
1	Custom Design AS 130	25	40
Į	Custom Design Tri 100	50	50
	Custom Design R/S 200	50	50
į	Custom Design R/S300	60	70
Ì	Custom Design Tri 300	55	85
1	Custom Design SCS 24	60	85
1	Custom Design X24	61	109
1	Custom Design C 20	50	109
	Custom Design H1	50	275
	Deadrock 903	302.	60
	Deadrock 902	60	60
	Deadrock 901	47	
		39	60
	Dynaudio Trophy		120
	Dynaudio Master		200
	Dynaudio Ultima		290
	Harbeth HL-Stands	21	249
	Heybrook Stand-ULT	3	55
	Heybrook Stand-S6	63	69
	Heybrook Stand-S4	48	69
	Heybrook Stand-S1	47	119
	JPW MS2	45	45
	JPW MS3	61	55
	JPW MS1	46	80
	JPW HS1	58	120
	JPW HS2	45	120
	Kudos Audio Arrow	133	50
	Kudos Audio S-50	60	
		60	100
	Kudos Audio S-100	63	270
	Mission Micrometer	58	70
	Mission Entasis	58	98
	Opera S1	60	345
	Pioneer CP-7		50
	Pioneer CP-8		80
	Projekt Signature	55	80
	Revolver RS1	50	70
	Royd Royd	55	99
	SD Acoustics SD Alexandra	50	369
	Silverado Silverado 1 Stand	60	350
	Sonus Faber Ironwood	00	475
	Sonus Faher Stonewood		497
	Sound Org 2037		55
	Sound Org 2027		
			55
	Sound Org Z026		55
	Sound Org Z518	45	65
	Soundstyle X6118	42	100
	Stands Unique Speaker support	59	159
	Stands Unique Tuned Spkr Support	59	220
	Stands Unique Tuned Carbon Fibre	59	299
	Stands Unique Vivas CF Spkr Supp	60	349
	Target TR60	60	68
	Target R1	53	280

largot KI	33				
EQUIPMEN	NT SUPPORTS				
KEY					
3 — number of shelves					
Alphason SM17	1				
Alphason VSM17	1				
Alphason GSM17	1				
Alphason GMV1P	1				

49 85 85 110 120 150 150 190 Alphason R17/17 Alphason GMH1P Alphason GR17/17 Alphason VR17/17 Audiophile Base 01 Audiophile S4T120 79 280 Audiophile S4T120P BCD Model 1006/8 BCD Model 1000 560 795 1,250 Custom Design G3 Custom Design Aspect 650 130 240 Custom Design Aspect 500AV 270 270 60 90 130 Custom Design Aspect 850 Deadrock 701 Deadrock 802 Deadrock 703 Deadrock 704 Deadrock 705 190 230



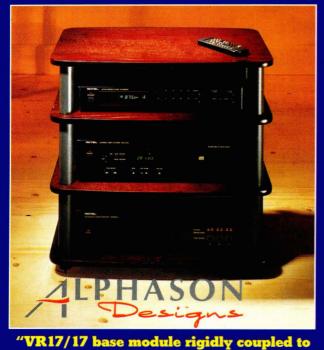
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	MONTH BY	no person		bear to	Section 200
Fi-Rax R4	6	399	Projekt B4	8	340
Frameworks H175	1	130	Projekt B Multi	8	345
Frameworks FS1		150	Projekt B3ii	7	345
Frameworks FT2		285	Projekt C3	9	375
Frameworks FT3		350	Projekt D3	12	420
Frameworks H700	B) B	355	Projekt C3i	8	420
Frameworks H900	B0. B	389	Projekt B5	10	425
Frameworks H500/H175	3	404	Projekt C3iii	11	465
Heybrook Stand-Signature	4	249	Projekt C3ii	10	465
Impulse Iso-plate		190	Projekt D3i	12	500
JPW 3 Tier	3	80	Projekt C4	12	500
JPW 5 Tier	5	100	Projekt C3iv	10	510
Kudos Audio Corinthian	5	600	Projekt D3ii	14	545
Linn K3000		85	Projekt C Multi	9	555
Mana Sound Frame	8 8	125	Projekt D4	16	560
Mana Mini Table		150	Quadraspire Q4S mini shelf	1	60
Mana Power supply table		150	Quadraspire Q4S shelf	1	60
Mana Reference flat top	10 B	150	Quadraspire QKS Cabinet shelf	1	80
Mana Sound Shelf	B 14 B	175	Quadraspire QAV shelf	1	120
Mana Sound Base		175	Quadraspire Q4M mini table	4	200
Mana Sound Stage		200	Quadraspire Q4 table	4	200
Mana Sound Table	B10 1 B	235	Quadraspire QAV table	3	300
Mana Ref Shelf	B 8	325	Quadraspire Q4SP Table	4	320
Mana Reference Table		350	Quadraspire QAVSP Table		400
Mana 2 Tier Amp stand	B11 B	375	Quadraspire QK Cabinet	4	400
Mana 3 Tier Amp Stand		450	Reson DOMOPS	1	195
Mana 4 Tier Amp Stand	B	500	Reson DOMOWS	1	195
Mana 5 Tier Amp Stand		600	Sound Org Z022	1	65
Mana 6 Tier Amp Stand	B B	700	Sound Org Z021	2	78
Mission Hark		298	Sound Org Z030	3	100
Optimum G2	2	69	Sound Org Z060	4	120
Optimum G2/Pedestal	2	99	Sound Org Z038	5	135
Optimum G4/Pedestal	5	130	Sound Org 2540	4	140
Optimum OPT 3406	3	149	Sound Org 2545	4	140
Optimum G5/Pedestal	6	150	Sound Org Z560	5	160
Optimum OPT 4906	4	199	Sound Org Z530	3	170
Optimum OPT 6606	5	249	Soundstyle X300	3	180
Optimum OPT 340	3	249	Soundstyle X305	3	210
Optimum OPT 490	4	299	Soundstyle X053	4	210
Optimum OPT 440	4	299 299	Soundstyle X050	4	210
Optimum OPT 10206	6	5000 T	Soundstyle X6300	3	215
Optimum AV 300	3	329 349	Soundstyle X100	4	220
Optimum OPT 700	5	349	Soundstyle X6110 Soundstyle X058	4	230 240
Optimum OPT 610	5	349	\$5000000000000000000000000000000000000	5	250
Optimum OPT 660 Optimum OPT 1020	5	349	Soundstyle X310 Soundstyle X105	3	250
SECURITION OF THE PROPERTY OF	6	450		5	255
Optimum OPT 1190 Proiekt A3	7 3	145	Soundstyle X6053 Soundstyle X6100	4	265
Projekt A4	4	145	Soundstyle X6310		275
Projekt A5	1000	235	Soundstyle X6058	3	275
Projekt B3	5	255	Soundstyle X6105	5	300
Projekt A6	6	280	Soundstyle Finewoods W105	5	300
Projekt B3i	6	300	Stands Unique Isolation Platform	5	52
1 Tojoni Dai	0	300	Stands Unique Isolation Platforni	1	32

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Stands Unique Sound Support Stands Unique Compact Sound Supp 315 Stands Unique Sound Support 10 Stands Unique Sound Twr Cabinet 315 Stands Unique Ref Wall Support 550 Stands Unique Ultimate Tower Stands Unique Ref Floor Support 689 10 799 110 Townshend Seismic Sink 1-3D 400 Town shend S/Sink Stand 1-4 999 Townshend Seismic Sink 3-4 1 250 Wilson Benesch Standard Shelf 130 265 Wilson Benesch Kevlar Shelf 270 590 Wilson Benesch Asside Wilson Benesch Triptych 720 990



LOUDSPEAKERS

Ⅎ – floorstander; larger models requiring no separate stand. stand mount; smaller models designed to be raised above the floor. wall mount; designed to be hung on the wall or mounted in-wall. box type, including infinite baffle, reflex and transmission line types. 🗇 – horn type; mostly large and very

☐ - panel type, including electrostatic and planar magnetic types.

ZYP A1

Acoustic Energy AE200

Up to £13	D		
Allison Micro Monitors	0	0	95
Allison Mini References	0	0	120
Celestion 12i	0	0	119
Denon SC-M2		0	80
Gale Mini Monitors	0	0	70
Genexxa GX300	=	0	80
Genexxa GX330	M D	0	80
GLL Arena	<u> </u>	0 0	99
Goodmans Active 75	<u>=</u>	0	65
Interaudio XL1000	며 며 며 며 미	0	130
Jamo Studio-80	<u>=</u>		70
Jamo Studio-80 Jamo SAT-90	± ±	0	90
		0	10300
Jamo Cornet 25	=	0	100
Jamo D-110	0 0 0	0	100
Jamo SAT-170	=	0	110
Jamo Studio-110	<u>-</u>	0	110
Jamo Cornet 35	9	0	120
Jamo Artina	<u>=</u>	0	120
Jamo D-115	<u>=</u>	•	120
Jamo 28	0 0 0	0	125
JBL TLX111		0	120
JPW Mini Monitor	2		60
JPW ML110		0	70
JPW Gold Monitor	0	0	80
JPW ML210		0	80
JPW ML310	9	0	90
JPW ML410	0	0	100
JVC SX-SC1VBK	<u>_</u>	0	60
JVC SP-V50 JVC SP-X220TBK	<u>-</u>	0	80
JVC SP-X550BK	Ŧ	0	100
KEF Coda 7	Ŧ	0	130
Kenwood LS-90UK	2	0	129 130
Mission 731i	-	0	130
Mordaunt-Short VS-100	0 0	0	100
Mordaunt-Short MS05i		9600	100
NAD 801	9	0	100
Pioneer CS-3030	<u>=</u>	0	120
Polk AB410		0	100
Realistic Minimus 26	→	0	56
Realistic Minimus Pro-77	<u>=</u>	0	100
Revolver Beretta	-	0	100
R Allen Minette 2	0	0	129
Solid HCM2	-	0	130
Sonv SS-86E	-	0	100
Tangent Monitor 3	<u> </u>	0	60
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Tannov More 0000000000000 म न न न न न न न न न oy Mercury M1 TDL Nucleus 1 60 TEAC LS-X8 Mk II 80 Technics SB-CS55 Technics SB-CS75 80 100 Visonik 5202 129 W'dale Valdus 100 80 100 W'dale Valdus 200 110 W'dale Modus Micro 110 Acoustic Energy AE100 Allison Model 4A 0 0 200 170 0000000000000 170 和 四 四 四 四 四 四 刊 199 190 Bose 101 **Boston CR6** 149 149 **Boston Micro 80 Sat** 169 **Boston Runabout** 169 Boston 335 Boston 351 189 **基本日日日本日 Boston CR7** 199 200 Celestion 15i 199 0000000 Denon SC-F313 160 四十四十四 140 Gale 3s 150 exxa GX650 **GLL Imagio IC100** 170 0 Infinity SM65 150 000000000000 Infinity Reference 11i DI 01 01 Interaudio XL2000 200 150 Jamo 38 Jamo 525 150 * * * * * * * * 170 Jamo 560 170 Jamo Cornet 65 Jamo Studio 180 170 Jamo D165 200 200 JBL TLX121 150 10 10 10 0 0 0 170 JPW SS551 200 10 to 10 to 10 to 10 0000000 KEF Model 60S 199 Kenwood LS-200G KLH Model 21 155 KLH Model 11 KLH Model 31 155 ssion 732i 150 Mordaunt-Short VS-200 9 Mordaunt-Short MS20i Pearl 200 Mordaunt-Short VS-300 → ai ai → ai 200 200 Mordaunt-Short MS20i Pioneer CS-5030 Polk M2 170 180 200 200 200 PolkAB610 き 日 日 QLN Qubic111 0 10 10 Revolver The 230 169 Revolver Purdey I R Allen Minette 3 199 159 R Allen Dim'n 5/1 Compact R Allen RA6 199 Royd A7X 155 Sequence 200 Solid Monitor ¥ 199 200 150 Sony SS-126EB 业 Sony SS-176E 200 业 **Tangent Monitor 11** 180 140 190 100 TDL RTL 1 TOL NFM 1 Technics SB-CS95 150 2 Visonik 6003 10 10 143 170 140 150 0 0 W'dale Modus Music Two 2 0 200

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Audio Gem Opal	<u> </u>	0	230	Polk AB505	±	0	220	Celestion 30i	± I	0	449	Mus Tec Harrier
B&W CWM6i	±	0	280	Polk M3 II	→	0	220	Celestion 35i	Ŧ	0	499	NAD 804
B&W DM602	2	0	300	Polk RT5	±	0	250	Cerwin-Vega VS-10	#1	0	350	Neat Critique
Bose 151	0	0	270	Polk RT7	9	0	300	Clements 300si	9	0	395	NHT SuperOne
Bose 161	<u></u>	0	275	Polk M5	±	0	300	Dali 104B	±1	0	370	NHT Model 1.5
Bose 201	<u>P</u>	0	290	Promenade SP1	9	0	299	Dali Royal	+1	0	500	Opera Duetto
Boston 361	*	0	219	QLN Qubic 122	±	0	270	Def Tech Celsius	9	0	395	Origin Live OL-1AS
Boston CR8	- 9	0	239	Rega EL8	+1	0	298	Epos ES12	<u> </u>	0	499	Origin Live Monarch
Boston 381	*	0	259	Revolver The 250	#1	0	250	Faraday SG	<u>_</u>	0	345	Pentachord A
Boston CR9	<u> </u>	0	279	R Allen Dimension Five 1	<u>+</u> 1	0	239	Faraday Siren	9	0	445	Pioneer S-LC2
Boston Voyager	9	0	299	R Allen RA8	9	0	249	GLL Imagio IC120	+1	0	400	Polk AB705
Castle Isis		0	250	R Allen RA8M	9	0	249	GLL Imagio IC130	#1	0	500	Polk RT8
Celestion 23i	<u> </u>	0	299	R Allen Dimension Five 2	Ŧ	0	269	Heybrook Heylios	9	0	389	Polk RT10
Cerwin-Vega VS-8	0	0	250	Rogers db101	9	0	250	Heybrook Heylo	Ŧ	0	439	Polk AB805
Cerwin-Vega CT-330	+1	0	300	Rogers GS3	9	0	279	Infinity SM105	9	0	350	Prof Monitor Co TB1S
Chario Syntar 100	<u> </u>	0	250	Royd The Envoy	9	0	249	Infinity SM115	Ŧ	0	400	Prof Monitor Co TB1SI
Dali 102B	<u> </u>	0	260	Royd Minstrel	<u>+</u>	0	275	Infinity SM125	Ŧ	0	500	Prof Monitor Co TB1
Dali 150	<u> </u>	0	300	Sequence 300	→	0	249	Jamo Classic 6	Ŧ	0	330	Prof Monitor Co TB1M
Faraday FS1	且	0	245	Solid HCM1	<u>P</u>	0	250	Jamo Cornet 75	<u>±</u>	0	330	Prof Monitor Co XB1
Gale 5B	¥	0	220	Sony SS-176EB	Ŧ	0	250	Jamo BX-100A	Ŧ	0	350	Promenade SP2
GLL Imagio IC110	+	0	260	Tannoy Mercury M3	<u>+</u>	0	230	Jamo 98	¥	0	350	Promenade SP3
GLL Imagio IC115	±1	0	300	Tannov Precision P10	9	0	300	Jamo 407A	9	0	350	QLN Qubic 166
Hevbrook Optima	+1	0	259	TDL RTL 2	<u>.</u>	0	280	Jamo D365	±	0	400	Rega ELA
Heybrook Heylette	9	0	269	Visonik 7003	9	0	203	Jamo Cornet 95	±1 ▼1	0	400	Revolver The 260
Heybrook HB1	<u>_</u>	ō	269	Visonik SUB5	<u></u>	0	259	Jamo Classic 8	<u>±</u> 1	0	400	R Allen Dimension Five
Infinity SM85	<u> </u>	0	250	W'dale Modus Music Four	9	0	230	Jamo Graphic	9	0	400	R Allen Dimension Fiv
nteraudio XL3000	<u>=</u>	0	230	W'dale MFM1	<u> </u>	0	250	Jamo 128	<u>+</u>	0	450	Rogers GS5
nteraudio XL4000	<u>_</u>	0	295	W'dale Valdus 500	±1	0	300	Jamo BX-150A				
lamo 892	<u>-</u>	0	220	Yamaha NS10M	<u>•</u>	0	300		<u>*</u> 1	0	450 480	Rogers GS6
lamo Classic 4	9	0	250	ZYP A1T	=	0	219	Jamo Atmosphere Jamo 477A	±	0	1830 C.	Rogers GS8
Jamo Art	<u>+</u>	0	270	ZYP A2S	= =	0	275	JBL LX6	±1	0	500	Rogers C6/20
lamo Deco Art	±	0	280	ZYP A2ST	=	0	295	JBL TLX161	Ŧ	0	350	Royd The Squire
Jamo D265	<u>+</u> 1	0	300	£301 to			253	JBL PS8	2	0	400 500	Royd Minstrel SE
Jamo 307A	9	0	300	Acoustic Energy AE109	<u>+</u> I	0	350	JBL TLX171	9	0	500	Royd Doublet
BL LX2		0	250	Acoustic Energy AE209			480		Ŧ	0		Ruark Icon
IBL TLX151	9	0	300	Acoustic Energy AE120	<u>+</u> 1	0	500	JM Lab Micron	=	0	395	Sequence 400
IPW ML710	±1	0	230	Allison Model 2A	*	0	420	JM Lab Megane	9	0	495	Solid Verticale
JPW ML810		0	260	AudioInnov Alto	<u> </u>			Jordan Watts JHFLG	<u> </u>	0	380	Spendor S2
PW ML910	和	0	300	B&O Beovox CX50	2	0	329	JPW SS553	± 1	0	400	Spendor 2020
VC SX-SW10			300		<u> </u>	0	325	JPW ML1010	*	0	400	Spendor S1
KEF Coda 9	<u> </u>	0	299	B&O Beovox CX100	9	0	425	JPW Ruby 1	<u> </u>	0	400	Tannoy Precision P20
KEF Model 70S	<u>±</u> 1	0	299	B&W CWM8i B&W DM305	_ →	0	350	JPW Ruby 2	<u></u>	0	500	TDL RTL 3
KLH 83A	9	0		Maria Control of the	*	0	350	KEF Q35	± 1	0	349	TDL Chiltern
KLH 183A	9	0	205 265	B&W DS6	_ →	0	400	KEF Q55	±	0	499	Technics SB-M300
KLH Soundbites System	¥	0		B&W CDM2	9	0	400	KEF RDM One	<u>P</u>	0	499	Technics SB-M500
	±	0	276	B&W DM603	<u>+</u> 1	0	500	Keswick Aria II	<u> </u>	0	379	Totem Mite
KLH Model 81 KLH Model 41	<u> </u>	0	280	B&W Signature 7	→	0	500	KLH 283A	± 1	0	310	Triangle Titus TZe
	9	0	290	Bandor Pictures	→	0	352	KLH 383A	± 1	0	335	Visonik TB1S
M-A Monitor 1	<u> </u>	0	250	Blue Room Mini Pod	<u>_</u>	0	400	KLH Model 51	<u>+</u> I	0	375	W'dale Modus Music S
M-A Monitor 2	<u> </u>	0	300	Bose 301	且	0	380	KLH Model 71	± I	0	420	W'dale MFM3
Mordaunt-Short MS30i	<u>_</u>	0	275	Bose 171	<u></u>	0	386	KLH Model 62T	+1	0	486	W'dale Modus Music I
Mordaunt-Short MS10i Classic	<u> </u>	0	280	Bose A'mass AM3 II	9	0	500	Linn Sekrit	+	0	395	W'dale MFM5
Mordaunt-Short MS25i	± 1	0	300	Boston Micro 90 Sat	<u> </u>	0	369	Mission 733i	±	0	330	W'dale Modus Music 1
Mus Tec Kestrel SE	<u>+</u> 1	0	300	Boston Micro 80 Sys	± I	0	369	Mission 751f	<u></u>	0	348	£5
NAD 802	9	0	280	Boston VR20	± I	0	380	Mission 734i	#1	0	499	Acoustic Energy AE1-I
NHT SuperZero	9	0	238	Castle Tay	9	0	350	M-A Monitor 3	#	0	400	Allison Model 3A
Pioneer CS-7030	<u> </u>	0	230	Castle Kendal	<u>+</u> 1	0	450	M-A Monitor 4	<u>+</u> 1	0	500	Audio Gem Emerald
Pioneer CS-9030	+1	0	280	Castle Eden	9	0	470	Mordaunt-Short MS25i Pearl	<u>+</u> I	0	330	Audio Note AN-K/D
Pioneer S-LC1	B	0	300	Celestion 25i	<u>+</u> I	0	399	Mordaunt-Short MS40i	± 1	0	450	Audio Note AN-J/B



450 400 366 o TB1S o TB1SM o TB1M o XB1 399 400 350 sion Five 3 379 429 sion Five 4 499 399 485 359 e SE on P20 450 7e 366 Music Six Music Eight Music 1/6 y AE1-II 3A erald □□┡<mark>╗</mark>□논隆산™안산산산산™산□산<mark>╗□산산산산산산산산산산산산산</mark> -K/D 750 B&W CDM1 B&W P4 675 Bose 501 Bose SE-5 Ser II System Bose A'mass AM5 II 800 669 580 Boston VR30 Boston Micro 90 Sys Castle Severn 2 599 Celestion 45i Cerwin-Vega VS-12 Cerwin-Vega VS-15 Chario Syntar 100T 700 550 595 600 Clements 600si Dali 107 Dali 350 Dali 450 700 Dali 109 Def Tech BP6B 750 Diapason Micra II Epos ES14 Faraday FS10 799 Heybrook Ultima Heybrook Quartet 649 Infinity SM155 Jamo BX-200A 600 Jamo Classic 10 Jamo 507A JBL LX7 550 JBL TLX181 JBL PS12 JM Lab Profil 55 JM Lab Opal 59 ti 625 750 565 800 649 Jordan Watts JH200 JPW Ruby 3 KEF LS3/5a KEF RDM Two KEF Q65



	10000	1885	000	-n/ -1: 0	BOOK	3902	556	11 1 11 222 125 125	100	101	1 400
KLH Model 82Ta	Ŧ	0	690	TDL T-Line 2	+	0	550	Harbeth BBC LS5/12A	<u></u>	0	1,499
inn Tukan Passive	<u>P</u>	•	550	TDL Cotswold	*	0	650	Heybrook Sextet	±	0	1,299
inn Keilidh Passive	_ ±	•	750	TDL RTL 4	Ŧ	0	650	Impulse Kora	<u>+</u> 1		1,250
Manticore Minaret	=	0	690 750	TDL T-Line 3 Totem Rokk	#1	0	700 695	Jamo 707i Jamo Concert 8	#1	0	900
Meridian A500	Ŧ	0	700		0	0	525	JBL L40	_ ₹	0	1,300
1&K S-85	<u> </u>	0	578	Triangle Comete TZe Triangle Lunn		0			2	0	1.000
Mission 752f Mission 735i	*	0	650	Triangle Zephyr	#	0	550 799	JBL PS15 JBL L80	±1	0	
Aission 753f	±1 ±1	0	798	W'dale MFM7	和	0	650	JBL LOU	*	0	1,250 1,500
M-A Studio 2SE		0	600	£801 to £		0	630	JM Lab Profil 77	±1	0	1.050
1-A 700 PMC	=		600	Acoustic Energy AE2-II			1.095	JM Lab PS 5.1			1,050
M-A 702PMC	<u>P</u>	0	700	Acoustic Solutions Eight	<u> </u>	0	1,200	JM Lab Spectral 909.1	<u>=</u>	0	1,375
M-A 703PMC	므	0	800	Alon I Mk II	<u>=</u>	0	1,500	Jordan Watts JH1+1	±1	0	995
Nordaunt-Short MS50i	*		550	Ambience Mod. 4.0	± 1	0	1,185	JPW Ruby 4	±1	0	1.000
Mus Tec Falcon	± 1	0	575	Apertura Prima	∓	0	920	KEF Q75	#		999
laim Intro			660	Apertura Agora	<u>-</u>	0	1.095	KEF Ref. Model One	±1	0	1.199
leat Mystique	<u>+1</u>	0	575	Apertura Agora Apertura Nova	±1	0	1,095	Kelly KT3	Ŧ	0	1,199
leat Mystique leat Petite II	*	0	745	ATC SCM10		0	999	Keswick Torino	±	0	999
pera Seconda	<u> </u>	0	595	Audio Note AN-J/D	=	0	930	Keswick Figaro Evolution	<u>+</u>	0	1.099
Ipera Operetta II	<u> </u>	0	770	Audio Note AN-K/SPx	0	0	1.060	Keswick Milano		0	1.199
opera Operetta II	보	0	795	Audio Note AN-E/B	<u>±</u>		1,000	Keswick Legato	∓ 1		1,199
Origin Live Resolution		0	732	Audio Note AN-J/SPx	<u>•</u>	0	1,415	Keswick Legato		0	1,199
rigin Live Resolution	±1 ⊞	0	750	Audio Physic Step		0	1,299	Linn Tukan Aktiv	±		1,499
entachord B		0	519	AVI Positron	∓ 1	0	899	Linn Keilidh Aktiv	₽.	0	1,050
entachord Pentode	<u>=</u>	<u> </u>	729	B&O Beolab 4000		0	1.100	L Voice Auditorium	<u>*</u> 1	0	
olk RT12	*	0	600	B&W P5	<u>+</u> !		875	Lowther Accolade 2	<u>*</u> 1		1,300
olk RT16	<u>+</u> 1		799	B&W DM604	<u>+</u> 1	0			<u>*</u>		1,199
olk LS50	<u>+</u> 1	0	800	B&W P6	<u>*</u> !	0	1,000	Lumley L/M3.5	±1	0	1,050
Proac Tablette 50	*	0	599	B&W Matrix 805 V	¥	0	1,095	Magneplanar SMG-C SE	±1		990
Proac Studio 100	<u> </u>	0	699	Bandor Trident	2	0	1,095	Magneplanar MG-0,6 SE	± 1		1,370
romenade SP4			650	Bandor Mora	<u> </u>	0		Meridian Argent 1	<u>=</u>	0	995
LN Classic One	±1	0	800	Bandor Mora Bandor Bandora	± 1	0	1,260	M&K S-125	<u></u>	0	1,150
luad 10L	<u>=</u>	0	600	Bose A'mass AM7	*	0	1,340	Mission 754f	₩.	0	1,298
logers GS9	므	0	579	Bose 701	<u> </u>	0	900	M-A Studio 12	±1	0	1,000
logers LS3/5A	<u>+</u> 1	0	699	Boston VR40	<u> </u>	0	1,000	M-A 705PMC	<u>±</u> 1	0	1,400
logers C6/25	<u>∓</u>	0	799	Castle Harlech	± 1	0		Mordaunt-Short Perf 820	±1	0	1,495
oksan ROKone 1	<u> </u>	0	595	Castle Howard S2	<u>+1</u>	0	880	Mus Tec Condor	<u>+</u> 1	0	845
oksan Oian 3	<u>+</u>	0	795	Celestion A1	<u>≠</u> 1	0	1,200	Mus Tec Hawk	<u>*</u>	0	1,250
oyd The Sorcerer		0	595	Celestion A2	<u> </u>	0	899 1.499	Mus Tec Eagle	<u>+</u> 1	0	1,500
oyd Abbot	<u>₽</u>	0	695	Cerwin-Vega AL-1000	<u>+</u> 1	0	1,499	Naim Credo NHT VT-1.2	<u>+</u> 1	0	1,060
uark Templar II	±1	0	599	Cerwin-Vega AL-1000 Cerwin-Vega 1515	<u>+</u> 1				和	0	999
uark Sceptre		0	599		Ŧ	0	1,300	Opera Callas II	<u> </u>	0	950
uark Sceptie uark Talisman II	<u> </u>	0	749	Chario Academy 1 Clements Reference 1	<u> </u>	0	1,300	Opera Terza	和	0	999
uark Prologue One	± 1	0	749	Dali 850	₽	0	995	Opera Callas Gold	=	0	1,050
D Acoustics SD3R		0	649	Def Tech BP8B	#1	0	1,100	Opera Divina II	<u>=</u>	0	1,500
Iverado Raider	=		695	Def Tech BP10B	<u>+</u> 1	0	1,000	Origin Live Soveriegn	<u>+</u> 1	0	975
onus Faber Concertino	=	0	599		±1	0	1,500	Polk LS70	<u>±</u>	0	1,200
pendor 2030	<u> </u>		599	Diapason Prelude II Dynaudio Contour 1.1	0	0	875	Polk RT20p	<u>+</u> 1	0	1,500
pendor LS3/5A	Ŧ	0	630	Maria Control of the	0	0	879	Proac Tablette 50 SIG	<u> </u>	0	899
pendor SP3/1P	<u> </u>	0	795	Dynaudio Contour 1.3 Electrocompaniet EC-Qube	<u>n</u>	0	1,198	Proac Response 1 SC	Ξ.	0	1,199
+ A TB 100	±1	0	690	Electrocompaniet EC-Qube SE	<u> </u>	0	1,195	Proac Studio 150	±	•	1,399
annov Precision P30	취	0	600	Epos ES22	<u> </u>		1,495	Prof Monitor Co LB1	=	0	935
annoy Precision P30		0	689	Harbeth HL-K6	¥	0	1,185	Prof Monitor Co AB1	<u> </u>	0	1,496
	Ξ.				<u>B</u>	0		QLN Signature		0	1,000
annoy Precision P40	± I	0	800	Harbeth HL-Compact 7	<u></u>	0	1,499	QLN Signature HDII	<u> </u>	0	1,30

١	Rega XEL RMS Revelation S 1	和	0	1,040
l	Rogers C6/28 Roksan Ojan 3X	_ ±	0	1,399
ı	Royd The Albion	<u>≠</u>	0	995 985
ı	Ruark Broadsword II Ruark Paladin	± ∃	0	899 1,099
ı	Shahinian Super Elf	<u> </u>	0	875
ı	Shahinian Compass Silverado Ryder	和	0	1,395 1,395
ı	Sonus Faber Minuetto Sonus Faber Concerto	0	0	898 1,098
ı	Spendor 2040	¥	0	899
ı	Spendor SP2/3E Spendor SP1/2E	<u>D</u>	0	1,050
ı	T+A TAS 1200E	Ŧ	0	990
ı	T+A TB 120 Tannoy Definition D300	和	0	990 999
	TDL Cheviot	¥	0	850
	Technics SB-M1000 Totem Model One	<u>₽</u>	0	1,500 1,195
ı	Triangle Antal Vandersteen 2Ce	±1	0	1,099 1,395
ı	Visonik LB1		o	935
ı	Acoustic Energy AE1 Sig	000	0	1,695
l	Acoustic Energy AE2 Sig Alon II Mk II	<u> </u>	0	2,695
ı	Ambience Mod 3.2	五	0	2,300 1,780
	Apertura Tanagra Apertura Tanagra Sig.	和	0	1,895 2,395
	ATC SCM20		0	1,599
	ATC SCM20 Tower Audio Note AN-E/D	₽	0	2,099 1,520
	Audio Note AN-E/SPx	<u>_</u>	0	2,250
	Audio Physic Spark 2 Audio Physic Tempo	<u>+</u>	0	1,749 1,999
	Avalon Monitor B&O Beolab 6000	±1 □	0	2,995 1,550
	B&O Beolab 8000	Ŧ	0	2,100
	B&O Beolab Penta 3 B&W Matrix 804	和	0	2,650 1,695
	B&W Matrix 803s2	Ŧ	0	2,495
	B&W Matrix 802s3 Bose 901 VI	T T	0	2,995 1,650
	Boston Lynfield 300L Bravura Virtuoso Bronze	<u>₽</u>		2,000
	Carver AL-111P	Ŧ		1,999
	Cary SP-301 Celestion A3	和	0	2,295
	Celestion Kingston	¥	0	2,500
	Chord LS5/12A Chord CEL 201	0	0	1,595 2,130
	Chord CEL 202 Chord CEL 301	和	0	2,375 2,840
	Clements Reference 7	Ŧ	0	1,995
	Credo SPB 003 Credo SPB 009	和	0	1,820 2,453
	Dali Grand Coupe	Ŧ	0	2,500
	Def Tech BP2002 Diapason Adamantes II	丑	0	2,400 1,895
	Dynaudio Contour 1.8 Dynaudio Crafft	<u>+</u>	0	1,842 2,598
	ECA Servo A.2	±	0	2,450
	ELS Res'ch Vision Epos ES25	<u>∓</u>	0	2,800 1,655
	Epos ES30	#	0	2,385
	Gamma Epoch Ref Five Harbeth HL-S8	和	0	2,999 1,999
	Helius Syrius II Helius Syrius I	和	0	2,395
	Hi Q Sound SM108	Ŧ	0	2,000
	Horning Aristophane Impulse Lali	和	00	2,600 1,850
	Jamo Concert 11	¥	0	2,000
	JBL L100 JM Lab Spectral 913.1	和	0	1,750 1,850
	JM Lab Antea Jordan Watts JH2K	和	0	2,850
	KEF Ref. Model Two	#	0	1,599
	KEF Ref. Model Three Linn Kaber Passive	<u>≠</u> 1	0	1,999 2,000
	Linn Kaber Aktiv	Ŧ	0	2,640
	Lowther Fidelio Lowther Academy	和		1,999
	Lowther Bel Canto Lumley L/M2 Mk3	和	A 0	2,699 2,995
	Magneplanar MG-10 SE	¥		1,650
	Magneplanar MG-1,5 SE Magneplanar MG-2,7 SE	∓l ∓l		1,780 2,650
	Manticore Matisse Martin-Logan Aerius i	¥	0	1,890
	Meridian M60	₽ T		2,299 2,150
	M-A Studio 20SE Mordaunt-Short Perf 860	和	0	2,200 1,895
	Mordaunt-Short Perf 880	#	•	2,795
	Naim SBL Active Naim SBL Passive	<u>+</u> 1	0	1,830 1,970
-	Neolith NEO 1 NHT VT-2	9	0	2,999 1,600
-	Opera Caruso II	和	0	2,350
-	Origin Live Conqueror	Ŧ	0	1,650

₩ 2 1.040

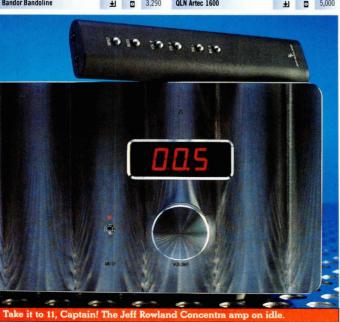
Paragon Jubilee	Ŧ	0	1.995	Bandor Bandora/Mora	和	0	3,290
Pentachord P'column	¥1	0	1,649	Boston Lynfield 500L	¥1	0	4,449
Polk LS90	¥	0	1,700	Bravura Virtuoso Silver	¥	D	3,195
Proce Personne 25	Ŧ		2,500	Bravura Virtuoso Gold	¥!	0 /	3,395
Proac Response 2S Proac Studio 250	∓ I	0	2,000	Bravura Virtuoso Reference Bravura Accelerando	和	00	3,995 6,600
Proac Response 2.5	<u>±</u>	0	2,700	Chario Academy 3 Junior	¥1	0	6,000
Prof Monitor Co IB1S	<u> </u>	0	2,099	Chario Academy 3	¥	0	9,000
QLN Prestige	Ŧ	0	1,600	Credo SPB 012	<u>+</u> 1	0	3,147
QLN Sig. Splitfield QLN Reference	±	0	1,600 2,000	Credo SDL 001 Dali Grand	和	0	5,677 4.000
QLN Reference HDII	±1	0	2,500	Def Tech BP2000	±1 ▼1	0	3,600
Rehdeko RK115	0	0	1,700	Dynaudio Contour 2.8	<u>+</u> I	0	3,198
Rogers LS5/9	=	0	1,549	Dynaudio Contour 3.3	¥	0	4,815
Ruark Crusader II Ruark Equinox	<u>→</u>	0	1,599	Dynaudio Confidence 3	± 1	0	4,846 5,924
Ruark Accolade	±	0	2,699	Dynaudio Confidence 5 Dynaudio Consequence	和	0	14,566
SD Acoustics SD5	#	0	1,549	Electrofluidics Sonolith 2.2xi	<u>±</u>	0	5,9 99
SD Acoustics SD1E	#	0	2,995	ELS Res'ch Vista	¥		3,900
Shahinian Arc	¥	0	1,875	ELS Res'ch Illusion MkII	¥		9,000
Shahinian Obelisk Silverado Silverado 1	±1	0	2,695 1,995	Fase Evoluzione Aria Genesis 400	Ξ.	0	3,100
Sonus Faber Minima Amator	0	0	1,566	Genesis V	和	0	4,000 15,000
Sound-Lab Quantum	<u>+</u>		2.150	Genesis 300	±1	0	27,500
Spendor SP7/1	¥	0	1,990	Horning Agathon	¥		3,555
Spendor SP100	±	0	2,099	Impulse Ta'us	¥		3,100
T+A TB 140 Tannoy Definition D500	<u>+</u> 1	0	1,680	Infinity Sigma	<u>+</u> 1	0	5,995 9,995
Tannoy Stirling TW	₹	0	2,200	Infinity Epsilon Jamo Oriel	和	0	7,000
Tannoy Definition D700	¥	0	2,500	JBL S2600	¥1	0	3,500
TDL Studio Monitor-m	± I	0	2,750	JBL \$3100	± I	0	4,000
Totem Mann-2	Ξ.	0	2,795	JM Lab Alcor	<u>+</u> I	0	4,995
Triangle Zays Triangle Altinis	和	0	1,750 2,250	JM Lab Utopia JM Lab Grande Utopia	∓ 1	0	16,000 33,000
IIIaligic Millills	*		2,230	JM Lab Grange Glopia	*	0	
Triangle Extan	+1	0	2.950	Jordan Watts JH5K	+1		3 950
Triangle Extan Wilson Benesch Stand-in	和	0	2,950 2,000	Jordan Watts JH5K Jordan Watts JH10K	∓1 ∓1	0	3,950 7,570
Wilson Benesch Stand-in Over £300	1	0	2,000	Jordan Watts JH10K KEF Ref. Model Four	和	0	7,570 3,299
Wilson Benesch Stand-in Over £300 Acoustic Energy AE5	∓1 0 ∓1	0	2,000 7,995	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2	和 和 和	0 0	7,570 3,299 7,000
Wilson Benesch Stand-in Over £300	1	0 0	2,000	Jordan Watts JH10K KEF Ref. Model Four	주 주 주	0 0 0 0	7,570 3,299
Wilson Benesch Stand-in Over £300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III	1	0	7,995 3,495 3,495 4,995	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Woice Air Scout L Woice Air Partner S	和 和 和	0 0	7,570 3,299 7,000 6,000 19,500 37,200
Wilson Benesch Stand-in Over \$300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III Alon Adriana	+ + + + + + +	00000	7,995 3,495 3,495 4,995 8,500	Jordan Watts JH10K KEF Ref. Model Four Reswick Zero 2 Linn Keltik Aktiv L Woice Air Scout L Woice Air Partner S Lowther Delphic	**************************************	0000888	7,570 3,299 7,000 6,000 19,500 37,200 3,099
Wilson Benesch Stand-in OVER 2300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III Alon Adriana Alon Circe	* * * * * * * * * * * * * * * * * * *	000000	7,995 3,495 3,495 4,995 8,500 9,995	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Voice Air Partner S Lowther Delphic Lowther Opus One	**************************************	00008888	7,570 3,299 7,000 6,000 19,500 37,200 3,099 4,999
Wilson Benesch Stand-in Over £300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III Alon Adriana Alon Grice Alon Phalanx	→ → → → → → →	000000	7,995 3,495 3,495 4,995 8,500 9,995 19,000	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Woice Air Scout L Woice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3	**************************************	000088880	7,570 3,299 7,000 6,000 19,500 37,200 3,099 4,999 4,500
Wilson Benesch Stand-in OVER 2300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III Alon Adriana Alon Circe)	0000000	7,995 3,495 3,495 4,995 8,500 9,995	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Wice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-3.5SE	**************************************	0000888800	7,570 3,299 7,000 6,000 19,500 37,200 3,099 4,999
Wilson Benesch Stand-in Over £300 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 Atlena Apertura Atlante	**************************************	000000	7,995 3,495 3,495 4,995 8,500 9,995 19,000 9,550 4,395 6,995	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Fartner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-3.SSE Magneplanar MG-20 SE P Magneplanar MG-20 SE A	**************************************	000088880	7,570 3,299 7,000 6,000 19,500 37,200 3,099 4,999 4,500 3,800
Wilson Benesch Stand-in OVER 300 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 Apertura Atlante ATC SCM20A	**************************************	0000000000	2,000 7,995 3,495 4,995 8,500 9,995 19,000 9,550 4,395 6,995 3,049	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Wice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-3.5SE Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3	**************************************	0000888800000	7,570 3,299 7,000 6,000 19,500 37,200 3,099 4,500 3,800 10,300 11,000 3,499
Wilson Benesch Stand-in Over \$300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon Y Mk III Alon Adriana Alon Circe Alon Palanx Ambience Mod 5.0 Apertura Athena Apertura Atlante ATC SCM200 ATC SCM200 ATC SCM50	************	000000000000	2,000 7,995 3,495 3,495 4,995 8,500 9,995 19,000 9,550 4,395 6,995 3,049 3,750	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Voice Air Scout L Voice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-3.5SE Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3 Martin-Logan CLS IIz	**************************************	0000 888000000	7,570 3,299 7,000 6,000 19,500 37,200 3,099 4,999 4,500 3,800 10,300 11,000 3,499 4,555
Wilson Benesch Stand-in OVER 300 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 Apertura Atlante ATC SCM20A	**************************************	0000000000000	2,000 7,995 3,495 3,495 4,995 8,500 9,995 19,000 9,550 4,395 6,995 3,049 3,750 4,499	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Woice Air Scout L Woice Air Scout L Woice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-3.SSE Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3 Martin-Logan SL3 Martin-Logan Re-Quest	**************************************	0000AAAA0000000	7,570 3,299 7,000 6,000 19,500 37,200 3,099 4,999 4,500 3,800 10,300 11,000 3,499 4,555 5,875
Wilson Benesch Stand-in Over \$300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon Y Mk III Alon Adriana Alon Circe Alon Phalanx Ambience Mod 5.0 Apertura Athena Apertura Atlante ATC SCM20A ATC SCM50 ATC SCM50 ATC SCM100 ATC SCM50A ATC SCM100A	**************************************	000000000000	2,000 7,995 3,495 3,495 4,995 8,500 9,995 19,000 9,550 4,395 6,995 3,049 3,750	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Voice Air Scout L Voice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-3.5SE Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3 Martin-Logan CLS IIz	**************************************	0000 888000000	7,570 3,299 7,000 6,000 19,500 37,200 3,099 4,999 4,500 3,800 10,300 11,000 3,499 4,555
Wilson Benesch Stand-in Over \$300 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 Apertura Atlante ATC SCM20A ATC SCM20A ATC SCM50 ATC SCM50A	***************************************	0000000000000000	2,000 7,995 3,495 4,995 8,500 9,995 19,000 9,550 6,995 3,049 3,750 4,499 5,250 5,999 12,999	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Woice Air Scout L Woice Air Scout L Woice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3 Martin-Logan CLS IIz Martin-Logan Re-Quest Martin-Logan Monolith S Martin-Logan Monolith IIIP Martin-Logan Monolith IIIP Martin-Logan Monolith IIIIP	**************************************	0000888800000000	7,570 3,299 7,000 6,000 19,500 3,099 4,500 3,800 10,300 11,000 3,4555 5,875 7,440 8,550 11,900
Wilson Benesch Stand-in Over \$300 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 Apertura Atlante ATC SCM20A ATC SCM50 ATC SCM50 ATC SCM100 ATC SCM100A ATC SCM100A ATC SCM200A ATC SCM200A ATC SCM200A ATC SCM200A ATC SCM200A ATC SCM300A	**************************************		2,000 7,995 3,495 4,995 8,500 9,995 19,000 9,550 4,395 6,995 3,049 3,750 4,499 5,250 5,999 14,999	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Wice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan MG-20 SE A Martin-Logan CLS IIz Martin-Logan Re-Quest Martin-Logan Monolith IIIP Meridan DSP5000	**************************************	000000000000000000000000000000000000000	7,570 3,299 7,000 6,000 19,500 3,099 4,999 4,500 3,800 10,300 11,000 3,499 4,555 5,875 7,440 8,550 11,900 3,295
Wilson Benesch Stand-in Over \$300 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 Apertura Athena Apertura Atlante ATC SCM200 ATC SCM500 ATC SCM500 ATC SCM100 ATC SCM100 ATC SCM200 ATC SCM200A ATC SCM200A ATC SCM200A ATC SCM200A ATC SCM300A Audio Note AN-JSE Silver	+ + + + + + + + + + + + + + + + + + +		2,000 7,995 3,495 3,495 4,995 8,500 9,995 4,395 6,995 3,049 3,750 4,499 5,250 5,999 12,999 7,900	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout Lowther Delphic Lowther Dpus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3 Martin-Logan CLS IIz Martin-Logan Re-Quest Martin-Logan Monolith IIIP	**************************************	000000000000000000000000000000000000000	7,570 3,299 7,000 6,000 3,7,200 3,099 4,500 3,800 10,300 11,000 3,499 4,555 5,875 7,440 8,550 11,900 3,295 5,950
Wilson Benesch Stand-in Over \$300 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 Apertura Atlante ATC SCM20A ATC SCM50 ATC SCM50 ATC SCM100 ATC SCM100A ATC SCM100A ATC SCM200A ATC SCM200A ATC SCM200A ATC SCM200A ATC SCM200A ATC SCM300A	+ + + + + + + + + + + + + + + + + + +		2,000 7,995 3,495 4,995 8,500 9,995 19,000 9,550 4,395 6,995 3,049 3,750 4,499 5,250 5,999 14,999	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Wice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan MG-20 SE A Martin-Logan CLS IIz Martin-Logan Re-Quest Martin-Logan Monolith IIIP Meridan DSP5000	**************************************	0000 4 4 4 4 0 0 0 0 0 0 0 0 0 0	7,570 3,299 7,000 6,000 19,500 3,099 4,999 4,500 3,800 10,300 11,000 3,499 4,555 5,875 7,440 8,550 11,900 3,295
Wilson Benesch Stand-in Over \$300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III Alon Adriana Alon Circe Alon PMk III Alon Adriana Alon Circe Alon Phalanx Ambience Mod 5.0 Apertura Athena Apertura Athena Apertura Athena APERTO SCM20A ATC SCM50 ATC SCM50 ATC SCM50 ATC SCM100 ATC SCM500 ATC SCM100 ATC SCM200A AUG New Schiere Audio Note AN-ISE Silver Audio Note AN-ISE Silver Audio Note AN-ISE Silver Audio Note AN-ISE Silver Audio Physic Virgo 2 Audio Physic Virgo 2	+ + + + + + + + + + + + + + + + + + +		2,000 7,995 3,495 4,995 8,500 9,995 19,000 9,550 6,995 3,049 3,750 5,999 12,999 7,900 9,600 3,399 6,699	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3 Martin-Logan LS IIz Martin-Logan CLS IIz Martin-Logan Monolith S Martin-Logan Monolith S Martin-Logan Monolith S Martin-Logan Monolith IIIP Martin-Logan Monolith IIIP Martin-Logan Monolith IIIXPB Martin-Logan Monolith IIIXPB Martin-Logan Monolith IIIXPB Martin-Logan Monolith IIXPB	**************************************	000000000000000000000000000000000000000	7,570 3,299 7,000 6,000 19,500 3,7,200 3,999 4,590 3,800 10,300 11,000 3,499 4,555 5,875 7,440 8,550 11,900 3,295 5,950 4,000 6,000
Wilson Benesch Stand-in Over \$300 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 Apertura Atlante ATC SCM200 ATC SCM200 ATC SCM200 ATC SCM500 ATC SCM100 ATC SCM500 ATC SCM5000 ATC SCM50000 ATC SCM500000 ATC SCM5000000000000000000000000000000000000	→ → → → → → → → → → → → → → → → → → → →		2,000 7,995 3,495 3,495 4,995 19,000 9,955 6,995 3,049 3,750 4,499 5,250 4,499 12,999 14,999 14,999 7,900 3,399 6,600 3,399 6,000 3,399 6,000	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout Magneplanar MG-20 SE P Ma	1		7,570 3,299 7,000 6,000 19,500 3,009 4,500 3,800 10,300 11,000 3,499 4,555 5,875 7,440 8,550 11,900 3,295 5,950 9,400 6,000 7,414
Wilson Benesch Stand-in OVER 2300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon Y Mk III Alon Adriana Alon Circe Alon Phalanx Ambience Mod 5.0 Apertura Athena Apertura Atlante ATC SCM20A ATC SCM20A ATC SCM50 ATC SCM50 ATC SCM100A ATC SCM100A ATC SCM200A ATC SCM200A ATC SCM300A AUGi Note AN-ISE Silver Audio Note AN-ISE Silver Audio Physic Virgo 2 Audio Physic Caldera Audio Physic Caldera Audio Physic Caldera Audio Physic Medea))))))		2,000 7,995 3,495 3,495 8,500 9,995 8,500 9,955 4,395 3,049 3,750 4,499 7,900 9,600 9,600 9,609 10,999 10,999 10,999	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Wice Air Partner S Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3 Martin-Logan CLS IIz Martin-Logan Re- Quest Martin-Logan Monolith IIIP Martin-Logan Monolith IIIP Martin-Logan Monolith IIIP Martin-Logan Monolith IIIP Meridian DSP5000 Meridian DSP5000 Meridian DSP6000 M-A Studio 50 M-A Studio 50 M-A Studio 50 M-A Studio 50 Naim DBL Active Neolith NEO 2			7,570 3,299 7,000 19,500 3,7,200 4,500 3,800 11,000 3,499 4,555 5,875 11,900 4,000 6,000 4,000 6,000 4
Wilson Benesch Stand-in OVER 2300 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 Apertura Atlante ATC SCM20A ATC SCM20A ATC SCM50 ATC SCM50 ATC SCM100 ATC SCM500A ATC SCM100A ATC SCM20A ATC SCM20A ATC SCM20A ATC SCM300A ATC SCM300A ATC SCM20A AUG Physic Virgo 2 Audio Physic Avanti 2 Audio Physic Caldera Audio Physic Caldera Audio Physic Caldera Audio Physic Caldera Audio Physic Medea Avalon Avatar	+ + + + + + + + + + + + + + + + + + +		2,000 7,995 3,495 3,495 4,995 4,995 19,000 9,955 4,395 6,995 5,250 5,250 5,299 12,999 7,900 9,600 3,399 14,999 14,999 4,495	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Wice Air Scout L Wice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3 Martin-Logan CLS IIz Martin-Logan CLS IIz Martin-Logan Re-Quest Martin-Logan Monolith IIIP Martin-Logan	1	0000 4 8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,570 3,299 7,000 6,000 19,500 4,999 4,500 10,300 11,000 3,499 4,555 5,875 7,440 8,550 9,400 6,000 7,414 4,994 4,994 4,994 4,999 4,5
Wilson Benesch Stand-in OVER 2300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon Y Mk III Alon Adriana Alon Circe Alon Phalanx Ambience Mod 5.0 Apertura Athena Apertura Atlante ATC SCM20A ATC SCM20A ATC SCM50 ATC SCM50 ATC SCM100A ATC SCM100A ATC SCM200A ATC SCM200A ATC SCM300A AUGi Note AN-ISE Silver Audio Note AN-ISE Silver Audio Physic Virgo 2 Audio Physic Caldera Audio Physic Caldera Audio Physic Caldera Audio Physic Medea))))))		2,000 7,995 3,495 3,495 8,500 9,995 8,500 9,955 4,395 3,049 3,750 4,499 7,900 9,600 9,600 9,609 10,999 10,999 10,999	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Wice Air Partner S Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan SL3 Martin-Logan CLS IIz Martin-Logan Re- Quest Martin-Logan Monolith IIIP Martin-Logan Monolith IIIP Martin-Logan Monolith IIIP Martin-Logan Monolith IIIP Meridian DSP5000 Meridian DSP5000 Meridian DSP6000 M-A Studio 50 M-A Studio 50 M-A Studio 50 M-A Studio 50 Naim DBL Active Neolith NEO 2			7,570 3,299 7,000 19,500 3,7,200 4,500 3,800 11,000 3,499 4,555 5,875 11,900 4,000 6,000 4,000 6,000 4
Wilson Benesch Stand-in Over \$300 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 Apertura Atlante ATC SCM200 ATC SCM500 ATC SCM500 ATC SCM500 ATC SCM500 ATC SCM100 ATC SCM200A ATC SCM20A ATC S	+ + + + + + + + + + + + + + + + + + +		2,000 7,995 3,495 3,495 4,995 4,995 19,000 9,955 4,395 6,995 5,250 5,250 5,999 12,999 7,900 9,609 6,699 10,599 4,495 6,000 6,495 10,995	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Wice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan MG-20 SE A Martin-Logan CIS IIz Martin-Logan CIS IIz Martin-Logan Monolith IIIP Martin-Logan Mono	1 7 7 7 1 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0000 4 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0	7,570 3,299 6,000 19,500 3,099 4,590 3,800 10,300 4,555 5,875 5,875 5,876 5,950 9,400 6,000 7,414 4,999 3,3500 4,450 9,400 4,4
Wilson Benesch Stand-in Over \$300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III Alon Adriana Alon Circe Alon PMk III Alon Adriana Alon Circe Alon Phalanx Ambience Mod 5.0 Apertura Athena Apertura Athena Apertura Atlante ATC SCM200 ATC SCM50 ATC SCM50 ATC SCM100 ATC SCM500 ATC SCM100 ATC SCM200 AU AU AU ATC SCM200 AU AU AU AU ATC SCM200 AU	+ + + + + + + + + + + + + + + + + + +		2,000 7,995 3,495 3,495 4,995 19,000 9,995 19,000 4,395 6,995 12,999 14,999 14,999 14,999 14,999 14,999 14,999 14,999 14,999 14,999 14,999 14,999 14,999 14,999 16,699 10,599 24,999 4,495 6,695 10,000 10,000 10,0	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout Magneplanar MG-20 SE P Magneplanar MG-20 SE P Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan LS II Martin-Logan CLS II Martin-Logan Re-Quest Martin-Logan Monolith IIIP Martin-Logan DSP5000 Meridian DSP5000 Meridian DSP5000 M-A Studio 50 M-A Studio 50 Naim DBL Active Neolith NEO 3 NHT Model 3.3 Paragon Regent Proac Response 3.5 Proac Response 5	1		7,570 3,299 19,500 4,999 4,500 3,309 4,500 3,300 10,300 11,000 4,555 5,875 5,875 5,875 5,875 9,400 4,000 7,414 3,499 3,500 3,499 4,500 3,490 4,500 3,490 4,500 3,295 4,000 7,414 4,000 7,414 4,500 7,416 7,410 7,4
Wilson Benesch Stand-in OVER 2300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III Alon Adriana Alon Circe Alon PMk III Alon Adriana Alon Circe Alon Phalanx Ambience Mod 5.0 Apertura Athena Apertura Atlante ATC SCM20A ATC SCM20A ATC SCM50A ATC SCM50A ATC SCM50A ATC SCM100A ATC SCM50A ATC SCM100A ATC SCM200A ATC SCM200A ATC SCM200A ATC SCM300A AUdio Note AN-ISE Silver Audio Note AN-ISE Silver Audio Physic Virgo 2 Audio Physic Caldera Audio Physic Redea Avalon Avatar Avalon Arcus Avalon Arcus Avalon Radian Avalon Osiris BEW Matrix 801s3	+ + + + + + + + + + + + + + + + + + +		2,000 7,995 3,495 3,495 8,500 9,995 8,500 9,955 6,995 3,049 3,750 4,499 5,250 5,999 14,999 7,900 9,600 3,399 6,699 10,599	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout Magneplanar MG-20 SE P Ma	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7,570 3,299 7,000 6,000 19,500 3,7,200 3,099 4,999 4,550 5,875 7,440 4,000 6,000 3,295 5,950 4,000 4,0
Wilson Benesch Stand-in Over \$300 Acoustic Energy AE5 Alon IV Mk II Alon Lotus SE Alon V Mk III Alon Adriana Alon Circe Alon PMk III Alon Adriana Alon Circe Alon Phalanx Ambience Mod 5.0 Apertura Athena Apertura Athena Apertura Atlante ATC SCM200 ATC SCM50 ATC SCM50 ATC SCM100 ATC SCM500 ATC SCM100 ATC SCM200 AU AU AU ATC SCM200 AU AU AU AU ATC SCM200 AU	+ + + + + + + + + + + + + + + + + + +		2,000 7,995 3,495 3,495 4,995 4,995 19,000 9,955 4,395 6,995 5,250 5,999 12,999 7,900 9,600 3,399 6,699 10,599 4,495 6,000 6,495 10,995 72,000 3,995 72,000 3,995 5,500	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout L Wice Air Partner S Lowther Delphic Lowther Opus One Lumley L/M 2 Sig. Mk3 Magneplanar MG-20 SE P Magneplanar MG-20 SE P Magneplanar MG-20 SE A Martin-Logan CIS IIz Martin-Logan CIS IIz Martin-Logan Monolith IIIP Martin-Logan M	1		7,579 7,000 6,000 19,500 4,999 4,999 4,500 3,800 10,300 3,499 4,550 5,950 5,950 6,000 7,414 4,999 4,999 4,999 4,999 4,250 9,000 4,370
Wilson Benesch Stand-in Over \$300 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 Apertura Atlante ATC SCM200 ATC SCM50 ATC SCM50 ATC SCM50 ATC SCM100 ATC SCM500 ATC SCM100A ATC SCM200A ATC SCM100A ATC SCM100A ATC SCM100A ATC SCM200A ATC SCM100A ATC SCM200A ATC SCM100A ATC SCM200A ATC SCM100A ATC SCM200A ATC SCM200A ATC SCM100A ATC SCM200A ATC SCM200A ATC SCM100A ATC SCM200A ATC SCM100A ATC SCM200A ATC SCM100A ATC SCM100A ATC SCM100A ATC SCM200A ATC SCM100A ATC SCM10A ATC SCM100A ATC SCM100A ATC SCM10A ATC SCM10A ATC SCM10A ATC	+ + + + + + + + + + + + + + + + + + +		2,000 7,995 3,495 3,495 8,500 9,995 8,500 9,955 6,995 3,049 3,750 4,499 5,250 5,999 14,999 7,900 9,600 3,399 6,699 10,599	Jordan Watts JH10K KEF Ref. Model Four Keswick Zero 2 Linn Keltik Aktiv L Voice Air Scout Magneplanar MG-20 SE P Ma	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7,570 3,299 7,000 6,000 19,500 3,7,200 3,099 4,999 4,550 5,875 7,440 4,000 6,000 3,295 5,950 4,000 4,0

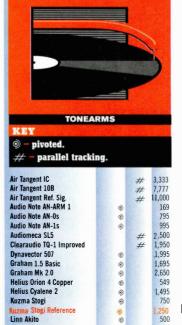
JBL \$3100	¥	0	4,000	1
JM Lab Alcor	± 1	0	4,995	1
JM Lab Utopia JM Lab Grande Utopia	<u>+</u> 1	0	16,000	1
Jordan Watts JH5K	±1	0	33,000	ł
Jordan Watts JH10K	± 1	0	3,950	ł
KEF Ref. Model Four	¥1	0	7,570 3,299	ł
Keswick Zero 2	±1	0	7,000	1
Linn Keltik Aktiv	± 1		6,000	1
	± 1	0		1
L Voice Air Scout L Voice Air Partner S	<u>+</u> 1	D	19,500	1
	± !	D	37,200	1
Lowther Delphic	<u>+</u> 1		3,099	1
Lowther Opus One	<u>+</u> 1		4,999	1
Lumley L/M 2 Sig. Mk3	<u>+</u> 1	0	4,500	1
Magneplanar MG-3.5SE	±		3,800	1
Magneplanar MG-20 SE P	<u>+</u> 1		10,300	1
Magneplanar MG-20 SE A	± 1		11,000	1
Martin-Logan SL3	± 1		3,499	1
Martin-Logan CLS IIz	*		4,555	
Martin-Logan Re-Quest	± 1		5,875	١
Martin-Logan Monolith S	± I		7,440	
Martin-Logan Monolith IIIP	± I		8,550	
Martin-Logan Monolith IIIXPB	± I		11,900	
Meridian DSP5000	_ ±	0	3,295	1
Meridian DSP5500	¥	0	5,950	1
Meridian DSP6000	#1	0	9,400	1
M-A Studio 50	±	0	4,000	
M-A Studio 60	±	0	6,000	1
Naim DBL Active	± I	0	7,414	1
Neolith NEO 2	<u></u>	0	3,499	1
Neolith NEO 3	*	0	4,999	
NHT Model 3.3	± I	0	3,500	1
Paragon Regent	¥	0	3,490	
Proac Response 3.5	+1	0	4,250	
Proac Response 5	#1	0	9,000	
Proac Response 4	#	0	12,000	
Prof Monitor Co MB1P	2	0	4,370	
Prof Monitor Co BB5 A		0	16,688	
QLN Artec 1600	¥	0	5,000	
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VOLUME				
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Quad ESL63	41	3,45	0
Rehdeko RK125	9	3,20	
Rehdeko RK145	9	4,80	0
Rehdeko RK175	Ŧ	8,80	
Revel Gem	9	5,29	
Rockport Syzygy Rockport Procyon	和	15,00 32,50	
Shahinian Hawk	和	32,50 4,99	
Shahinian Diapason	#1	8,89	
Shun Mook Bella Voce	Ŧ	6,80	0
Sonus Faber Electa Amator	<u>P</u>	3,29	3
Sonus Faber Extrema	<u>=</u>	6,50	
Sound-Lab Dynastat	7	3,79	
Sound-Lab Aura Sound-Lab Pristine III+	和	☐ 6,49 ☐ 7,99	
Sound-Lab A-3	和	7,99	
Sound-Lab Ultimate II	Ŧ	13,95	
Sound-Lab A-1	Ŧ	13,99	
Sound-Lab Ultimate III	¥	□ 18,95	0
Sound-Lab Ultimate I	¥	23,95	
Spendor SP9/1	¥	3,45	
T+A AD4	Ŧ	3,94	
T+A AD3 T+A AD2	和	4,66 8,59	
Tannoy Edinburgh TW	7	8,59 3,25	
Tannoy Definition D900	Ŧ	3,99	
Tannoy GRF Memory TW	Ŧ	4,00	
Tannoy Westminster TW	业	6,60	
Tannoy Canterbury 15 TW	₩.	7,72	
Tannoy Westminster Royal	Ŧ	14,92	
TDL Ref Standard-m	±1	6,00	
Triangle Nemo Altiar Wilson Audio Cub	Ŧ	o 4,25	
Wilson Audio WATT 5	ā Ā	5,49 8,75	
Wilson Audio WITT	0	8,88	
Wilson Benesch Actor	Ŧ	3,80	
Wilson Benesch ACT1 spkr	#	6,40	
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SUBWO	OFERS		4
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power amplifier.			
THX - THX app	roved by		
LucasFilm for use in			
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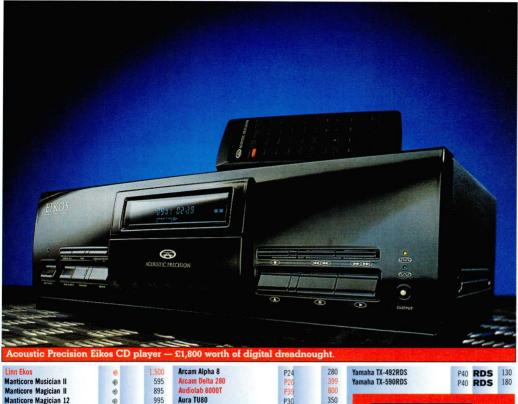
LucasFilm for use in		
Home THX installation	s.	
Acoustic Energy AE108S	0	300
Aiwa TS-W9	0	170
Allison Mini Ref Sub		210
Alon Poseidon	0	12,000
AMC B1-20	0	350
ATC SCM 0.1/15	0	2,750
Audio Physic Terra	0	3,499
B&W AS6	0	500
B&W Matrix 800ASW		1,500
B&W Matrix 800ASW		× 1,500
Boston CR400	0	300
Boston VR500	0	450
Boston VR2000 Celestion CS135	© TH	× 800
Celestion CSW MkII		1000
Celestion CSW MKII	0	329 349
Cerwin-Vega HT-10D	0	200
Cerwin-Vega HT-12D		250
Credo SDC 001	(3.054
GLL LE Bass	0	350
H/K Citation 7.4	a:	W. S. S. S. S.
Infinity SSW-10		500
Jamo 860SW		110
Jamo SW303E	0	220
Jamo SW400E	0	330
Jamo SW505E	0	400
Jamo Sub One	0	400
Jamo SW600e	0	530
JBL CM6	0	200
JBL PSW800	0	275
JBL Sub 10	0	300
JBL PSW1000	0	325
JBL PSW1200	0	375
JPW Subwoofer		130
JPW SW40	0	199
JPW SW60	0	350
JPW SW-120	0	500
KEF Model 20B	0	349
KEF Model 30B	0	499

KEF Model AV1	0	TEX	2,499
Kenwood SW500 Keswick Alto			1,299
KLH ASW10-100	(a)		350
KLH ASW12-120	0		380
Linn AV5150	0		2,850
L Voice RW24		1	1,500
Meridian M2500	0		1,595
M&K VX-7MkII	0		450
M&K V-75 MKII	0		650
M&K V-125	0		800
M&K V-125 (THX) M&K MX-70	0	THX	800
M&K MX-150 (THX)	0	THE	900
M&K MX-200	۵	U.A.	1,800
M&K MX-300	0	THE S	
M&K MX-5000 (THX)	0	THE S	
Mission 73AS	0		450
Mission 75AS	0		548
Mordaunt-Short T2000	0		500
Mus Tec Sub	0		650
Muse Model 22	0		1,890
Muse Model 18 Neat Gravitas	0		3,790
NHT SW2Pi			1,095
Polk PSW50	0		350
Polk PSW150	0		500
Polk PSW300	0		750
REL Q50	0		375
REL Q-100E	0		495
REL Strata II	0		575
REL Storm	0		695
REL Stadium II	0		995
REL Stentor II	0		1,800
REL Studio II Revel Sub-15	0		4,000 2,195
Revolver The Recoil	0		100
R Allen Gold Sub	0		149
R Allen Dim'n Active	0		499
R Allen Magnum Active	0		699
Rogers AB1			549
Rogers Sub-bass	0		679
Roksan Ojan 3S			795
Sequence FW120			249
Solid PB100 Sony SA-W101	0		350
Sunfire True Sub	0		230 1.450
Tannoy 625ALFie	0		600
TDL Nucleus SBR	3		200
Triangle SATIII	0		650
Velodyne VA-68XII	0		399
Velodyne VA-79XII	0		499
Velodyne VA-810XII	0		599
Velodyne VA-1012XII	0		700
Velodyne VA-1215XII	0		999
Velodyne FSR-12	0		1,099
Velodyne FSR-15 Velodyne F-1800II	۵		1,299
W'dale Modus Sub Bass	(3)		1,999
W'dale Modus Powered Sub	0		350
Wilson Audio Puppy 5.1	•		8,450
Wilson Audio Whow III	0		12,500
Yamaha YST-SW40	0		140
Yamaha YST-SW80	۵		180
Yamaha YST-SW150	0		280
Yamaha YST-SW300	0		350





Kuzma Stogi Reference Linn Akito



Linn Ekos	0		1.500
Manticore Musician II	0		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		#	800
N'ham Mentor	0		800
N'ham Foot	0		1,100
N'ham Paragon 1		#	1,600
Rega RB250	9		109
Rega RB300	0		174
Rega RB900	0		598
Rockport Series 7000		#	6,000
Roksan Tabriz	0		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 SME Series II 3010-R	0		514
SME Series II 3010-R	0		526
SME 309	0		565 689
SME 310	0		
SME 312	0		705 802
SME Series IV	0		983
SME Series V	0		1.461
Wheaton Music Tri-Planar 4i	0		3.000
Wheaton Music Tri-Planar 5i	0		3,000
Wilson Benesch Act 0.5	0		795
Wilson Benesch ACT1 Std	0		950
Wilson Benesch ACT2	0		1.350
Zeta AS	0		469
Zeta VDH	0		549

Zeta VDH	•	54
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'P20' — (etc.) numb RDS — Radio Dat receives text inform	a System;	

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P20' — (etc.) number RDS — Radio Data S eceives text informat programme type etc.	System;	on,
IC T7 cam Alpha 7	P30 P24	130 230
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	-		THE REAL PROPERTY.
Arcam Alpha 8	P24		280
Arcam Delta 280	P20		399
Audiolab 8000T	P39		800
Aura TU80	P30		350
AVI S2000MT	P16		599
AVI S2000MT2	P99	RDS	799
Carver TX-8R	P20		469
Creek T43	P68		399
Day Sequerra FM Ref			5,937
Day Sequerra S B'dcast Mon			14,640
Denon TU-260L	P20		120
Denon TU-215RD	P40	RDS	150
Denon TU-425RD	P40	RDS	200
H/K TU930	P30		150
H/K TU950	P30		200
Kenwood KT-2080	P20		130
Kenwood KT-3080	P30		180
Linn Kudos	P50		775
Linn Kremlin	P80		2,600
Magnum Dynalab FT11			550
Magnum Dynalab FT-101A			825
Magnum Dynalab Etude			1,250
Magnum Dynalab 108			4,500
Marantz ST-57	P59	Section 1	150
Marantz ST-65	P59		200
Marantz ST-17 Meridian 504	P60	RDS	600 695
Michi RHT-10	P30		895
Micromega Minium FM Mk2	P16		329
Micromega Tuner	P39		750
Mission Cyrus FM7	P39		400
Musical Fidelity E50	P29 P20		300
NAD 412	P24		190
NAD 414RDS	9600.00	RDS	250
NAD 710	P24	KD3	270
NAD 712	P24		330
Naim NATO3	124		595
Naim NATO2			1.080
Naim NAT01			1,730
Onkyo T 4210RDS	P30	RDS	180
Onkyo T 409	P30		230
Onkyo T 411RDS	P30	RDS	260
Pioneer F-204RDS	P30		140
Pioneer F-504RDS	P40	RDS	250
Pioneer F-504RDS Precision	P40	RDS	300
Quad 77FM	P25	RDS	700
Rega Radio	P24		229
Roksan Caspian	P50		495
Rotel RT-935AX	P20		160
Rotel RT-990BX	P16		500
Sony ST-SE200	P30		100
Sony ST-SE300	100000 M	RDS	120
Sony ST-SE500	P30	RDS	140
Sony ST-SE700 Sony ST-SA3ES	P30	RDS	180
T+A T1200R	P30	RDS	250 745
TEAC T-R400	Dan	RDS	120
TEAC T-H500	P20	DDC	170
TEAC TB-X10	P30	RDS RDS	400
Technics ST-GT350L	P20	KDS	150
Technics ST-GT550L	P39	RDS	200
Technics ST-GT650L	P39		250
Thorans TPT-2000	DEG	BDS	100

Yamaha TX-590RDS	P40 RDS 180
TURNT	ABLES
KEY	
O' arm included.	
= cartridge includ	ed.
	£500
Audia Nata AN TT 1	240

🖵 cartridge included.			
Audio Note AN-TT 1	10		34
Dual CS435-1	01	-	15
Dual CS455	0'	Ţ	19
Dual 505-4 UK	01	-	25
Eclipse TT430	01	-	7
Genexxa Lab-710	01	-	6
Genexxa Lab-810	01	-	7
Kenwood KD-492F	01	-	10
Michell Mycro			43
Moth Alamo	01		19
Moth Kanoot Mkl Arm	01		27
Moth Kanoot Mk3 Arm	01		32
NAD 533	01	-	22
N'ham Interspace			50
Pioneer PL-J2500-C	01	-	8
Pioneer PL-990	01	T	13
Pro-Ject 0.5/0M10 Pro-Ject 1/510	01	7	16
Pro-Ject 2/520	⊙! ⊙!	Ę	20 30
Pro-Ject 6/MC15	01		45
Rega Planar 78	01		21
Rega Planar 2	01		21
Rega Planar 3	01		27
Roksan Radius			47
Sherwood PM8550	01	-	13
Sony PS-LX150H	01	-	91
Sony PS-LX300H	01	-	15
Systemdek I/920			130
Systemdek IIX/900	01		23
Systemdek I/920/Moth	01		23
Systemdek IIXE/900Ap Systemdek 960			388 500
Systematek 2X2			500
Technics SL-J110D	01		120
Technics SL-BD20	⊙! ⊙!	Ţ	160
Technics SL-BD22	01	-	180
Technics SL-1210MkII	01		400
Technics SL-1200MkII	01		400
Thorens TD-180 AT91	0	-	190
Thorens TD-280 IV/UK	01	-	210
Thorens TD-166 VI/UK/RB	01		400
Thorens TD-318 III TP50	01		500

	100		
Over £50	00	5	
Audio Note AN-TT 2			995
Audio Note AN-TT 3			1,995
Audiomeca Romance	01		1,895
Audiomeca J1			3,500
Basis 2001			2,750
Basis Ovation II			4,800
Basis Debut Gold Std III			7,200
Basis Debut Gold Vacuum			9,250
Chantry QT Level 2	0.		705
Clearaudio Evolution	01		
Clearaudio Reference	01		1,790
AND			3,990
DNM-Reson Rota 1	01		3,900
DNM-Reson Rota 2	01		5,600
Impulse Moskito	01		695
Kuzma Stabi			1,950
Kuzma Stabi Reference			3,750
Linn LP12 Basik			1,100
Linn LP12 Lingo			1,750
Manticore Mantra 97			595
Manticore Mantra			895
Manticore Magister			4,400
Marantz TT-1000			6,000
Michell Gyrodek			825
Michell Orbe			1,950
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			575
Pro-Ject 6/Sumiko	O !	-	850
Rega Planar 9	O !		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			1,295
Roksan TMS			2,750
SME Model 20/2			3,403
SME Model 20/2A	O !		4,863
SME Model 30/2			10,675
SME Model 30/2A	01		12.135
Stratosphere ST1	0.		6,500
Technics SL-1200LTD	01		700
Thorens TD-146 VI TP50	01		550
Thorens TD-2001 TP90	01		700
Thorens TD-520 SME			1,050
Well Tempered Record Player	01		1.850
Well Tempered Classic	01		2.980
Well Tempered Super	01		3.900
Well Tempered Reference	01		5,300
Wilson Benesch Circle	O		795
Wilson Benesch WB Turntable			1,775
Wilson Benesch Full Circle	01		1,995
THISON DONOSCHI I UN ONOIG	0		1,555

Remember that all entries printed in **RED** refer to hi-fi products that we have reviewed. Turn to page 114 for a full summary of test results!

Do you want to choose your hifi in a comfortable and relaxing environment . .?

Do you want friendly and helpful advice (and a cup of tea) . . ?

Do you want to buy your system based on what you hear (and not what somebody tells you) . . ?

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Nobody else in these areas stocks all the following major brands: Acoustic Energy, Arcam, Audiolab, Aura, B&W, Cyrus, Epos, DPA, Harman Kardon, Heybrook, Infinity, JPW, KEF (Reference), Linn Products (including records), Marantz, Meridian, Mission, Musical Fidelity, NAD, Nakamichi, Onix, Pioneer, PROAC, QED (Systemline), Quad, Rega, Revox, Rogers, Rotel, Sony, Sound Org, Target, T.D.L., Yamaha (including Home Cinema Systems) & Top Tape.

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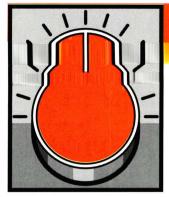
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he amplifier sits at the heart of the system, processing the outputs from the various music sources as necessary and then driving the loudspeakers. These two (quite separate) functions are integrated into a single box at the low-to-middle price points, but become separated into preamps and power amplifiers. Even separate power supplies become increasingly common as one moves upmarket.

Bear in mind that output power and sound quality are not necessarily

he amplifier sits at the heart of the system, processing the outputs from the various music sources as necessary and then driving the loudspeakers. These two (quite separate) functions are

Power output is equally no indication of sound quality.



KEY

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

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

MC PHONO INPUT: If an amp has a vinyl phono input for moving coil (low output) cartridges.

REMOTE CONTROL: If amp is couch potato ready.
HEADPHONE SOCKET: If an amp is can friendly.

POWER OUTPUT (W): Lab tested power output in Watts per channel.

RECEIVER: If an amp has a built in radio tune:

FACTSBACK NUMBER: The Factsback reference for ordering a fax
copy of the review. Use the contents page to find the Factsback

information page.

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

		AMPLIFIERS							4 1
roduct	Price(£)	AMPLIFIERS Comments	MC PA HONO IN		V	POWE HONE SU NTROL	V	ACTSBACI RECEI	SK NUMBER VER
Alchemist Maxim	319	Vivid and colourful sounding amp that's just too bold and brassy	5	•				30	1737
Alchemist Kraken APD6A	579	Compact, with Darth Vader styling, yet sound quality is surprisingly meek and mild, despite strong midband dynamics	5	•	Ī			55	
Alchemist Nemesis	700	Good if ultimately undistinguished amplifier whose strengths include warmth, authority and distinctive aesthetics	6					80	
AMC 3025a	130	Surprisingly potent and easy on the ear, if not especially analytical. Classic bargain basement material in fact.	4	•	•	•	•	30	
AMC 3050a	170	Tremendous value for money, and a full, big, if rather uninformative sound	4	•	•	•	•	45	
AMC CVT3030a	400	Beer-budget valve amp, with quintessentially valve-like virtues (euphony with dynamics) and vices (system dependency, noise) 6	•			•	30	
Arcam Alpha 7	260	Decent, if slightly system-fussy amplifier that generally pulls all the right strings	5	•			•	40	
Arcam Alpha 8	360	Enjoyably soft-centred amp, won't frighten the animals. Upgradeable via preamp output, and R/C (not supplied)	5	•			•	50	1853
Arcam Alpha 9	500	Not quite as much a star as the Alpha 9/9P combo, the solo integrated is nevertheless colourful and explicitly detailed	7			•	•	70	
Audio Analogue Puccini	450	Superbly finished, the new entry-level Audio Analogue performs way out of its class	5					40	
Audio Innovations Alto	300	Probably because of a lack of deep bass, this stylish amp sounds open, natural and relaxed	6					35	1540
Audio Note Ongaku	56,000	A single-ended, zero negative feedback triode, line-level amplifier and a half. Probably the best amplifier in the world	3					26	
Audio Note Oto SE	1,500	Transparent, dynamic, clear and subtle, but limited power	4					24	
Audiolab 8000LX	470	Well built, minimalist entry level model ultimately lacks bottle and pizzazz	6				•	60	
Audiolab 8000A	500	The 8000A remains a highly disciplined and mature-sounding amp	5	•	•		•	60	1581
Audiolab 8000S	700	Informative in every sense, only a slight lack of bite detracts. Perhaps Audiolab's best yet!	6			•	•	60	1740
Aura VA100 II	350	Big and smooth, yet slightly disjointed sound was equally familiar	5	•			•	70	1541
AVI S2000MI	999	Fine, detailed amplifier with excellent timing and strong control of a wide range of loudspeaker loads	5			•		100	
Bryston B-60	1,249	Build quality can't be faulted, but the lazy bass and opaque treble bracket an articulate midband. Comes with 20 year guarantee	2000			•	•	60	
Cambridge Audio A3i	200	Maximum information design, with plenty of usable and reasonably refined power. A snip	4	•				60	
Copland CSA8	945	Sophisticated yet transparent, this is one of those amplifiers that sounds good even when the gloss has worn off	5					60	
Copland CSA14	1,199	Great sound and looks, but watch out for high capacitance cables	4	•				60	1416
Credo IMP702	850	Old fashioned looking, but bags of clarity and precision, though it can sound brash in the wrong system	5					70	
Creek 4330	279	Compact, even pretty, but sounds dark and uninviting, with coarse treble and woompy bass	5					40	
Denon PMA-250SE	160	This amp can sound rough when extended, but within its limits it is open, detailed and likeable	5				•	30	
D non PMA-350SE	200	Reinvented in the minimalist tradition, the new SE model is a control freak, but can sound wonderful	5				•	50	1856
Denon PMA-425R	230	Well-equipped and generally enjoyable but slightly ragged performer. You can do better	3	•		•	•	45	1000
Denon PMA-725R:	350	Warm, bold, up-front presentation, but musically unexciting	5	•	•		•	97	1802
Densen Beat B-100 MkII	650	High 'air guitar' factor, and can punch outside its weight, but check to ensure it will complement the rest of your system	5					60	1002
DPA Renaissance	595	DPA's first integrated amp is typically innovative, but a little too 'crisp 'n dry' for our tastes	5			-	•	40	1582
EMF Audio Sequel	450	Relaxed and restrained design from Mike Creek	5	•			•	50	1002
Exposure XX Super	700	Rather transistorised, unexciting sound. Good coherence and rhythm. Best played loud	6					55	1743
Electrocompaniet EC1-2	995	A 50 watt amplifier which sounds more powerful, and makes real sounding music in real sounding acoustic spaces	4					50	1740
Gamma Acoustics Gemini	699	Genuine single-ended triode design, but low power, mundane sound and poor build	3		E			12	1416
Harman/Kardon HK610	180	Lively and friendly sound, but could prove too exciting for the faint hearted	6				•	30	1465
Harman/Kardon HK620	250	Capable and musical amplifier which is among the nicest available at the price. Optional add-in MM/MC board available.	6					40	1858
Harman/Kardon HK640	400	Breezy, nimble sounding amp, lacks grip and fortitude – it can sound artificial and insubstantial	6				•	55	1542
oLida 202	695	Well-built and technically accomplished, affordable valve integrated with subtle and refined, if not quite gripping sonic performance	No.					40	1342
IVC AX-V4	200	Respectable performance for a Pro-Logic AV amplifier. Lacks resolution and sparkle, though	5	•			•	63	1805
IVC AX-R5	200	Versatile, and lots of even-handed, articulate detail; but let down by superficiality	5	•				45	1466
enwood KA-3020SE	200	Not a brilliant phono stage, but this is a lively, exuberant sounding amp via CD	5					50	1130
Kenwood KA-5090R	300	Large, well equipped and high tech integrated, but TRAITR output still gives a harsh, unsubtle performance	5					65	1130
Krell Digital KAV-300i	2,550	EISA Award winner with balanced inputs and AV friendly outlook, sound is confident and three-dimensional (Statements)	5				-	150	1825
FD Integrated Zero	549	Lively and brisk, but at the same time cold and unsympathetic	6					50	1584
Linn Majik (Phono)	800	The cornerstone of Linn's modular hi-fi system is innovative, but sounds vague and confused	5		•	B .	•	33	1013
Magnum IA120	265	Mirror finish amplifier with a bold, colourful delivery, but needs careful system matching to avoid loss of focus and clarity	6			-	•	65	1013
Magnum IA170	330	Gives a realistic sense of instruments playing within a very believable acoustic, preserves colour and dynamics well	6		-	8		96	1260
Magnum IA-200	599	Sweet, valve-flavoured solid state amplifier flatters where it doesn't cast light. Note: power output listed is peak	7				Contract of the Contract of th	100	1860
Magnum Class A	690	Lashings of rich and compelling music, but the Class A trades lushness for accuracy	4		•			60	1000
	795	A MOSFET amplifier that draws it inspiration from the world of valves, the Magnum is an erratically refined, detailed amplifie	- Contract					No.	
Magnum Class A SE	-	A MOSFET ampliner that graws it inspiration from the world of valves, the magnum is an erratically refined, detailed amplifie Well equipped but ultimately anodyne amplifier which lacks for nothing but star quality	-	•				80	
Marantz PM-57 Marantz PM-66SE	200	The state of the s	5	•			•	50	
	-	A bit lush, and power output is limited, but it communicates well and gives airy, large-scale music. An excellent budget buy	5					50	
Marantz PM66 KI-Signatur	-	An amplifier that knows how to rock and roll with holographic detail and stereo, but prefers small/medium scale acoustic material	5	-	8	-	•	50	1054
Mission Cyrus Illi	598	Beautifully presented, but mid-dominated balance and other anomalies were not liked. Upgradeable using PSX unit PSU	6			•		50	1854

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INTEGRATED AMPLIFIERS



Product F	Price(₤)		TS INP		VA A			V	
Musical Fidelity A2	499	Lucid, transparent midband and a full upper bass are provided by this highly proficient A1 replacement	5	•			25	1862	162
Musical Fidelity A220	700	Powerful, authoritative and well turned-out amplifier that is easy to match with comparably priced speakers and source component	. 5	•			50		168
Musical Fidelity E1	199	Vivid, richly flavoured tonality and realistically scaled imagery distinguish this new entry level Richer Sounds special	6				30		171
Myryad MI120	600	Well styled, well built and, well, a good, even tempered amplifier, though it can sound a tad brittle, and lacking in euphony.	6				60		175
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	149
NAD 312	200	Another great budget price NAD, and a worthy all-round successor to the 302	6	•			25		171
NAD 314	260	Lively if coloured presentation that is musically engaging and easy on the ear	6	•			53	1807	157
Naim Nait 3	575	Distinctive and highly musical sounding integrated amp. Perhaps too distinctive for some tastes	5				30	1748	0010
Orelle SA-100	499	A musically rewarding amplifier that grows on you. Trace of coarseness in treble	5	1			50	1749	15
Pioneer A-204R	160	The A-204R makes no special claims beyond being well equipped and cheap, but it displayed unexpected talent on test	5	•			25	00 900	171
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	•		000	50	1469	-
Pioneer A-400X	300	On second audition, this amp was tonally unchanged but less compelling	6		•	90	50	1545	100
Pioneer A-300R Precision	400	Sophisticated, breathed-on variant of the A-300R. Not an obvious winner, but will slowly win you over with its subtle charms	5			- 65	35	50 PS	650
Pioneer A-605R	400		5	100		10	500	1863	-
	999	Intriguing technology, but execution is certainly impeded by excessive gadget count	5	•		100	• 80 80		168
Pioneer A-07	- 1	Curious mix of high end attributes and inconsistent, though undeniably detailed sound	200	•	P- 80		80	-	175
Prime Design A-100	650	Dynamic but somewhat aggressive powerhouse with limited stereo interest (either MM or MC phono)	4	•	•	- 8	100		168
Pro-ject Model 7	300	A minimalist amplifier brimming with good intent, but too quirky for its own good. Either MM or MC	5	•		- 8	40	1264	8017
Quad 77 Integrated	700	Compact and sophisticated Quad system amp, limited range of inputs when used with 'foreign' components (optional system remote)	100				84		168
Rega Elex	398	Minimalist amplifier derived from Elicit, is a little uninspiring, though at least it is not badly behaved	4	•			50	1865	162
Roksan Caspian	695	Well-built, open and articulate amplifier, which is also consistent from system to system, and well built	6				70		168
Rose Scion	615	Unique two-box integrated gives real subtlety and low level resolution, but the sound lacks scale and weight	5	•	•		65		168
Rotel RA-931	150	Rather dry and unforgiving sound from this internally well specified and attractively priced amplifier	4	•			• 35		171
Rotel RA970BX	250	Lively, fresh and perky with plenty of power, but not so clever with complex recordings	6				• 60	1546	138
Sony TA-F448BE	250	Classic minimalist interface is matched to carefully considered circuit to broadly satisfactory effect - but keep the volume in check	5	•			5 5		171
Talk Electronics Storm 1	500	Good soundstaging and strong detail are provided by this unassuming and not especially powerful model	6				50	1868	162
Talk Electronics Storm 2	650	Crisp, clean, well defined sound, arguably lacking warmth, but a good midrange purchase overall	6				50		175
TEAC A-BX7R	700	Characterful balance mars an otherwise meticulously designed amplifier. Includes a balanced input, optional MM/MC stage	5			•	50	1869	100
Technics SU-A700 Mk 3	250	Fully equipped, high-tech amplifier ultimately fails the 'is it Stork?' test, and can sound messy and inarticulate	5	•			• 45	1870	162
Technics SU-A900DII	400	Looks like a pre/power amplifier, but in effect it's an integrated, with a rather soft, centred sound to match	5	•			• 70		175
Woodside ISA230 Disc	1,249	Smooth and inoffensive valve amplifier, though it lacks the sparkle and euphony required for a truly entertaining sound	3	•			30		116
/amaha AX-592	280	Fine, middle ranking amplifier, with a detailed, dynamic midband, and some performance falloff at the frequency extremes	5	•	•		• 100		171
Preamplifiers	200	This, made ranking amplinor, with a decanda, dynamic made and, and some performance ranking amplinor, with a decanda, dynamic made and, and	0				100		1/1
Acurus RL11	899	Well-featured US preamp with plenty of grunt and depth when used with the A150 power amp (Sessions)	6					1624	161
AMC CVT1030A	400	Budget valve preamp, modest build and a bit noisy, with fair sound	6	•		- 80	•	1024	165
Audio Innovations L1	369		4			-		1200	-
Audiolab 8000C	580	Reviewed with \$800 Anniversary — explicitly detailed, conveys the message of the music as a whole	-			-		1300	-
Audiolab 8000Q		Distinctive, stark neutrality that will not appeal to all. Good value engineering	5	•	•	-	•	1001	97
Aura CA200	1,250	Tested with 8000M monoblocks	6		- E	200	•	1301	200
	700	Flexible, well designed – can sound slightly aggressive, but it's fast, clean and dynamic, and makes compelling listening	10	•			•		165
Conrad-Johnson PV-10A	1,295	Beautiful imaging, superb detail, plenty of gain on the phono input; classy build too. Tested in Sessions	4		•			1560	100
Copland CTA-301MkII	1,399	Sweet sounding — but never gets bogged down in audio treacle	4	•				1630	200
Cyrus Pre	648	Tested with Cyrus Power. High-tech design, punchy, light-footed character with a sense of substance and natural warmth	5	•					155
Densen DM-20	1,200	Stylish Danish preamp with a pair of huge knobs and effortless resolution and a slightly dark balance (Statements)	6						164
EAR 802MC	2,599	Tested with 509 Mk II - see comments in power amp section	4	•	•				63
ECA Vista	760	Wind up the volume and blow a breath of fresh music into your system (tested with Lectern)	5					1302	145
Exposure XVII	849	Superbly rhythmical; maybe a bit overpowering in the midband. Tested in Sessions with XVIII Super	5	•	•				142
adis JP-30MC	5,980	French tubes, JP-30MC has beautiful build, nostalgic styling and delightful midrange. (tested with JA30)	5	•					60
LFD Mistral Linestage	449	Strong ergonomics, generally decent sound, but a little lacking in detail	6						165
Meridian 501	695	Tight, positive sound, but dispassionate; intense at high levels. Tested with 555	5	•			•	1303	145
Meridian 562V	995	Transparent and capable preamp, also features six digital inputs	9	•			•		140
Meridian 502	1,295	Extremely sophisticated analogue controller with tremendous flexibility and a fast and tidy presentation (Statements)	7			•			162
Moth 30 Passive	149	Modular system gives cracking results. Passive preamp and power amp warrant Best Buy (tested with 30/Stereo 60)	4						109
Moth 30 Active Line Stage	349	Excellent sounding ultra-simple miniature preamp	4			-			165
Muse Model Three	1,990	Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp (tested in Statements,	100			•			166
Musical Fidelity X-PRE	200	Cleverly configured and attractively packaged preamp with many upgrade options, and open, lively and engaging sound	4						175
NAD 114	270	Beer-budget preamp, sounds focused, detailed and consistent	6		•		•		165
Naim NAC92R	470		5		- E				165
Quad 77 Pre	100	Upgradeable preamp uses proprietary socketry, etc. See NAP90 power amp for comments Sophisticated design with 2 way remote control console, open colourful sound and year flexible.	4						165
Rega Hal	850	Sophisticated design with 2-way remote control console; open colourful sound and very flexible	6						5017
	998	Dedicated to Exon power amps – passive line stages You can go were to get a more transported and that it's hard to criticise at the price.	3						165 77
Rose RV-23	450	You can pay more to get a more transparent sound, but it's hard to criticise at the price	-						-
Rotel RC970BX MkII	175	Confident, consistent sound, reviewed (in Sessions) with RB970BXMkII power amps	5				•	1005	144
Sumo Athena IIB	767	Tested with Polaris III. Big, natural and tidy-sounding with very natural reproduction of acoustic and electric instruments	6					1305	2000
Talk Hurricane 2L	649	Design of integrity which gets to the heart, if not the soul, of the music	6						165
Thorens TTP2000F	699	Glamorous, shoebox-format, minimalist pre with fine detail and some granularity	3	•	•	•			165
Woodside SC26 Phono	2,233	Synergistic with STA35, with a cool, controlled sound, good focus and transparency (tested with STA35)	5	•	•				100
Power amplifiers									
Acurus A150	899	Tested with RL11 preamp. Powerful remote-control US combo with a slightly forward inclination	1				150	1624	151
Alchemist Kraken/Pwr	529	Hardly accurate, but entertaining nevertheless	1				60		124
AMC CVT2100A	600	Astonishing value valve/MOSFET hybrid with KT88 output, but lacks the magic of the best valves	1				80		165
Arcam Alpha 9P	400	Clear, colourful and well-disciplined, the Arcam is a strong all-rounder that can compete with conviction	1			-			165
Art Audio Quintet	1,500	Switchable triode, ultralinear output stage. In triode mode, these are 15 of the sweetest Watts around. Surprisingly gutsy	1				15		109
NAME OF TAXABLE PARTY OF TAXABLE PARTY.	100	Can sound slightly aggressive, but it's fast, clean and dynamic, and makes compelling listening	1				100		165
Aura PA100	700								

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POWER AMPLIFIERS (CONTINUED)

Product	Price(£)		IM PHONO INPUT SE INPUTS INPUT SE INPUTS	PHONER OUTPUT RECEI ONTRO	K NUMBER K NUMBER
Audio Research VT60	2,395	Ranks as 'must try' American cultural item (tested in Statements). Tube design	1	35	1179 13
Copland CTA-505	2.099	Grown-up amplifier with a refined, yet never over-civilised air	1	67	1630 15
Cyrus Power	498	Tested with Cyrus Pre. Punchy, light footed character with a sense of substance and natural warmth (bridgeable)	1	50	15
Densen DM-30	1.200	Fluid, valve-like power amp with effortless resolution and a slightly dark balance (Statements)	2	100	16
EAR 509 Mk II	3.699	Combining sonic strengths of transistors and valves, this amp warrants attention (tested with 802)	1	100	6
ECA Lectern	880	Tested with Vista. Wind up the volume and blow a breath of fresh music into your system	1	50	1302 14
Exposure XVIII Super	849	Slight dullness and hardness, but great 'boogie factor'	1	70	14
Jadis IA-30	5,980	French tubes, JP-30MC has beautiful build, nostalgic's yling and delightful midrange (tested with £5,978 JP30)	1	30	(
LFD Mistral Power	449	Infectious upper band vitality, but LF dynamics lacking, and lacks 'grip' and transparency	1	60	16
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 14
Meridian 557	1,400	Hefty British lump with balanced inputs and a transparent, nimble sound with no shortage of power (Statements)	1	200	10
Michell Alecto	1,150	Open, well focused imagery with natural, refined textures	1	50	16
Moth 60 Watt Stereo	599	Miniature power amp lacks control and finesse, not comfortable with difficult speaker loads	1	60	16
Moth 30 Series Monobloks	879	Tested with Active Preamp. While demonstrating solid, even balance it proved adept at delivering vital musical qualities	1	100	1:
Muse Model 160	2,290	Transparent muscle amp with minimal character and a natural performer in both scale and tone (tested in Statements)	1	160	10
Musical Fidelity FX2	800	Quality build and imposing presentation is married to strong power yield, tonal colour and finesse	1	100	10
Musical Fidelity X-A50	500	Cleverly configured and attractively packaged, open, lively and engaging sound. Reviewed with X-PRE	1	50	17
Myryad MA120	450	Based in MI120 integrated — see for comments, but sounds significantly better when bi-amped with MI120	1	60	16
NAD 214	370	A little lightweight, but detailed, consistent sound quality, and excellent value for money	1	80	16
Naim NAP90	450	Power amp from a Nait integrated with some improvements	1	30	16
Quad 77 Power	600	Open, bold and colourful, with mild compression	1	85	16
Rega Exon	1,196	Monoblock, priced each, dedicated for Hal preamp. Bold, outgoing, in-command kind of sound	1	125	16
Rotel RB-970BX MkII	225	Tested with RC970BX MkII in Sessions (see preamp section)	1	60	14
Rotel RB-980BX	450	Tames enthusiastically recorded material with a laid-back and occasionally smeared sound (tested with RC980BX)	1	120	15
Sumo Polaris III	950	Tested with Athena IIB. Big, natural and tidy-sounding with very natural reproduction of acoustic and electric instruments	1	164	1305 14
Talk Tornado 2	599	Good, but slightly retiring sound which lacks the authority to stand out in a crowd	1	65	16
Thorens TTA2000	599	Low power shoe-box format, but gutsy and surprisingly subtle and articulate	1	30	16

For more information or your nearest stockist, 22 (0181) 947 5047 or e-mail 73064.1710@compuserve.com





Cables

ables are not just accessories, but an integral part of a system. Inevitably some cables are better than others. The best cable for your system will only be found through trial and error, but by combining our recommendations with those of a dealer, you will end up with something suitable. Generally speaking, budget to spend about 10 per cent of the total system cost on cables.

■ Analogue interconnects are the leads that connect source components to amplifiers and pre to power amps. The cables in this section are priced for a one-metre terminated pair

- Digital interconnects connect CD transports to DACs, and are traditionally coaxial with a 75 Ohm impedance. They come in optical and electrical varieties, the former being made of plastic or glass. The prices shown are for a terminated linear metre.
- Speaker cables are used between the amplifier and speaker. Our prices are per unterminated metre. Termination (plugs and soldering) costs vary with brands.



SYMMETRICAL: A twisted pair of conductors. COAXIAL: A central 'hot' conductor and a shield that carries the STRANDED: Multiple strands with no intervening insulation.

SOLID CORE: Single or multiple, individually insulated strands. COPPER: Material used for conductor. SILVER: Material used for conductor DIG CABLE TYPE: 0 - optical digital, E - electrical digital.

FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page

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

ADIEC

	CABLES			SYMMETRICAL	COAXIAL	ANDED CO	ORE COPPE	FACTSBA DIG CABLE SILVER	CK NUMBER	UMBER
	Product	Price(£)	Comments	经有关的 计	VA		VA	V	V	
	Analogue Interconnects									
	Audio Note AN-A	29.50	Not especially impressive, warm but well-rounded balance that restricts 'air' but is not unclear		•	•	. •			108
	Audio Note AN-C	59.50	Neutral but lacking in subtle texture and unable to distinguish fine detail						1687	131
R	Audio Note AN-S	139	Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass		•		•	•	1687	131
	Audio Note AN-V	219	15 individually insulated silver strands make up this very clean and dynamically unchallenged cable		•	•		•	1687	131
	Audioquest Turquoise	40	A 'fit and forget' cable that sounds distinctly lazy		•	•	•			160
	Bandridge AL421	5	Light and airy sound lacks authority, splashy treble		•	•	•		1688	131
	Bandridge AL426G	10	Gold-plated plug OFC version of AL421 with same ineffectual sound quality		•	•	•		1688	131
	Bandridge SG AL4720	13	4N OF copper, full smooth balance but a little plodding and relentless, lacks panache		•	•	•		1688	131
	Bandridge SG + AL4820	25	4N OF copper, distinctly teutonic, thrusting detail forward but still plodding and relentless		•	•	•		1688	131
	Bandridge ProfiGold PG301	65	A perfect cable for enlivening a system, but too cold for most systems			•	•			160
4	Cable Talk Studio 2	65	A first-class performer from tonal, dynamic and rhythmic standpoints		•	•	•			160
4	Cambridge Audio Studio Re	f 40	Dynamic cable with strong soundstaging and only a slight lack of detail			•	•			160
	Chord Chameleon	68	Anomalous treble with a dry but vaguely sibilant quality, sometimes sounds smooth, sometimes harsh!			•	•			108
4	Chord Solid	99	Thin but very stiff with excellent resolution of subtle timbral detail and fine dynamics							108

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CABLES (COI	NTINUED)	MMETRICAL COAXI	STRANDED	CORE COPPER	SILVER	SK NUMBER TYPE	YUM
		Comments			VV		V V	
Connections Midas HD	39	Canary yellow cable with excellent plugs and an open sound. Slight treble glare						1
DNM TCC75	34	Price for 0.75m length. High resolution cable, but best in short runs due to higher than average series impedance					1690	- 1
PA Slink	41	Slightly bright and zingy sound with flat soundstaging and hollow sounding bass, vocals and strings sound convincing the	hough				1690	-
PA White Slink	75	Highly expressive, very easy on the ear and attractively detailed though not entirely characterless at high frequencies	TO WELL				1691	-
OPA Black Slink	220	Initially dark and meaty but becoming lucid and transparent with running in. Quad geometry, Gore-tex dielectric	•				1691	-
xos 104	20	Open and detailed presentation, full bass and silky if overly smooth treble					1692	
xos 103	40	Even-handed and generous sound, bass has a well-rounded, bouncy quality			•		1692	
xos 102	60	A bit bright and undynamic, this cable is nevertheless a good all-rounder, whose faults are largely subtractive			•			
xos 101	100	A cable with personality, its veiled and shut in quality brings an earthiness to vocals and rhythm guitar alike			•	•	1693	
.FD Spirolink I	35	Price for 0.7m length. Dynamic but smoothly detailed performance, but gives the impression of looking down on the mu	isic				1694	
FD Spirolink II	70	Price for 0.7m length. Strong and confident sound enhancing bass depth and subtlety, concentrates on the meat of the	100-				1694	
.FD Trilink	150	Price for 0.7m length. Warm and luxurious sound but a little too fruity in balance, treble is a little subdued, bass detact					1695	
inn Phono to Phono	47	Encourages a delicate performance underpinned by a strong and authoritative bass			•		1695	
Monster Interlink 200	20	Colourful in an appealing rather than contrived sense, bass is slightly over-blown, large and ingratiating sound stage	•		•		1696	
Monster Interlink 300	30	Richer, smoother more civilised sound than 200 with improved articulation and reduced sibilance			•		1696	
Monster Interlink 400	40	Compromised by a grainy top end, treble and vocal range sound particularly sharp and untidy	•				1697	
Monster Interlink 500	50	Sounds rather good, providing a livelier and more interesting account of music than most sub £100 cables			•	-	1037	,
Monster Interlink 800	80	Not as bright or aggressive as the 400 but treble is strangely lumpy, muted and manipulated - odd cable				100	1697	
Monster Interlink Reference 2	100	Easy on the ear but rather contrived, slightly clanky treble fails to integrate with the smoother but splodgy midband					1697	
Noth Ley Line Black	100	Offers a full and big sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy	•			•	109/	/
Noth Ley Line Black	200	Detailed enough but there's a sense of distance between the music and the listener, vox are coarse rather than liquid						
Nordost Black Knight	55			_		-		
Panasonic RP-CA910	-	Flat black cable that is distinctive but slightly coloured — but not in a wholly negative manner	tv			100		
	50	Uncongested and even handed balance if slightly flat imagewise, retains impact but has a vaguely untransparent quali	TÀ		•	-		
ilvertone Ex-Static	35	Pleasantly unfatiguing and competitively priced cable that lacks detail and insight		-	•	-		
onicLink Silver Pink	35	Dynamically sensitive and muddle-free. Unsure about the flesh-coloured finish though					1000	0
SonicLink Black	49	Encourages an upbeat and snappy sound that's driven by leading edges, full and rumbustious bass maintains an even		•	•	100	1699	
ara Labs Prism 11	45	Very compatible cable that wins through with a naturally balanced and realistically dynamic sound. 6N purity copper			•	-	1699	
ara Labs Prism 22	56	Delivers a fresh and detailed sound with clear and bright treble giving it a free, quick and dynamic character	71	•	• •	800	1700	J
ara abs Quantum CD	75	Lacking in obvious vices, neutral and transparent, there's also a good solid bass. Vox are not always as intimate as po	ssible		• •		1700	0
ara Labs Prism 33	90	A pedestrian cable that sounds lively but muddled. Quite dynamic, quite rich, quite smooth but also quite indistinct		•	• •		1700	
ransparent Audio Music Link		No aggressive nasties to tax the ears, neither does it sparkle with inspirational detail. Only suited to low output impeda		• •	•	-	1701	
an den Hul The Storm	25	Price for 0.8m length. Rich and warm but bass is rolled off, however there's plenty of drive and high frequencies are cl	ean	•	• •	-	1701	l
an den Hul Source HB	50	Price for 0.8m length. Hybrid carbon-fibre/copper cable that is a paragon of naturalness. Airy and well controlled		• •	•			
an den Hul The First	210	Using 12,000 carbon fibres, a gentle and subtle sounding cable that conveys oodles of information but lacks dynamic p	ounch	• •			1702	
an den Hul The Second	225	Wonderfully open and relaxing but also intimately detailed, slightly softens percussive dynamics		•	•	•	1702	
(LO Type 150	50	A restrained but useful cable for taming lively CD players, dynamics lack freedom, treble lacks clarity		• •	•		1703	
(LO Type 0.1	180	Unusual but highly expressive and detailed with a hint of graininess on powerful vocals		EE	• •		1703	3
Digital Interconnects								
Audio Note AN-V	110	Ostensibly an analogue cable but gives a meaty and natural performance when used for digital duty	•		•	•	E 1704	4
ludioquest Optilink Z	120	Good level of midband detail but frequency extremes lack depth and extension					0	
Audioquest Digital Pro	100	A silver cable with all the drive of Video Z but lacking its clear cut transparency			1		E	
Bandridge AL4900G	40	Lacks deep rounded bass and treble is coloured with a spittiness, a little rough and ready		•	•		E 170	5
Chord Codac	32	A connection with a stranded inner core and a sound that lacks integration			,	•	E	
Chord Prodac	50	Price for 0.6m length. Lively detailed treble, drives music along confidently with no hint of fizz		•	• •		E 1706	6
OPA Opti-link	20	Very similar to Bandridge AL560; sound is lacklustre					0	
OPA Digi-link	28	Can seem slightly impassive but there's no avoiding its exceptionally detailed sound					E	
xos 105	25	Extended but soft-edged treble that's mercifully free of fatigueing colourations, plenty of weight, smooth vox		•			E 1707	7
Kimber Kable Opti-link	50	Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most					0	
FD Digilink Copper	30	Slightly grainy highly compatible cable with coherent and forward dynamic quality		•			E 1708	8
Moth Leyline Datalink	140	A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive					E	
QED Digiflex	20	A top performance, low-loss 750hm coax with a very open, almost liquid quality					E	
Siltech HF-6	150	Sounds detailed, very clean and very extended, but bass is less well resolved - a treat for high-end systems		•	•	•	E 1709	9
SonicLink Green	60	Spacious, positive and engaging if a bit over crisp at times, very compelling however		•		•	E 1709	9
van den Hul MC Videolink 75	-	An AV-cum-digital cable that nearly beats QED's Digiflex, but emphasises sibilants		•			E	
an den Hul The First	120	Exceptionally natural albeit slightly dark or cautious compared to some, plenty of subtle information and beautiful integral	gration				E 1710	0
Loudspeaker Cables								
Audio Note AN-D	4.50	Supplied in linear, non-polarised lengths that should be twisted into stereo pairs. Sounds rather grippy and forward)		ſ
Audio Note AN-B	16.50	Well suited to valve systems, elastic bass, methodical but unintrusive and musical			•	,	171	1
Audio Note AN-L	29.50		•		•	•	171	
Audio Note AN-SP	125	A calm and civilised presentation, very quiet in the way it reveals subtle low level detail. Great poise and clarity			•	•	R B	Ī
Audioquest F-14	1.95	Ideal for laying under carpets, F-14 encourages a slightly warm and vibrant sound						
AND DESCRIPTION OF THE PROPERTY OF THE PARTY	4.95	Four 18-gauge OFHC copper conductors wound in a Litz-type fashion increases capacitance but restrains the cable's '	'bite'			,		
AUDIODUEST IVNE 4	4.55	A rather polite and anaemic sound that bubbles gently with detail and is largely uncoloured and cautiously spacious	DITO					
	-	Neutral balance is spoiled by some graininess and smearing	•		N 800	-		
Audioquest Cobalt 2	18					-	171	3
Audioquest Cobalt 2 Audioquest Crystal	18 42p	Basic figure 8 bellwire, lightweight balance and a softness that dilutes even the strongest bass				200	100 EQ.	
Audioquest Type 4 Audioquest Cobalt 2 Audioquest Crystal Bandridge SF LC1070 Bandridge SF LC1259	42p	Basic figure 8 bellwire, lightweight balance and a softness that dilutes even the strongest bass Fresh and onen, bubbly and naturally colourful soundstage that's neither forced or unduly edgy. Treble is slightly mess	-			1	171	3
Audioquest Cobalt 2 Audioquest Crystal Bandridge SF LC1070 Bandridge SF LC1259	42p	Fresh and open, bubbly and naturally colourful soundstage that's neither forced or unduly edgy. Treble is slightly mess	-				171	
Audioquest Cobalt 2 Audioquest Crystal Bandridge SF LC1070 Bandridge SF LC1259 Bandridge LC7409	42p 1 3.85	Fresh and open, bubbly and naturally colourful soundstage that's neither forced or unduly edgy. Treble is slightly mess Detailed and up-beat cable. A bit too steely for classical strings	y		•		171 180	
Audioquest Cobalt 2 Audioquest Crystal Bandridge SF LC1070 Bandridge SF LC1259 Bandridge LC7409 Cable Talk Talk 3.1	42p 1 3.85 2.25	Fresh and open, bubbly and naturally colourful soundstage that's neither forced or unduly edgy. Treble is slightly mess Detailed and up-beat cable. A bit too steely for classical strings Quite well-balanced but tends to lose bass lines in complex music	-				180	00
Audioquest Cobalt 2 Audioquest Crystal Bandridge SF LC1070 Bandridge SF LC1259 Bandridge LC7409 Cable Talk Talk 3.1 Cable Talk 4.1	42p 1 3.85 2.25 4.25	Fresh and open, bubbly and naturally colourful soundstage that's neither forced or unduly edgy. Treble is slightly mess Detailed and up-beat cable. A bit too steely for classical strings Quite well-balanced but tends to lose bass lines in complex music Smooth and cultured sound that lacks fine detail and is a bit too restrained	y •		•		B - 100	00
Audioquest Cobalt 2 Audioquest Crystal Bandridge SF LC1070 Bandridge SF LC1259 Bandridge LC7409 Cable Talk Talk 3.1	42p 1 3.85 2.25	Fresh and open, bubbly and naturally colourful soundstage that's neither forced or unduly edgy. Treble is slightly mess Detailed and up-beat cable. A bit too steely for classical strings Quite well-balanced but tends to lose bass lines in complex music	y				180	00

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CABLES (CONTINUED)

CABLES (A District		41 .41	SANDED CO.	RE COPPER SI	ACTSBACK ISSUE NUM CABLE TYPE ILVER
Product F	Price(£) Comments		V V	VV	VVV
DPA Black Sixteen	90	Unflappable resolution of fine musical details, there's no dampening of dynamics, simply oodles of taut information	•		• •	• 1717
Electrofluidics Monolith 20/2	0 40	One of the best cables available, incredible bass, imaging and resolve in a high capacitance, flat, Goertz style design (Session:	(3)		• •	
Gale XL189	99p	Slightly bright and not that subtle, but a perfectly acceptable cable for any starter system	•	•	•	
Gale XL315	2	A little lacking in detail but plenty of life and excellent value		•	•	1800
Gale XL160-2	2.50	Rhythmic and bouncy-sounding bi-wire cable. Can be slightly manipulative		•	•	1800
Goertz M2	20	Remarkably detailed, smooth, neutral and with excellent bass; check amplifier compatibility	•		• •	
Heybrook Heywire	4	This well-meaning facsimile of earlier ribbon cables ends up sounding lumpy and uneven			• •	
Ixos 603	2	Big and expansive-sounding cable, full and engaging while retaining a high degree of neutrality				1718
Ixos 604	5	Midrange is detailed and surprisingly smooth but treble is hard and synthetic and the bass no better		•	•	1719
Kimber 4TC	19.68	A well-balanced cable with good performance in all areas	•	•	•	
Kimber 4TC Double-wire	40	A variation on a Kimber classic which produces a rich and weighty sound, but isn't quite as transparent as single runs		•	•	
Mission Quartet	7.90	Mixed, inoffensive sound, adds guttural resonance to vocals and could be generally more coherent. Bi-wire			• •	1722
Monster Cable XP	1.50	XP offers plenty of slightly soft bass and a slightly rounded treble, a relaxed cable whose indiscretions are not bothersome		•	•	1723
Naim NACA 5	5.11	Described as a 'dinosaur of a cable', this stiff wire rod doesn't belong outside Naim systems. But it works a treat in them		•	•	
Nordost Octava	2.95	Fair bass but confused treble and some coloration	•		• •	
Ortofon SPK100	3	Grey-sounding and strips instruments of their natural richness and resonance, a bit bass shy too		•	•	
Ortofon SPK300	8	Tremendously open and atmospheric with robust full blooded bass, and dynamic too if slightly bright at times			• •	
Puresonic 7845	1.95	Big, weighty sound — but too messy and bloated for its own good		•	•	1800
Puresonic 7891	2.85	Chunky cable design, shame about the sound quality	•	•	•	1800
QED Qudos	2.50	Despite high-tech design and excellent Air-Loc plugs, the music failed to gel	E 8	•	•	1800
QED Profile	9	Good midrange and treble balance, but bass is rather slack and detail not outstanding				
QED Profile 8	5	Sophisticated flat cable that lacks decent bass and get up and go	F 8	•	•	1800
Silver Sounds 12 gauge	12	Basic 'homemade' construction gives fairly neutral sound, though not outstandingly competitive	•	•	•	
Sonic Link S300	18	Happiest with simple music; tends to smudge detail in complex pieces	•	•	•	
SonicLink AST50	1.95	It may look like bell-wire, but AST50 sounds detailed, ordered and balanced		•	•	1800
Transparent Audio Musichord	11.42	Sweet, open and refined treble, a bit of breathy exuberance and can sound slightly lackadaisical		•	•	1728
Transparent Audio Wave	22.84	Very close to the sound of 'no cable', one of the very best. Slightly softens treble detail	•	•	•	1728
Tech+Link OFC79	1	Bargain basement cable that sounds cosy, but suffers from a wobbly bass	1 6	•	•	1800
van den Hul The Clearwater	6	Despite its evocative title, the Clearwater turns out to be a disappointingly murky-sounding cable		•	•	•
van den Hul CS122	19	Smooth and articulate with superb focus and control, its sheer coherence makes it a winner (tested in Sessions)		•	•	•
van den Hul The Magnum	31	Touted as vdH's most prestigious twinlead cable, Magnum sounds soft and old fashioned		•	•	•
van den Hul The Wind	35	'The Wind' kicks up a storm with its lush midrange and bone-crunching bass!		•	•	•
van den Hul Revolution	64	Silver-plated OFC combined with carbon fibre prompts a sombre character with an easy and relaxed treble		•	•	• 1726
XLO Pro Type 625	4	Lively but natural and relaxed-sounding but a hint of congestion at frequency extremes		•	•	• 1726
XLO Pro 600	16.60	Basically neutral tonality but can become aggressive and two-dimensional	•	•	•	



Cartridges

artridges fall into two groups: high output MM (moving magnet) models, capable of working directly into most phono inputs; and generally more expensive low and very low output MC (moving coil) models. MC cartridges usually have better mechanical integrity, tighter tolerances and give better performance. Many amplifiers are no longer equipped with the necessary phono input for a cartridge, and a separate phono stage is necessary. Phono input equipped valve designs need a

transformer to cope with MC cartridges.

■ Cartridge/amplifier interfacing can be very subtle, but even basic high output MM designs benefit in overall balance from optimised amplifier capacitance loading.



KEY

AM: Moving magnet cartridge with a normal output suitable for all vinyl disc amplifier inputs.

MC: Moving coil cartridge with a low output only suitable for high-

sensitivity vinyl disc amplifier inputs

REPLACEABLE STYLUS: Most MM cartridges have a stylus that can be removed and replaced.

OUTPUT (MV): Cartridge output in millivolts. MASS (g): Cartridge mass can affect arm choice.

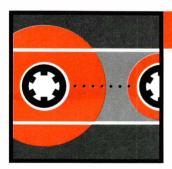
FACTSBACK NUMBER: The Factsback reference for ordering a fax

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CARTRIDO	GES		REPLAN MM	EABLE SI	PACTSE OUTPUT MA TYLUS (MV)	ACK NUME SS (g)	E NUMBER
Product	Price(£)	Comment			V		V V
Audio Note lo IIv	1,695	One of the best, giving an extraordinarily relaxing midrange clarity. Needs a transformer		•	0.1		100
Audio Technica AT-95E	19	Clear and dynamic, though richly balanced			• 2.8		48
Audio Technica ART-1	944	This is a delicate and very fluid-sounding MC that tracks well		•	0.4	9	72
Clearaudio Signature	1,495	A great all-round performer with fine dynamic vitality and a seductive midband intimacy			0.55	11.5	175
Denon DL110	70	A fine all-rounder, this high output MC model is likely to perform well			1.0	6	48
Denon DL160	90	Although listeners just preferred the 110, its brother here survived lab tests and is still 'thoroughly competent'		•	0.1	6	43
Denon DL103	100	Good performance in bass and good 'life'. Is seriously let down by its spherical stylus which kills subtle detail		•	0.1	6	103
Denon DL304	200	Uncoloured, detailed, tracks superbly. Top notch altogether and a bargain too					103
Dynavector Karat 17D2 mk2	449	Clean and controlled sound with taut, tuneful bass. Detailed and musically cogent			0.15	5.3	158
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	175
Dynavector XX-1L	998	Very clear, very detailed; a response lift around 20kHz seems to do no harm		•	0.25	12	84
Dynavector XX-1	998	Good, but not immensely competitive at the price, and not helped by comparison with the low output version		•	2.0	12	84
Goldring Elan	19	A lightweight and frisky-sounding MM apparently based on Nagaoka MM4 body			• 5.0	7	67
Goldring 1012GX	79	Slightly harsh but plenty of life and detail. Some high frequency colouration apparent			• 6.5	7	85
Goldring 1022GX	99	As with 1012, a touch harsh; detail and transient purity improved			• 6.5	7	85
Goldring Eroica LX	110	Not the most subtle cartridge in the world: can sound edgy at times, but lively and informative		•	0.5	8	84

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CADTDIDA	GEG	S (CONTINUED)	Ri	PLACE,	ME STYL	FACTSE UTPUT MA (US (MV)	ACK NUN	SUE NUME MBER
		Comment		"M	MC .	V V	(9)	SER .
Goldring 1042	120	Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively though		•		6.5	6	
Goldring Elite	220	The basics are right, and it will cheerfully tackle any source material, but its sound has a certain dirtiness			•	0.5	8	10
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	1
Grado Prestige Gold	150	Rich sounding with an unusually refined top-end for a moving magnet-type cartridge		•		• 4	6	1
Grado Reference	995	Loads of tracking headroom but treble is limited. A prospect for mid-oriented valve amp users		•		1.7	6.5	i
Linn K9	125	Linn improved this model by beefing up the Basik's bodywork and adding a super stylus		•		4.5	5	
London Decca Maroon	259	Now manufactured under the London brand name, this Decca cartridge is as iconoclastic as ever		•		5.0	6	
London Decca S Gold	339	Immediate and detailed, but coloured, nonlinear with a questionable effect on records		•		5.0	6	
Lyra Lydian	649	Superbly capable all-round musical performer that improves markedly when its body cover is removed			•	0.3	7	
Lyra Clavis Da Capo	995	A stable tracker, and one of the finest cartridges we've heard			•	0.1	7	
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	
Ortofon 510/P	38	For the price, a good blend of virtues – weight, clarity and neutrality				• 3.0	5	
Ortofon 520/P	65	Sensitive to load capacitance, the 520/P has a lively, effervescent sound		•		• 3.0	5	
Ortofon MC3 Turbo	130	The 3 Turbo is bright, cheerful and bouncy, but unsubtle — take it as it comes			•	3.3	4	
Ortofon MC15 Super II	130	A good all-rounder, with outstanding resolution, if slightly bright and close up			•	0.35	7	
Ortofon MC25E	180	An excellent upgrade for a mid-price turntable			•	0.5	11	
Ortofon MC25FL	249	A bit too stark and honest, but faithful to what's on the LP			•	0.5	11	
Ortofon MC30 Supreme	525	Highly detailed and even-sounding cartridge that has a special affinity with female vocal recordings			•	0.5	10.7	
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	
Ortofon MC3000II	1,100	A real eye-opener. Nothing to criticise anywhere, one of the very best			•	0.12	10	
Ortofon MC5000	1,500	Limited tracking ability, bright and forward sound, but good stereo			•	0.12	10	
Rega Bias	39	Difficult to mount in some arms due to its shallow build, the Bias offers a gentle, refined sound		•	7	• 5	4	
Rega Elys	85	Clearly superior to the Bias, the Elys is more detailed, accurate and convincing		•		5.0	5	
Roksan Corus Black	130	Recognisably related to the Corus Blue, but smoother and more civilised		•		6.5	5	
van den Hul MM-1	250	If woody midrange could be tamed, imaging and security would pull it through		•		5.5	6	
van den Hul DDT-II	600	Outstanding stereo imaging and neutral balance are appealing, but rhythmically the DDT-II is a bit lazy			•	0.35	7.6	
van den Hul MC-10	799	A neutral, balanced performer, gives fine depth and focus and a firm, extended bass			•	0.4	6	
van den Hul MC-One	900	This extended all the positive qualities of the 10, but added greater authority and scale — worth all the extra money			•	0.4	6	
van den Hul MC-Two	1,200	MC-Two rewards with a highly detailed yet fluid and musically convincing portrayal			•	0.4	6	
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	
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	
Wilson benesch Matrix	786	Extraordinarily well balanced cartridge: neutral and detailed yet lively and rhythmically assertive			•	0.58	6	
Wilson benesch Carbon	1,572	Carbon fibre body contributes to a delightfully clean and open midrange, and a quick, lively and coherent sound		100	•	0.45	7	



Cassette Decks

he compact cassette is still the world's most versatile and Twin decks offer the option to dub tapes and play two cassettes ubiquitous music storage medium. Buffs may wrinkle their noses, but they all use it.

There should be no problems in connecting a cassette deck to any normal amplifier, but some care needs to be taken in choosing the best tapes for a specific machine. (Trial and error is one effective technique, but many decks have manual bias adjustment and some match up to the tape automatically.) sequentially. Autoreverse is a useful feature, but usually implies some mechanical compromise. Useful facilities include tape monitor switching and Dolby S.



DOLBY C: A rather extreme noise-reduction system not usually associated with high sound quality.

DOLBY S: A desirable derivative of the Dolby SR professional noise-reduction system.

DOLBY HX-PRO: System designed by B&O to extend headroom

for cassette recording

3-HEAD: If you want to monitor a recording while you are making it, a third head is essential.

TWIN DECK: Contains two decks for dubbing and continuous

play. In most instances only one deck will record.

AUTOREVERSE: Automatically plays both sides of the cassette AUTO CALIBRATION: The deck will automatically set up bias and

EQ for any tape.

ADJUSTABLE BIAS: Bias can be manually set to suit the tape being used.

FACTS BACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information nage

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CASSETTE DECKS

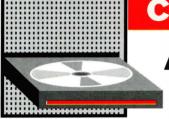
	CASSETTI	E DE	CKS	DOLBY C DOLBY	Y HX PRO	TWIN HE	AUTO CALIBRI TOREVERSE	FACTSBACK STABLE BIAS	SUE NUME NUM	9ER
	Product	Price(£)	Comments	V	No.	V	VV	VV	V	V
B	Aiwa AD-F450	120	Basic but well-designed budget deck, astonishing value; only the poor metering gives the game away	•				•	1513	136
B	Aiwa AD-WX727	170	High-class twin for those who want bells, whistles - and music	•		•			1377	146
B	Denon DRM-550	160	There are some technical limitations, but this remains a fine sounding deck, and excellent value	•		•				158
	Denon DRW-580	200	Twin deck: OK for casual use, but will quickly pall with more quality critical applications	•		•	• •	•		171
B	Denon DRS-640	200	Draw-loading deck, with simple facilities and smooth, well-adjusted sound			•	•	•	1591	140
4	Denon DRM-650S	230	An all-round improvement on predecessors, offers a wide-ranging, disciplined sound. Dolby S is not the best feat	ure •	•	•				164
	Denon DRM-740	270	Breathed-on DRM-710, with good external treatment, offers good, if somewhat detached sonics	•		•	•	•	1514	136
	Denon DRS-810	310	Draw-loading deck, carefully designed yet lacking in subtlety on audition	•						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	•		• •		•		164
B	JVC TD-R472	200	Excellent auto-reverse deck which doesn't suffer the usual disadvantages and is very sharply priced					•		158
4	JVC TD-V562BK	220	Ultra-sophisticated transport at a silly price; sound quality is stable but slightly opaque	•				•		123
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 though not earth-shattering performa	ance		•	• •	•		171



CACCETTE BECKS (ESNINUES)



	Product	Price(£)	Comments	V	V	V	$\mathbf{\nabla}$	V	▼	\mathbf{V}	V	
R	Kenwood KX-W6080	200	Modestly decent sounding twin deck, with some transport instability and ragged bass. The features list is also strong	•		•		•	•		•	171
	NAD 613	230	Rough and ready, but enjoyable sound, though marred by mechanical motor noise	•		•					•	158
	NAD 616	300	Primitive twin deck with basic features. No Dolby setting memory, transports are too unstable for serious quality first use.			•		•	•			171
A	Onkyo K-611	460	Cute drawer loading mini-size component with 3-heads and dual capstan transport	•		•				•	138	4 146
A	Pioneer CT-S550S	250	Great features, good with cheap low bias tapes, but slightly synthetic sound quality	•	•	•	•			•		164
	Pioneer CT-W806DR	300	Had it not been for the iffy transport quality, this ultra-sophisticated twin would have been recommended.	•		•		•	•	•		171
A	Pioneer CT-S830S	500	High-class mechanism, if lacking in battleship externals, and superb sound	•	•	•				•	• 138	5 146
4	Sony TC-KE600S	300	Mild setting-up problems notwithstanding, this UK-tweaked design has a smooth, open and un-cassette-like sound	•	•	•	•			•	•	158
4	Technics RS-AZ6	230	For those who can't afford the RS-AZ7; exquisite clarity over the widest bandwidth thanks to AZ thin-film head	•		•	•			•		164
4	Technics RS-AZ7	300	Thin-film head gives a solid, almost CD-like bass and midrange. A clear advance in the state-of-the-art	•						•	•	158
A	Yamaha KX-490	199	Electrifyingly transparent and capable deck whose only flaw is a trace of audible wow and flutter	•		•				•	•	158
A	Yamaha KX-580SE	250	Subtle, engaging and transparent sounding deck, with a lightweight tonality, but good stability and strong detail	•	•	•				•	•	171



Players brought to you in association with

II CD players offer a basic selection of facilities, and some can keep you entertained for hours as you programme in disc names and track orders. All but the excessively inexpensive feature remote control. Most CD players can be upgraded by adding an outboard DAC (see below). To do this the player needs a digital output of either electrical or optical persuasion; sonically the former is preferable. A CD player can be split into two basic components: the disc drive or

transport, and a device which turns the digital bitstream coming off the disc into an analogue audio signal. This is called a digital to analogue convertor, or DAC. Although most players are contained in a single box, expensive players are usually two-box affairs



ELECTRICAL DIGITAL OUTPUT: For electrical connection to an

AES/EBU ELEC DIG OUTPUT: Balanced digital output to be used with similarly equipped DACs.

OPTICAL DIGITAL OUTPUT: For optical connection to an outboard

AT&T OPT DIG OUTPUT: High-speed optical output to be ly equipped DACs

BAL ANALOGUE OUTPUT: Balanced analogue output for amplifiers equipped with balanced inputs.

HEADPHONE SOCKET: For can users. VARIABLE OUTPUT: Remotely adjustable, volume

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

Bitstream, MB - multibit, Hyb - hybrid of multibit and bit-

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CD PLAYERS



65 51 4V-	-	(CONTINUED)	DIE DIGI	TAI DIG OUT	PHONE SPEED	MULTI DACK N	SSUE NUI MBER	10.
THE RESIDENCE OF COLUMN TWO COLUMNS ASSESSMENT OF THE PARTY OF THE PAR	The second second	(CONTINUED)	רוום מידי	TOUT OFFU	PUTOCKET		MBER	W,
lission Cyrus dAD3Q	898	Lucid, transparent and uncontrived sound quality, superb build, and readily upgradeable				MB		
Ionrio Privilege	995	Costly and well-engineered, but ultimately rather heavy-handed and dull, if refined player	•			MB		-
lusical Fidelity E60	299	This entry-level player lacks proper stereo localisation and clarity	•	•		BS		
lusical Fidelity A2	499	Warm (too warm), attractive and open player, a great improvement on (related) E60	•	•		BS		
lusical Fidelity FCD	1,500	A forward disposition makes this perfect for Fenders but less appropriate to Guarneris	•		•	BS		
lyryad MC100	700	A little extra get-up-and-go wouldn't go amiss, but its sheer maturity and composure ensure listenability	•			BS	1889	
AD 510	200	Pale version of NAD's senior CD players with a stripped down feature count				1bit		
AD 512	250	Simple, well-focused presentation, and articulate with it, though hard-nosed quality is not everyone's cup of tea	•			1bit		
AD 514	370	Boisterous sound, but undeniably attractive				BS	1639	
aim Audio CD3	1,000	The idiosyncratically packaged CD3 is solid and highly articulate. Always has its feet on the ground though				MB	1765	
aim Audio CD2	2,000	Provides bags of detail with a solid stereo focus but not all the romanticism we know to be possible				MB	1890	
nkyo DX-7210	260	Well-bred CD player features an unusual digital filter, is smooth and cultured without appearing grey or boring	•	•	The second second	BS	1273	
nkyo DX-7510	400	Strongly flavoured, assertive sound	•	•		BS	1640	
relle CD-100EA	649	Excellent imagery, timing and transparency, and readily upgraded or reconfigured	•	• •		MB		
hilips CD-721	130	Surprisingly well-sorted, articulate if slightly glossy and attractively presented sound. Captive signal lead				1bit		
hilips CD751	150	Inconsistent and occasionally opaque and scrawny sounding cheapie	•	B - B -	B B B	1bit		
ioneer PD-204	150	Generally easy on the ear, but can bite back, especially with complex high-frequency music content. Well endowed				• 1bit		
ioneer PD-S705	300	A dichotomy, this machine was loved by some for its articulacy and disliked by others for sounding too impressive!	•	•		The second second	1891	
ioneer PD-S904	400	Too much legato – literally – in sound, but a very smooth performer	•	•			1641	
ioneer PD-S505 Precision uad 77	460	Assured, fluid-sounding player, with great spatial coherence	•			b 1bit	1000	
oksan DP3P	900	A true thoroughbred combining a penetrating insight into detail with poise rarely found at the price				Hyb	Section 1	
oksan Caspian	1,495	Dramatic and compelling, classical listeners should be ready to 'air conduct' when auditioning this player	•			BS	1896	
otel RCD-970BX	895 375	Solid, articulate, and fundamentally well-engineered player, but with some subtle low-level limitations	•			Hyb	1007	,
herwood CD-4030R	180	A combination of solid build, useful facilities and an attention grabbing sound make this a winner	•			BS	1897	
herwood CD1	1,100	Easy on the ear, smooth-sounding player, with limits set by the slightly soft, compressed quality – and messy facial	•	•		BS BS	1899	
ony CDP-XE510	180	A very neutral, even handed sounding player with a rather flat, lifeless sound. Beautiful construction Souped up CDP-XE500 which tells a rather bland and unengaging story					1033	
ony CDP-XE900E	300	Refined and analytical disc scavenging tool, but there are some distinctive colourations making auditioning vital				• 1bit		
ony CDP-X3000S	500	Shoebox format player, with looks to die for, and switchable digital filters to tweak the already excellent sound	•			BS		
eac 3450SE	200	For once a budget player where the gadgets take second place to respectable, budget amplifier-friendly sonics				lbit		
ac CD-5	350	Bright, breezy and up-beat — but short in the trouser department	•		The second second	BS BS	1643	
ac VRDS-7	599	Although bold and outgoing, this player can sound both intrusive yet lacking in fine detail	•			BS	1769	
ac VRDS-10SE	850	Superbly built and presented, but rather leaden bass, with an over-prominent and not ideally refined mid/top	•	•		BS	1703	
ac VRDS-25	1,300	A solid player in all respects combining powerful sound with state-of-the-art technology	•	•		MB	1903	
echnics SL-PG480A	140	Full driving sound, but somewhat uneven in balance with a unsubtle, slightly harsh top end				• 1bit	1000	
echnics SL-PS770D	250	High tech and well built technology battleship which smoothes the rough edges off the music		•		BS BS		
ichord Genesis	549	Breathed-on Pioneer is warm and mellifluous, but ultimately lacks drive and authority.	•			• Hyb		
ichord Revelation	799	Well-ordered and clean sound that may be a little too refined for some, images well	•			1bit		
amaha CDX-390	130	Well endowed entry level unit, with inconsistent sound that can be harsh in extremis				1bit		
amaha CDX-490	170	Big, blowsy sound, is undermined by lack of precision and focus		•		• 1bit		
maha CD-X890	350	Clearly a quality product in every sense, the Yamaha provides a spacious, refined and tuneful account of the music	•	•		• BS		
TRANSPORTS				B100				ĺ
rcam Delta 250	800	Arcam's best effort yet is a new design based on Phillips CDM9 transport. Specification includes Sync Lock facility	•			-	1491	
udiolab 8000CDM	1,400	Super-slick transport and basically very honest sound, but lacking the last degree of fine detail	•					
udiomeca Kreatura SE	1,400	Superb combo for those who like the sound of valves (tested with Elixir DAC in Sessions)	•	•		MB		
udiomeca Mephisto	2,350	Tested with Trichord Pulsar, the duo provides a highly composed and tactile sound	•	•		-	1320)
inn Karik	1,850	Based on early Linn transport, the Karik is dry but very positive, detailed and engrossing	•	•		-	1323	j
leridian 500	1,245	Used with the 563 DAC, the combination is thin, brash and uncomfortable	•	•			1103	į
S Audio Lambda	2,250	With Ultralink Two, sound positively sparkles with colour and resonant detail	•	• •		- II- II- II-	1106)
oksan Attessa ATT-DP3	1,295	Not the most detailed or refined but capable of good excitement with the right material	•	•		1bit		
eac VRDS-T1	550	Superb quality engineering is mated to tidy and composed sound (tested with D-T1)	•	•		-	1325)
neta Data Basic II	2,397	Uses a Philips CDM-9 Pro mechanism and works a treat with more lively DACs	•			-	1494	
norens TCD2000	999	Lively and up-front presentation not helped by rather loose bass and splashy treble	•	•				
richord Digital Turntable	699	Very detailed, precise, controlled yet involving; a first-rank performer	•	•		-		
adia 8	3,195	Budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer	•		•	-	1495	j
DACS								
rcam Black Box 50	480	Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades				Hyb	1506	
rcam Black Box 500	750	Sophisticated unit with sync lock and discrete DAC				BS	1519	,
udio Note DAC1	675	Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer				MB		
udiolab 8000DAC	900	Basically very honest sound, but lacking the last degree of fine detail				BS		
udiomeca Elixir	799	DAC was tested with Kreatura SE — see above				BS	-	
inn Numerik	1,500	A new 20-bit DAC and revised Karik transport have cleaned up; but sounds a bit dry and humourless				-	1323	
S Audio UltraLink 2 HDCD	2,590	With Lambda transport, the sound positively sparkles with colour and resonant detail				MB	-	
S Audio Reference Link	4,550	Consolidates reputation of PS Audio for high performance digital electronics			•	MB	1069	ł
oksan Attessa ATT-DA2/DS5	200	Not the most detailed or refined but capable of good excitement with the right material				1bit		-
eac D-T1	500	Teamed with VRDS-T1 for test, this superb quality unit is tidy and composed				BS	1325	j
eac D-700	600	With P-700, the D-700 may lack the resolution, but is bubbly and entertaining				MB		
horens TDA 2000	700	Lively and up-front presentation not helped by rather loose bass and splashy treble		Street Street		BS		



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Digital Recorders

igital recorders come in a variety of different guises, but have vet to make much of an impact on the domestic market. At present there are three types to choose from: DAT (digital audio tape), MD (MiniDisc), and CD-R (CD Recordable). MD's claim to fame is its optical disc format, which offers instant track access and can't be worn out like a tape. DAT has been on the market for quite some time now, but has never really 'made it' as a consumer medium due to the dearth of pre-recorded material. However it has begun to carve itself a

niche in the top end of the market, replacing reel-to-reel as the audiophile's tape based medium. Home CD-R is coming into its own with Pioneer's PD-R05 machine attempting to set a trend.



KEY

FORMAT: Type of recorder, see above for description DAC TYPE: Digital to analogue convertor: BS - Philips Bitstream, MB - multibit, Hyb - hybrid of multibit and bitstream technologies, 1bit - single bit types such as MASH, bitstream, PWM etc

ADC TYPE: Analogue to digital convertor types as per DACs. PORTARI F. Can be run off batteries but not necessarily personal OPTICAL IN/OUTPUTS: Digital socketry for optical cable.

ELECTRICAL IN/OUTPUTS: Digital socketry for electrical cable FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents nage to find the Factsback information page.

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

DIGITAL RECORDERS

DIGITAL	RECO	ORDERS	FORMAT	ADC)	PTICAL PORT	CTRICA IN/OU	FACTSE. IN/OUTPUTS	ACK NOTPUTS	SSUE NUMBER
Product	Price(₤)	Comments	STATE OF A	V	V	V		W	AA
Pioneer PDR-04	700	Scaled down version of the 05 with auto level setting but all the socketry and features you need to make your own CDs	CD-R	BS	BS		•	•	171
Pioneer D-05	900	Second generation 96kHz DAT recorder can offer startling realism with the right software - ie first generation	DAT	BS	BS		•	•	1652 152
Pioneer PDR-05	1,000	CD recorder that uses domestic blanks only (limited to 74 minutes), write once but excellent sound quality	CD-R	BS	BS		•	•	1652 152
Pioneer D-C88	2,000	State-of-the-art portable 96kHz DAT recorder, the size of a lap-top computer this Nagra country on the cheap	DAT	BS	BS	•	•	•	1431 150



Brought to you in association with **Headphones** 7 ENNHEISE

here are a variety of different approaches to headphone design. Among the more expensive models, electrostatic drivers are used in open-backed phones. Most models feature dynamic (moving coil) drivers in circular, open or closed-back designs. The advantage of open backs seems to be a correspondingly open sound, but one can also hear external noise, of course. Closed-back designs are useful in situations where it is necessary to block out noise.

There are three styles of headphone: circumaural models enclose the ear; supra-aural designs feature a flat pad which presses on the outer ear; and intra-aurals (in-ear) rest inside the ear illelf, à la personal stereos. For best results a separate headphone amplifier is recommended.



KEY

TYPE: Operating principle: D - dynamic, E - electrostetic. SUPRA-AURAL: Style where a flat pad presses on the outer ear CIRCUMAURAL: Style which encloses the ear OPEN BACK: Offers an open sound but lets in noise

CLOSED BACK: Keeps out external noise. WEIGHT (G). Mass in grams IMPEDANCE (Q): Load offered to the headphone amplifier. All else being equal, the lower the impedance the louder the sound for a given

amplifier output 3.5MM JACK ADAPTOR: Can be used with mini-jack-equipped components such as personal stereos. FACTSBACK NUMBER: The Factsback reference for

ordering a fax copy of the review. Use the contents page to find the Factsback information page ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

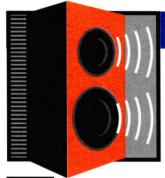
HEADP	HON	ES	SUPRA-A TYPE	GCUMAUR,	CLOSED EN BACK	3.5mm IMPEL WEIGHT	JACK ANCE(S)	SBACK I	ISSUE NUI NUMBER	MBER
Product	Price	(£) Comments				MA				V
AKG K1000	700	One of the best dynamics on the market, hooks directly into speaker outputs	D			2	0 12	0		99
Audio Technica ATH91	OPRO 90	The closed back 910s are an improvement on the 909s, with a nice rhythmic quality rarely found with headphones	D	•		• 2	80 4)		55
Beyer DT100	152	Rugged, modular professional design, but bass is woolly and treble lacks detail	D	•		• 3	0 60	0		157
Beyer DT311	57	Uncharacteristically tight, unrefined sound quality from this otherwise well engineered 'phone	D	•	•	12	4 40	•	1098	133
Beyer DT331	82	Tonally bright and deficient in bass, but exceptionally comfortable, articulate, detailed and refined	D	•		2	0 4	0	1801	157
Beyer DT411	69	A reasonable but not very thrilling headphone that doesn't really offer enough at the price	D	•	•	12	0 25	0		111
Beyer DT511	117	Superb midband clairy and speed slightly at odds with soft bass. High tingle factor even so	D		•	20	0 25	0		172
Beyer DT531	135	A good buy for serious, heavy-duty music making	D		•	2	5 25	0		144
Beyer DT911	235	Probably too revealing for many headphone amps, these are very subtle and fine, if expensive cans	D	•	•	2	5 25	0		111
Denon AH-D550	80	A competent 'phone with integrity, but little panache or charisma. Hard headband causes brain strain	D	•		• 20	0 35	•	1801	157
Denon AH-D750	130	Loud and gutsy, meaty bass, good with rock and dance. Can sound thick and clumsy	D	•		• 25	0 30	•		172
Grado SR-40	45	Cheap and nasty appearance largely redeemed by cheerful, up-beat sound. Very comfortable	D	•	•	12	0 32			172
Grado SR-80	100	Clear, open and dynamic with pedantically open mid-band. Crude physical design, rough frequency extremes	D	•	•	6	0 8	•	1801	157
Grado SR-225	200	Warn, darkly-coloured tonally and ultimately lacking in clarity, but true to the spirit of the music if not the letter	D	•	•	20	0 32)	1883	163
Jecklin Float Model	79	While very unusual in appearance, the Floats give remarkable sound quality and openness at a reasonable price	D			4	00 20	0		55
Jecklin Float Model 2	99	Helmet shaped, but open sounding and comfortable in the long term, despite lack of adjustment	D		•	41	0 20	0		63
JVC HA-D910	65	Broadly acceptable if unexciting design with low level losses and some colourations	D	•		• 22	0 32			121
JVC- HA-W60	49	Remarkably lack of interference and hiss makes adequate sound seem even better than it is	D	•		• 16	5 1/1	R •		172
Kenwood KH-1000	20	First step-up from a true mini: a near miniature which is cheap, comfortable and inoffensive	D	•	•	3	32	2		121
Maxell HP-3000	30	Solid, smooth-sounding supra-aural headphone, but congested and undynamic. Includes in-lead controls	D	•	•	12	0 32		1099	133
Precide Ergo Model 2	2 140	Still has much of the spaciousness and detachment of the Float from which it is derived, but has a coarse mid/top	D		•	38	0 10	0	1892	163
Philips SBC 3396	70	Remarkably airy for closed-back designs. Fine tonal balance, punchy delivery. Amazing for money	D			• 25	5 32			172
Philips SBC HP900	90	Sharper, snappier midrange than 3396 initially impressive but blows the balance and listenability	D	•		• 20	0 32	•		172
Ross RDH-300CD	17	In-lead controls are the highlights of this shoddy, sometimes aggressive-sounding design	D	•		• 15	5 8	•		133
Sennheiser IS 380	55	As close as you'll get to real hi-fi with IR phones at this price. Inevitable hiss spoils the illusion	D	•		• 19	2 I/F	•		172
Sennheiser HD 455	55	Inoffensive, if nondescript sound, modular, but can become dislodged from head	D	•	•	18	5 60	•	1801	157
Sennheiser HD 475	80	Elegant, uncluttered sound and very comfortable but lean bass saps satisfaction	D	•	•	12	0 60	•		172
Sennheiser HD 545	125	Fine all rounder that takes all styles of music in its stride. Ear-clamping headband	D		•	25	5 15	0		172

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HEADPHO	N	ES (CONTINUED)	SUPRA. TVPE	RCUMA TURAL	OPEN B	OSEO B	MEIGHT.	M JAC. DANCE	CTSBAL K ADA (Q)	CK NUA	SUE NUMER	B _{ER}
Product P	rice(£) Comments			M	V.	VAL		45	V	V	M
Sennheiser HD 565 Ovation	150	Wide bandwidth design which is refined, expressive and extremely comfortable	D		•	•	2	55	150	•	1801	157
Sennheiser HE 60/HEV70/UK	998	Very nearly a superb electrostatic, with an achingly pure midband, but top end is sibilant and edgy	E		•	•	2	60	n/a		1898	163
Sony MDR-CD770	100	Neutrality and comfort make the Sony easy to live with. Technically correct-sounding too, yet musically unrewarding	D		•		•	-	-	•	1801	157
Sony MDR-CD1700	199	Astonishingly detailed, uncoloured and free of the usual artefacts from a sealed back headphone. Tremendous value	D		•		• 3	25	32	•	1901	163
Sony MDR-F1	100	Natural, easy-going sound teamed with great looks and comfort. Shame about the lightweight bass	D	E.	•	•	3	00	12	•		172
Technics RP-DJ1200	130	Functional design with head-pulping bass and muggy tonal balance. Good job they're sweat-proof	D	•			• 2	30	32	•		172
Stax Lambda Nova Basic	449	Refined, articulate, yet with real presence — and a notable bargain by electrostatic standards	E		•	•	3	47	n/a		1902	163
Technics RP-HT700	70	Well-finished but physically crass and grubby sounding	D		•	•	2	55	- 1	•	1801	157
Vivanco IR5800	50	Consistently musical and easy going. Doesn't reach for sonic heights so hiss is less bothersome	D	•		1/2	2	26	I/R	•		172
Vivanco SR650	50	Unusually comfortable 'phone with excellent detail resolution but aggressive, thanks to tweeter resonance	D	•		•	1	75	-	•	1801	157
Vivanco SR750	60	Cossetting physical design, attractive sound an pricing, though suffers overhang and lacks ultimate dynamics	D			•	1	88	-	•	1801	157
Vivanco IR7100	120	Infra-red phones that work well but suffer from the limitations of the medium ie compression and hiss (Sessions)	D	•		•	2	65	-			149
Vivanco Cyberwave FMH3000	80	The only cordless headphone that offer genuine walkabout freedom. But it sounds like a cheap FM tuner	D	•			• 2	10	FM	•		172

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Hi-Fi Loudspeakers

s the last item in the hi-fi chain, the loudspeaker is merely the

slave of what has gone before; it is only as good as the signal

it is fed. Nevertheless, the distortions introduced by

The average loudspeaker consists of an enclosure plus a couple of drive

units behind a removable grille. Inside the box lurks a simple electrical circuit known as a crossover, which divides the incoming (full range)

signal into the right bits for the drivers to handle. The designer's primary

association with task is to balance the 'sensitivity' of the loudspeaker (how loud it goes

Brought to you in

for a given electrical input) against the bass extension (how low it goes). for the given box size Subwoofers augment the bass and come in passive and amplified active

form. They are less sensitive to placement than regular speakers.



KEY

SIZE WXHxD (cm): Width by height by depth in centimetres FLOORSTANDER: As opposed to requiring a dedicated stand. SENSITIVITY (dB/W): Efficiency: how much volume you get for a given input; the higher the louder.

IMPEDANCE (Ω): Measured in Ohms impedance it is a measure of how hard a loudspeaker is to drive: the lower the number the more powerful the amplifier needs to be.

loudspeakers (and rooms) tend to be the most obvious

FREE SPACE: Speakers should be placed away from walls CLOSE TO WALL: It is recommended that these speakers be BASS FROM (Hz): The lowest frequency that a speaker can placed close (between 3 and 12cm) to the rear wall

reproduce, based on in-room measurements.

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HI-FI LOUDSPEAKERS

		EAKERS SIZE WAS	FLOORSTANDE,		BASS EDANGE W	_	FREE SE	ACTSBA SE TO V PACE		SUE NUI MBER
	rice(£)	Comments			24	×				
Acoustic Energy AE109	350	Lots of mass-loaded twin-driver speaker for the money, especially for loud, driving bass	18,90,25	•	88	4	25	•		1904
Acoustic Energy AE120	500	Attractive presentation and good sonic headroom, but a heavy, uneven overall balance, and a difficult amp load too	18,98,28	•	89	4	25	•		
Acoustic Precision Eikos FR1	800	Lightweight single cone design with state-of-the-art midrange resolution, speed and imaging (Statements)	17.4,25,28		86	8	65		•	
NTC SCM20	1,599	Massively built, invariably informative but the rather forward presentation can be uncomfortable	24,44,31		83	8	28		•	
Audio Gem Emerald	540	Pretty compact floorstander with lively if lightweight sound	18,94,21	•	87	6	40	•		1905
Audio Note AN-J/D	930	Light damping and local unevenness add some colouration, but don't spoil the speaker	38,58,25		93	8	25		•	
Audio Note AN-E/D	1,520	Coherent, dynamic and transparent, with extended bass and high sensitivity - but ugly!	36,84,28	•	94	8	20		•	
Audio Physic Tempo	1,999	Tall and unusually-styled floorstander has stunning stereo but suspect bass tuning	22,107,47	•	88	8	28	•	•	1344
AVI Positron	900	Suited to smaller rooms, this 'mini-floorstander' is capable of great precision and delicacy, but in a rather small scale way	17.5,25,7784	•	85	6	40	•		
B&W DM302	150	Highly competent and neutral all rounder; clever Prism enclosure	19,32,22		88	4	45		•	177
B&W DM601	200	Great main driver for the price, entertaining dynamics	20.5,35.5,23		88	6	30	•		177
3&W DM602	300	Prefers tall stands and space, but offers impressive midband dynamics and musical tension	24,49,31		90	8	30		•	165
3&W 305	350	Ridged paper cone gives lively sound, clever box, but a little uneven	22,87,31	•	89	4	40	•		190
B&W 603	500	Squat floorstander with decent dynamics and well-judged, restrained balance; bass could go deeper	23.5,88,29	•	89	7	45	•		
B&W P4	675	Strikes a nice balance between all-out studio monitor sound and bass-filled crowd pleaser (tested in Sessions)	20,81,25.6	•	88	8	50	•		
B&W CDM1	600	Gorgeous stand-mount delivers unusually good bass for its size	22,38,28		88	6	30	•		181
B&W CDM7	1.000	A combination of serious welly and physical elegance, a basic lack of midband smoothness rather let the side down	22,97,29	•	90	4	22	•		
B&W Matrix 805 V	1.095	Stylish, remarkable imaging, good balance and low colouration	33,33,21		87	8	30		•	
B&W Matrix 804	1,695	A great all-rounder which combines exceptional bass extension with fine sensitivity	26,96,26	•	88	4	20	•		
B&W Matrix 801S3	3,995	Lacks transparency and the drama of the best dynamics, but acoustically a tour de force	44,100,56	•	87	8	20		•	
B&W Nautilus	35,000	Radical design results in one of the finest loudspeakers available. Active x-over needs 4 power amps (Statements)	42,105,90	•	87	4	10	•		
Cadence ES	3,500	Hybrid electrostatic/dynamic design from India that excels with classical material (Statements)	33,108,37	•	91	8	35	•		179
Castle Isis	250	A great miniature at a very competitive price. Sound is lightweight but very coherent, with a fine overall balance	17, 35.5,21		87	8	45		•	
Castle Severn 2	580	Carbon fibre cone gives lovely, subtle midband but treble is a bit dull and bass a bit thumpy; lovely cabinetwork	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	•		190
Castle Harlech	880	Handsome big-sounding floorstander, great value and dynamic midrange	20,96,33	•	88	8	28	•		182
Castle Howard S2	1,200	Ably fills the gap between Chester and Winchester; has a rich, laid-back balance	26,104,41	•	90	8	40	•		107
Celestion A1	899	Rich, warm and laid-back, but a true quality sound; lovely build	24,41,35		88	6	25	•		191
Cerwin-Vega VS10	350	Not all that refined but ballsy as heck, these rock boxes have no shortage of gung-ho	33,70,29	•	95	6	37	•		175
Chario Syntar 100	250	Pretty with a pleasantly easygoing balance, but not the most communicative or exciting sound around	18,32,27		87	6	45	•		
Dali 104B	370	Lively, rich sounding and communicative. Shame about bland styling and dull balance	22,86,27	•	-	4	28	•		165
Dali 606	400	A big bruiser at a tempting price, Dali's 'no-frills' 606 sounds refined and polite, but also packs some punch	Section 1	•	200	4	25	•		
Dynaudio Applause 50	577	This compact stand-mount doesn't look big, but sound quality can match many models at twice the price	20,33,25	100	86	4	30		100	100

	HI-FI LOUI	DSF	PEAKERS (CONTINUED)	FLOORSTAND	ER WA	EDANC.	(2)	FREE (HZ)	OSE TO SPACE	ACK NUM WALL	BER
		rice(£)	Comments		V	V	V	V	V	ACK NUM WALL	V
	Dynaudio Contour 1.8	1,842	Wonderful voice-band delicacy and loads of deep bass from a very elegant and compact box	21,95,29	•	85	4	20	•		
	Electrofluidics Sonolith 2.2xi		Polymer concrete cabinet with aluminium cones produces world class imaging and very serious bass (Statements)	38,95,42.5	•	-	-	n/a			
	Epos ES12	500	High quality luxury stand-mount has great midband and stereo imaging	20,38,25		85	-	45	•		1823
	Epos ES14	675	Substantial stand-mount delivers delightful midrange focus and delicacy with good bass control	23,49,29		87	8	25	•		102
	Epos ES22	1,185		21,88,25	•	-	6	58	•	i i	162
			Elegant floorstander with 'safe' balance that can be enlivened with the right cable and energetic material (Sessions)			-	-	-	100	100	
	Epos ES25	1,655	Handsome floorstander with a rather uneven and bass heavy balance	24,90,35	•	0.00	-	22	•		134
	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	200	40		•	
	GLL Imagio IC130	500	Lots of speaker for the money, but sound is decidedly dull and shut in	22,112,29	•	88	4	20	•		182
	Harbeth BBC LS3/5A	699	Still a classic miniature, though not to every taste, and none the better for the recent update	19,30,18		82	10	80	•		
	Heybrook Prima	159	Fine pace and timing, but balance is forward and bass is tight	20,29,18		87	6	50		•	
	Heybrook Heylette	269	Attractive traditional-style near-miniature has fine bass-to-mid integrity, but dull and shut-in top end	19.5,30,20		89	6	45	•		
	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	•		165
	Heybrook Quartet	649	Solidly large bookshelf model with good sensitivity and a lively, forward sound	24,41,22		90	-	48	•		
	Heybrook Ultima	650	Has the bass wallop to justify its dual hi-fi/home cinema roles, but didn't get our listeners particularly excited	22,97,29	•	-	500	45	•		
		- 13				-	-	1000	1000		
	Heybrook Sextet	1,299	Coherent and highly analytical, partly due to distinct upper-mid forwardness	27,90,20	•	88	8	25	•		1 40
	Infinity Reference 1i	150	Although not to our tastes, this is a competent speaker, and decent material value	20,34,20		89	6	50	•	50	140
	lamo BX100A	350	A cracking output for their size, these rock boxes can be a bit bright but have decent bass	31.5,54,28		91	8	40	•	T- 10	175
	lamo 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	-	28	•	B	165
	Jamo 477A	500	Very prettily styled, but build and sound quality are disappointing at the price	19,77,28	•	88	1000	40	•		154
	Jamo 507A	700	Exceptionally imaginative styling keeps the front view super slim yet still packs a punch. Glass top is a neat extra touch	22,94,37	•	88	3	40	•		
	lamo Concert 8	1,300	Employing a die cast magnesium cone with a charming open and detailed midband (Statements)	24.5,38,31		90	4	38	•		182
	BL LX2	250	Lively and invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm	22,40,27		87	8	40			
Ť	BL L20	700	Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative	26,42,28		86	-	30	•		155
ŝ	BL SVA1500	700	A distictive Pro-style bi-radial horn tweeter, and the sound is quite a lot of fun, enlivened (?) by a juicy bass thump	17.5,51,31		86	1000	40	•		100
ì	BL L40	1,000	Classic, large, stand-mount 3-way is full of vim and vigour, with a superb sense of balance	30,65,31		88	-	23	•		
٠	BL L90	100			•	100	107	23	•		124
		1,500	A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude	24,94,35	•	100	6	2000		District Division	134
i	ordan Watts JH 400	565	Piano-finish hexagon has controversial sound, with uneven balance but delightful mid	28,38,21		86	1000	50		•	
	PW Mini Monitor	60	Ultra-cheap miniature works well in a limited way	18,27,17.5		86	100	50		No.	178
ļ	PW Gold Monitor	80	More informative than Mini Monitor - but fiercer too	18,27,17.5		86	-	50		•	178
	PW ML510	140	Lots of good-quality speaker for the price, but not an ideal match for cheap budget components	20,34,22		88	5	50	•		
	PW 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	•		
	IPW Ruby 1	400	Very pretty but pricey luxury metal-cone miniature has good, if slightly edgy balance	19,32,21		87	6	55	•		157
J	PW Ruby 4	1,000	Twin metal-cone main drivers improve the dynamic performance and bass extension, with little sacrifice in focus precision	22,94,26	•	88	8	25	•		
è	(EF Coda 7	130	Lovely open voice reproduction, but bass could be tauter; build tougher	18,30,23		88	6	50		•	178
	(EF Coda 8	190	Outstandingly well-balanced, bass is deep but a little vague	20,32.5,29		86	-	28		E-	178
	KEF Coda 9	300	Uneven budget 3-way floorstander with poor bass definition	20,86,28	•	-	-	30	•	200	178
	KEF RDM One	500		-		88	100	70		•	1/0
		-	Cute and tiny, nice midband but lack of bass warmth and weight	23,30,24		-	- Contract	1000			-
	KEF Reference Model 2	1,599	Classy, large floorstander that has massive headroom and clean mid-to-treble, but limited deep bass for size	23,103,34	•	-	-	100	•		
	Kelly KT3	1,200	Super high sensitivity, this hefty floorstander sacrifices smoothness to dynamic realism - to very good effect	25,95,36	•	150	4	28			
	Keswick Audio Aria II	379	Confident and dynamic sound, if a little crude and shut in	21,42,24		89	8	20	•		140
	Keswick Audio Torino	999	Good value, lively contender with distinctive shape and styling. Goes loud and deep but could be smoother	18-26, 93,28	•	90	4	20	•		
	Linn Keilidh Passive	750	Stunning timing and coherence, and awesome bass drive	20,83,28	•	87	4	22		•	155
I	Linn Kaber Passive	2,000	Dry, bright balance emphasises dynamics and transients, but can sound unforgiving	20,90,28	•	87	4	25		•	
	Living Voice Airscout	19,500	· · · · · · · · · · · · · · · · · · ·	The state of the s	•	11	-	60	•		
i		37,200			200	-	-	200			
	Market Committee		Outstanding transparency and dynamics from remarkably solid and fast mega horn	64,160,90	•	1987	80.	40		•	100
÷	Meridian DSP6000	9,400	Sophisticated digital design, with a wide-ranging, refined and detailed sound. Has on-board amplification	28,133,43	•	-	-	35	•	500	122
÷	Mission 731 PRO	140	Cautious balance makes a fine match with budget equipment. A classy baby for smaller rooms	17.5,31.5,20		89	-	55		•	
	Mission 733i	330	New tweeter gives this floorstander a more open sound; a good all-rounder that doesn't sound as big as it looks	20.5,88,30	•	88	8	45	•		
	Aission 752 Freedom	580	A beautifully judged compromise in the art of combining presentation with a decent sound, and a lively midband	20,90,25	•	89	8	45	•		
١	Aission 753 Freedom	798	Great styling. New, more restrained tweeter reveals fine midband dynamics	21,90,31		89	4	40			
١	Mission 754 Freedom 5	1,298	Tall but exceptionally elegant floorstander gives fine midband projection; goes loud but limited deep bass for size	22,111,31	•	88	4	40	•		
١	Monitor Audio Monitor 3	400	An exceptionally discreet floorstander; sonically uneven, it's capable of fine results if used in a sympathetic system	16,91,21	•	88	5	30		•	
١	Monitor Audio MA700 PMC	600	Good-looking luxury compact with all-metal diaphragms, lovely midrange, but occasionally edgy	22,35,26		89	8	45	•	-	166
Ė	Monitor Audio 702PMC	700	A good all-round stand-mount with that intimate midband focus which seems the preserve of metal cone main driver			87	8	30	•		100
	Monitor Audio MA703 PMC	800	Lovely but pricey floorstander has up-front, coherent 'shiny' sound	STATE OF THE PARTY		100	-	-	Balan .		100
Ė		Contract of the Contract of th		20,89,27	•	88	8	50	•	-	182
÷	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	•		8	28	•	-	134
i	lordaunt-Short MS10i	140	Up front, bouncy and a whole lot of fun	18.5,30.5,20		86	8	50		•	178
	lordaunt-Short MS30i	275	Slightly shut-in and coloured quality is compensated by fine bass and impressive communication	25,43,28		90	8	28		1	166
V	lordaunt-Short Perf 860	1,895	Although a very neutral loudspeaker it can, with the right ancillaries, pack a serious punch (Statements)	26,86,35	•	90	6	35	•	1	136
١	lusical Technology Kestrel SE	300	Brighter and drier-sounding than the standard Kestrel (and not the better for it)	20,84,19	•	84	5	50	•		
١	Ausical Technology Condor	1,000	Lots of clever ideas in a compact floorstander, which places transparency and smoothness ahead of dynamic drama	25,91,23	•	85	4	28	•		
Í	Musical Technology Harrier	400	Very pretty package, good measured performance and even sound. Sensitivity is low, and dynamics limp	25,80,23	•	86	8	25	•		166
	laim Intro	660	Great dynamic range and info retrieval, but thin, lacks warmth			-	100	-	-		UU
	laim SBL Passive	-		24,89,27	•	89	6	30	•		
		1,970	Lively and punchy — smoother but more upfront than before	27,89,27	•	88	6	25		• 1	
	leat Mystique	575	Elegant compact floorstander has good all-round sound and value	20,85,18	•	84	8	25	•	100	82
	leat Petite II	745	Compact design now utilising ribbon tweeter with a fine sense of timing and surprising musicality (tested in Sessions)	20,30,18		86	8	33		•	
	leat Petite II/Gravitas	2,000	Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound	23,105,40	•	85	6	25	•		
1	HT SuperOne	358	A fine compromise between size and performance, though sensitivity and loudness capability is modest	18.5,29.5,23		85	8	30	•		
)	rigin Live Conqueror	1,650	Chunky floorstanding 3-way has lovely cabinetwork and lively sound, but limited deep bass	24,94,27	•	88	8	30	•		
	ink Triangle Ventrical	999	If you are after Quad Electrostatic-type transparency but can't afford the price (Sessions)	15,80,32		86	11		•		

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roduct	Price(£)	PEAKERS (CONTINUED)	FLOORSTANDE		BASS DANCE	$\overline{}$	1	ACTSBACK A PSE TO WAL	ISSUE NU YUMBER
MC TB1	410	Superb transparency, subtle laid-back sound, well worth seeking out	20,40,31		87	8	45	•	1830
MC LB1	935	Delightful smoothness and transparency, though bass and treble are both limited	18,53,25		89	4	33	•	1000
MC AB1	1,496	Lovely panel-like transparency, slightly shut-in balance, needs a big room	26,79,43		89	6	22	•	
olk LS50	800	No enthusiast tweaks here, but powerful and beautiful balance	27,83,29	•	89	8	25	•	1155
olk RT16	800	Bass rich, lively and powerful, but suspect top end; big and not very pretty	22,105,39	•	91	4	22	•	1831
olk LS70	1,200	High sensitivity, but balance has too much midbass boom; mid-top is laid back	31,94,37	•	90	8	22	•	1084
roac Response 2.5	2,700	For aspirant high-enders looking for seriously good conventional boxes, this speaker should be first port of call	22,107,25	•	86	8	30	•	1457
LN Qubic 222	400	Ugly but good value floorstander with loads of bass and a smooth balance	21,87,29	•	88	6	25	•	1832
LN Signature	1,000	Attractive pyramidal stand-mount with heavy, laid- back balance but remarkably unboxy sound; superb stereo	27,37,36	•	83	4	25	•	
uad ESL-63	3,450	Classic electrostatic lacks punch, but has strengths some can't live without	66,93,27	•	86	8	34	•	
ega Kyte	198	Has splendid timing and coherence, sounds very explicit and informative	19,31,19		87	8	50	•	
ega EL8	298	Kyle drivers in compact floorstander gives more bass but less coherence	17,72,20	•	86	8	55	•	-
ega 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
ega XEL	1,040	Looks and sounds great: balance bright but even, with delightful coherence and timing	20,82,30	•	89	6	40	•	1083
ehdeko RK 115a	1,700	Single-driver system has limited bandwidth and obvious coloration, but wondrous dynamic and temporal coherence	34,42,27		95	8	55	•	-
evolver Beretta	100	Great bass for the price, a bit crude further up	19,35,22		87	8	45		-
evolver Colt	139	A good all-rounder, if a little bland, and excellent value for money	30,19,22		88	6	48	•	140
levolver 250	250	A nice price for a floorstander, but over-bright sound balance has potentially fatiguing consequences	21,85.5,25	•	87	8	22	•	
levolver 260	350	A no-nonsense presenter of rock with plenty of dynamics, not too refined (tested in Sessions)	21.5,91.6,30	•	89	6	40	•	173
MS Revelation Series 1	1,300	Innovative metal-box compact with integral port/stand — clean with good timing but very laid-back balance	20,99,24	•	81	8	22	•	
logers LS1	149	High grade miniature	20,20,30		87	6		•	140
ogers dB101	250	Style par excellence, this shapely sub-miniature is fast and agile but lightweight and forward: great voices; lacks bass	20,26,20		88	6	45	•	
logers Studio 3	499	Pricey LS3/5A derived miniature, excitingly coherent if lightweight, can't go loud	19,30,16		85	8	30	•	
logers LS3/5A	699	Clever AB1 stand/subwoofer helps the classic 3/5A monitor give its best shot	19,31,17	•	82	12	45	•	135
ogers Studio 5	699	Luxury finish bookshelf-size model has genuine monitoring capabilities	25,25,48		89	8	40	•	155
ogers Studio 7	899	Latest variation on classic BBC-monitor theme has beautifully voiced, laid-back sound	30,63,30		90	8	30	•	
ogers C6/28	1,399	Large floorstander with carbon-fibre tweeter. Sounds much better than it looks, especially through the midband	25,103,29	•	88	6	20	•	
oksan ROKone	595	Large stand-mount is musically very communicative if a little coloured	21,45,33		89	6	30		183
oksan Ojan 3 Black	795	Squat, stylish and black, great bass extension and somewhat uneven balance	28,76,46	•	88	8	20	•	108
oksan OJ3X Black	995	Innovative low-line, 2-way floorstander with decoupled tweeter; great bass and fine dynamic range	28,79,46	•	84	8	20	•	
oyd Minstrel	275	Not much wellie or loudness but fine coherence and timing, a bit bright	18,69,12		86	8	30	•	116
oyd Doublet	485	Great value compact floorstander; lively and very informative, if a little uneven	18,93,19	•	90	4	28	•	183
oyd The Sorcerer	595	Extremely musical and communicative speaker that's fun to listen to. Aesthetics could use improving though	20,31,18		86	8	35	•	
oyd Abbot	695	Dynamic and fine transient qualities are hampered by a rather coloured mid-forward balance	20,81,30	•	90	8	43	•	
tuark Sceptre	600	Graceful 'traditional' cabinetwork with classy veneer and shiny gilt fixings, hampered by a rather wayward sound balance	21,38,31		87	8	40	•	
uark Talisman II	749	Less ideologically committed than some, strength lies in fine all-round coherence	23,84,32	•	88	8	30	•	
luark Crusader	1,600	Elegant luxury 3-way with wonderfully even-handed, if rather laid-back balance	24,94,31	•	85	6	22	•	
luark Equinox	1,849	The primary strength of this speaker is its ability to remove itself from the picture	25,88,34	•	88	6	45	•	122
D Acoustics SD3R	649	New SD3 has the agility and charm of a quality miniature, good bass and low sensitivity	20,38,30		87	8	25	•	
D Acoustics SD5	1,549	Bass suspect but forward midband is delightfully smooth. Has ribbon tweeter	20,110,30	•	88	8	30	•	108
D Acoustics SD1E	2,995	Two-part design with four rear firing bass drivers that has vibrancy, transparency and energy (Statements)	25,120,40	•	90	6	25	•	
equence 400	330	Clever hang-on-wall panel is well voiced, though bass isn't too great	25,100,7		86	8	45	•	
hahinian Arc	1,875	Occasionally wonderful small floorstanding omni; bright but coherent and revealing	35,69,25		88	6	24	•	100
ilverado Raider	695	Beautifully built audiophile compact, neutral if bright, tough work for amps	20,40,25		83	3	30	•)
onus Faber Concerto	1,098	Beautiful Italian bookshelf design with superb midrange but limited loudness capabilities (Statements)	22.5,36,34		87	8	45		
pendor 2020	399	<u>Utilising an</u> oval drive unit in a stylish cabinet, this is a neutral design with AV inclinations (tested in Sessions)	18,34,26		87	8		•	175
pendor 2030	599	Discreet slimline floorstander with delicately coherent, laid-back sound	18,89,27	•	87	8	30	•	183
angent Monitor 5	80	An uneven performer best suited to small rooms and generous volume levels	17.5,27,18		83	8	55	•	
angent Monitor 9	150	Budget floorstander that can motor when the music demands with a solid bass but occasionally raw treble	19.5,75.5,22.5	•	90	6	45	•	100
annoy 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	•	
annoy Mercury M3	230	Good-looking fine value floorstander is very neutral and evenhanded, with fine midband but weak dynamics and drive		•	87	7	20		
annoy D300	1,000	Gorgeous-looking compact floorstander. And a fine all-round performer too	16-24,85,23	•	87	6	26	•	10-
annoy D500	1,999	Plenty of muscle and stereo, but short of poise and delicacy. Hard work for amps	31,93,34	•	91	6	20	•	135
annoy Westminster TW	6,600	These awesome horn-loaded speakers are remarkably controlled and impressive	large	•	99	8	38		-
DL RTL2	280	Spacious, weighty and enveloping sound if you can accept the laid-back balance	20,73,22	_	87	8	25	•	141
DL RTL3	400	Bargain-price floorstander has rich, heavy and bright sound with a good scale	20,90,37	•	90	8	25	•	
DL 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 capabilities	20,91,39	•	89	6	22	•	
DL T-Line 3	700	Plenty of bass and treble, but broad midband is rather repressed	20,97,38	•	Section .	8	20	•	
DL Studio 1m	899	Transmission line helps bring the best from metal cone driver	23,77,34		86	8	20	•	141
echnics SB-M20	200	Well-balanced with natural perspectives and fine midband coherence, but bass is a bit boxy and uneven	20,32,23		70	8	50	•	141
echnics SB-M500	450	This model offers a clean, open sound, offset by midbass, heavy balance and low sensitivity	25,78,37	•	-	-	25	•	166
otem Model One	1,195	Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size	17,31,23		87	4	28	•	
/andersteen 2Ce	1,395	Elegant staggered baffle contributes to a refreshing freedom from boxiness	41,101,27	•	-	7	23	•	-
Wharfedale Diamond 7.2	140	A good-hearted, lively and up-front performer that's a little lacking in subtlety and smoothness	19,29.5,23		88	4	45	•	
Vharfedale Valdus 400	199	Goes very loud with a minimum of amplification, but the sound is ve y thick and uneven, with a heavy upper bass	25,80,26	•	91	8	30	•	141
Wharfedale Valdus 500	299	Offering a large version of events these rock boxes can move plenty of air, albeit not as subtly as alternatives	25,108,26.5 22,89,28	•	91 87	8	40	•	175



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HIELLOUDSPEAKERS (CONTINUED)

HI-LI FO	UDSF	EARERS (CONTINUED)	O(CM)	ER WA	W) 061.	3)"	(HZ) "	ACE WAL	MBER	MBER
Product	Price(£)	Comments		V	V	V	V	VA		V
Wilson benesch ACT1	6,400	Stylish, technically advanced and sonically as clean as a whistle, this is truly a high-end loudspeaker (Statements)	23,108, 37	•	89	6	40	•	1852	162
ZYP AI	199	Cute metal cased micro-miniature is quite coloured but great fun	14,22,12		88	8	30	•		110
SUBWOOFERS										
B&W AS6	500	Good material value with a fair amount of low bass from 100W active design	45,51,45.5	•			30		1736	154
Celestion CS135	139	Compact hideaway passive sub lacks deep bass for high sensitivity speakers	52,19,34	•	86	8	45	•		128
Jamo SW600	530	Has some neat styling touches and remote control but deep bass is limited (active)	38,41,53	•			30		1736	154
KEF Model 30B	500	Commendably discreet with good sense of timing but limited extension (active)	38.5,37,43	•			45		1736	154
KEF AV1	2,500	Works well, looks great, shakes the windows but costs a lot and is bulky	56,43,50	•			45			128
Living Voice RW24	11,500	The only horn subwoofer on the UK market brings new meaning to low frequency energy, speed and resolution	146,84,59	•	104	8	40	•		163
M&K VX-7B	450	Baby of a big range this active design delivers deep, plenteous bass albeit lacking in transparency	35,25,37	•			40		1736	154
Rogers AB1	549	Subwoofer-cum-stand designed as partner for LS3/5a or similar miniatures	19,57,16	•	82	8		•	1354	143



Stands & Supports

i-fi fumiture is more important than you might imagine. The effect it can have on the sound of your system is far from subtle. Hi-fi furniture can be split up into two categories equipment supports and loudspeaker stands.

It is not entirely clear what makes a great equipment support, but some are definitely more equal than others. There's a variety of approaches and materials used, including particle board, glass and all manner of steel tube and section.

Speaker stands come in a variety of sizes and styles to suit different models. Use dealer or manufacturer recommendations to narrow down the choice, but as a rule you want the tweeter at ear height.



KEY

HEIGHT (CM): Height of stand or equipment shelf. TOP PLATE SIZE (CM): Dimensions of top plate on speaker stand

or equipment support.

FILLABLE: Some speaker stands can be filled with sand and/or

lead to increase mass, which affects sound. WELDED: The better stands and supports are welded rather than

NUMBER OF SHELVES: The amount of tiers on an equipment

SHELF TYPE: Material that shelves are made of on an equipment rack. Wood generally means MDF.

FACTSBACK NUMBER: The Factsback reference for ordering a fax

copy of the review. Use the contents page to find the Factsback

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

STANDS & SUPPORTS

STANDS &	S	UPPORTS "	PLATE SIZE	NUI CM)	MBER OF WELDE	SHELV	SBACK NU SELF TYPE	SSUE NUM UMBER
Product Pr Equipment Supports	rice(£) Comments			V			
Audiophile Furniture Base	480	Easy to set up, well-ordered sound	40	200			Woo	d 1633
	270	Glass-shelved stand with octagonal wooden uprights with upward facing spikes isolating the top shelf, adjustable shelf height	81	46,37			Glas	s i
Fi-Rax R4	250	Lively, exuberant sound, slightly weak bass					- Contract	s 1633
Frameworks H500/H175	404	Two-shelf stand and isolation platform combo in tubular steel that made a spectacular impression on audition	70	52,34			Glas	S
Mana Acoustics Ref. Table	350	King of its type, angle iron, chipboard and glass combined to make a significant difference to sound quality					Glas	S
Mana 5 Tier Sound Table	600	Infinitely upgradeable. Persuasive and thrilling glass and angle iron design that adds speed and bandwidth to components upon	t				Glas	s 1633
Opt mum Int 2000 OPT490	350	25kg stand with shelves sandwiched between variable height tubular uprights. Sounds smooth and relaxed with sturdy bass	50	60,40		-	Glas	S
Quadraspire Q4	200	Easy to live with, and tonally neutral					MDF	1633
Sound Organisation Z038	130	Too lively and lacking order – but cheap	50	84,40			Woo	d 1633
Sound Organisation 2560	150	A mix of welded and bolted members gives good structural integrity. While performance is not up with the best, it's great value	90	46,36			Woo	d
Soundstyle Select 6105	280	Respectable sonics, structurally solid and smart					Glas	s 1633
Soundstyle Finewoods W105	320	Veneered shelves clamped between tubular uprights that delivers with classical material	82	48,27		-	Woo	d
Stands Unique Sound Tower	249	Wooden uprights combine with glass shelves to provide a fresh, forward sound, but bass could be quicker	81	72,42			Glas	s 1633
Target B5	175	Free of colorations, fine grip and good value					Woo	d 1633
Speaker Stands					200	- 1200		
Alphason NC I	45	Filled single-column design without threaded spike holes that's appropriate for non-critical applications	40-60	16,16	•			1373
Alphason NCII	80	Tall, slim and elegant, though sound and value are unexceptional	40-60	17,17	•			
Alphason Titan	120	Excels in the midband and allows voices to come across in a detailed an d expressive fashion	40-60	16,16	•	•		1373
Apollo AZ6	80	Fine engineering value, but sound unexceptional and top-plate small	66	15,13				101
Atacama BD21	55	Good-looking and good value but doesn't match the SE24's sound quality	56	15,17	•			
Atacama SE24	70	Stands out from the budget crowd because of the consistency and overall quality of the performance	61	19.5,17				1373
AVF Tower 400	35	Ridiculously cheap and much better than no stand at all	54	17,20	•			
Ixos Deadrock 903	50	Smooth and tonally even but short on definition. Deep bass is soft which doesn't help timing	60					1373
Gale Reference 600	60	Smooth sounding with impressive bass well suited to less civilised speakers						1373
Kudos S50	100	Better sound than the budget stands, particularly at the bottom end	60	15,21	•			
Kudos S100	270	The best all-round stand around Probably	63	15,21	•			
Mana Soundframes	125	For use under floorstanders and equipment racks, these make music effortless and natural, can be stacked for greater effect	5					1373
Partington New Merlin	60	Although light in weight, the stand's performance seemed remarkably muscular but musical rendering lacked a little precision						1373
Partington Discovery	80	The depth and substance of the presentation truly added to the convincing nature of the system's portrayal						1373
Partington Trophy	100	Four-column design with damped top and base plates, sound is tight and cogent with smoothly integrated detail				•		1373
Revolver RS1	70	A good blend of performance and appearance for the price	53	18,18	•			
RMS/Stands Unique Vivus	550	Pricey carbon fibres give ultra-clean sound with exceptional voices	50	N/A				
Soundstyle 124	100	Big, shiny and solid, with fine midband projection	65	17,16	•			
Stands Unique HP	220	Real wood disguises high performance tuned technology	59	22,23				
Target R1	280	Truly high-mass four-pillar design with superb weight and speed, giving music delicious attack and outstanding imagery	53	15,21	•			1373
Target TR60	68	Lively, dynamic midrange and detailed treble from a less-than audiophile oriented twin column design	60	15,15		100		1373

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Tonearms

umtables at the cheaper end of the market tend to be supplied with a matching tonearm, and often include a 'starter' cartridge. Still better quality is found at higher prices among the separate motor units and tonearms. Careful partnering and set-up is essential for these components

Although the turntable is the most important part of a record player, the tonearm is the second most important, and the quality of

its construction and design have a significant bearing on sound quality. There are three basic types of arms listed in the key and each has its strengths, but pivoted designs are the most popular, for reasons both practical and economical.



EFFECTIVE MASS: This relates to cartridge compliance. Generally high mass arms are suitable for low compliance cartridges and

PARALLEL TRACKING: An arm which allows the cartridge to

track the disc in a linear fashion.

PIVOTED: Arms which allow the cartridge to describe an arc as they traverse the record.

UNI-PIVOT: Pivoted arms with a bearing that allows movement in

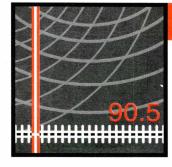
two planes.

EFFECTIVE LENGTH (cm): Length of arm from bearing to cartridge mounting.

ADJUSTABLE HEIGHT: Important for accurate cartridge set-up.

FACTSBACK NUMBER: The reference for ordering a fax copy of the review. Use the contents page to find the Factsback. ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

EFECTIVE LOUISTABLE (SSUE NUMBER UNI-PROTITION) EIGHT MER PIVOTEO PROTITION PARALLEL TRACKING UNIX EFFECTIVE MASS **TONEARMS** Alphason HR100S 490 S-shaped arm sounds smooth, but nevertheless reproduces transients with fine attack Medium . 229 . 86 4 Kuzma Stogi Ref 1,000 Large, solid and well-made arm, gives exceptionally clear sound with just a hint of brightness • 79 High Linn Ekos 4 1,297 Superb, state-of-the-art design which builds significantly on predecessor's strengths Medium . 229 . 6 4 Moth Arm 95 The ultimate budget arm? Refined, sweet, detailed and natural Low 4 Rega RB300 139 Despite its modest price it sets exceptional standards and could be used on many high-end turntables 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 91 Inw . 240 . 4 SME Series 300-309 657 Beautifully made and finished: fully adjustable and a highly neutral performer Low . 238 . 79 A **SME** Series IV 936 Superb engineering and finish with a finely balanced sound, impressive stereo focus and low coloration Low . 233 . 60 **SME Series V** 1.391 Excellent in all respects, this arm arguably sets the standards for pivoted arms, regardless of price Low 233 60



Tuners

he radio medium operates at a lower profile than TV, but in areas outside pop music the BBC service is the envy of the world. Live concerts rival all other sources from a hi-fi perspective. Though tuners might seem something of a hi-fi afterthought, the task they discharge is far from simple, since it requires the skills of RF (reception) and audio (signal processing) engineering. The importance of the former will depend on reception conditions, but a high-quality aerial system is

well worth having. Tuners come in two basic types. Analogue models tune gradually and can have analogue or digital displays; they are often preferred for sound quality. Digital tuners offer convenient automatic tune facilities and pre-set memories.



WAVEBANDS: Only the FM (VHF) bands give stereo hi-fi sound though AM (MW & LW) are useful for receiving certain transmissions in the UK.

PRESETS: Number of station frequencies that can be stored RDS: (radio data system) was originally designed for in-car

applications. Basically RDS tuners can identify and display the name of the radio station being received, but they offer a variety of other features as well.

REMOTE CONTROL: Couch-potato friendly

SIGNAL STRENGTH METER: Indicates strength of signal from

aerial, useful for aligning your 'twig' during installation ROTARY TUNING KNOB: The ergonomically attractive approach to dial-surfing

FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page

to find the Factsback information page ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

Tuners			WAVEBANDS PRES	SIGNA REMO	STRENGTA TE CONTRO	AV FACTSE H TUNING H METER	TACK NUM.	UE NUMBE,	R
Product	Price(£)) Comments		∇	V		V	VALUE OF	Z
AMC T7	130	Performance adequate but price is sharp, especially with remote control. Some hum	FM, M	30				16	66
Arcam Alpha 7	230	Indifferent RF performance but a touch of audiophile sound quality with clean, strong signals	FM,M,L	24				16	6
Arcam Delta 280	399	Fine sound quality marred by mild synthesiser whine; RF performance only average. Remote £60 extra	FM	20		•		12	20
Audiolab 8000T	750	Unusual combination of fine sound quality and RF performance (inc AM), and superb ergonomics	FM,M,L	39		•		1254 14	12
Denon TU-260L	120	Careful minimalist design promises a surprisingly open and vivacious sound	FM,M,L	20				ç	93
Denon TU-425RD	200	A fine all-rounder with advanced RDS, good RF performance and decent sound. Remote extra	FM, M	40	•			16	66
Harman/Kardon TU950	200	Bulky but effective, delivering fine RF performance and good sound for the price	FM,M,L	30	•		•	16	66
Linn Kremlin	2,600	Controversially good sound at a very high price. The reviewer's saving up but you should check it out for yourself	FM	80		•		1254 14	42
Magnum Dynalab FT101	825	Although fairly expensive given its minimum set of facilities, its excellent sound provided ample compensation	FM						72
Micromega Tuner	700	Has digital output but even without the Micromega DAC, this provides exceptional sound quality. Looks good too	FM	39		•		1810 15	57
Mission Cyrus FM7	400	Open, generous soundstaging gives the music plenty of foundation, if a touch shut-in at the top	FM	29		•	•	1254 14	12
Musical Fidelity E50	300	Sounds involving if coloured and with a subjectively larger-than-life presentation	FM	20				1810 15	57
Naim NAT01	1,645	There may be better sounding tuners in the world, but we have yet to hear one	FM			17		1254 14	42
Pioneer F-504RDS	250	Cable-friendly with advanced RDS and excellent RF performance, slightly disappointing sound	FM,M	40	•	•	•	16	66
Rotel RT-935AX	160	Good ergonomics and sound quality at a realistic price, but limited features and RF selectivity	FM,M	20				16	66
Sony ST-SA3ES	250	Clean, lean presentation but needs a quality aerial to perform at its best	FM,M,L	30	•	•	•	1810 1	57
Technics ST-GT350L	150	Decent RF performance is offset by sound quality more typical of a mini/midi system	FM,M,L	30			•	1254 14	42
Thorens TRT2000	450	Not exactly neutral sounding, it nonetheless makes listening fun	FM,M	59		•	•	1810 15	57

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Turntables

pecialist turntables are what high fidelity sound is all about. CD players may offer silent backgrounds and flat frequency responses, but they can't match the dynamics and superlative timing that serious turntable users take for granted. Turntables at the cheaper end of the market tend to be supplied with a matching tonearm, and often include a 'starter' cartridge. Still better quality is found at higher prices among the separate motor units

and tonearms. Careful partnering and set-up is essential for these components, but many so-called 'sympathetic' combinations exist.

Because turntables are mechanical devices that are designed to retrieve modulations as small as a micron, engineering quality is of paramount importance. It is also the reason why turntables cost as much as they do, and require high quality support systems.



KEY

MANUAL: You do it all: put the needle on the record and take it off. AUTO: The record player does it all. SEMI-AUTO: You share the work: you put it on, it takes it off. SPEEDS: In RPM to correspond with your platters.

SUSPENDED SUBCHASSIS: Sprung suspension to minimise

structural interference.

EXTERNAL PSU: Outboard power supply; generally it indicates high quality.

SUPPLIED WITH ARM: Many turntables require a separate arm to be fitted; if not, this tells you so.

SUPPLIED WITH CARTRIDGE: Most turntables do not come supplied with a needle.

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TURNTAE	BLES		MANUAL	SUSPENDAL SUPPLIED SU	WITH CASTAGE WOMBER WITH CASTAGOGE WITH SASTAGOGE PSY ARM
Product	Price(£	2) Comments			
Clearaudio Reference	2,500	Opulent beast tested with Souther TQ-1 arm. Tends to gloss over detail with a fizzy character but is quite bold	•	33/45	1328 144
DNM Rota 2	4,800	Tonally slightly bleached, but extracts detail like few others. Works well on own table	•	33/45	• 1328 144
Dual 505-4 UK	200	Consistent sounding and well isolated turntable. It is slightly lacking in oomph		33/45	• • 103
Kuzma Stabi/PS	1,200	(Tested with Stogi Reference) Solid oak plinth; sound is very clear, detailed and extended	•	33/45	91
Linn LP12 Basik	1,050	Trails the full LP12 significantly, but pace, rhythm, timing etc still top rank	•	33	• 103
Linn LP12 Lingo	1,750	The classic reference is improved by the Lingo, but charming character remains	•	33/45	91
Michell Gyrodec	765	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	• 164
Notts Analogue Spacedeck/	Arm1,125	No frills, just a first-rate, outstandingly natural-sounding deck that will last forever		33/45	159
Pink Triangle Anniversary	1,980	Possibly the most detailed, clear and neutral-sounding deck around. Likeness to master tape is uncanny	•	33/45	91
Pro-ject 2	299	Remarkably effective at the price with decent timing and a generally well defined sound	0	33/45	• • 164
Pro-ject 6/Sumiko	699	Don't think of this as a mid-price deck with a good arm, but as a scaled-down Oracle Delphi — it's that good		33/45	138
Rega Planar 2	214	A remarkable product at the price, surprisingly articulate and confident		33/45	• 48
Rega Planar 3	274	The '3 sounds musical in a balanced and coherent manner, needs decent isolation and suffers a little pitch instability		33/45	• 164
Rega Planar 9	1,598	Featuring the RB900 arm and a ceramic plinth, this deck puts Rega into contention with the best decks available		33/45	• 151
Reson RS1	675	Supplied set-up and ready-tuned, this unconventional deck is packed with mid-band detail		33/45	• • 159
Rivelin Eclipse	1,100	Tested with SME 309. Tends to simplify things and add a slightly ragged edge to the proceedings		33/45	1328 144
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	4,631	Supplied with Series V arm. Engineered to last a lifetime, giving excellent stereo and detail retrieval	•	33/45/78	118
Thorens TD166 VI/UK/RB	300	Refined and solid sound with well-focused imagery; suitable for use with good MM and budget MC cartridges		33/45	• • 103
Thorens TD2001	700	Balances convenience and sound well, but deck lacks detail and bass could be better controlled		● 33/45 ●	• 159
Well Tempered Record Play	er!,800	Intriguing and challenging. Musically it is not ideal, but has a limpid quality and a lack of artificiality that sets standard	ls •	33/45	1180 136
				200 March 1980 March 1	The Book Box

Wilson-benesch T/Act 2 arm 3,249 Carbon fibre is extensively used in this neutral and well-resolved turntable with its fabulous unipivot tonearm (Statements) 33/45 • • 1775 156

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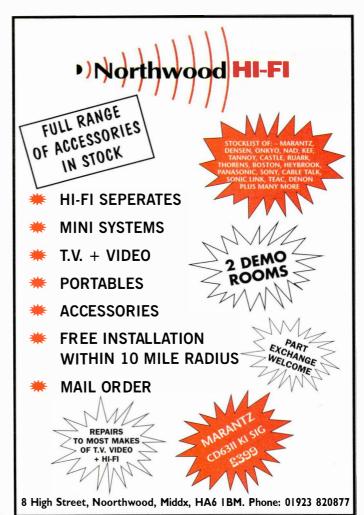
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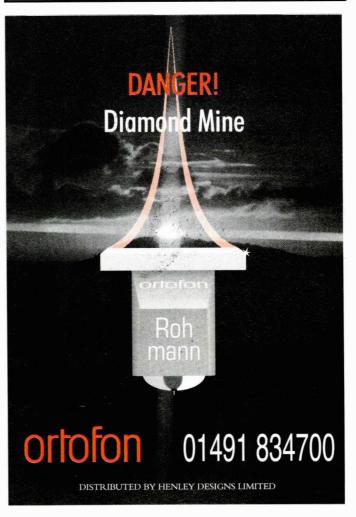
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NEXT MONTH'S ISSUE

- MID-PRICE CD PLAYERS
- **INTERCONNECT CABLES**
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STATEMENTS

After many years of cogitation, eclectic amp specialist DNM has unveiled the revised version of its legendary pre/power combination. This idiosyncratic duo is said to offer a "stunning" level of resolution — we'll put that claim to the test. Plus: Theta's latest integrated CD player, Miles. One for trumpet aficionados, no doubt!

MID-PRICED CD PLAYERS

This month's test sorted the mid-priced amplifier men from the boys — in March we'll move up a link in the chain to correspondingly-priced CD players. Among the hot new models on test are the

Arcam Alpha 8SE, Copland CDA 266, Cymbol CDP12, Myryad MCD 500, Pioneer PDS-06, Sony XA-20ES, and XTC CDP-1.



'GRAND UNIFYING THEORY' OF HI-FI

How much power do you really need to generate convincing 'concert-hall' sound at home? In a quest to shed light on this arcane topic, Paul Miller uses advanced computer techniques to investigate the interface between amps and loudspeakers.

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THE MARCH 1998 EDITION OF **HI-FI CHOICE WILL BE ON SALE THURSDAY** FEBRUARY 12, 1997. DON'T MISS IT!

Is it really worth forking out £1,300 for a single-box CD player? David Vivian thinks he's found one worthy of such an accolade.

Vivian Scene

ime to face one of the tougher, most recurrent questions in hi-fi. Is it worth handing over serious wedge for a one-box CD player? The arguments against are fairly well rehearsed. But I'll run through them anyway.

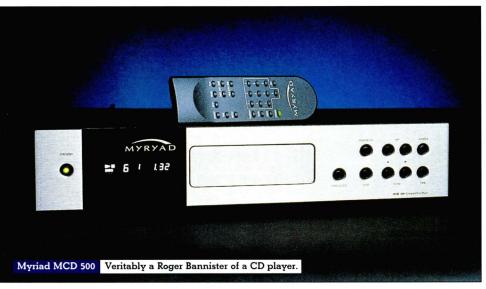
Cheap players get the latest DAC technology, but tend to be bereft of fancy circuit topology, trick power supplies and lavish build quality. No bad thing, some say. Simple is often sweetest. Indeed, you could level an accusation at makers of four-figure players, that they're merely gilding the lily, piling on unnecessary sophistication to justify an inflated price. This implies that there is nothing inherently 'better' about expensive one-box players. The march of progress rules; they can't help but be wrong-footed.

It's obvious, really. The value-for-money superstars — machines like the £450 Pioneer PD-S505 Precision and £400 Marantz CD-63II KI-Signature — are judiciously-tweaked editions of cheap players, not stripped-down versions of high-enders. The tastiest technology is to be found at the volume end of the market.

Hmmm. Smarter, surely, to splash out on a battleship transport that will last a dozen years (let's say the £900 TEAC P-700); and partner it, initially, with a modestly-priced but talented DAC such as the Musical Fidelity X-ACT, at £130. This should sound good but, more importantly, it will have the potential to sound much better as the years roll by, and you hook up more expensive or simply newer magic boxes. Reap the benefits of galloping technology by upgrading the DAC, not the whole shebang.

Fair enough, but the TEAC/MF project isn't a pretty combo. Pricey one-boxers are usually easier on the eyes, and should have the build quality and engineering integrity to hack it as a first-rate transport when time comes to spruce up their sound with a more capable DAC. Which brings us back to the original question. Just how good does a £1,300 one-box CD player sound?

Glad you asked — I've got one parked over here. The Myryad MCD 500, a development of the well-liked and respected MCD 100 at roughly twice the price, is a classic product for the man or woman who wants that little bit more and can afford it. I'm



reminded of a line from the film *Pulp Fiction*— "you'll know where that extra money went". First, as you can see, the MCD 500 is very pretty. Second, it weighs a ton, especially on the left-hand side where all the heavy-duty power supply stuff is. And third, its spec is dressed to impress.

Briefly, it claimes to have 20-bit dual-differential Delta-Sigma converters, pure-Class-A discrete output-stage circuitry, two separate toroidal transformers (one for the transport, the other for the audio electronics) and no less than 13 separate regulated supplies serving different functions within the circuit. Components for the hell of it? Apparently not. According to Myryad's Chris Evans, it's all done to keep the audio signal pure and uncorrupted by crosstalk as it passes through the player. The DAC is controlled, allegedly, by a hand-picked, high-quality, crystal-controlled master-clock, fed from its own dedicated low-noise power supply. The clock also controls the transport.

There's much more to it than that, but if I started talking about ultra-high-speed DIFET op amps and double complementary cross-coupled configurations, you'd probably nod off. I'm yawning already.

Lord of the dance?

So, £1,300 poorer, you slip your favourite CD into the MCD 500's chunky disc tray, thumb the "play" button on the ergonomically rounded (but, it has to be said, disappointingly lightweight) remote and... huh. And... mmmm. Maybe even an ironic...

nice. But let me put it this way. I'd be surprised if you ripped open your shirt and did a Michael Flatley around the sofa. Sparks don't fly, the earth doesn't move, rays of sunlight don't spear through the clouds.

If you've just been listening to a Pioneer PD-S505 Precision, as I had, the Myryad will sound a bit dull and uninvolving. What can I say? If you're a Myryad dealer, keep these two products away from each other if it's the MCD 500 you want to sell. Over 100 metres, the Pioneer murders it.

Different story if you want to run the pair over a marathon. That's how long it takes. The Myryad, you see, is a slow-blooming CD player. Sounds a bit up-tight to begin with, but the longer you listen, the more you appreciate its beauty, its sheer musicality. It has drive but it isn't all leading edge. It has soundstage depth, but it isn't exaggerated. It has speed but it doesn't sound lean. And it has warmth, but it's a rich harmonic warmth, not merely a mellow balance.

After a while you can hear what the Pioneer's up to, and suss its technique. With the Myryad it's harder. You find yourself listening more to the music and less to the mechanics of its reproduction.

I believe this is called long-term satisfaction. And, of course, if you can design a CD player which gives you that, questions of hard-nosed value and upgrading regimes aren't so pressing. If it seems a little premature to be thinking about your last CD player, take a listen to the MCD500. A long one.

Myryad (20) (265508



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