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No other UK hi-fi magazine has in-house testing, and none has access to such advanced tests across all types of equipment. That's why you can depend on Hi-Fi World reviews.

It's at times like this that you have to stop, take stock and try to remember just what it's all about. When experiencing the £15,000 Klimo Tafelrunde turntable [reviewed on p10], that is...

Here we have a vast, sculptural apparition, the size of an industrial-sized coffee table, with various exotic protrusions, all elaborately surfaced. It's visually arresting enough to divert all eyes in the room to its delightful form. It presents itself, if I may borrow a phrase from the BBC2 cultural commentators, as kinetic art. It moves apparently to perform a function, yet surely its primary function is simply to be its beautiful self?

Well okay, it's really just a fancy record player. But using this exquisite bit of kit makes you reassess what hi-fi should be in the first place. It's very, errrm, Italian, don't you know? By which I mean lavishly designed, seductively shaped and utterly appealing to one's 'hi-fi heartstrings'. Yet there are some annoying imperfections you wouldn't see on a £300 Rega. For example, the cueing lever doesn't work right, so one is forced to hand cue (not a problem for Noel and I as that's what we prefer anyway). And some of that chromium plating is really rather poor; one wonders if it will fade like an old Lancia Beta in a Scottish winter?

Yet despite its obvious imperfections, the sound it serves up is as show-stopping as the aura it radiates out into the room. If you were to own one, it's the sort of thing your friends and family would remember you by, when you were gone, like Uncle Rupert and his orange Maserati Khamsin. People would talk about the time they came to your house to see your Klimo, and how they'd never heard anything like it before or after.

The Tafelrunde is, in every sense, a seminal hi-fi product. Showy, sassy, sexy and faintly silly, owning one would surely become a vocation.

It is products such as these - glorious flaws and all - that remind us that hi-fi is more than a functional, utilitarian pursuit; it's a passion with great rewards awaiting the dedicated. And the good news is that, should you not have fifteen grand under your mattress, there are some equally special products - old and new - for a fraction of this. Hi-Fi World is as ever, your faithful guide. Enjoy!

David Price, editor
26 Gallic charm -
Micromega CD-10 CD player

37 Salisbury thrill -
Naim NAT 05 XS tuner

10 The Italian job -
Klimo Tafelrunde turntable

63 Leicester lovely -
Icon Audio LA4 preamplifier

15 Canned heat -
sub-£1,000 super test

34 Newcastle brown -
NEAT Elite SX
SUB-£1,000 HEADPHONES 15
Paul Rigby rounds up seven headphones from AKG, Audio Technica, Beyerdynamic, Denon, Grado, Sennheiser and Stax.

LOUDSPEAKERS
NEAT ELITE SX 34
David Price auditions this quirky but capable floorstander.

AMPLIFICATION
ONKYO TX-NR1007 30
Noel Keywood grapples with this high end AV receiver.

MARANTZ KI PEARL 40
David Price samples a superb affordable high end SACD player and integrated amplifier combination.

ICON AUDIO LA4 63
Noel Keywood auditions this impressive mid-price valve preamplifier.

TUNERS
NAIM NAT 05 XS 37
Tim Jarman tries Salisbury's latest FM radio receiver.

DIGITAL
MICROMEGA CD-10 26
Tom Bolton welcomes this illustrious French brand back to the UK.

FEATURES
OLDE WORLDE 70
Tim Jarman remembers Sony's classic diminutive duo, the TA88 and ST88 amplifier and tuner.

CLASSICAL GAS 72
Rafael Todes recommends some great classical music recordings.

VINYL
KLIMO TAFELRunde 10
Noel Keywood and David Price audition a breathtaking statement turntable.

VINYL NEWS 98
Paul Rigby with all the latest black plastic releases.

CLEARAUDIO CONCEPT 100
Neville Roberts samples this new user-friendly turntable package.

ORTOFON MC A90 105
Noel Keywood auditions a quirky high end moving coil.

ISOKINETIK REGA UPGRADES 109
Neville Roberts reviews an upgrade package for the evergreen Rega P3 turntable...
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"The whole auditioning process took about 30 seconds. Play a piece of music on GII Mini Sub. Play it again on Aquarius and wonder why you were so attached to the GII Mini Sub." "Very highly recommended" Hi-Fi Plus. Issue 68,
SOURCE DIRECT

Helmut Brinkmann’s new Bardo is the company’s second turntable to feature the magnetic direct drive motor, as used in the Oasis, and is inspired by the design of their top-of-the-line models Balance and LaGrange. Interestingly, the Brinkmann has a slightly different ‘take’ on the direct drive popularised by decks such as the Technics SL1200 or the SP10 broadcast variant. There is only one bearing for the motor and the platter, a circular magnet is mounted into the bearing of the platter and is concentrically driven into rotation via coils on the circuit board under the magnet. An electronic circuit drives the coils via two magnetic sensitive resistors that react to the magnetic fields into a highly constant and slow circular movement. The motor is a relatively low torque design, designed to counteract cogging effects; its motor controller transfers just enough energy to the motor for it to remain at constant speed. The motor’s stator consists of four specially designed field coils, which are mounted concentrically around the platter bearing. Based on listening sessions, Brinkmann decided to forgo the typical 90-degree mounting angle in favour of a non-standard 22.5-degree roster, which, due to the magnetic fields overlapping, further reduced cogging, the company says.

The standard Bardo sports the magnetic motor drive and platter of the Oasis turntable, with an acrylic platter top and standard small plastic housed power supply. It can also be purchased in three upgrade stages. Stage 1 features the metal cased power supply that is used for the Balance and LaGrange turntables instead of the standard power supply. The result is a more defined bass response and a wider room imaging, the company says. Upgrade stage 2 features a glass platter mat and a record clamp instead of the black acrylic platter mat that is shown in the picture. This results in a finely extended dynamic resolution. The combination of the two upgrade stages gives “nearly the bandwidth and dynamic resolution of Brinkmann’s bigger turntables”, it is claimed.

The tonearm base of the Bardo can be fixed to allow a simple and precise tonearm adjustment for all tonearms between 9” and 10.5”. Brinkmann drill the base according to the tonearm the customer chooses. The output sockets are found on the back of the turntable, and can be equipped with RCA or XLR sockets, and it is also possible to install tonearms with DIN connectors or fixed cables. The two possible speeds, 33 1/3 and 45 rpm, are selectable by a switch at the front of the turntable and can be fine adjusted via two screwdriver holes that are located next to the switch. Vital statistics are 420x320x100mm, 14.8 kg. For more details, click on www.symmetry-systems.co.uk.

NAT BEST

Serbian based NAT Audio’s SeZse is described as “hot, huge and heavy”, no less! A single-ended zero feedback Triode monoblock power amplifier, it weighs in at 34kgs and measures 300x610x260mm. Each amplifier features twin 211 new old stock Triodes which were manufactured in the 1940s. The company says this gives the SeZse, “70 Watts of the purest Class A power imaginable”.

Also on the large size (483x455x260mm, 14.9 kg) is the NAT Audio Plasma R remote controlled preamp, which is a dual mono, zero feedback valve preamp with valve rectification and ‘plasma effect’ double regulation. The Plasma features two high current 6N30P-DR triodes per channel giving a low output impedance for drivability, it is claimed. Prices are £10,114 pair for the SeZse monoblocks, £4,592 for the Plasma R. Contact Alternative Audio on +44(0)1984 624242 or click on www.nataudio.com for more details.
DISC SLIP

Late November saw the surprise announcement that Linn Products is stopping production of CD players. Since the Linn DS (Digital Streaming) products were launched a couple of years back, much of the demand for their optical disc players has disappeared, with sales of source components now being almost exclusively DS-based. The first manufacturer to announce it will give up on CDs from the start of next year, Linn will now focus on DS and of course the venerable Sondek LP12 turntable. The company foresees a move to what it calls ‘Studio Master Quality’ material, available for download from its website. “We’re bringing hi-fi to a younger generation who already are not used to handling Compact Disc”, Linn MD Gilad Tiefenbrun told Hi-Fi World. “The highly popular compressed file formats (MP3, AAC, et al.) are the McDonald’s burger of the music business, and the hi-fi industry has to make a concerted effort to wean people off these on to something better”.

The news comes soon after the BPI, representing the British recorded music industry, announced last month that 2009 had already broken last year’s record number of legally downloaded single and individual track sales. Of 117 million sales, nearly 99% were digital downloads. But there is a different market for album sales, where CD sales continue to dominate, but their share of the market is sliding, it is reported. By way of comparison, in 2006, there were 154 million album sales, of which CDs accounted for 151m, and digital for 2.7m. In 2007, with 138m sales, 131m were CDs and 6.2m were digital. In 2008, there were 137m album sales, with 123m CDs and 10.3m digital downloads. Vinyl records, cassettes and other formats accounted for around 300,000, according to the BPI. This bears out Tiefenbrun’s comment that, “when we launched, we thought there would be a minority interest in Linn DS. But CD sales are down 40%, while last year DS sales are up 40% plus; now the streaming products constitute over 30% of our entire company sales”.

THE RIGHT PROFILE

Sleek Audio’s SAI high end earphone is said to bring exchangeable wired and wireless connectivity. It sports a real Siam rosewood body that houses "the first ever 6mm custom tuned driver". Price is £70, or £160 including the wireless option. For more details, click on www.sleek-audio.eu.

TWO’S COMPANY

News comes of Denon's PMA-2010AE and DCD-2010AE "high-performance stereo combination". The DCD-2010AE SACD player is a heavyweight (1.4kg) with a precision mechanical ground construction on a triple-layer base. A newly developed Advanced S.V.H. Mechanism with low centre of gravity and anti-vibration aluminium diecast tray ensures optimal digital disc playback, the company says. It features new technologies such as Advanced AL32 Processing and high-grade 32bit/192kHz DA converters "guaranteeing the highest detail levels". The highly accurate master clock minimises jitter. In addition, there's a front USB port for connecting iPod/iPhone or USB memory and playing music files from those devices digitally. There is also a newly developed aluminium-topped remote control with all the functions needed for comfortable USB/iPod playback.

The PMA-2010AE integrated amplifier's 'Precision Direct Mechanical Ground Construction' is said to thoroughly suppress vibration thus minimising adverse influences on the output signal. The power transformer has been 'float' mounted using a variety of vibration-resistant materials and a radiator stabiliser. A chassis construction with six independent blocks and the large 27mm high-grade volume potentiometer further suppress external noise and unwanted interferences between the parts. Denon’s UHC (Ultra High Current) MOS circuitry is used, with independent preamp and output stage power supplies. For more information, call +44(0) 2890 279830 or click on www.denon.co.uk.

SILVER CRAFT

Artisan Silver Cables’ new entry-level pure silver interconnects are called Silver Star. With a claimed 85-90% of the performance of the pricier Silver Dream, the new cables cost just £99. See www.artisansilverbcales.com.

STAR QUALITY

Here’s something that may interest a number of classic loving Hi-Fi World readers. Comet’s new ‘repair service’ offers repair of electrical items, regardless of where they were purchased. With 500 engineers available six days a week, it’s a handy service to know about. The repair hotline is 08705 425 425, and it’s open seven days a week, from 8am–8pm Monday to Friday, 8am–6pm Saturday and 10am–5pm on Sunday. Comet says home call outs can be booked for larger items such as kitchen appliances, TVs and smaller items can also be brought into Comet stores to be inspected. The company says that on average white goods, such as washing machines and fridges are repaired in under six days and TVs, cameras and camcorders in under five days. Over 65% of all appliances are fixed during the first engineer visit. In-home repair service for TVs or large kitchen appliances is priced at £29.36 for a call out. At the time of the visit the fault is diagnosed and customers are advised of the cost of repair. Labour charge following call out is fixed at £44.04, plus parts. Ring 08705 425 425 to book. For all other portable faulty products, take them to your nearest Comet store. TVs under 21", VCRs, DVDs and microwaves cost £44.04 to be looked at, while all camcorders and cameras cost £92.98. There’s a minimum charge of £44.04; even if the product isn’t found to be faulty. For more details, click on www.cometto.co.uk.

www.hi-fiworld.co.uk
SMALL TALK

Neat Acoustics’ new Petite SX is the fourth generation of the diminutive standmounter, costing £1,250 per pair plus £203 for bespoke stands. In common with its larger Elite SX brother reviewed this month, the new Petite SX incorporates a staggered port-tuning design. A 32mm diameter port on the rear of the cabinet has a narrow operating band centred on 40Hz. An additional 50mm diameter port, also mounted on the rear of the cabinet, is tuned higher over a wider operating band. Usefully, for small rooms the larger ports may be closed using the supplied open-cell foam bungs. The main drive unit is the latest version of that used in Neat’s reference Ultimatum range, with a 6.5in doped paper cone, ferrite magnet assembly and vented voice coil to enable high power handling without compression. The new 25mm tweeter is a soft-fabric dome type with internal damping and a non-resonant chamber. As with all Neat loudspeakers the crossover, though simple in execution, is the result of painstaking development, the company says. It’s a three-element type utilising low-loss air-core inductors and a high-grade polypropylene capacitor. The slopes are first order (Bass/midrange) and second order (HF). All crossover components are specified within very tight tolerances in order to ensure excellent pair matching. The cabinet is precisely manufactured from selected MDF balance veneered and includes bitumen-composite damping panels. The result is a rigid, quiet inert cabinet complimenting the high quality drive units. Vital statistics are 310x200x180mm. For details see www.neat.co.uk.

RADIO ACTIVE

Teac’s new SR-3DAB is described as an elegant, feature-packed table top high-fidelity radio offering iPod and iPhone dock replay, FM/DAB/ RDS broadcast and a CD-player, all for around just £199. Housed in a wooden cabinet, with a black textured leather-effect finish, operation is simple thanks to the sleek touch controls. Despite its compact appearance the versatile SR-3DAB is full of features: it’s an iPod dock, a CD player, a DAB/FM radio, a clock with dual alarm. You can also plug in another portable audio device thanks to the auxiliary 3.5 mm stereo input (cable sold separately). It plays MP3s from a CD or by plugging in USB flash storage devices or SD cards. Complete with headphone jack, independent speaker chambers with bass reflex-port, remote control and iPod Dock adapters, the SR-2DAB can be purchased from John Lewis stores. For details of stockists contact TEAC on 0845 130 2511.

FUZZY LOGIC

Logic3’s £299 Valve 80 iPod speaker system “adds the warm tones of yesteryear to today’s digital music to deliver the ultimate in modern home entertainment”, the company says. Using vacuum valve technology, highlighted by a pulsing colourful tube at the front of the unit, the Valve80 delivers “80 Watts” of sound from any iPod or other audio device. It sports a smart stainless steel body with a mirror finish, while on top, a steel cradle dock houses the iPod, leaving the exposed valve tube which pulse with light in time to the music. The twin, wooden cabinet, bookshelf speakers have a high-gloss piano black finish. It’s available now at select retailers including John Lewis. Next, HMV, Micro Anvika and online at www.amazon.co.uk or www.logic3.com.

INSPIRATIONAL STUFF

Inspire Hi-Fi’s brand new £399 i2 turntable is “manufactured to the highest standards, and completely British made”, the company says. It’s fitted with the new Inspire 251+ tonearm, which incorporates a modified counterweight and end sub, and comes fitted with a Sumiko Oyster cartridge (although other cartridge options are available). There’s a high quality 12mm clear diamond polished acrylic platter, a “very rigid” plinth made from dense MDF which is then finished in dark and lighter grey acrylic, and a highly machined Inspire ‘Puka’ platter weight. The Inspire 3mm ‘Acrimat’ acrylic platter mat is fitted, plus a quality main bearing and subplatter assembly. For details, call +44(0)1246 568770 or visit www.inspirehifi.co.uk.

PRO PLUS

Klipsch’s new ProMedia 2.0 are described as “compact powered speakers with real musical punch”. They connect easily to Apple iPods, other MP3 players, portable audio/video devices such as televisions, CD and DVD players, as well as laptop and desktop computers. Listeners can also simultaneously feed an audio signal (via 3.5mm jacks) from a laptop or PC and an MP3 speaker to the speakers for mixed sound playback, making this system an excellent choice for both multimedia presentiations and entertainment, the company says. The ProMedia Ultra 2.0 consists of two magnetically-shielded satellite speakers, each equipped with a 15W power amplifier. Each satellite is a highly efficient two-way design that uses dual 2.5in fibre-composite cone drivers and a 1in metalised polymer tweeter. A Klipsch Micro Tractrix Horn is coupled to the tweeter. The woofers are long-throw units powered by unique neodymium motor structures. One of the satellites – the control speaker – hosts a bass level control along with the main volume, a headphone jack and auxiliary input jack for convenience. Priced at £119 per pair, the ProMedia Ultra 2.0 is available for purchase now from www.klipsch.co.uk, www.amazon.co.uk and other leading retailers. For further product/ stockist/trade info call 0845 0822454 or visit www.klipsch.co.uk.
Arm's Length

Noel Keywood and David Price step back in amazement at the formidable Klimor Labor turntable...

At the Munich High End Show earlier this year, we were drawn like moths to a flame by what must be one of the most imposing pickup arms ever, or four of them to be precise. They surrounded this Klimo turntable. Of course I pressed my business card into the hand of the exhibitor, Luca Gombi, imploring him to contact us about a review but was uncertain that such an exotic Italian creation would ever grace our pages. I was wrong. Luca contacted me shortly afterward, then flew to the UK to visit us in London. Not long after we received a large shipment of four boxes, plus a metal table frame and glass table top (Gestell) in its own wooden carriage frame. Inside the boxes, waiting to be pieced together were a Klimo Labor 'Tafelrunde' chrome two speed turntable, accompanied by a Tafelrunde TPS power supply and the extraordinary Lancellotto tonearm. As Lancelot sat at Arthur's round table, so Lancellotto accompanies the Tafelrunde here, or 'round board' in German. I'm not quite sure how we get the Italian form of Lancelot who originally appears in French literature, alongside a German round table, but as it's a folk story from past European cultures I guess it's nicely appropriate. And surely Lancellotto is an inspired choice of name for a pickup arm as visually imposing as this one.

Tafelrunde and Lancellotto together cost Euros 12,980 (£11,800 at the time of writing) and Lancellotto alone Euros 4,700 (£4,300). Tafelrunde must sit on a smooth, horizontal and vibration-free surface as it comprises three separate parts: motor, turntable and arm, the latter being linked by a rigid connecting rod. The Gestell table we received is purpose-made for this. Although a glass topped wall shelf would be a good alternative it would need to be at least 40cm deep. The Gestell table we received was 52cms deep, 75cms wide and 51cms high, the glass top being 15mm thick no less. Its feet are adjustable so the whole can be levelled. Neither the power supply nor any mains powered object like a preamplifier should go on the table, to avoid pickup of mechanical transformer vibration. We used both an Eastern Electric Minimax and Icon Audio PS3 phono preamps on our concrete
for speed adjustment, together with the same after a lot of work the turntable becomes a fully honed some work to be done before this our own measurements. So there is setup. All dimensions quoted in this figures at all and this obstructed no arm dimensions or performance equipment. 

The instructions provided be difficult to cope with without a protractor. I gave correct results on an alignment the equations suggested. This then the rod to get Lancellotto's base along the headshell using a protractor, it was angled at 22 degrees, when it was wrong. I used Stephenson's arm to set it up, and even most dealers would need to get a dealer anyone buying this extraordinary induced contra-rotating eyeballs. The build and set up process was long and quite complex, not made easier by instructions that lapsed into incomprehensible. I suspect they had been translated from Italian to English by Babelfish or similar, they had been translated from Italian being incomprehensible. I suspect this easier by instructions that lapsed into long and quite complex, not made.

The impressive Lancellotto 14inch arm, we fitted with Ortofon Cadenza Bronze MC cartridge... turntable system performed very well, our measurements show. Lancellotto has an effective length — the distance from the cartridge stylus to the arm pivot — of 350mm. That makes it 13.8 inches long no less! It is obviously larger than the 12inch SME 12. I have lived with for so long and know for its smooth sound. When properly aligned, Lancellotto will have even less tracking distortion than a 12in arm. At nearly 14inches long however, it will have high mass — this is unavoidable. At 15gms effective mass it was 1gm heavier than the magnesium 12inch SME 12.5. It means the cartridge has to move a heavier load over warps and big arms like this are not ideal partners for highly compliant cartridges. Luckily, most moving coil cartridges are not highly compliant, so tracking warps is not a problem with a heavyish arm, our measurements confirmed.

Lancellotto sits on a magnetically cushioned bearing system. No fewer than four brass counterweights are provided, two fitted and two spare, to cope with all cartridge weights. A small rear weight provides fine tracking force adjustment. Unfortunately, there is no bias force system, which is a pity. Bias is related to headshell angular offset and the low offset figure of Lancellotto demands less bias than usual, but it is still useful to have I feel, allowing MC cartridges to track higher cuts without mistracking. I had no trouble fitting an Ortofon Cadenza Bronze moving coil cartridge, which was set to 2.5gm tracking force.

Some hex key work was needed to get the arm's cueing platform height adjusted and then I found the arm lift platform was too short an arc to be able to lift the arm at the end of a side. It only worked over the first half of an LP a puzzling inability that we asked Klimo to explain. The arm can be height adjusted at its pillar base, but the headshell cannot be adjusted for cartridge azimuth (vertical).

Our Tafelrunde bearing system came pre-oiled but some had leaked out so I replenished it. The turntable bearing system sits on a PTFE disc, like Lancellotto, that sits firm on the glass table top. Putting on the two belts and threading them around the motor pulley was easy enough. Then the heavy platter is lifted on, a spindle carrier inserted in its top and a flat rubber mat placed on top. The mat had no recess to accept a disc label or stabilise dished discs, relying on the large chromed puck instead. This didn't always work however, badly dished discs still not contacting the mat around their circumference. A contoured mat is needed I feel, but this could be bought as an accessory as there are plenty of aftermarket mats available.

Tafelrunde is started by switching the power supply from Standby to On, after selecting speed. Ours span the platter properly at a steady 33rpm, but not at 45 rpm, the platter slowing down to some indeterminate speed. As the strobe light did not work either all was not well with our supply. I checked its fuses as both 33 and 45 supplies are fused the instructions seemed to suggest, but I could find only one internal fuse and that was fine. Adjusting speed whilst testing invoked a lot of relay chatter from within and I suspect the power supply failed during this procedure. Reviewers are not known for their delicate ways! But then, protection circuits must protect; this is an argument that used to swirl around solid-state amplifiers, designers getting irate about their lovely creation being returned as a charred heap, after the protection circuits had been triggered and failed. As some designers have ruefully noted though, it can be more difficult to design protection circuits than the circuits you are trying to protect I know this is true because I have to design bullet-proof, high speed protection for our test bench to protect our
REVIEW

expensive test equipment). We have to assume that when Klimo ship product all this will be sorted out and that if failure occurs it can be rectified. The power supply worked fine at 33rpm so this is how we used the turntable.

At this point you may well think asking £12k is a bit steep for the Klimo Labor turntable system, but all the issues I have brought up are easily solvable. The simple fact is that whilst Tafelrunde isn’t unique – Dr Feickert makes a similarly constructed turntable that we reviewed some months back – it is lavish in its own way and eye catching. Lancelotto is visually an extraordinary construction and it works well too. If you have the money and want an utterly unique pickup arm then it simply has no competition. It’s true Italian style, taken to a level of complexity and sophistication that is breathtaking.

SOUND QUALITY

There’s no mistaking the physical size of this Klimo combo, and nor will it leave you in any doubt as to the scale of the original recording. Just as with the similarly esoteric EAT Forte, turning to more modern programme material, and Kraftwerk’s ‘Tour de France Etape 1’, showed its massive bass drive in altogether more stark terms. A brilliant modern recording, the sinewy electronic bassline on this track is about as good as it gets, and the Tafelrunde shows why. Dizzingly powerful yet utterly unforced, this turntable’s motor seemed to be sending tree-stump pulling levels of torque to the platter, which wavered or wobbled not a jot. Real analogue bass such as these only come together when Klimo’s ‘Creole’! This is a lovely piece of mid seventies jazz-funk with the stratospheric production values you’d expect from the heyday of vinyl and indeed Joe Sample’s own perfectionist tendencies. On some turntables, my Japanese pressing of this album can sound just a tad lightweight, but here it had what people used to call “bottom”. The music assumed a physical presence that made it utterly compelling; the Moog synthesiser work was a dream, reminding me how sublime this classic musical instrument can sound. Full in texture, rich in tone and dripping with harmonics, it was undoubtedly a pleasure. The following track, ‘Chain Reaction’, showcased the deck’s rhythmic alacrity; those trumpet and saxophone refrains rasped away, brilliantly syncopated to some delicious jazz drumming and lovely feathery hi hat work that took you away on the breeze. Whilst the bass, guitar and brass was never less than raunchy and earthy in tone, the percussion had a light touch that make the track blissful to behold.

It was clear that the low compliance Ortofon Cadenzia Bronze was a great pairing for the high mass Klimo tonearm, as mastertape-like solidity and breezy rhythms such as these only come together when there’s a famous mechanical match. Allied to that massively engineered turntable, the sound was engrossing across all genres. A spot of modern pop in the shape of Neon Neon’s ‘Raquel’ showed that, massively insightful as it is, the Klimo isn’t all about analysis. This is quite a cold and clinical recording, yet the
deck didn’t seem desperate to tell me this, preferring instead to get “into” its hypnotic percussive loops and punchy sequenced bass rather than dwelling on the album’s rather steely tonality, it’s very detailed, but in a constructive, rather than a deconstructive, sense. Tonaly then, the Klimo combo is near-as-dammit neutral; it’s not warm and euphonic like a classic LP12, but neither is it quite as “cool” as an SME Model 20, for example. I’d say you should avoid cold sounding cartridges. As the overall experience may be a tad too ‘hi-fi’ for your tastes, but a nice neutral-to-warm performer like the Cadenza Bronze let the recording’s neutral-to-warm performer like the Cadenza Bronze let the recording’s nuance flood out without overly influencing things.

One thing that never ceases to amaze me is the lack of popularity of classical music on vinyl; for me it’s where black plastic really flies, in comparison to CD which sounds confined, unatmospheric and hard. The Klimo proved a brilliant partner for this genre of music, making a fantastic fist of the superb Linn Records boxed set of Handel’s ‘Messiah’ (Dunedin Consort & Players). This deck once again stepped away from the mechanics of a diamond tip wiggling its way along a vinyl groove, bringing instead a rendition you’d expect from actual live listening at the actual performance. The authority the deck displayed as its fourteen inch arm sailed across the arc of the disc was impressive, giving tremendous body to the musicians and an expansive air to the recorded acoustic that makes classical music on vinyl an almost transgressive experience at times. Once again, the Klimo communicated all the music’s pomp and grandeur, yet in such an unflustered way.

**CONCLUSION**

This is an expensive and complicated way to play vinyl LPs, and one that - without the services of an excellent dealer who’s on top of the physical set up and alignment issues will be prohibitively difficult to get going for most people. But if you’re able to get one, and get it going as the manufacturer intended, you’ll find it to be a very special thing indeed; there’s no doubt that it auditions as well as some of the best turntable packages around and looks striking too. Yet for such an expensive design there are glitches; an errant armrest, some less than ideal finishing to the chromium parts and the general finickiness of it, that will dissuade some who’ll be seeking an altogether more flawless user experience. Like every thing of beauty, and indeed most things Italian, the Klimo Tafelrunde isn’t always purely pleasureable, but once on song will have you enraptured like little else.

...and sturdy delivery boxes!

---

**MEASURED PERFORMANCE**

was quoted in the instructions. Calculating correct values using Stephenson’s equations I realigned the headshell (it’s adjustable) to 15 degrees offset angle and set 11mm overhang, minimising tracking error distortion.

The Lancellotto arm structure is well thought through and delivers low levels of resonant distortions, as well as low tracking error when adjusted correctly. Wow and flutter measured a very low 0.078% unweighted and 0.054% IEC weighted our analysis shows. It was dominated by the turntable’s basic rotational frequency of 0.55Hz (33rpm) and this lessened as the belt was tightened. Where most turntables benefit from a very slack belt this one was at 0.55Hz (33rpm) and this lessened as the belt was tightened. Where most turntables benefit from a very slack belt this one was at 8Hz, a low value moving into the centre of the warp zone centred around 5Hz. This is a compliant moving magnet cartridge however and with less compliant moving coils the value will move up a little to around 10Hz, but the Lancellotto is still inevitably of higher effective mass than shorter arms, measuring 15gms, a penalty long arms carry.

The advantage of a long arm is lower tracking error and distortion. The arm has an effective length of 350mm, against a common figure of 228mm. As delivered tracking error was severe and not correctable by moving the arm (i.e. changing arm to turntable distance). The headshell was incorrectly set to 22 degrees offset and no overhang figure of around 10%. The adjustment knob, which has a rotary encoder on it so there are no end stops, had to be turned slowly to avoid some form of protection relay kicking in and out. It was all very unusual, but the 50mHz setting worked well enough, allowing speed to be adjusted up or down.

With a lift/lower platform too short to lift the arm at the end of an LP side, and peculiar power supply behaviour, the Klimo needs details finalising. All the same, it measured well in basic behaviour and will give excellent sound quality. NK

**ARM VIBRATION**

![Graph showing arm vibration behaviour](image)

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Acceleration (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1kHz</td>
<td>0.2</td>
</tr>
<tr>
<td>0.5kHz</td>
<td>0.1</td>
</tr>
<tr>
<td>0kHz</td>
<td>0.3</td>
</tr>
</tbody>
</table>

**SPEED VARIATIONS (W&F)**

![Graph showing speed variations](image)

<table>
<thead>
<tr>
<th>Speed (rpm)</th>
<th>Error (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.3rpm</td>
<td>0.029%</td>
</tr>
<tr>
<td>31.5rpm</td>
<td>0.073%</td>
</tr>
</tbody>
</table>

**VERDICT**

A fabulous turntable tour de force with eye-catching 14 inch arm, this package delivers sonics commensurate with its stunning looks.

**KLIMO LABOR**

TAFELRUNDE + LANCELLOTTO

**Euros**

12,980

**LANCELLOTTO ARM**

**Euros**

4,700

**GESTELL TABLE**

**Euros**

1,450

Klimo

©+39 051 6926387

www.klimo.com

**FOR**

- great sound
- aesthetics
- uniqueness

**AGAINST**

- unfinished design work
- mediocre minor detailing
- poor instructions
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The most technically advanced cables in the world.
Group Test

Canned Heat

Looking to buy a new set of headphones? Paul Rigby looks for the hottest value cans amongst seven sub-£1,000 designs...

Headphones are a breed apart from all other hi-fi separates, because they're such personal items. After all, you don't have to wear loudspeakers, or strap CD players to your head! Because you can wear headphones for hours on end, physical comfort plays a big part in their suitability. Also, because they're less affected by room acoustics, music via 'cans' always sounds intrinsically different to loudspeakers, making personal taste even more of an issue.

Whilst we all know that headphones are ideal for late night listening, so as to not to disturb the family and neighbours, they can potentially offer better sound than even top monitor loudspeakers. So some people actually choose them for audiophile reasons, rather than solely for those of convenience. But the best results depend on a suitable headphone amplifier, so we decided to deploy two excellent but very different examples of the breed in the shape of ANT Audio's Amber 3T (solid-state) and the tube buffered Musical Fidelity X-Can v8P for our review. We found some phones worked dramatically better with one headphone amp than with the other.

So, given the right amplification, the scene was set for us to try a wide range of models, diverse in size, technology and price. All these were set against the humble Sennheiser PX100, which is a brilliant £30 reference open backed portable design which many readers will know and love. Read on to see how the contenders did...

| THE CONTENDERS | |
|----------------|
| **AMBER 3T** | **RSX 700** |
| **BEYERDYNAMIC** | **£160** |
| **AKG K701 Ref** | **£220** |
| **SENNHEISER HD650** | **£270** |
| **STAX SRS 2050** | **£500** |
| **AUDIO TECHNICA SOVEREIGN W1000** | **£560** |
| **DENON AH-D7000** | **£900** |
| **GRADO GS1000** | **£1,000** |

**REFERENCE SYSTEM**
- Avid Acutus/SME IV turntable
- Benz Glider cartridge
- Naim CDS CD player
- Aesthetix Calypso preamplifier
- Atacama Equinox XLPro SE support
- Sennheiser PX100 headphones
- AN'T Amber 3T headphone amplifier
- Musical Fidelity X-Can v8P headphone amplifier
GROUP TEST

BeyerDynamic RSX 700

£160

Uniquely in this group test, the RSX 700s are of a wireless type. That is, you are supplied with a headset, free of all the normal trailing wires and a 'docking station' that includes its own power supply. To get the system working, you twist and unlock one ear pad of the headset to reveal sockets for two AAA batteries. Switch on the power button on the outside of the same ear pad and select the correct wireless channel on both the docking station and headset. In this case it was the default, zero channel. You then adjust the volume, again on the outside of one of the ear pads, and you're away...

There are pros and cons to this product. Firstly, the comfort level was minimal. At 290g in weight, there is no feeling that the headset is moulding to your head and ears. In fact, the RSX 700s felt rather perched on top of my head. In addition, I did experience some initial buzzing, clicks and bleeps before the system settled down but, more seriously, I experienced a constant but subtle high pitch hiss which was masked when the music began but was present during quiet moments. That said, the RSX 700 was the most mobile system of the entire group and, with a twenty metre range, would be ideal if I had other things to do around the house while I listened to my favourite music. So they generally worked well, but weren't brilliantly built or faultless either.

SOUND QUALITY

Initial impressions were of a light, clean and open sounding headphone, but one with a relatively low gain when compared to the reference Sennheiser PX100s whilst utilising the ANT Amber 3T headphone amplifier. Comparing the two with an eighties master of Kraftwerk's 'Numbers' from 'Computer World' (EMI), the RSX 700s showed a noticeable lack of lower bass against to the PX100s, which were able to deliver an appreciable thump to the track. That said, the RSX 700s did provide superior midrange articulation and a certain lightness of touch which was appealing to the ear, if a little bright.

This brightness receded when the RSX 700s were hooked up to the Musical Fidelity X-Can v8P valve headphone amplifier. However, it didn't disappear altogether, which may be down to the RSX 700's basically well lit tonality and the Naim CD5 CD player source's rather forward presentation. The bright edge was still present when playing the mono master of The Beatles' 'Taxman' via the Revolver album (EMI). The acid test, the rather harsh rhythm guitar, was pushed forward in the mix, grating a tad on the ear.

The Beyers really only came to life when playing vinyl. Spinning Neil Young's 'Mideast Vacation', via 'Life' (Geffen) both the upper bass and lower midrange frequencies of this warmer format managed to coax a pleasing response from the RSX 700s. Young's vocals were coherently expressed and the headphones produced pleasing detail for the price range.

So those looking for a portable, home-based set of headphones should audition the RSX 700s. When coupled to the right components, they provide an enjoyable listening experience, but they're not the last word in audiophile performance all the same.
These open backed biwired headphones utilise what AKG calls ‘flat wire voice coil technology’ with a patented ‘Varimotion’ two layer diaphragm, said to enhance detail. The unit itself arrives complete with a storage cradle. Manufactured with a leather headband, the K701s are an easy fit, and at just 235g rest lightly on the ears. They do rather ‘sit’ on the head, though, in such a way that I fear for long term listening. However, they are much more comfortable than the Beyers. One important aspect of these ‘phones is their cool design. In terms of how the K701s look, there’s a distinct and pleasing retro feel.

SOUND QUALITY
While lacking the sensitivity of the reference Sennheiser PX100s, the K701s, playing the Neil Young vinyl via the X-Can V8P amp, did exhibit great delicacy in the upper midrange that was not obvious with the Beyerdynamics. Plenty of air was apparent around the vocal while guitar reverb sailed off into the distance. Another first was the discernible plucked guitar strings and snappy bass drums. Despite the fact that the K701s turned in far more midrange detail than the Beyerdynamics, the lower bass was noticeable by its absence — even when compared to the much cheaper PX100s.

Running The Beatles’ ‘Taxman’ via the Naim CDS, showed how sensitive the K701s are to sources because the upper mids and treble were a little too bright for comfort with a strident rhythm guitar. Moving swiftly onto ‘Numbers’ via Kraftwerk, which is mastered with a very analogue tone, this track gave the best performance from any headphone on CD so far. Despite the missing lower bass, the track was comparatively well balanced while the upper mids and treble were both clean and thorough while the vocal exhibited subtle nuances. Switching back to the valve Musical Fidelity headphone amplifier improved matters still further. Morgan’s attendant guitar accompaniment was fuller and more ‘twangy’ while the strings played in a rich fashion adding a romantic atmosphere to the arrangement.

A stylish yet fun design, the AKG K701s not only supply a slice of luxury for a nice price but deliver enough midrange and treble detail to keep you coming back for more, especially via the MF headphone stage and a vinyl source. They’re a distinctively styled, well built mid-price phone, with an enduring spirit many will enjoy.

VERDICT
Highly transparent and source dependent, these headphones lack a little in bass performance but, for the price, excel in the midband.

FOR
- transparency
- midrange clarity
- funky design

AGAINST
- careful source matching
- lower bass power

www.hi-fiworld.co.uk FEBRUARY 2010 HI-FI WORLD 17
GROUP TEST

SENHEISER HD650

£270

SENNHEISER HD 650 £270
Sennheiser UK
044 (0)1494 551551
www.sennheiser.com

FOR
- taut bass
- midrange finesse
- superb build quality
- upgradeable leads

AGAINST
- a tight fit!

n audiophile stalwart, these open back headphones have been around for a good few years, and warrant inclusion thanks to their evergreen status. They sport distinct styling and fine construction quality; in fact, Sennheiser seems to me to be the headphone version of Naim in that you can always tell their design a mile away. The HD 650 is no exception with its elliptical earcups and strong metal outer grills plus the well-padded headband. Build quality is very high, again like Naim.

The HD 650s feature replaceable copper cables that attach to the earcups; these are Kevlar-reinforced and have very low noise handling. They can be usefully upgraded with products such as those from Stefan Audio Art. Weighing in at 260g, the HD 650s are little heavier than the AKGs, but obviously less comfortable. This is because wearing the HD 650s is comparable to placing your head in a woodworker's vice; your bonce is clamped firm! Happily, long term ownership sees them loosen up a bit.

SOUND QUALITY
Diving into the deep end and the mono recording of Jane Morgan via the Music Fidelity amp, the HD 650s responded brilliantly with a supremely balanced performance. This is definitely a Yin & Yang design as everything appears to be in its place and working well: upper mid and treble detail abounds, upper bass provides a satisfying kick where necessary while there is sufficient lower bass to provide width and power to the recording. I did notice slightly less distortion with the HD 650s than any headphone tested thus far which meant that I could up the volume a touch without any aural discomfort. This allowed me to pick up subtle vocal resonances within Morgan's vocal performance. It was as if I had zoomed into her vocal chords and had a good look.

Playing the Neil Young track was a revelation. Impressive weight around the bass guitar and drums provided a true driving motion that reminded me of that company's own PX100s but with greater solidity and style while subtle upper mid events added a real sense of finesse that left the AKG phones gasping in the wake of the HD 650s. Switching over to the ANT amp there was, as expected, a slight hardening that did produce a crisper bass guitar and more searing rimshots and prominent treble. However, there was nothing here that was offensive, merely a change in style and personal preference. The HD 650s retained their presentable and flattering output.

Playing 'Taxman' via The Beatles saw Paul McCartney wake up! His bass performance was impressive, prominent and articulate. Yes, the PX100 revealed the instrument but the HD 650 gave it personality and a character of its own. In addition, this was the first time during the entire test that I could sit back and actually enjoy this track. In addition, the rhythm guitar was now part of the mix instead of being disjointed and pushed into your face.

A dazzling pair of headphones that, for the price, excel in all areas of the sound spectrum while offering brilliant value. They do work particularly well with the Musical Fidelity headphone amp, and don’t forgive poor sources easily however, which is important to bear in mind!
Surely the strangest set of headphones in this group, this open back entry level model from Stax is actually a set of ‘electrostatic ear-speakers’, as the company calls them, and an energiser box. Effectively then, no headphone amp is needed; these work straight from a line output. As such, the package represents tremendous value for money.

They’re rather odd to use. It feels like you’re wearing two paperbacks on your head, albeit lightish ones that only weigh 300g. But considering their bulk, it is amazing just how comfortable they are. They have a very light touch; unlike the Sennheisers they don’t lock your head in a vice. Still, the PVC cushion pad covers can get a little sweaty after long-term use, which is a pity. Build isn’t bad, but you wouldn’t want to abuse them like you could the Sennheiser HD 650s, and the best you can say about their styling is that it’s quirkily retro...

**SOUND QUALITY**

The superficial character of the SRS 2050s can be summed up thus; they have superlative upper midband and treble but iffy bass. But that would be too easy and not provide the whole story. Playing The Beatles’ ‘Taxman’, for example, and I found little in the way of rich, deep bass, but it was certainly fair to say that upper bass was plentiful and Paul McCartney’s wonderful mid-track work was relayed well. Upper midband and treble are both detailed and eloquent with no harshness evident. Instrumental separation is excellent, broadening the soundstage and adding interest to the track.

‘Numbers’ from Kraftwerk lost the driving lower bass of the HD 650s but what the SRS 2050s did offer over and above the Sennheisers, was a crisper midrange and finer treble with a notable distinction that, in itself, produced its own energy, power and musicality. Every facet of the music in this area was examined and portrayed with intricate exactness. Tiny vibrations, completely missing from the Beyerdynamics and AKGs added a sense of flair to the SRS 2050s portrayal of the music. As such, it became altogether more vibrant. Less hi-fi sounding than the HD 650s they may be, the Japanese Staxes still added something that the German Sennheisers couldn’t.

Vinyl benefited even more. In fact, the Stax headphones are very vinyl-friendly. You can almost imagine the phones wrapping an analogue arm around your favourite LP, dragging it down the pub for a few drinks, getting roaring drunk, admitting it loves the LP and vice versa - but only in a manly fashion - and then the pair waking up the neighbours with their midnight singing! Neil Young’s midrange and treble output are not designed to impress with startling, short-term, feats. Instead, they offered exacting transcriptions with confidence and calm, nailing each detail with patience that makes long term listening a real pleasure. While the SRS 2050s have (lack of) lower bass issues, they can still rock with the best of them, exhibiting excellent musicality while adding grace and polish to the upper frequencies. A headphone for all music types and most listeners, these were a revelation at the price.

**VERDICT**

Unique design gives these headphones special properties that all the others here lack; exceptionally musically insightful.

**STAX SRS 2050**

Symmetry Systems
(+44 (0)1727 865488)
www.symmetry-systems.co.uk

£500

**FOR**
- superlative midrange
- delicate treble
- value for money

**AGAINST**
- light lower bass
- odd styling
- sweaty earpads!
Right on Q

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GP Acoustics (UK) Ltd., Eccleston Road, Tovil, Maidstone, Kent ME15 6QP, U.K. Tel: +44 (0)1622 672261 Fax: +44 (0)1622 710053
KEF and Uni-Q are registered trademarks. Uni-Q is protected under GB patent 2 236929, U.S. Pat. No. 5,548,657 and other worldwide patents.
One of the best looking designs in the test, the closed-back W1000s are distinct in using cherry wood cups on the ear pieces. And not any old cherry wood, either: This is of the Hokaido Asada variety which is both light and rigid. The earpads sport faux leather (i.e. vinyl), so expect a bit of sweating up during long term use. Despite the ATH-W1000's large size and 350g weight, they're very comfortable indeed over long periods and are very well built. The design is completed by a long 3m cord which is cloth covered to cut down mechanical noise; a nice touch.

**SOUND QUALITY**
Fascinating, and a little surprising too! They don't flatter poor sources gladly; for some reason the W1000s found The Beatles' 'Taxman' via the ANT headphone amp uncouth and rather distasteful. Despite tracking the instruments well it didn't have the musicality of either the Sennheisers or the Staxes while the troublesome rhythm guitar, which had tripped up both the Beyerdynamic and AKG headphones did its worst here too. This upsetting effect gives you an idea how well the Sennheisers and Stax phones bring order to this chaos. The W1000s struggled to keep control of uncivilised upper mids and treble frequencies. The problems continued with the Kraftwerk CD track which exhibited stridency in the upper frequencies, despite excellent subtle detail extraction of electronic textures. In addition, in this digital domain, the upper and lower bass drive didn't quite have the same party atmosphere of the Sennheiser HD 650s.

Then vinyl was played and the W1000s showed the other side of their character. Playing Neil Young's 'Mideast Vacation' through the ANT amplifier, the mid and upper frequencies were very revealing. While the Sennheisers and the Stax showed an incisive edge, telling you that a string had, in fact, been plucked, the W1000s went further still, providing more information and disassembling the plucked string into various elements. Low bass, on this track, provided both power and breadth. Moving to the Musical Fidelity valve amp, however, removed the slightly harsh edge which began to alert me to the transparent nature of the headphones. In general terms, with the valved amp, the W1000 was able to shine light into the dark corners of the recording.

Switching to Jane Morgan's original mono master on the Musical Fidelity amp, the W1000 handled the entire recording with aplomb. There was a supreme calm in its transcription, never rushing to deliver the information to you, it tracked the entire song with enormous clarity. Morgan's vocal, on the ballad 'You'll Be There' was smooth without a hint of harsh upper frequencies that were sometimes evident with the AKG, for example.

This is something of a schizoid pair of headphones therefore, and a design that is far better suited to the analogue domain rather than the digital. Whenever the W1000s see a vinyl source, they react very well indeed, but give them a CD and you'd better watch out!

**VERDICT**
A wonderfully delicate and incisive sounding design that's beautifully built and comfortable to wear, but doesn't flatter poor sources gladly.

**AUDIO TECHNICA**
ATH-W1000
£560

Henley Designs
(+44 (0)1235 511166)
www.henleydesigns.co.uk

**FOR**
- delicacy, clarity, insight
- superb build
- comfort

**AGAINST**
- lower bass
- revealing nature
- vinyl earpads
DENON AH-D700

£900

DEN ON AH-D700
Denon UK
Tel: +44 (0)2890 279830
www.denon.co.uk

FOR
- sumptuous bass
- powerful presentation
- silky midband

AGAINST
- need careful matching
- price

Denon's two-channel products are well known in this country, but the company is less famous for its headphones which sell very strongly in its native Japan. This swish looking pair of headphones sport high quality transducers with damped mahogany earcups - the latter a popular touch on high end Japanese designs - held in place by a light and rigid magnesium frame. Leather earpads and headband complete the picture, making them more comfy on your shell-likes. All very nice, but the D7000s weigh in at a chunky 370g. This said, they're surprisingly nice to wear with a genteel fit and no long term listening issues.

SOUND QUALITY

While the Audio Technicas concentrate upon the upper mid and treble areas, the Denons major on the bass. Playing Neil Young with the ANT amp, and the fine midrange and treble was completely overshadowed by the excellent bass reproduction, which was immediately in evidence bringing the power of the bass guitar to the fore with presence and solidity. The Denon headphones declared, on this track, that might is right, showing a silky smooth surfaced iron fist! Moving to the Jane Morgan mono track on the ANT amp and the trademark twangy electric guitar offered far more power potential and gravitas then had been heard thus far. Morgan’s voice, while not exhibiting the precision of the Audio Technicas, was both sweet and polished.

Switching to the Musical Fidelity headphone amp and the Denons almost fell apart. The D7000s obviously need a super-tight driver to reign in their exuberant bass response. Whereas the slight warmth and fullness of the Musical Fidelity was ideal for the drier sounding Sennheiser HD650s, it proved the opposite with these, making for a bloated feel. Lacking precision, the upper frequencies could even be described as veiled. Unfortunately, this state of affairs occurred no matter what music was pushed through the 'phones - even when the forward sounding Naim CDS was the source front-end. The Musical Fidelity amp rounded off far too many edges.

Normal service was resumed when the D7000s were switched back to the ANT amp. Playing The Beatles' "Taxman" brought forth a mighty grin on my face. With the Naim CDS CD player, the track sounded much better balanced while the ANT headphone amp provided a swathe of energy that the D7000s needed in order to get going. The ANT supplied life and force in the track, blending bass and midrange detail that got the feet tapping while Paul McCartney's bass run was easily the most impressive reproduction in the entire test.

The Denon D7000s are superbly built, but at the asking price, so they should be. Performance was very surprising. These headphones have to be carefully controlled if you want to get the very best out of them and that means avoiding warming valves which only over emphasise low frequencies giving the ear too much of a good thing. Via a solid-state amp, its bass is impressive, lifting details from recordings that you probably never even suspected are there. Impressive, but expensive.
Top of the price pile, the new GS1000i is a dynamic open air design, its ‘i’ upgrade bringing improved transducers and a new eight-conductor cable design. Wooden earpieces are said to reduce harmful sonic resonances, but the most interesting aspect of the design to me is the very large, cave-like foam earpieces. Grado has apparently produced them to not only allow the ear to fit inside without any undue pressures but also to give the ears the best chance to find the aural ‘sweet spot’. I must admit, popping the Grados on my head, the headphones felt comfortable, despite the relatively heavy weight of 311 g, but that, because of the asking price, I was looking for more. It seemed an aesthetically somewhat inelegant feature, although I'll admit long-term listening was a pleasure.

SOUND QUALITY
Taking the Musical Fidelity valve route and Jane Morgan's album as a starting point, the Grados produced an immense sense of clarity and detail across the midrange and treble, along with lower bass power that provided a suitable support but never overpowered - as the Denons sometimes threatened to do. In fact, the Grado headphones took the best elements of both the Denons and the Audio Technicas and cooked them up into something delicious. Certainly on this track, no weaknesses were evident. Morgan's voice was recognised as an amalgam of frequencies, a complex array of resonances and modulations that were rendered faithfully.

Moving to the Neil Young song with the same amp, and the GS1000i's retained the power of the driving bass beat but blended that with delicately plucked guitar strings. That the tonal balance was achieved with such ease is a testament to the design. The Grados are transparent; there is no colour plastered on the music. Witness the amp change from the Musical Fidelity to the ANT: a slight hardness was immediately present via the ANT for example, although the quality and balance was maintained.

Retaining the ANT amplifier but changing formats to CD and The Beatles' mono version of 'Taxman' showed that, despite the forward nature of the Naim CDS, the Grados maintained a sense of decorum while ducking and diving with all of Paul McCartney's bass convolutions and, at the same time, keeping the boisterous rhythm guitar in check and not allowing it to dictate proceedings.

During Kraftwerk's 'Numbers', the GS1000is showed great precision in how the track was presented to the ear. Indeed there was craft and care commensurate with that which the band took to create the music in the first place. Each electronic exclamation is scrutinised and offered to the ear on a silver platter. That's not to suggest that the 'phones are bereft of emotion, far from it. The analogue mastering of the Kraftwerk album adds a subtle warmth that was extremely effectively imparted.

Grado's new GS1000i headphones certainly tick most of the boxes; they take you joyously close to the original recording, yet are comfortable to wear over long periods. They're extremely expensive of course, but serious headphone users might just think they're fine value all the same.
A search of all-inclusive, unique perfection. Every minute detail has been meticulously thought out using the finest materials, selected with greatest care to blend beauty and technology. A fundamental and passionate process devised by a team of men and women who strive to achieve their sole ambition, that of providing the future owner of such rare equipment the enjoyment of a perfect instant, so fugitive yet so everlasting.

www.triangle-fr.com

AWARDS: DIAPASON D'OR HI-FI 2006 / EDITOR'S CHOICE HI-FI CHOICE MAGAZINE / BEST OF HI-FI VIDEO 2006
found this group of headphones most interesting to review, thanks in no small part to the wide variety of design philosophies apparent. Also, because this group test spanned an assortment of price points, it was intriguing to see where each manufacturer’s priorities fell.

One decided that convenience was paramount by the use of wireless transmission, another espoused technological innovation via electrostatic transducers, while others sported clever materials use with exotic wooden ear cups.

The only downside is that vice-like grip they have, not only in the bass but around your face. Those with large ‘noggins’ may need to look to something altogether looser fitting, such as the second place product...

Stax’s SRS 2050 is a special design, from a company that’s been making electrostatic ‘earspeakers’ for several decades. Once they’d decided that this is the sound for them, Stax users rarely go back. They do have limitations, not least the lack of deep bass, but the overall balance elsewhere, the conspicuously superior upper midrange and treble performance, won the day. The subtlety of these earspeakers needs to be heard to be believed.

Given the price, maybe you won’t be surprised to find the Grado GS1000i headphones come out top. Basically, they did everything well and, as much as I looked for criticisms and weaknesses, I failed to find any so I promptly gave up and spent the rest of the test having a peach of a time listening to the music. They’re almost as delicate as the Staxes, just as powerful as the Sennheisers, and as full bodied as the Denons, and put it all together so successfully.

You could even say they have a slight whiff of the AKG’s styling too! They’re a magnificent set of high end headphones that are, surprisingly enough, worth every penny.

If you plop your prospective purchase on your head before you flash that credit card!

As for the Denon AH-D7000 and the Audio Technica W1000 headphones! I felt it only fair that they both occupy joint fourth position - like opposing brothers held together by their differences. The Audio Technicas dominated the upper frequencies while the Denons took control of the lower areas. Some might raise an eyebrow that both the Sennheiser HD 650 and the Stax headphones have been placed above these quality products. However, in making my conclusion I felt that balance was the most important aspect for any headphone user. To do everything well was, I felt, far more important than doing one thing brilliantly. There is no doubt that both the Denons and Audio Technicas are supreme in some respects. However, critically, they are most definitely niche products compared to the far more universal appeal of the following...

Sennheiser’s HD 650 headphones performed extremely well, with tremendous overall sound capabilities and no real weakness for a product in this price point. Well balanced with a driving bass and detailed midrange and treble, many users will buy these headphones and then never feel the need to upgrade, as they’re that good.

Sennheiser HD 650 - best value.

Grado GS1000i - best all rounder.

"listening to headphones is such a personal experience that a pre-purchase demo is critical..."
Bienvenue!

Tony Bolton celebrates Micromega's return to the UK, finding the new CD-10 CD player to be full of Gallic charm...

From the late nineteen eighties, Paris-based Micromega built themselves a reputation for good sounding and innovative products. Indeed they were amongst the first companies to introduce two box transport and DAC combos in 1988. Following quality problems with the supply of the Philips CD mechanisms then used, the company suffered a downturn in fortunes in the late nineties, leaving these shores some ten years ago, and closing in France three years ago...

In March 2007 the company was acquired by Didier Hamdi; motor cycle racing fans may recall him as the 1991 World Champion. Since then he has had many interests including owning the company that lights the Eiffel Tower, selling motorbikes and now, owner of a hi-fi company!

The founder of the company Daniel Schar is now head of R&D and, with Didier Hamdi has re-engineered the previous Micromega range to produce a new eleven unit lineup which includes amplifiers, tuners and a range of three CD players. These start at £799 for the CD-10 under review here, and covers the CD-20 (£1,227) and the CD-30 (£1,599). Available in either black or the rather sleek silver finish of this example, the styling was both pleasing to the eye and functional. The front panel is made of aluminum and sports chamfered edges and recessed buttons below the blue dot matrix display. The slimline drawer occupies the top left of the facia. The mains on and off is situated at the back, above the IEC socket, along with phono sockets for the analogue out and a coaxial digital output. Dimensions are a compact 430x250x70mm and weight 4.6kg. Internally the machine is well specified, with either Sony KHM 3413 or Sanyo SFH 8450 DVD mechanisms. These are controlled by a Philips SAA78247 circuit and Micromega's own software program. The conversion from digital to analogue is taken care of by a Analog Devices AD1853 chipset. The power supply for all of this is based around an R-Core transformer. This was chosen because they have a narrow bandwidth, compared to the wide bandwidth of toroidal types, and in moderate current situations this helps with noise rejection. The drive mechanism, feedback circuits and all user interface sections are driven from the 'digital' power supply, the analogue sections having separate rectification and filtering. At this point it is worth reading the
instructions because the Micromega has a lot of facilities that are accessed through the front buttons, that are not immediately obvious. These range from the useful, such as fast forwarding through a track, to the ability to adjust the speed the disc tray opens and closes!

**SOUND QUALITY**

After unboxing the player I had a quick listen before leaving it with a burn-in disc to amuse itself for a couple of days. Initial impressions were of a full bodied sound, but somewhat tight and lacking in subtlety. About fifty hours of use I listened again and found that the impression of richness of tone was still there but the tightness had gone to be replaced by a more flowing and open presentation.

First up for listening was the New Cologne Philharmonic Chamber Orchestra. This is part of the Cologne Philharmonic, who spend their summers touring small venues in the smaller towns in the UK. Having had the pleasure of seeing them several times and been impressed with their musicianship I bought some of their discs a couple of years ago. One contains, amongst others, Vivaldi’s Concerto for flute and orchestra ‘La Tempesta Di Mare’. As the name suggests the music ranges from calm and flowing to turbulent and back again. The CD-10 dived into this performance with gusto. Horns shimmered without bite, violins sang without shrieking and deeper toned stringed instruments had a lustre to the sound that almost reflected the polish on their wooden bodies.

Ignoring the enjoyment factor for a moment and being coldly analytical, I found the soundstage to be of reasonable depth and width, if not the largest that I have heard digital players produce, and of satisfactory and realistic scale. I felt that the performers had space to breathe and move around themselves and each other. One of my usual gripes with digital sound is the lack of three dimensionality in the sound when compared with vinyl. Now this machine did not attempt a vinyl-esque soundstage, but what it did do was transmit the information to the listener in such an absorbing manner that I felt that I could look into the recording and be aware of each aspect of the performance that I chose to give my attention to.

'A few hours of listening later...

"In March 2007 the company was acquired by Didier Hamdi; motor cycle racing fans may recall him as the 1991 World Champion..."
When designing the K1, the Vivid Audio engineers wanted to gain the bass response of a larger speaker yet retain the agility and speed of a smaller design. Through extensive research, they perfected a reaction-cancelling bass loading system that, when combined with a newly developed crossover, delivers progressively focused power with increasing frequency. The result? All the bass expected of a much larger design yet with the coherent detail of a simple driver.

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and I was playing Billie Holiday. The recordings were from her early years when she was working with the Benny Goodman bands, in particular forming a close musical association with Teddy Wilson (B.G.'s pianist). Miss Brown To You demonstrated the easy collaboration between the singer and musicians. In the late thirties there was no ability to edit recordings, so each disc was 'live', and the interaction of the artists showed any silver disc spinner at this price displays sonic manners!

Coming right up to date with Shpong's latest release 'Ineffable Mysteries From Shpongeland', which was released in November this year; and I found myself exploring sounds from Indian street performers blended with some truly strange electronics that was propelled along at a pleasantly gentle pace by pipes and drums. A most mellow blending via the CD-10, it was in its element presenting a musical panorama that I found quite absorbing.

This is one of the few affordable players that I have come across that has the ability to present most musical genres in an entertaining and enjoyable manner. It has more than a flavour of the similarly priced Njoo Tjoeb 4000 which uses a valve powered output stage. I have been using one for a great number of years and I love it for its smoothness and musicality.

The Micromega CD-10 comes very close to this, which for a totally solid-state design I find impressive. If you are expecting (or wanting) the sharply defined, slightly stark presentation of budget and affordable CD players then look elsewhere. The CD-10 had definition, but didn't feel the need to shape the edges with a razor blade, and tended to have a more tactile sound than most. Its bass is not the deepest that I have heard - you won't be causing structural damage when playing the 1812 overture - but it is satisfying and responsive. The big complaint I had was with the remote, which worked, but was inappropriate to such a well presented machine. It looked as though it was a leftover from an early nineties stack system, and was a let down after the sophisticated appearance of the player...

CONCLUSION

I felt that the CD-10 represented a welcome return to the marketplace for this manufacturer. It seems to be well made and finished, and certainly sounds very good. If you are looking to spend up to £1,000 on a CD player, then this is a must for the audition shortlist.
Star turn

Products are a bit like people. They have a raison de être, dreamt up at conception, one that imparts a certain character. And unlike the TX-NR906 I reviewed one year ago (March 09 issue) and was impressed by, the TX-NR1007 and I never clicked. It’s not a bad product at all, quite good in fact, in typical Onkyo fashion, but much of all it does was a little lost on me – and it disgraced itself.

Onkyo state clearly that the TX-NR1007 is a 9.2 channel receiver, meaning it has no less than nine amplifiers on board just in case someone out there is dreaming of sharing their lounge with nine loudspeakers, or should that be eleven loudspeakers because the ‘0.2’ bit alludes to the use of two subwoofers!

Yes, it’s a mad, mad world in AV land where a mindless specification race demands ever more channels, power and sound wangling gadgets be crammed into a receiver. The list for this model is so long it isn’t sensible to waste paper listing it all here: a full manual (14MB), set up guide and specification listing are available from Onkyo’s European website at www.eu.onkyo.com/products/TX-NR1007.html.

Why would you want nine channels? There is no compelling reason, quite frankly. I swap between 7.1, 6.0, 5.1 and 4.0 and of them all am happiest with 4.0; more is not merrier, it is just more. But Onkyo tell us in their manual that an owner can enjoy Audyssey Sound Expansion that allows expansion of sound stage width and / or height by the use of extra loudspeakers, if desired. You can read about this in detail at www.audyssey.com/technology/dsx.html where three 9.1 options and even an 11.1 system are pictured and explained. Dolby now also provide an additional synthesised height channels in the Dolby Pro Logic IIz system and the TX-NR1007 has this system onboard too.

Multiple loudspeaker channels like this are best suited to dedicated AV rooms and not simple, high quality music replay in the home. Modern films on DVD and Blu-ray come with a 5.1 sound track (a few 7.1s exist, for example ‘3:10 to Yuma’), so the additional channels are synthesised (faked?) in the receiver, not a difficult thing to do using vector summation but rather bland in its result because no information is added. The whole multiple channel thing is a contrivance really.

And then of course there’s the small matter of where to put all those extra loudspeakers. In the Onkyo living room, on page 17 of the manual, no fewer than nine loudspeakers can be seen in front of AV man – and there’s even room for a palm tree! Somehow, I think this is a fantasy most people don’t suffer, unless perhaps they are loudspeaker manufacturers. It’s where the whole AV thing becomes a bit daft in my view.

Four loudspeakers, comprising two surrounds and two backs sit behind me in my home and finding space for them is easy enough. It is the fronts I have a problem with and here I prefer to use a stereo pair, as per normal, for a properly balanced phantom centre image, as you get with normal stereo. I don’t use a centre loudspeaker, because it compromises sound quality, showing singers, drums and much else into one small box placed so low it sounds as if singers are singing on their knees. Centres are OK for cinema dialogue, but not for music. I did re-locate my back loudspeakers for use as L and R Wide use, as Audyssey suggest, but was unimpressed, but then I run my AV system more as a quality hi-fi that also handles movie surround-sound well, than AV that handles music nicely; the emphasis is different and it is from this viewpoint that I realised the TX-NR1007 is more a movie machine than a hi-fi product.

There are other ways to use the nine onboard amplifiers. For example, the front L&R loudspeakers can be bi-
amped in a 7.1 system Onkyo suggest, or music can be fed to other rooms (zones). For hi-fi purposes though the extra channels offer little, if any benefit.

As always Onkyo offer a comprehensive set of good basic audio facilities, plus a few flourishes. All current Blu-ray audio coding schemes are fitted, including Dolby Digital Plus, Dolby TrueHD and DTS HD Master Audio. So it can handle any Blu-ray movie music track thrown at it, as well as normal (uncoded) PCM digital up to 24bit/192kHz resolution. Connect up a CD player digitally, via optical or electrical cable, and it will play CD. Connect up a DVD player or Blu-ray player via HDMI and it will play 24/96 digital sound track from DVD and Blu-ray and even the few 24/192 Blu-rays now appearing from labels like 2L of Norway.

One of the 'flourishes' I mentioned earlier is the presence onboard of a proper DSD decoder switched in by going to the Direct menu and selecting DAC Direct. This is for those who cherish SACD sound quality and have the necessary Denon or Oppo player able to output DSD code via an HDMI link into the receiver. Unfortunately, I was surprised to find that although basic conversion quality was good measurement showed, meaning Onkyo have used quality parts and not a scrappy solution like other manufacturers (hoping no one will notice), there was a problem. SACD replay was far too loud — and it was in mono. Whoops! I informed Onkyo UK and the factory in Japan was trying to replicate the problem, last I heard. As all earlier Onkyo receivers worked fine via DSD Direct this is a problem confined to the TX-NR1007 and two samples we tested. It may simply be a software fault soluble by a firmware upgrade.

But that raised another problem: my receiver crashed when asked to perform a firmware upgrade via its internet link. It said "No upgrade" which perhaps meant no new firmware was available (the handbook says nothing about this message), but it was not clear not switch out of this display and back to normal operation, I had to switch it off then back on; happily I did not have to re-set the processors, which entails losing all settings.

And talking about switching off and back on brings me to another but not final problem: the receiver switched off whenever I turned a Samsung TV off! I then had to turn the Onkyo back on to continue listening. It responded to other Samsung remote commands too, unfortunate since Samsung products are very common. Again, this is not a problem I suffered with earlier Onkyo receivers, so why this one I don't understand.

Amongst the endless list of audio facilities, this receiver has a phono stage so a turntable with normal moving magnet cartridge (MM) can be hooked up; I used a Rega P3 with its excellent RB301 arm, fitted with an Ortofon 2M Black and it worked well.

Onkyo always fit a quality VHF/FM tuner to their receivers, something I particularly appreciate; there's an AM Medium Wave section too. Tuning in from the front panel is quick and straightforward and I had most of London's stations in within minutes, working from station frequency listings I have. It is best to do this and not rely on auto-tuning, which will detect unwanted relay transmitters, especially if you use an outdoor high gain aerial as I do. Most VHF stations

Connecting up is much like getting into a wrestling match with an octopus, especially with all those loudspeaker connections. Black plastic plugs in the loudspeaker terminals can be removed to allow 4mm plugs to be used, but the handbook says nothing about this. As always set up is complicated but Onkyo's menus are amongst the best, even if the handbook's explanations of them are orientally obtuse. Multi-channel inputs are fitted, allowing analogue connection of an old SACD or DVD-A player. There is a multi-channel preamplifier output too, so external power amps can be used.

Audyssey loudspeaker set up and room tuning is provided but this so alters the frequency balance of loudspeakers I do not use it, preferring manual tuning, and Direct

or Pure Audio (display off) mode for best sound quality. A seven band graphic equaliser is provided, as well as tone controls.

For wrangling audio, as I mentioned earlier, the TX-NR1007 has no peer. In addition to the Audyssey system, there are THX, DTS and Dolby sound processing modes, Neural Surround and Onkyo's own digital schemes. Dynamic volume compensation and much else is available and there is quite a lot of overlap between the systems. In spite of what each commercial protagonist says about their particular technology, it is all based on simple and specious theory, and what you get is often quite gross and arbitrary changes in sound quality, applied by the digital processors. This isn't really for audio buffs, which is why I bypass all processing by Direct and Pure Audio modes. But that does make a lot of what the TX-NR1007 offers redundant for audio purposes.

Switching from 'Tuner' to 'DVD' disabled Mode (Direct, Pure Audio etc) selection and I could only reinstate it by switching the receiver off, then back on again, another software glitch. Oh dear!

**VIDEO**

Video processing is provided, in addition to the usual upscaling. Called
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The TX-NR1007 produced a massive 170 Watts into 8 Ohms under test and 270 Watts into 4 Ohms. However, with a continuous tone test signal it wasn't long before current limiting relays clamped in to limit output to 40 Watts with the 4 Ohm speaker setting, to prevent overheating. Unlike the many other Onkyo receivers I have tested, this one was particularly protective, output limiting very quickly. So I tested it with long duration sinewave bursts that better represent music and with either 4 or 6 Ohm loudspeakers selected, it gave the outputs quoted here without the relays kicking in. So the TX-NR1007 is very powerful, for those that feel they need such power. Onkyo always run hot and this model was no exception.

Distortion levels in the amplifier were reasonably low at around 0.04%. With Direct selected to bypass digital conversion bandwidth reached 110kHz; with processing this was brick wall limited to 23kHz by anti-aliasing filters. Sensitivity was high at 210mV for full output, so the analogue inputs will suit most sources.

The S/PDIF digital inputs (optical and electrical) gave good results with CD, frequency response flat to 20kHz and distortion very low at 0.02%, with a 46dB signal. With a 24bit signal distortion dropped to 0.04%, as it did through HDMI also, another impressive result. Both 96kHz and 192kHz sample rate digital signals gave a bandwidth to 56kHz (-1dB) and where 96kHz cut off sharply at 46kHz, 192kHz extended to 108kHz (-6dB) so high resolution digital is handled well.

Damping factor was particularly protective, output limited to 100Watts with the 8 Ohm speaker setting, to prevent output to 40 Watts with the 4 Ohm speaker setting. Only with 'DAC Direct' selected, it gave the outputs quoted here without the relays kicking in. However, with a continuous tone test signal it wasn't long before current limiting relays clamped in to limit output to 40 Watts with the 4 Ohm speaker setting, to prevent overheating. Unlike the many other Onkyo receivers I have tested, this one was particularly protective, output limiting very quickly. So I tested it with long duration sinewave bursts that better represent music and with either 4 or 6 Ohm loudspeakers selected, it gave the outputs quoted here without the relays kicking in. So the TX-NR1007 is very powerful, for those that feel they need such power. Onkyo always run hot and this model was no exception.

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Neat Acoustics has always given us simple, unreconstructed musicality in its loudspeakers, and the new Elite SX is no exception, thinks David Price.

There are some brands, such as Linn and Naim in electronics for example, whose sonic signature is so distinct that you can hear one of their products completely unannounced. A bit like sitting in a Lotus sports car, the way the thing does what it does is quite unique. I can count several loudspeaker brands that do this too; I never had trouble picking a Farad Azim-era Mission, for example; whether it was the lowly 70 or the chunky 753, they seemed to do things in a certain way.

NEAT is another such example of a loudspeaker marque which has an identity so distinct that it might as well be written through the centre of each cabinet like the words 'Blackpool' in a stick of rock. Boss Bob Surgeoner is also the designer, and when he's not trialing crossover components and playing with drive units, there's nothing he likes more than playing electric and acoustic guitar. The result is that NEAT speakers have a characteristically 'live' sound; by which I don't mean shouty and boomy with acoustic feedback ringing around the auditorium. Rather, I mean it in the sense that there's a certain musical tactility designed in. There's also something designed out - razzamatazz. Rather, they're just businesslike boxes fitted with very carefully selected drivers and crossover components. No hocus pocus here...

The Elite seen here is the company's latest mid-price floorstander; descended from the Petite (remember those?)...

The Elite was simply a floorstanding version of the above iconic eighties mini-monitor. It's claimed to have extremely low distortion, thanks in no small part to its twin ('staggered') port tuning. There's one 32mm hole on the back of the box that's tuned to around 40 Hz, and another 50mm diameter port mounted in the base of the cabinet, which is tuned higher, over a wider operating band. This downfires to a solid and heavy slate plinth 20cm below.

The main drive unit is the latest version of that used in Neat's upmarket Ultimatum range, and sports a 6.5-inch doped paper cone, ferrite magnet assembly and a fixed aluminium phase plug to enable smoother integration with the tweeter. The treble unit sports a fabric dome with internal damping and a non-resonant chamber. Its duties are determined by a simple three-element crossover; first order (bass/midrange) and second order (HF) slopes are used. Low-loss air-core inductors are employed, as well as high-grade polypropylene capacitors. All crossover components are specified within very tight tolerances in order to ensure excellent pair matching, the company says.

SOUND QUALITY

Being of relatively diminutive dimensions, I didn't find it hard to get the Elite SXs into the right position in my listening room, spaced nearly 4m apart and toed in to me. I did, however, find it tricky to choose an amplifier that really wanted to drive them; tubes and transistors alike didn't seem over keen on...
the job, so I enlisted an amplifier that made mincemeat of my Yamaha NS1000Ms recently (in a manner of speaking), the Musical Fidelity AM535. Although not the world’s most powerful solid-stater, the brio with which it serves up its forty something Watts, and the sheer unperturbable manner displayed, made me suspect a good match. I was right. However, it’s fair to point out that not everyone’s going to have a £6,000 full Class A powerhouse on hand to drive these £1,895 speakers.

Properly positioned and aspirated by a thumping great amplifier, I found the NEATs to be ‘well lit’ across the midband, but not intolerably so. They’re less bright than NS1000Ms (not saying much, I know) and decently well integrated too, and so Be Bop Deluxe’s ‘Modern Music’ didn’t offend when the stylus hit the groove. The NEATs threw out a wide stereo image in my room; not the most cavernous I’ve heard but good for their smallish size, and didn’t suffer overtly from ‘sweet spots’ when toed in.

I found them decent in the bass; lows were far from prodigious, but they did manage to get the essentials through, and I did like the timing with which the bass arrived at my ears. These are best described as ‘snappy’ sounding speakers, giving little rhythmically away to my reference Yamahas in this respect. The bass also integrates well with the midband; there’s little in the way of obvious crossing over going on, although 4hero’s ‘Cosmic Tree’ did show slightly curtained female vocals; there was a subtle nasal quality to them.

To be critical, brass instruments had a lower down; brass instruments had a slightly ‘dry’ and not dripping with all those harmonics that go to make hearing trombones and trumpets such a lovely experience. That lusky rasp seemed as if hidden behind a green baize door. Moving to Sub Ensemble’s cover of ‘Humans’ on 4hero’s new ‘Extensions’ album, and I truly enjoyed things. These are very subtle performers; even though they don’t have a crystalline clarity to them, they’re still delicate and finessed, capturing the song’s gentle rhythms with alacrity. The Mammon organ came over as bright and explicit, with lovely rhythmic playing and a truly gripping counterpart between bass guitar and snare drum accompanying it. The song just bounced along, the NEATs being exceptionally unobtrusive in a rhythmic sense.

Tonally, trumpets could get just a little lively in their upper registers, but I’d still insist that - certainly via the smoothie Musical Fidelity AM535 - they were never unpleasant. I also locked on to the lovely floating hi hat rhythms; again up top things weren’t terribly open or spacious, but the drummer’s rhythmic playing was beautifully picked out all the same. It made for a highly pleasurable listen. By way of homage to NEAT’s north east England location, I cued up one of my favourite local sons, Paddy MacAlloon. The remarkable ‘I Trawl the Megahertz’ is a twenty two minute odyssey that’s hard to describe, although it does have classical music form (and instrumentation), and the NEAT Elite SXs rendered it beautifully. Once again, you could tell these aren’t winning prizes for ‘the world’s most tonally accurate loudspeaker’, but once again you could hear precisely how - and why - Bob Surgeoner has voiced them like this. This track can sometimes drag through lesser loudspeakers, but via the NEATs it proved utterly enthralling; spine-cringing even. I was left with the feeling, ‘why don’t I listen to this more?’

To be critical, left to right imaging precision wasn’t outstanding, nor was there a strong sense of depth of the recorded acoustic; things seemed to hover around the plane of the speakers a touch too much. I also felt less able to ‘feel’ how good - or bad - the recording was; precisely the opposite of my Yamaha references which seem to tell you all about the recording, warts and all, with the relish of a five year old who’s just found his brother fallen over in the mud. Once again, I lamented the slightly unatmospheric treble, but then suddenly I realised I’d become absorbed in the music and it was twenty minutes later. The vocalist’s dreamy ethereal quality carried beautifully, and I was under their spell. There aren’t many speakers that can do this so well; and this - I’d suggest - is their magic.

CONCLUSION

Just what I expected, the NEAT Elite SXs are a country mile away from a neutral, matter of fact, analytical tool. Think of them more as entertainers however, and you’re on to something, as they really can capture the emotion of a musical performance in a way that a good number of other, far more expensive designs can’t. The question is then, whether you can live without the things they leave for the sake of the things they leave in! Only an audition will answer that question for you; frankly I’d initially thought I couldn’t but now, two weeks on, I’m not so sure...

MEASURED PERFORMANCE

Our frequency response analysis shows the Elite SXs measured relatively well right across the audio band, and was especially even at low frequencies. However, there is a broad uplift of +3dB in output across the upper midrange from 3kHz up to 10kHz which will add obvious brightness to the sound, as well as accentuate detail. The treble is peaky too and lifts by +3dB, suggesting there will likely be a sting in high treble.

Not so obvious due to windowing of the gated sine wave test signal is a bass peak around 30Hz, that an unwindowed third-octave pink noise analysis picked up, suggesting the Elite SX has slightly under damped bass that should sound lively. Output from the bass unit cuts off sharply below 60Hz and although the upper port makes a contribution below this frequency, acoustically peaking at a low 32Hz, its output was -4dB below the bass unit at 60Hz, where most ports are +6dB up or so, so port output isn’t strong, although the floor port helps. The SX will likely be obvious and ‘fast’ upper bass, but little in the way of lower bass.

Sensitivity was on the low side at 85dB sound pressure level from one nominal watt (2.8V) of input power, mainly due to a high measured impedance value of 9.5 Ohms. Our wattage is 35. www.hi-fiworld.co.uk
Elegant, contemporary and organic in style, the new Definition range incorporates a wealth of high-tech features delivering a rich, articulate and expressive sound. Definition distills, refines and perfects Tannoy's eight decades of loudspeaker expertise.
Tim Jarman rides the airwaves with Naim's new NAT05 XS tuner...

You don't see many of these any more. No, I'm not talking about products from Naim Audio, I'm talking about the humble FM tuner as a breed, now fast becoming 'hybridised' with DAB and/or internet radio capability. So I'm happy to introduce you to the new Naim NAT 05 XS, which is the latest model in a long series of FM stereo tuners the Salisbury company has produced, and one of the least expensive too at £925. An FM-only tuner is a brave move in the post 'Digital Britain' world, but in the context of a minimalist Naim system it makes perfect sense. I personally find the whole concept highly refreshing; this is one for the grown-ups; the iPod generation need not apply!

At the price, it's beautifully made and surprisingly solid. A few simple controls and green calculator-style display, along with the famous green illuminated logo, are all the front panel has to offer, so it couldn't be any simpler to use. A remote control handset is also included, yet this is not so well executed and would be more appropriate for a supermarket DVD player than a quality hi-fi separate. I think Naim should look into industry best practice as far as remote controls are concerned to help make the NAT 05 package feel complete. However, a few brownie points are earned back however for supplying a decent power cable terminated in a high quality (and rewirable) MK plug.

Setting the unit up is slightly fiddly if you are not used to the Naim way of doing things. Each of the four push buttons only illuminates when it can be used in the mode selected but the basic display does not have room for very much information. Once your favourite stations are stored in the memory, things get easier, although putting the mains switch on the back panel has to earn a black mark in these environmentally aware times.

The art of designing a good tuner is in getting the gains and bandwidths of the many amplifying stages just right so that the resulting output covers the whole transmitted audio range with the minimum of background noise. In a stereo tuner the design of the decoder is another hurdle, there is more than one way of doing it and even with modern integrated circuits a high degree of care is required to get it right. In the case of the NAT05 XS, 05 XS form a very elaborate 19kHz multiplex filter and line driver stage. Component choices and layout of this section are immaculate, as one would expect.

The power supply department is also characteristically over engineered, with generous use of voltage regulators and decoupling capacitors along with a mains transformer that in size terms wouldn't disgrace a small integrated amplifier. Once filtered, the signal emerges through either two standard RCA sockets or Naim's preferred five pin DIN. The latter is wired in the standard manner so the NAT05 XS will work with other DIN-socketed equipment that accepts line level signals. The real purpose of the DIN socket is of course for connection to other Naim equipment and a basic cable terminated with quality locking connectors is provided with the tuner for this purpose. Whether the signal comes out of the DIN socket or the RCA sockets (or both) is determined by a setting accessed through the tuning display. Naim state that the DIN socket is the preferred choice but circuits for both options are identical so there is no real need to go rushing off to get special cables made if the rest of your system uses RCAs. They also warn against leaving the output mode set to make both

"even with unfamiliar programme material, it sounded instantly intriguing..."
The passion within

According to the world's press, our CD players are the best around regardless of price. At the core of our players is the unique Servo Evolution (SE) 'engine' that typically provides 20% fewer data errors than ordinary systems. The result of this is exceptional detail across the audio spectrum which provides a far more involving listening experience.

This Cyrus 6 XP includes all the essential features to optimise a high quality audio system. A full 40W + 40W/8 ohm output, six inputs, two output options, main room & zone two – enabling you to extend your system into another room. What is really clever is that the XP platform is upgradeable from the £900 6XP all the way up to the amazing DAC equipped 8 XP d QX model with USB and SPDIF options making this new range of amplifiers the favourite for audiophiles and computer based music lovers alike.

This new Hark II vertical system rack features adjustable shelving and is purpose made for the magnesium Cyrus audio components. This contemporary rack features a sleek extruded aluminium side blade and cleverly hides all of the wiring, whilst also providing a neat power distribution storage compartment. The slim plinth and studded feet provide a secure and stable base for your precious hi-fi components.

Our website has the contact details for our appointed retailers who will be happy to demonstrate why these new audio components set new standards.

Did you know?
The range of Cyrus CD players features a unique purpose built CD drive 'engine' called Servo Evolution (SE) that we have designed and developed purely for high-end audio. We consider this bespoke CD engine to be the best in the world and as you can see the world's audio press seem to agree!
types of socket 'live' at the same
time unless you absolutely have to.
I can see no reason for this from a
technical point of view, and was
unable to hear any deterioration
either.

Returning briefly to the OEM
radio module that does most of
the work in the NAT 05 XS, I was
interested to see that it appears to
include an AM receiver as well, which
Naim have elected to leave lying
dormant! BBC Radio 5 and Talk Sport
listeners may feel that it's a shame
that this wasn't enabled in the Naim
application, although of course a MW
button isn't going to impress the
serious audiophile!

SOUND QUALITY

Getting down to business, and it
won't surprise any Naim diehard to
hear that the NAT 05 XS has a very
tight and dry sound, which lets the
detail that the FM system can offer
really shine through. Listening using
a quality rooftop mounted omnidi-
rectional FM antenna fed through an
amplified distribution system revealed
respectable noise performance and
a wide, well defined soundstage
with stereo broadcasts. The Naim
is wasted on highly processed local
pop stations, their output is equalised
and optimised for car radios and cheap
portables so through the revealing
NAT 05 XS they can sound a little
too clumsy to be really enjoyable.
However BBC Radio 2's adult
orientated material was conveyed in
a more satisfying manner, it gave the
impression of a forward midrange,
rolled-off bass and bags of fine treble
detail.

The longer the tuner was used,
the more the stereo image appeared
to open up more, and the more the
sound became engaging. Even with
unfamiliar programme material, it
sounded instantly intriguing - proving
the oft-repeated point that a good
tuner is a great way to painlessly
broaden one's musical horizons. Were
one tempted to record a broadcast
(and with the focus now on illegal
downloaders rather than home
tapers you may just get away with it?)
then the Naim's careful filtering of
the 19kHz stereo subcarrier and its
by-products make it an ideal
source, especially for Dolby equipped
machines.

I'm not convinced that the so-
called 'Naim sound' is ideal for all
types of broadcasts however; it's
just that little too severe for the full
enjoyment of BBC Radio 4 which
really benefits from a warmer, richer
bass to help one connect with the
presenters. In absolute terms, voices
did sound a little hard-edged and
lacked texture through the NAT
05 XS. As a source of hassle-free
background music for entertaining the
tonal balance is not ideal either, the
well lit midrange is a disadvantage in
such circumstances as it gives the
impression that the radio is talking
over your guests unless you play it very
quietly indeed. As a tool for serious radio
music listening it is an essential audition,
however.

CONCLUSION

If you have a Naim
XS system (or even a
subsonic part of it)
then the NAT 05 XS is
surely an excellent
addition. At a price
which is sensible
when set within the
court of your overall
investment it makes the
system a far more
useful asset, as you will
get countless hours of
extra pleasure without having to
wangle with the internet or
suffer the sonic
disappointment that is
DAB. In such a system
the FlatCap XS power
supply may also be
worth a try but in a
non-Naim setup the
money may be better
spent elsewhere, a
first class aerial system
for example, as the
internal power supply
arrangements appear
more than adequate as
they stand.

For non-Naim
owners contemplating
purchasing a NAT 05
XS, then those who like a detailed and
analytical sound, or people running
systems which are naturally on the
softer or warmer side, will like this tuner.
It's definitely worth an audition, the
well designed signal interface means
that there should be no matching
problems with a wide range of
partnering equipment and although
the styling is unmistakably Naim it is
discrete enough not to clash with
whatever you choose to use it with.
All in all then this is a fine and
welcome new FM tuner, which these
days almost puts it in a gang of one.

MEASURED PERFORMANCE

Frequency response of the NAT 05 XS,
seen in our analysis, extends from
36Hz flat up to 13kHz, fairly truncated
limits. Whilst most tuners are flat down
to 20Hz or lower the NAT 05 XS rolls
down below 80Hz and is -2dB down at
20Hz, a characteristic likely to make
for a smidgen of lightness in low bass
against a decent alternative, like the
(now discontinued) Creek T50. A 19kHz
pilot tone filter rolls off upper treble
and is responsible for the 13kHz upper
limit. It is possible to reach 16kHz
without having to expect to see
-72dB or so these days.

The NAT 05 XS will sound clean but
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To celebrate thirty years at Marantz, Ken Ishiwata has come up with the KI Pearls, an SACD player and integrated amplifier combination limited to just five hundred units. David Price suggests you shell out on them...

Were it almost any other hi-fi manufacturer, the idea of producing a strictly limited edition product to commemorate a key member of staff's anniversary might seem a rather vainglorious gesture, or to put it another way, just a little naff. But somehow such considerations don't figure when you're talking about Ken Ishiwata. He's a flamboyant character alright, but not in a prepossessing or arrogant fashion; actually he's very self-effacing in a characteristically retiring Japanese way.

Meet him and he comes over as a modest man, yet of course he doesn't have much to be modest about. He's worked for Marantz for three decades now, and has contributed immensely to its modern identity; so much of the company's essence has his imprimatur stamped through its centre like a stick of Blackpool rock. So, okay then, yes - it's alright for him to commemorate his own anniversary in this way, just as you wouldn't begrudge Steve Jobs for platinum plating a 2012 iPod, and putting his signature on the back...

The launch of the Marantz KI Pearls several months back was a suitably auspicious affair at The Ivy restaurant in London's Soho, with Ken making a captivating speech to a room of assembled journalists in which he traced his career trajectory, beginning by pointing out that he was born in 1947, the year before CBS in the USA officially introduced the mono LP: "But they had started to promote the format in 1947, the year I was born! What a coincidence!"
added with glee.

"It triggered many enthusiasts to make good music playback systems at that time, like Marantz and McIntosh", Ken told us all. "Stereo LP was introduced exactly ten years after mono LP. That's the period founder of our company Saul B. Marantz introduced the legendary Model 7C Stereo preamp, Model BB Stereo Power Amp and Model 9 Mono Power Amp. In my opinion, music is the highest form of art we humans have created. The way music touches you is so strong; there's no other art which give such emotional movement like music."

Ken recounted to the assembled Ivey crowd how he built his first mono amplifier when he was ten years old. "I used to play the violin and I wanted to hear old masters like David Oistrakh and Jascha Heifetz, but hi-fi was too expensive for me and for my family, so I built the amplifier myself!" He remembered how when he was in high school, he had a friend whose father was an audiophile, who one day invited him to listen to his system. He'd heard it before but this time it was special. "That day, when he played the same LP I knew before, it sounded completely different! It was a Julie London album, and that day she was standing there in front of me! I'd never experienced something like this with hi-fi", he added.

What had changed, the story goes, was the Marantz Model 7C preamp. With its prohibitive price, Ken couldn't afford one but his friend's father kindly lent it to him. "I brought the product home and opened the unit and started to copy the circuit diagram", Ken confessed. "It took quite sometime to get all the parts but finally I'd managed to get them all and started to make a copy. I was so anxious to listen to the preamp when I finished it, but the sound was not the same... Then I started to exchange parts, like tubes, resistors, capacitors and so on, and found that when I replaced one part it all sounded completely different! Then I knew making good sounding hi-fi is not a simple thing at all, but I learned so much from this experience."

Ken's first industry job was for Pioneer."I was sent to Europe. and was shocked to find so many wonderful products were there. Especially I was impressed with Braun. Yes, today they make shavers, but at that time they were making very high quality hi-fi with wonderful design, they were competing with B&O. What surprised me most was their tuners, which reproduced wonderful sound from AM! This was the period I also experienced incredible British hi-fi. Does anyone remember the Ferrograph S2 speaker system? It made a wonderful stereo image! Of course there were Garrard 301 turntables with SME tonearms I loved so much."

Sadly my time with Pioneer was ended after some years in Europe, but I didn't go back to Japan", he continued. "In 1978 I joined Marantz Japan, and started to be involved in their new products, including the Marantz European speaker line. The first product I did was LD-50. This was the also the period Marantz introduced the ESOTEC line, which was a true serious attempt of Japanese Marantz in the high end area. It included the SM1000 400W per channel stereo power amp, the TT-1000 glass turntable and SC1000 preamp", he said. "Right after this, Marantz's parent company Superscope US was in financial trouble and finally sold Marantz to Philips in the Netherlands. It was a wonderful opportunity for Marantz since it coincided with the time of CD's introduction. I was very lucky to be able to learn Digital Audio from Philips engineers. As I was able to speak English I was very often visiting Philips engineering with other Japanese engineers. Up until that time I was only involved in analogue audio, and didn't know anything about digital. But because of this experience combined with analogue knowledge I already had I could work on CD players. About this time founder of Marantz, Saul B Marantz, contacted me and said, "Ken I have done as much as I could with Mono and Stereo LP, it's your turn to do something with Compact Disc"."

"Ken I have done as much as I could with Mono and Stereo LP, it's your turn to do something with Compact Disc".

Well, Ishiwata of course did something with CD, putting the lessons learned when trying to copy that original Marantz preamp - namely that component choice is critical, way beyond them just being the right electrical specification - into the practice in the new digital age. What followed were a range of Marantz versions of Philips CD players, lightly but very carefully breathed on to give a more palatable sound. Given that Philips was doing some of the very best players at the time, the electronics engineering and mechanisms were second to none, this was a great base for Marantz silver disc spinners.

The Ken Ishiwata Signature range of Marantz machines put him, and Marantz, on the new hi-fi map. But it was all a result of happenstance; a combination of different factors that just came together at the right time. He takes up the story. "You may remember Philips technology was based on 4 times oversampling digital filters, but using a 14bit DAC. The Japanese weren't using oversampling technology but they did manage to communicate the fact they were using 16bit DACs, and 16 is better than 14! The other sophisticated technology, like digital filtering, was too complicated for normal consumers to understand, so the Japanese won against Philips in the public imagination. Of course Marantz was using 14bit DACs, and couldn't sell any more machines in this environment. I was having lunch with the UK management, who were talking about being overstocked with two thousand 14bit machines they couldn't sell. The MD said we should 'dump' them for £100, but I said no!"

Instead, Ken modified each machine, and asked £50 extra for each one. Spending around £8 per machine, he remembers, made a far more musical player which received "raving reviews"; as KI quaintly put it, and the two thousand units were duly gone in two weeks! "After that, I've done so many UK Special Edition CD players", he added sheepishly.

This is why we are where we are now, with the Marantz KI Pearl SACD player and integrated amplifier. Had Ken never come to Europe with Pioneer in the nineteen seventies, or had Saul Marantz never nominated him to work magic in digital, and had Superscope never sold Marantz to Philips, then none of this would have happened. And moreover, had 16bit not ousted 14bit in the public mind
circa 1985, Ken Ishiwata might still have been a backroom boy! The Pearls are his monument to himself made real. They’re unique, and limited, and designed very carefully to work together. “I simply wanted people using the KI Pearl to have the same experience as I did all those years ago, listening Julie London on my friend’s father’s Model 7C preamp,” added Ken. And each Pearl purchaser gets a special 30th anniversary book, plus a special SACD recording, made by the man himself, of old Jazz standard numbers (for information on this, see www.marantz.com/kipearl).

SHELLING OUT

Most obvious, from the outside, about the Pearls is the unique ‘silk black’ finishing. Many people reminisce fondly about the ‘glory days’ of Japanese high end, when every product came immaculately finished with battleship build. Well, they’re not over, as these separates show. Actually, almost everything Marantz makes north of £1,000 has such a lovely finish (and the cheaper ones are still excellent), but the Pearl finish is even better still. It’s not just the chunky brushed alloy front panels either; as the entire cases are immaculately presented and the tops hewn from 5mm aluminium. The controls move with a silky action, with the ‘ambient lighting’ – if you can call it that – producing a faint blue glow either side of the front panel centres, is lovely too. The rear panels are just as well presented; ever there was an object lesson on how to ‘do’ a £2,500 separate, it is a KI Pearl.

Looking at the sizeable (440x444x127mm, 14.5kg) SA-KI Pearl SACD player in detail, it sports a nicely aligned disc loader with a damped Xyron disc tray; it’s not the world’s slickest but is still far smoother than anything else I’ve tried at the price. The feet are large aluminium affairs, and confer a sense of solidity, as does the heavy copper-plated chassis inside. “High quality audio components” are fitted inside, according to Marantz, and there’s a chunky encased toroidal transformer. The mech is an SACDM-10, driving a Cirrus Logic CS 4396 DAC chip, with a variable position digital filter (switched by a front panel button). Marantz HDAM-SA and SA2 op-amp modules are used. One great feature is the optical digital input, along with a front-panel-switchable DAC mode. The Pearl SACD will play stereo SACD and CD, plus MP3 and WMA discs. Whereas the silver disc spinner is a no-frills (switchable DAC aside) product, the PM-KI Pearl integrated amplifier is more of a jack of all trades. It’s most certainly not a stripped-out minimalist design, sporting as it does tone controls, a PM/MC phono stage and a good range of line inputs. Although slightly bigger (440x444x127mm, 20kg), it’s an excellent visual match for the SA-KI, and shares construction details, including the thick alloy top cover and feet, copper chassis with heavy bottom player and audiophile components. A symmetric parallel PCB layout featuring high grade audio components including Shottky diodes is used, along with HDAM-SA3 and HDAM-SA2 Hyper Dynamic Amplifier Modules and a large EI power transformer. There’s a low noise backlit LC display (switchable), tone controls plus source direct switching to take the tone controls out of circuit (recommended). Marantz claim 90W RMS per channel into 8 Ohms, and 140W into 4 [see MEASUREMENT PERFORMANCE]. Swish WBT speaker binding posts complete the picture around the back.

SOUND QUALITY

So, we’ve established the pedigree, the raison d’être and the build quality - what then of the sonics? Whilst it’s missing the point to treat each in isolation; they were after all designed as a system; I first thought I’d have a quick listen to each separately. Kicking off with the PM-KI Pearl integrated, I put it against my reference Yamaha speakers, the amplifier displaying very little in the way of transistor ‘hash’ that greys and sullies the sound. It’s a Class AB amp alright, but it doesn’t sound conspicuously so. A tad out of focus compared to the Class A Sugden it may have been, but it didn’t actually make it any less nice to listen to; quite the reverse in fact.

As for the SA-KI Pearl CD player all on its own, I again found it to be a most endearing performer. It’s ever so slightly cleaner and more transparent than the PM-KI in absolute terms; where the amplifier just takes the gentlest edge off the recording, the silver disc spinner is more incisive; but still I wouldn’t exactly accuse the SA of being biting. It’s a smooth, mellow machine but with an awful lot of grip under its gentle skin. Empire of the Sun’s ‘Walking on a Dream’, a knowingly retro piece of electropop (think Icehouse’s ‘Hey Little Girl’ done twenty years after the fact) was pure pleasure. This player isn’t full of bombast, desperate to pound out the music. As the Pearl proved an engrossing performer. Indeed, it was fascinating how something that’s not full of zing still has got such swing; the Marantz lifted along in a most believable and lyrical way. 4hero’s ‘Escape That’ was engrossing via my reference Yamaha speakers, the amplifier displaying very little in the way of transistor ‘hash’ that greys and sullies the sound. It’s a Class AB amp alright, but it doesn’t sound conspicuously so. A tad out of focus compared to the Class A Sugden it may have been, but it didn’t actually make it any less nice to listen to; quite the reverse in fact.

Where the reference Sugden is a warm and spry device, the Marantz is altogether softer around the edges. It sounds obviously warmer, smoother across the midband and more silky in the treble. There was a touch more low bass, too. But don’t confine this warmth with any lack of passion or "a wonderful combination to behold, my only criticism is that they’ll not be around as long as their creator..."
beat in an overblown way; instead, the song floated along in a delicate but emotionally engaging way. Bass was tight, taut and insistent (although not quite as powerful as, say, the £4,000 Accustic Arts CD Player I mk2, for example), while the midband was open and expansive. Those affected Bowie-esque vocals had just the right amount of edge, and the SA-KI conveyed the phrasing beautifully. Treble was silky and in time. This player proved interesting, inasmuch as it lacks the amazing power and forensic detail retrieval of high end Japanese kit, but possesses a lyricism and subtlety that the aforementioned Nipponese products often lack. It’s Japanese high end but with that’s dripping with human interest, course, it’s understandable that some tioned Nipponese products often lack. It’s Japanese high end but with.

As a system, rather predictably, the KI Pearls made sweet music. There are few - if any - £5,250 CD and amp separates on the market that work as well together. Of course, it’s understandable that some might be cynical about ‘the Ken Ishiwata story’ (after all it’s a fairytale that’s dripping with human interest, which of course makes for great PR), but listening to these two together show what’s possible when a serious audio engineer gets to do something exclusively on his own terms. I slipped in Nick Drake’s ‘Treasury’ SACD and cued up ‘Hazy Jane’, then sat back basking in a creamy slotted in Nick Drake’s ‘Treasury’ exclusively on his own terms. I audio engineer gets to do something show what’s possible when a serious audio engineer gets to do something exclusively on his own terms. I

REFERENCE SYSTEM
Marantz TT1000 Esoteric-Origin Live Enterprise C/Lyra Titan turntable A.N.T. Audio Kora 3T Ltd. phono stage Sugden IA4 amplifier Yamaha NS1000M loudspeakers Yamaha Soavo 1.1 Piano loudspeakers

MEASURED PERFORMANCE

Frequency response with CD was flat, reaching 21.5kHz (-1dB) with little variation from flatness. This will give quite a shiny rendition from CD, one that is forthright and likely detailed. With SACD frequency response extended to 30kHz before rolling off slowly to 100kHz where it was -15dB down our analysis shows. With Filter 2 selected the rolloff was quicker above 30kHz – not easily audible. Distortion levels were very low with CD, with just 0.17% being measured at -40dB – a class leading figure. With SACD this dropped to 0.02%, again a very good result. The player was able to resolve a -100dB tone with SACD, with just 5% distortion, an exceptional performance typical of DSD code and one reason why SACD sounds so good. Dynamic range with CD was very high at 112dB and output a little high at 2.5V. There was some small amount of signal related jitter output, a -80dB, 1kHz tone producing 70pS jitter, where 30pS or less is possible. The KI Pearl CD/SACD player offers fine results, as expected. It is a sophis-

FREQUENCY RESPONSE SACD

MEASURED PERFORMANCE

The Pearl amplifier produced a healthy 112 Watts a side under test, increasing to 182 Watts into 4 Ohms, so it has plenty of power for everyday use and will drive any loudspeaker to high volume even in large rooms. Although distortion levels were very low, measuring 0.03% at 10kHz, 1W for example, it did comprise classic crossover, so the Pearl does not try and eradicate this phenomenon as some modern designs do. Having a very high damping factor of 91 suggests a lot of feedback is used and it will likely have tightly controlled ‘dry’ bass. The MM and MC phono stages are accurately equalized, frequency response stretching from 13Hz to 100kHz (-1dB) and the MC stage has x10 more gain than MM, which is much as expected. There is no warp filtering so bass will be extended. Noise was low and the input load for MC 100 Ohms so this amplifier will work well with modern cartridges.

The KI Pearl amplifier measures well, and seems to be a classic high feedback design. NK

AMPLIFIER DISTORTION

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M6i Integrated Amplifier
200wpc integrated amplifier. Balanced inputs. USB. Home theatre bypass.

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24bit/192k true upsampling CD player. 3 digital inputs.
Letter of the Month

BALANCED RETORTING

Please could you advise on my situation? I have installed the last spare stylus for my Shure V15MR cartridge, which I bought and kept on the news that the V15MR was about to go out of production. So in the near future I will need a complete replacement cartridge. What would your recommendation be?

I have considered another moving magnet like a Goldring 2500 or an Ortofon 2M Black. Alternatively, I could move to a moving coil which I have avoided so far due to the cost. Maybe this is a time to consider a moving coil and if so the budget I have in mind is £700 to £800 maybe £1,000.

I have recently acquired a Clearaudio Balance+ with a battery power supply which to me represents the best way forward for a disc stage, as it offers balanced operation from a very quiet low interference battery power supply. I am still sorting out balanced cabling for the Clearaudio and using phono to XLR adaptors, but even this arrangement demonstrates the benefits of balanced operation. With this quality disc stage a moving coil cartridge would be worth while.

The rest of the system is a Michell Orbe and SME V, Cambridge Audio 840E preamplifier, two bridged Myryad MA 240s and Centurion kit speakers from Wilmslow Audio. The whole system is connected using balanced XLR cabling and operates from a balanced isolation transformer. As you can tell I am a believer in balanced operation.

Peter Graves

Hi Peter. Pickup cartridges are ideal candidates for balanced operation and this type of connection only makes sense. It's a pity that as yet there is little demand, primarily because few phono stages offer a balanced input and few arm manufacturers offer balanced wiring. My first encounter with this was the Aqvox 2Ci phono stage reviewed in our March 06 issue. Now Clearaudio have the Balance+. Obviously, German engineering has recognised an opportunity that the rest of the world has yet to appreciate.

I used adaptors for a short time but occasionally suffered intermittent contact and got better results with a dedicated lead from my SME 312. SME offer balanced connecting leads.

With an SME V arm and balanced connection your set up is ready for a decent moving coil cartridge and as I love using the Ortofon Cadenza Blue (£1,000) at home in an SME 312 this is what I would recommend.

Clearaudio Balance + phono stage, MM and MC, and with balanced inputs and outputs. Price around £1550.

NK

There's no doubt in my mind that, given the quality of the rest of your system, it's now time to 'go' moving coil. Great as the Shure was, by spending around £600 on a Lyra Dorian, for example, you'll get vastly improved detail, dynamics and a sense of the music being far more natural and less mediated. With its rising upper treble, this Lyra isn't everyone's cup of green tea, but the highly inert and well damped SME certainly 'contains' the situation better than most tonearms, letting the Lyra's brilliance flood out. If you're seeking something a little more 'organic' sounding and less incisive, then go for the Ortofon as per Noel's recommendation.

PIMPING MY PS

Hi. I am writing to thank you for the advice you gave me in your October 2009 issue. I wrote asking about the merits of cheaper MC cartridges in my all Rega set up (PS, Mira3 and R3 speakers, plus Apollo CD player). Having read, learnt and inwardly digested your advice, I decided to go down the "high-end Moving Magnet" route. But also what came over loud and clear in the advice was the importance of a good phono stage, although I was unclear about what the benefits were likely to be. Therefore I could not justify blowing £600 on the phono stage recommended to me, but I wanted to make sure I went one better than the phono stage included in the Mira 3
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All These Years’ were magical, yet an amp had more body and realism. Considering my levels of the Mira 3 phono stage (that is saying Michael Jackson’s ‘Thriller’ through myself moonwalking whilst playing still listening to the 1042.1 nearly found 2M Black! found it impossible to keep the Goldring 1042 over the Ortofon after all.

This is actually quite a good one, floorstander says Noel. KEF 1050, a good compact amp. This is actually quite a good one, after all.

To cut a long story short, I preferred the Goldring 1042 over the Ortofon 2M Black. I found it impossible to keep still listening to the 1042. I nearly found myself moonwalking whilst playing Michael Jackson’s ‘Thriller’ through the Miro 3 phono stage (that is saying something considering my levels of fitness are about nil). Bass was gutster, treble smoother and instruments just had more body and realism.

Adding the Creek OBH 15 was a revelation. The Clearaudio Smart Phono that I originally thought about was good, but it was quite forward, which I thought would get tiring. The Creek seemed to bend itself to the mood of whatever I played on it. Paul Simon’s delicate arrangements on his ‘Still Crazy After All These Years’ were magical, yet an old sixties Reggae collection I have had for years. Particularly when listening to modern CD masters, there are certain bass notes which are over-powerful. They sound like the horn of an old fashioned steamer, and obviously have the effect of the music losing pace and grip. So, rather than try to extract another £50 or so from a gullible customer who believes spending money will solve everything, the assistant advised me on speaker placement and told me to save my money. I have followed his advice, and the problem is not as apparent now. We all find ourselves ordering goods from the Internet from time to time, but there really is no substitute for a knowledgeable and helpful dealer.

Thanks once again for the advice you provide via your magazine.\[Mark Pearce\]

Thanks for your views on the Goldring and Ortofon cartridges Mark, which I think readers will find useful. The Goldring is more bostierous than the Ortofon, the latter being more a precision listening device and perhaps a bit cool for some tastes. It’s a great cartridge for the price, and the Rega arm simply gets the best from it. These two give great results together. Creek always make a classy sound and the Creek phono stage will let through what the Goldring’s signal, without addition. Too many phono stages have lifted treble, easily achieved by tweaking the 75uS equalisation curve, to emphasise detail and this can be a bit tiring, especially with modern cartridges that commonly have plentiful treble in any case.

KEF’s iQ50 is a compact floorstander that may well suit. We also like the budget Q Acoustics 1050i, or you may want to raid the piggy bank for the new Monitor Audio RX8s. As always, do listen first because they are all very different in presentation, in spite of being well designed at a fundamental level. NK

**OPPO SERVER**

Until about six months ago I was quite happy with my Denon DCD-1650AR feeding a Lite Audio DAC-60 tube DAC. The sound was quite pleasant without too many of the digital nasties often heard with CD.

Then one day in early May of this year, Oppo emailed to say they had a batch of their new BDP-83 Blu-ray players available for immediate shipping. I have been impressed with what Oppo players offer for the asking price in the past and I wanted to see how well Blu-ray performed on my 4.1 surround system (I prefer the sound without a centre channel). So following the approval of my wife, I ordered one.

A few days later it arrived. I hooked it up and quickly started enjoying how it was performing both visually and sonically. Then I got deep into the manual, which informed me that this machine can actually be used as the central component in a music server system. The idea of taking all my CDs off the wall and sticking them in boxes in the garage was rather appealing. So I experimented.

After removing the BDP-83 from my surround gear, I connected it to my 2 channel system and went to work on assembling my own music server set-up. I bought a 630GB hard drive (the 1TB model I already had proved to be far too slow with this task) and loaded it up with my collection of over 800 CDs all ripped at 320 kbps (the maximum resolution the Oppo can currently cope with). I then bought a dodgy ‘name brand’ 20’ monitor to display track and file information (the interface is quite handsome and very logical) courtesy of Oppo’s HDMI output, hooked it up to my DAC with my home made silver coaxial interconnect, and since then all...
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For the very latest information please visit www.bristolshow.co.uk
The Oppo's DAC is no slouch, but my Lite Audio DAC adds warmth and greatly improves imaging and dimensionality. I occasionally connect the Denon back up to the DAC to see if I'm going a bit hat-stand, but the music server invariably wins out. All the added convenience of the music server's interface is a very welcome bonus. There the Oppo shall stay. I have since bought a Sony BDP-S550 to take the Oppo's place in the surround system.

Here's what I need explaining: why is it the songs I ripped from my CDs now sound substantially better via this music server set-up than they did when the Denon CD player was acting as the transport? The Denon sonically out-muscled numerous other players used as transports; a Panasonic DVD-A310, a Marantz CD63se with a Trichord Clock 4 + PSU and a Sony CDPX339ES, but doesn't come close to offering the smoothness, richness and musicality of the music server. I really wasn't expecting the music to sound better, especially when you consider the 320 kbps compression.

My speakers are the brilliantly bouncy and revealing Martin Logan Aeon 1 loudspeakers and Oppo BDP-83 Blu-ray player. Small wooden blocks cut from 2 x 4 are a very effective and inexpensive way to lift speaker cable. Everything sounds less congested with the lifters, says Bernard. The lifters are made of copper, a very effective and inexpensive way to lift speaker cable. The lifters are made of copper, a very effective and inexpensive way to lift speaker cable. The lifters are made of copper, a very effective and inexpensive way to lift speaker cable. (This is just a reference to the copper lifters. It's crucial to mention the excellent Oppo BDP-83 to us Bernard: A European version isn't available and isn't going to be made available it appears, although the U.S. model can be used in Europe and is available in the U.K. for around £500, just under $1000 I guess. As I understand it this is a Region A (USA only) player, but most discs are region-free these days and it will play nearly all Blu-ray discs. It works on European voltages too. Anyone interested in the BDP-83 Blu-ray player, which also plays SACD and DVD-A via the HDMI digital output (and DVD of course) will find the manual Bernard studied at www.crprojectors.co.uk.

I asked Oppo Europe (Sweden) about this and they said that the BDP-83 was an import unsupported by them, and that their position is stated at http://www.opposource. co.uk/

I could only speculate that the Lite Audio DAC is affecting sound quality and setting the standard. 320kbps is quite a decent code rate so should not affect things too much; usually massed violins or an orchestra at full tilt stress compression systems most; ordinary music often does not, especially if it is Rock that has already been mangled by compression and peak clipping in a studio. NK

**FAMILY TIES**

When it comes to audio I'm a little spoilt. One of my earliest memories is of a four year old, my father sitting down next to his Linn Sondek and calmly explaining to me that just like me he had his toys, that this was his toy and it was very fragile and I was never to touch it. And I never did. I pushed in his tweeters instead!

The audio bug didn't bite until I was seventeen. Prior to that I associated audio with boring hours spent out the back of an audio retailer while my Dad talked copious amounts of 'crap', I mean 'technical audio stuff', with his mates. However at 17 after telling my Dad that I needed my own system for when girls came over and asking if he could recommend a mini system the answer was. "Mini system?", he said, then made a noise with his mouth like a sloppy bowel movement. I was to find this to be a defining noise in my quest; components that were marginal coaxed this noise out of my Dad.

After telling me that "no son of his would ever own a mini system, convenience be damned," he led me into the local Cash Converters store. There he walked over to massive nineteen seventies Akai receiver and picked it up. "The most basic rule of thumb with audio is weight" he said, feeling the heft of the Akai. "Feel this." he said, handing over the weighty component. "It means it has a decent sized transformer, and you're not buying a box full of air." We left Cash Converters with the Akai and some paper coned, two way speakers and returned home. The quest however had only just begun...

My dad promptly recapped the Akai and opened up the speakers, replaced the internal damping material and recapped the crossover. Holding up a plastic capacitor he said. "See this? This component is worth more than these entire speakers", before soldering it into place. Using my Playstation One as CD player (the best silver disc player up to date), I put the Oppo BDP-83 Blu-ray player, which also plays SACD and DVD-A via the HDMI digital output (and DVD of course) to it.

Since then my sonic odyssey has been like a nineteen seventies kung fu film, complete with a 'sensei' father who seems to like beating his student on the head with a bamboo stick for no apparent reason; not apparent to the novice anyway. (I should know, my first paying job was at sixteen as a Karate instructor. Hard to know which path has involved more pain...) Wonderful audio finds like a massive Denon direct drive with rosewood plinth were met with pronouncements like, "the motor unit is okay but it got a ridiculously complicated servo controlled arm that's just waiting to die. Get rid of it!" Entire B&O systems found in the chuck out were given "the noise" and dismissed as
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Time spent at my Dad’s audio shop became like time in a Dojo. In between listening to components like the BW Nautilus, big Electrocompaniet amps and CD players, etc., my father told me stories, like the Audio Note/Ongaku rubber.) And I could ask you what the moniker “broadcast quality” really means anyway (Lest we forget, the “old stinker” Denon DL103 is a Japanese broadcast cartridge.) I could say that the TT-S8000 being Sony’s best effort (it was) means nothing, not unlike the bronze medallist who “did his her best”.

Despite the resources Sony threw at the demonstration at a hi-fi show, where after the lights were dimmed and the incense lit, the mega dollar CD player repeatedly failed to read the disc! Or beers with Max Townsend, and cable evaluations with Mathew Bond (who later formed Tara Labs). When it came to evaluating components my Dad always told me, forget the hype, trust your ears.

My way of rebelling was to disregard my father’s strict advice on component choice and go on my own path. This was generally catastrophic but netted me a component I use and rate to this day, my Vacuum State preamp/phono stage. A minimal description of it over the phone (it was the designer’s own example in an unmarked, generic chassis) and my Dad knew exactly what it was and to my surprise said it’s an okay piece of gear.

As a result of my father’s retail connection and his insane audiophile friends, I’ve been fortunate in being able to listen to a huge amount of gear, and to be able to ask a lot stupid questions and best of all, to just absorb a huge amount of what it means to be on an audio path.

David, when it comes to your Sony TT-S8000 turntable, I could ask you what your published claims about it being rare and expensive have to do with its expense and rarity don’t necessarily make it a great deck, so it’s important to put things in context; it was this illustrious company’s flagship consumer turntable, and also made its way to many broadcast situations (indeed, my own deck came out of a Scottish radio studio).

If you think ‘Sony’s best’ means nothing, then I would suggest you learn more about the company, their products and their engineering pedigree - something that not even Matsushita can match, I’d venture to suggest. One very good starting point is Akio Morita’s ‘Made in Japan’; a fascinating read. I fear that you, like so many others, suffer from a very parochial view of this company; with no knowledge of their brilliant engineering achievements right across the field of video and audio in the nineteen sixties and seventies. When you do your fieldwork, study the Japanese home market products; most of the company’s seminal designs barely got overseas...

I assume you’ve auditioned the TT-S8000 against the best modern (and classic) turntables in order to form your view of it as “MOR”?

Sony TT-S8000 – the company’s flagship turntable. To learn more about Sony read Akio Morita’s ‘Made In Japan’ says David, aware of the company’s achievements from his days in Japan.

What a fantastic audio upbringing you’ve had - stories fondly and eruditely told - I thank you for that. How I’d have envied you at school with a dad like that. Love him as I do, my old man’s passion was zoology, so many others, suffer from a very parochial view of this company; with no knowledge of their brilliant engineering achievements right across the field of video and audio; it was never the same after!

Regarding the Sony TT-S8000 turntable, you’re right to say that its expense and rarity don’t necessarily make it a great deck, so it’s important to put things in context; it was this illustrious company’s flagship consumer turntable, and also made its way to many broadcast situations (indeed, my own deck came out of a Scottish radio studio).

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Jason Kennedy
Hi-Fi Choice Dec '09 Issue

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Hi Cliff - a somewhat odd missive considering your usual high standards! Why do you think the AMS35i is ‘basic’? As you’ve not seen one or heard one, why do you think you’re entitled to describe it thus? The AMS35i is a superb device, and probably the best match for my NS1000Ms I’ve yet heard; I’ve been moaning about never quite getting the right combination of power, grip, sweetness and musicality for years, and lo and behold the AMS35i comes along with it in spades! All the more odd that you should single it out for criticism, when you’ve spared so many lesser designs the poison of your pen! Agreed on your last point however; you seem to put in a wonderfully terse and ‘to-the-point’ way that just can’t be added to! DP

THE AMS35i - a great sound from Class A.

FEBRUARY 2010 HI-FI WORLD

MAIL

MOAN ALONE!
I hate to moan, but having read the review of the Musical Fidelity AMS35i amplifier in your December issue I feel that I have to comment.

I once owned one of their early Class A models, the A2. This was a big black thing which produced 25 Watts per channel, and broke down a few times! It cost £600. The quality it produced was warm and spacious. Seeing the £6,000 price tag on the new MF amp I’m wondering why the company can no longer make a reasonably priced product any longer? Apart from their basic range of headphone amp and DAC, the remainder of their range is costly compared to other manufacturers.

Surely £6K is asking too much for such a basic amplifier as the AMS35i!? Are the components inside of some special quality? And why use medical grade stainless steel for the badge, and solid milspec aluminium for the front panel? If cost has to be spent anywhere, then surely it should go on the innards? I can not help but think that there will be a remainder of their range is costly compared to other manufacturers.

Surely £6K is asking too much for such a basic amp as the AMS35i!? Are the components inside of some special quality? And why use medical grade stainless steel for the badge, and solid milspec aluminium for the front panel? If cost has to be spent anywhere, then surely it should go on the innards? I can not help but think that there will be a remainder of their range is costly compared to other manufacturers.

Three Problems

After hearing an unmodified and vaguely set-up Thorens TD 160 with K9 cartridge sound so full bodied and generally fantastic when compared to a Cyrus CD6, I realised I had to get a turntable.

My current one is a mildly modified Acoustic Research Legend (which is older than me) with Linn LVX Basik Plus tonearm and Goldring 1012GX cartridge. This runs through a Graham Slee GramAmp 2 into a Naim Nait 5i and out of a pair of Castle Eden speakers.

I have three problems and solutions but would really like to know which would bring the greatest benefit. I. Whilst the AR is fairly pitch stable, this is the one area my old Project Debut SE with Speedbox bettered it and one of my ears tends to pick up on. I am considering something like the Origin Live motor upgrade. 2. The GramAmp 2 is a bit laid-back for my taste and I would like something with a bit more get up and go. I have been looking at the Edwards Audio MC1 which I believe you are reviewing/have reviewed or a Naim Stageline but ideally I would like MM and MC as I plan on upgrading in the future. 3. Not as related as the others but compared to my Arcam CD72 the AR seems to lack in the lowest bass notes and I wondered if a change to a Rega arm would help with this as well as give general improvement.

I really want to know which of these would give the greatest improvement as I have about £350-£300ish to spend to can go for one option and tend to take a long time considering my options to the point where I honestly don’t know the best route to take or if something else completely different would more advisable!

Yours in hope of guidance,
Stuart Helm

An Origin Live DC motor upgrade would definitely yield an improvement in pitch stability, as well as an altogether faster, punchier sound. But you might like to try ‘the basics’ before you resort to serious surgery. First, try to source a new belt for it; a Google search is a good start point; there’s bound to be a huge cache of them somewhere in a warehouse in the United States. Expect the postage to be more than the belt cost! Next, thoroughly clean the main bearing and replace with Audio Origami’s bearing oil; make sure you also clean all surfaces that come in to contact with the belt with isopropyl alcohol or similar. Finally, polish your mains plug pins and fuse with T-Cut and then clean with isopropyl alcohol. This might seem faintly ridiculous, but in my experience does slightly improve wobbly old belt drives whose power supply is being impeded by decades of scunge on the contacts.

The phono stage I’d recommend is the ANT Audio Kora 3T; it’s superb at the price and should pep things up musically speaking, but not in terms of tonal balance. Switching to the Goldring G1042 stylus (very simple change) would help your front end usefully too. An OL modded Rega arm, or indeed an Origin Live OL I, would be a dramatic improvement on the old Linn LVX+. This was not a great arm, and was very much a ‘get you going product’; alternatively, if you can find a mint secondhand Linn Akito arm for £200 or so, it would go straight in and be a great upgrade to the LVX+. DP

HONKING HORNS

The November Hi-Fi World article, Special K, about the venerable Klipschorn brought back memories from an evening over three decades ago when I met a very special early British audiophile, Percy Wilson. Work was slow that day and I phoned a good friend, Bud Fried, of IMF and later Fried speaker renown. Bud was always good for a fun audio discourse and during the conversation the subject swung to ‘guess who’s coming to dinner?’ He told me he was holding a dinner that evening for Percy Wilson and his wife. I didn’t know who Percy was at the time and Bud explained that for decades he had been at the forefront of British audio including becoming the technical editor of Gramophone magazine in 1924. And
by the way also attending the dinner were David Hafler of Dynaco, Ortofon and Hafler companies, and Gordon Holt of Stereophile magazine and their wives. Would I like to come out for drinks and dinner if he could get another seat at the restaurant?

A little after five that evening I found myself on Route I in the midst of Philadelphia rush hour traffic cursing all the way convinced I wouldn't make it to Bud's home in time. Of course, I did and Bud had obtained another seat for me for dinner and off we went to the restaurant.

Klipschorn - a folded horn popular in the U.S.

That was quite an evening. I not only met everyone but I got to know Gordon Holt and we became good friends. But that is another tale and this letter is primarily about Percy and horns, a subject that he was quite well versed in.

Percy was a distinguished and interesting person. I recall two stories of crazy horns. There was the story about the audio enthusiast whose wife went away for a couple of weeks and while she was away he built a very large horn speaker in one side wall of a room in their home. He covered it with an attractive, acoustically transparent cloth hanging and when his wife returned he showed it to her proclaiming look what I bought for you, dear.

The second story was about another rabid audio enthusiast whose wife agreed to one last crazy project which was another large horn speaker that was literally the roof of the listening room. The horn was constructed of metal and to dampen it acoustically the metal was covered with tar. But it was one of the hottest summers in a long time in England, and people came from miles around to view the melting horn.

And finally there were Percy's two 'do nots' of proper bass horn design. You shouldn't fold a bass horn and you shouldn't make it from wood. The Klipschorn was never mentioned but it's obvious that Percy was referring to it and that he had problems with the compromises it made. Folding leads to discontinuities is the smooth change in cross sectional area of a horn. And these discontinuities produce resonances that Percy found unacceptable. I have a friend who spent a lot of time working with transmission lines and he made the same points about folding a line stressing that the folds needed to be formed as smooth curves to ameliorate this problem. And Percy felt that wood was too resonant a material for a bass horn adding too much coloration to it. Bass horns are very susceptible to mechanical resonances. I recall an article in Hi-Fi News by John Crabbe about the second set of bass horns he built into his home (they were straight, by the way). They were constructed out of concrete to minimise mechanical resonances. But when he tried them he found even this format was not acoustically dead enough and he was forced to reinforce them further.

I personally suspect that the Klipschorn was not so bad as these two warnings suggest, that it simply wasn't a compromise that Percy could live with. And that the benefits of making a horn that people could afford and that would actually fit into some real rooms was worth the compromises made.

At the end of the evening I got to drive Percy and his wife back to their hotel in centre city Philadelphia with the promise to Bud to tell me the Zanzibar fallacy, another good tale but relevant to this one. It was a grand evening. Each year I would ask Bud if Percy was coming to visit the USA again but I never got to see him again. But that evening was special.

Allen Edelstein
New Jersey, USA

DIGITAL CONVERSION

Ptd be grateful for some clarification. I'm in the market for DACs to upgrade my PC jukebox and have ordered an MF X-DMC and Cambridge Dacmagic. I would also like to upgrade my CD player (Theta Miles) and have noted your mention of the Stello DA100 signature. However, on Googling it I've found comment that the Russ Andrews DAC I is a rebadged Stello and indeed the former may not be in current production. I see you mention the DAC I in your "World Standards" section but the Stello is linked with the CD player, I have not been able to source the Stello DAC online and wonder if it is available in the UK. Could you please clarify.

Many thanks and keep up the good work.

John Rainey
Philippines

Hi John - the Stello DA100 Signature is my choice of sub £900 DAC right now, and an excellent upgrade to ageing mid-price CD spinners. At the time of writing, the manufacturer April Music Inc. is in the process of changing UK distributors, so it's best you contact them direct; they'll be able to give you the definitive answer! Call +82 2 3446 5561 or click on: www.aprilmusic.com. DP

BOOM-BASTIC!

My system comprises: Michell Gyro SE turntable, with HR PSU and Orbe clamp, an Origin Live Conqueror Mk. II tonearm, Benz Micro Glider L2 cartridge, Musical Fidelity A-1008 integrated amplifier and Mission Elegante e83 loudspeakers. And a REL Storm subwoofer. Cables are Chord Anthem 2 interconnects, Chord Epic Super twin bi-wire speaker cables, Isotek Vision II filter, IsoTek Optimum power cord and an Astoraza Equinox Rack. It is all mounted in a living room

New York, USA

For a "jaw dropper" of a system, try Usher's spectacularly good BE10 loudspeakers.

relax in the knowledge that you'll have oodles of clean, smooth power - which is a rare luxury indeed. DP

Hi-Fi World February 2010
www.hi-fiworl.co.uk
of forty square metres.

I have read with interest the last review of the Musical Fidelity AMS53i in the November issue of Hi-Fi World. Until the last year, Anthony Michaelson’s bottom line was that with loudspeakers having normal sensitivity, you are going to need at least 500W to reproduce music’s transient peaks in your listening room at a realistic level. Therefore MF produced amps with 250W, 550W and 750W.

Now, suddenly, MF is producing new amps with only 32 Watts. Has Mr Michaelson changed his mind?

I remembered a huge improvement in bass performance when I changed my amp and increase the power from 100W to 250W. Suddenly my Mission Elegante e83 loudspeakers started to fly and the bass became clearly more powerful and tight. But probably in a normal use it was not necessary to have such power as Mr. Michaelson recommended last year.

In fact, in my MF A-1008 amp the volume control never passed the 9 o’clock position with CD and only with the low output of my phono cartridge did I reach the 12 o’clock position.

Sometimes I think that the advantages in musicality, spatiality and resolution of the LPs over the CDs in my system are in part due to the fact that the amplifier is working at its best with LP and underpowered with CD.

I am even considering the purchase of the Rothwell Attenuators and use them between the CD Player and the amp. What do you think? Have you tried the Rothwell Attenuators? Are they going to reduce the dynamics or affect other characteristics of the MF A-1008 amp different than gain?

On the other side, I am considering buying the new Graham Slee Reflex C phono preamp or maybe your recommended Icon Audio PS3. Do you think they are a big improvement over the phono stage of the MF A-1008 Amp? Do you have any other recommendation?

Pablo
SPain

Hi Pablo, Rothwell attenuators will affect the sound little and allow you to turn volume up, often improving resolution on a logarithmic pot. track, making it easier to make fine adjustments.

The Icon Audio PS3 is an all-valve (tube) phono stage and sounds quite obviously different to transistor phono stages. It is smoother, darker sounding and atmospheric. It is my preferred choice of phono stage.

Yes, Anthony does seem to have had a change of heart! But quite frankly, product from most of the larger manufacturers comes accompanied by descriptive literature that is full of - how you say? - cojones! Anthony might be subject to changes of mind, but his heart is in the right place and he’s more straightforward than most in the end. More importantly, whilst we didn’t exactly swallow his assertion that hundreds of Watts were not enough, we do measure power levels used during reviewing and can endorse low powers.

Better, I have been using an AMS50 for some time now and can recommend AMS50 for some time now and can endorse David’s enthusiasm for these Class A amplifiers. The AMS50 is quite superb; funny how it sounds like a very powerful amplifier. How ironic! I hope to review it in our next (March 10) issue. NK

I think Antony’s previous contention that you need x amount of Watts to get serious sound was a simplistic one, but partially based in truth. Obviously, it’s the amp-speaker match that’s critical; a super-efficient Klipschorn simply does not need big power to go loud effortlessly, whereas an 82dB mini monitor needs masses. So power is only one side of the equation; it’s correct to draw attention to it, but it’s not the beginning and end of everything. Actually, with 91dB speakers (i.e. my NS1000Ms) in my medium sized room, the Musical Fidelity AP31Si (40 Watts approx) went plenty loud enough, and remained beautifully silky whilst so doing. I can see that in a bigger room with 82dB speakers, you’d need more, and that’s where Anthony’s super-power-amps would come into play. So it’s amp power, speaker sensitivity and room size that counts, and not just the former on its own.

The Icon Audio PS3 phono stage is superb, and a big improvement on the already fine onboard MF item; this would be my recommendation.

DP

Coming soon - a review of the Musical Fidelity AMS50 Class A power amplifier.

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DP

TIME PASSAGES
For the past twenty five years I have owned a Pioneer SA 5500II coupled with a pair of little known(?) Tangent TM 2 loudspeakers. Recently I bought a Pioneer P-D9J SACD player which I am very happy with in the above system. I thought it might be time to change my amplifier and as I liked the CD player so much I bought the matching A-A9J integrated. This has been a little disappointment. It doesn’t sound as good as my old amplifier which has more bass and is much warmer and clearer. I can’t quite believe that this can be the case. I did notice that input sensitivity on the A-A9J is 200mV rather than 150mV on my old amplifier and thought that this might be ‘overdriving’ the input stage somewhat. The question is - should I find a new amplifier and keep my old speakers or would changing my speakers make the A9J sound more musical?

I hope you can help.

many thanks

Philip Coles

Hmmm... the perils of life! The two new Pioneer separates are of course electrically matched, so there’s no issue here. The problem is that your old SA 5500 II came from an era where discrete transistors were king, with few ICs and no noisy digital bits onboard. The A-A9J is far more op-amp based, with all sorts of sound sullying adornments and complexities. It should produce a more detailed sound, but will also sound thinner and possibly harder too. I’d suggest you change the Pioneer for the likes of a Leema Pulse, which is a far more ‘old skool’ sounding production, and also audition the super new Sugden Mystro. Anything less than these and I fear you won’t be content. DP

POWER PROBLEMS
In the December 2009 issue there are a number of letters which deal with power supplies and mains and their effects on systems. As noted from your reply this can be a little more complicated than at first glance and things like the distance from the grid supply and also the density of users (rural areas have many less people on the same grid so are sometimes cleaner supplies as a result. Given these variables could I make a suggestion for a feature that may well be of interest to many of your readers? Currently there are two digital out iPod docks, Wadia and Onkyo. The Wadia unit as expected from that company is expensive (relatively) but would be expected to be of good quality which the reviews seem to confirm. The Onkyo while fulfilling the same function is a much cheaper item and from the reviews in your magazine is still very good but not quite as good as the Wadia, at least I think that is what your reviewers are saying though I am not
sure if a direct A/B comparison has been done.

What the above both have in common is a pretty standard wall plug power supply which while adequate is not exactly the very best. Now Russ Andrews make a replacement for the Wadia and are currently looking at doing one for the Onkyo, so this could be a very good opportunity at a very basic level to see what difference just the power supply can make. Is the Onkyo plus uprated power supply better than the Wadia with its basic out of the box plug? Does the Wadia still sound better if both have upgraded power supplies? Could a DIY kit made by your World Design wing offer something even better than the RA equivalent?

There are certainly a number of themes and areas that could be approached and just maybe there could be some sensible conclusions on the importance of power supply. If it works for small items with basic supplies like

Onkyo’s digital ipod dock; it hooks up to their receivers.

these two items, what does it do for more complex items such as CD players, amplifiers, etc.

Hope you do not mind this being a suggestion and would hope that you could consider it for the magazine or maybe just a letter response.

Andrew Ebel

Thanks for that Andrew. I am not sure it’s terribly useful to compare two different products when assessing the importance of power supplies; surely the obvious thing would be to try the effect of the uprated PSU whilst keeping the main product the same! Having done this many times - most recently with the new upgraded ANT Audio Kora 3T Ltd phono stage PSU - I can confirm the power supply does make a big difference to the sound and should never be neglected. If you’re ever in any doubt of this, just listen to the difference a SuperCAP or suchlike can make to a high end Naim amplifier! DP

MULTI CHOICE

I am toying with the idea of combining my hi-fi, Naim 112/150, Totem Arros, with an AV receiver, say a Marantz of some description, and getting another pair of ‘speakers to mount on the rear wall, I also have an IPL subwoofer (very good, you should try one).

I like the Naim type of sound and in order to retain as much of it as I can, would it be worth getting another Naim 150 second-hand, connecting both 150s to the pre-outs on the Marantz. I don’t want a centre channel as this seems to spoil the stereo effect on most of the systems I’ve heard. I realise I would not be using the Marantz’s power amps and you can live with the receiver driving all channels (Centre can be switched off as always, the signal being directed to Left and Right, in order to form a phantom ‘stereo’ centre image). If this is so, then you will not need to buy another Naim 150. Otherwise, it sounds as if you want the Naims driving the fronts and the receiver driving the rears. If you use different loudspeakers at rear obviously differences will increase and here I can’t predict whether they will be acceptable to you or not.

An attraction of modern AV receivers is they are able to process all signal sources, so you can listen to anything and everything, even LP as many have phono stages. Do not, however, connect up a CD player via analogue connections: it is common for the input analogue-to-digital convertor to overload at 1.8-2.2V and CD players often give more, so you’ll suffer input overload and distortion. Some receivers (inc. Marantz) do have attenuators to overcome this, but digital connection is the way to go. NK

RITES OF PASSAGE

Classic Cuts” (December 2009) recommends Stravinsky’s last recording of his ‘Rite of Spring’, quoting (I believe) the catalogue No. of the original US Columbia issue, which is likely to be very rare this side of the pond; the photograph shows a resuscite in a set, but also American.

I’ve not heard the first CBS UK issue (SBRG 72054), but the sound on
many of their pressings of the 1960s and '70s was poor, with incorrect bias! equalisation of the copy masters sometimes causing screechy string sound on recordings by Bernstein, Ormandy, Walter, etc., so seekers of used copies should exercise caution. Their American plant used a hard, almost brittle vinyl which gave a very clear signal.

R. Mark Hodgson

Dear Mark, I do agree that many of the CBS recordings of the 1960s and 1970s have a tendency to be harsh and screechy! The specific pressing I wrote about was part of the boxed set reissued by the Sunday Times.

The maximal toe tapping effect is required from the system and analytical dissection of the music can be done by others. My budget for the two components is approx. £2,000 and this can be divided as you see fit. So if you go brainstorming and partnering these items into a lean mean funk machine that I fantasize about.

Kimmo Päiväsaari

Finland.

My suggested line of attack would be to fit an SME Series IV tonearm in the Roksan, which is a known excellent combination. You'll find masses more detail, power and punch, the SME letting the Roksan out of the starting block to really do its stuff. The Rondo Bronze is an excellent stop-gap MC; later on you should look to upgrading to a Cadenza Bronze. Regarding your phono stage, I'd suggest you upgrade to its spiritual successor, as it were, the ANT Audio Kora 3T Ltd.: I'm currently beguiled by this £1,000 bit of kit, it's outrageously good for the price and methinks a future classic. Don't be fooled by the dowdy, Creek-style case! DP

DELIghtful dealer

I would like through your esteemed magazine to tell people about my dealings with my local dealer. I was diagnosed with a rare form of lung cancer and cannot get out very much and after having chemo and radiotherapy I decided to get the best stereo two channel I could get. I know you say audition at your dealers but I was not fit to get up to my dealer (Moorgate Acoustics). I rung him up and spoke to Paul Hobson and explained to him the things I was thinking of. I had narrowed it down to two marques and he said he would send Adrian around to audition personally and has to be settled down in time.

Glyn Davis

London

A heartwarming tale; you wouldn't get that buying online! DP

POWER TO THE PEOPLE

Thanks for the excellent advice to invest in an Ikon Audio PS3. I recently acquired one through my usual helpful dealer with the Jensen copper foil paper-in-oil capacitors. We are still in the early stages of getting acquainted and I understand the valves will need thirty hours to burn in but early signs are very good. It looks and feels the part and sits well between my Orbe SE and SME V combo and the (eyes still going strong) Rotel RA-03. Test listening 'Little Earthquakes' revealed Tori Amos' renowned production qualities in somewhat finer detail than even I am used to (and I know it well), Well-produced albums like Simply Red's 'Picture Book' and Talking Heads 'Speaking in Tongues' have been elevated to yet higher levels of detail, particularly where bass guitar definition is concerned. The whole presentation sounds quite bright but maybe that will settle down in time. I knocked up the bass trim on the RA-03 ever so slightly to compensate. I am really enjoying experimenting. In fact 'Super Trouper' is waiting on the sofa to be queued up the moment I press send on here shortly.

I enjoyed the letter in the latest issue on mains cables and conditioning. As you know this is a subject close to my heart. With regard to Noel's impressive and comprehensive reply, I would offer the following insights. Any distribution line will be subject to voltage fluctuations and these are mostly caused by reactive and resistive voltage drops in the system, and, to a lesser extent, harmonics generated by noisy loads as Noel has mentioned.

Before I joined National Grid, I was in charge of voltage control on the EDF Energy distribution system in London. Although the ESQC regulations and the British Standard, based on EU and CENELEC harmonisation agreements, call for a standard declared mains voltage of 230V, the tolerances from 2008 onwards were slackened to +/-10% so the actual voltage range is 207 to 253V RMS. This was agreed chiefly to allow fairly cheap electrical apparatus to be sold into all EU member states. It is fair to say that the UK electricity supply industry effectively took no action as our previous standard of 240V +/-6.8% almost lay within the new range.

You are quite right that in central London the system has a stronger source and higher fault level. In addition most customers sit very close to the main substation where the voltage target will invariably be 6.6kV or 11kV. Voltage drops at high voltage are simply discounted on the London system and the capacitive effect of much of the dynamic load, particularly in the West End and the City due to switch-mode power supplies in air conditioning etc actually gives a natural boost to the LV mains voltage level. The system in London is heavily interconnected on the LV and this gives maximum utilisation of
St John's Wood power station - not a power station, but a sub-station, says James Watson.

distribution transformers whilst helping to share load across LV mains feeders and dampening the effects of harmonics etc. Not to mention offering excellent security of supply.

The overall voltage level during the day is however, too high. I have been saying this for years. Most household equipment would function better and last longer on 220-230V rather than the usual 240-250V which most Londoners, including Hi-Fi World and Keywood Towers, experience. Many of the distribution transformers date from the early 1960s and as such were wound for 11,000/433V at no load. This drops to 415V on 80% rating and as such this is still too high as the declared three phase voltage should be 398 and not 415. These vintage transformers have no tapping switches or links to change and hence the only way to lower customer's volts would be to drop the main substation target to 10.8kV.

This is something I tried to bring in as a matter of policy and I did manage it in certain areas. However, I faced an uphill struggle educating our system control engineers, many of them used to working on more rural networks, that this was not low and was in fact the target in World War II. It wasn’t the most peaceful place to be, it seems!

James Watson

Mitch Long’s impressive 211 valve amplifier - something to keep the air con. working in Singapore.

Note the natty LCD display (inset) showing HT at 0.95kV. We hope the cat can read.

James Watson

To a simple layman like me a power station is a place marked by warning signs showing a man being felled by a giant zigzag accompanied by the words “Danger of Death, 220kV” or such like. Whether it is a power station with things going around and around or a sub-station without is less important that what happens if you take a leak through the gate on the way back from the pub late at night!

I also call Grove Road “the main bearing on the Technics 1210, (note the wood case) waiting for Dave Cawley.

My hi-fi is the modern world in reverse, it’s getting bigger and heavier but I wouldn’t have it any other way right now.

Mitch Long

Singapore.

PROGRESS

Having progressed from my first turntable bought in the 1950s, a Garrard 4HF running mono via a home constructed Baxendall based EL84 amp,
then onto a Pioneer PL-120 (stereo via a second Baxendall amp), my current turntable is a Toshiba SR370 direct drive with an SME 3009 S2 improved tonearm. Incidentally the word 'hi-fi' was not used back in the 1950s, the subject was just referred to as ‘quality sound’. The Toshiba is supported an Audio Technica adjustable, sound absorbent feet. The deck and arm were bought in the 1970s and are still going well. I have used an Audio-Technica AT-OC9 MC but am currently using a Goldring 1042 MM. I run either cartridge through a Pro-Ject Phono Box SE (the older cube shaped one). I have rewired the arm and bypassed the SME connector with Litiz wire supplied by Trans-fi Audio (the Terminatone tonearm people).

The wire and careful set up of the SME arm, especially the VTA that I have found over the years makes a large difference to general tonality, has considerably improved the overall sound. Bass is deeper and firmer, mids are more open and treble is sweeter and more defined. However, I read that the 3009 is “off the pace compared to current arms”. It is reported not to marry well with an OC9 moving coil cartridge and I am not sure of the Toshiba SR370’s abilities against current decks. So what to do?

Assuming the Toshiba is still used, which arm to use? I have been assessing the Hadcock 228 or 242, the Jelco SA250ST, the Rega RB301 and a few others via the internet and am now totally confused! Suspended decks, non-suspended decks, high/low mass arms, high/low compliant cartridges! Wow! Also do I trade in the OC9 for the latest ML version or do I upgrade the lot? I listen mainly to Pink Floyd, Jimi Hendrix, James Lees, Pink Floyd, Brian Wilson, The Beach Boys and enormous potential for future upgrading. DP

HUM ALONG

I was a bit annoyed by the hum from our Icon Audio M8845s and rang David Shaw at Icon Audio. He toddled round waving a pair of Cambridge Audio el cheapo twenty quid interconnects, connected them up and announced that our Chord Company Anthem and Russ Andrews 1011s were not magnetically shielded and that was the reason for the hum between the 845s and the Icon LA4 preamp.

Off went David with “job done” written all over his face. We listened for a while and found the detail and soundstage a bit lacking. We rummaged among our spare interconnects to find the ones that played the quietest through our speakers (Waterfall Victorias) and were least affected by the 845s transformer’s magnetic field. In the end we decided the MIT AVIs were the quietest. Then I wondered if I could shield the interconnects themselves with aluminium foil. By covering the interconnects with alloy foil the detail and soundstage improved. The soundstage and detail had improved by blanketing all the interconnects with aluminium foil. And the hum was much reduced.

My question is, are there any interconnects of reasonable veracity that can shield against the magnetic field of the 845s so that the speakers don’t hum?

James Lees

Hi James. I am sorry to say that I do not know the hum shielding abilities of commercial cables and have only encountered this problem on our test bench where I use Tributaries triple shielded cable. This is a U.S. brand and the cables are of impressive construction.

We do not suffer electrical hum between our LA4 and MB845s. And since the 845s hum a little in any case because they are directly heated triodes (with hum bucking potentiometers) I am surprised this is a problem. Are you sure this isn’t a matter of cable routing? We did initially suffer hum with the LA4 (and various power amps) but repositioning cured the problem. I suspect signal output cable impedance rises at low frequencies due to the presence of an output blocking capacitor, making it hum sensitive. NK

For an Audio Technica AT OC9 MLII buy a Michell GyroDec SE with Rega RB301 and be amazed, says David.
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When you first encounter the new KI Pearls, the first thing you notice are their unique 'Silk Pearl' finishing. The first of its kind in fact for Marantz. But it's the magic that Ken Ishiwata has created inside the box that really gets the pulse racing. He has built-in everything possible to ensure that the music is reproduced exactly as the original artist and recording engineer intended.

SA-KI: "Fed all manner of SACDs from Mobile Fidelity, Linn, Telarc and other admirable die-hards, the SA-KI showed itself to be a thoroughbred player reminiscent of the far costlier Esoteric devices, though the voicing differs. Marantz itself used the adjective 'silky' to describe the Pearls' black finish."
Ken Kessler, Hi-Fi News Sept 09

PM-KI: "The phono stage was open, quiet and precise, especially the MM setting, and in every sense - from vinyl to CD to SACD - the bass was consistently quick. Decay or transient stops down below were as progressive or abrupt as required, nigh on perfect, while well-recorded bass drum kicks were reproduced with a vividly detailed sensation of pedal, hammer and skin in motion."
Ken Kessler, Hi-Fi News Sept 09
"With a sense of great power plus extraordinary insight and resolution, it paints a strongly lit canvas of sound on which instruments and singers are portrayed with striking clarity. If you want to hear a rather special kind of valve amplifier this is one worth auditioning."

The Emilie Labs KI-40L Review by Noel Keywood, Hi-Fi World August 2009 Issue

Almarro, Dr Feickert, Emilé, Marten ModWright, Raysonic, Tri

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Noel Keywood shares his thoughts on Icon Audio's LA4 line level valve preamplifier...

On the Level

A cluster of octal-based 6SN7s on display in Icon Audio's LA4 preamplifier say much about its intended sound. The heart of any amplifier is the amplifying device(s) it uses and in this preamp they're very apparent. Okay, perhaps 6SN7s aren't exactly beautiful! — but they are lovely. Much as a brace of 300Bs or KT88s point to one sound or another, the easy natural warmth of the 1930s or the slightly more bracing delivery of the 1950s, so the sight of chunky 6SN7s says much about the sound of Icon Audio's LA4. It is a triode (two in fact) from the early days of valves, the 1940s, before a drive toward smaller size and lower power consumption took hold. Generous dimensions gave it low current density and low colouration as a result. It also produces negligible amounts of distortion, so feedback is not required. With the LA4, Icon Audio bring to market the classically 'easy' or fluid sound of the 6SN7 in a preamplifier, endowed with remote control of volume, at a price of just £699. Remote control of volume is through a motorised potentiometer.

The LA4 is an arresting proposition because it opens up a lot of possibilities. Most obviously you might think that its primary role is to partner valve power amplifiers. However, as the latter often don't need a preamp, it is transistor power amplifiers the LA4 is a useful partner for — and believe it or not that includes Naim; which I have found respond quite nicely to a valve preamp in front! We didn't need a Naim for this review however, as Musical Fidelity had proudly delivered a massive AMS50 Class A power amplifier some weeks earlier and the LA4 partnered it well. Of course, I also used it with our resident and much loved Icon Audio MB845 valve power amplifiers.

The LA4 is a nice, straightforward design that is compact and fuss free to use. Weighing a manageable 14kgs it can be easily lifted into place, and dimensions of 375mm wide, and 275mm deep we found easy to accommodate. A height of 170mm isn't much but it would not fit between some shelves in one of our racks all the same.

Valve preamps are always mild mannered devices that switch on quietly and this one was no exception. Power on is signalled by a bright blue front panel LED and by a blue glow from beneath the chassis, provided by another four LEDs in the base. As our pictures show, the base is raised up by four conical feet, and this gives room for the down lighting, but it also allows an upward air flow, although the LA4 does not run hot like a power amplifier.

The four switched inputs are all normal line level types, via unbalanced phono sockets at rear. There is no phono input so you'll need a separate phono stage for LP replay, and there is no balanced input nor a balanced output for connection to a power amplifier with a balanced input. Icon provide a tape monitor switch however, and there are two outputs, high gain (OUT1)
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and low gain (OUT2). The high gain one offers enough gain to suit most situations, for example amplifying the output of a low gain phono stage, 120mV or so, up to a strong enough signal for a power amplifier with 1V input sensitivity. The low gain output is needed between silver disc players, all of which give 2V out, and a sensitive power amplifier like the MB845, which needs just 0.5V. In this situation you can use a passive preamp like the Creek OBH-22 of course and I also used the Creek alongside the LA4 for the purposes of comparison.

You might think that a passive preamplifier with no valves or transistors inside has got to sound 'right' but experienced listeners would disagree. Let's say the two sound different, and the LA4 and other active preamps certainly seem to have more sonic appeal.

Supporting the three big 6SN7 double triodes that do all the donkey work are two smaller EZ80 double diode rectifier valves, each feeding a choke smoothed power line, one for each channel. Valve rectified power supplies certainly give a slightly silkier and darker sound free of hash, compared to the more common all solid-state bridge rectifier types. Whilst choke supplies give rotten d.c. regulation, anathema when you are suffering 'voltage regulator disease', they give zero noise and perfect audio band behaviour.

Icon's design approach is all normal, overground valve design practice, as we used at World Audio Design, and it is 'tried, tested and works' in my experience. There's no rocket science here, no boloney, no feedback (the circuit works properly in the first place!), as few components as possible to colour the sound, no voltage regulators (they tend to blow up when you apply 250V to them!) and not even hum buckets to play with. But does it work?

SOUND QUALITY
This is every bit a classic 6SN7 amplifier. The 6SN7 isn't a valve I have ever used in a circuit, but I have to agree with those that do use it – an increasing number of people – that it does have a lovely sound. By "sound"

I mean not much of one, other than a beautifully smooth, fluid and silky quality that is totally devoid of hardness, sterility or colour. The 6SN7 is real “essence of valve” in its sound, something so natural you can't easily identify its presence. You get an easy purity to treble and a natural decay to triangle, cymbals and metallic percussion instruments that draws little attention to itself. Yes, the LA4 is on the soft side of the fence; it doesn't have lacerative speed but here you have to be prepared to accept that it teases out every little whisper, every little intake of breath of Joan Armatrading singing 'Love and Affection' for example, and puts her into a sense of space that conveys a feeling of depth and dimensionality.

The absence of any light thrown upon upper midrange detail totally removes glare and the intensity with which filigree information is presented, but whilst the LA4 seems almost laconic as a result, it constructs a rounded and credible picture that’s not dominated by ear grabbing emphases. This is the 6SN7, a very mild mannered companion but also a svelte one, and its character is stamped heavily on the LA4 which, I am learning, is how Icon Audio and designer David Shaw likes it.

What you also get from the LA4 are firm dynamics, giving drums and percussion in the complexly orchestrated Yaleo, from Santanta's 'Supernatural' album on a 24/96 DVD-A, the ability to really punch out. There's plenty of bass extension and the LA4 has strong bass and generally a fulsome sound at low frequencies.

Changing to the classic Creek OBH-22 was interesting; dynamic perspectives fell back to yield a more distant and compressed sound stage and this underlined how well the LA4 could separate instruments and give each its own sense of projective power, so they pushed outward individually. However, the OBH-22 also showed there was some loss of low frequency insight through the LA4; it has plenty of punch and power, but bass lines were a trifle generalised; I could not really hear into instruments. All the same, take a dynamically strong and atmospheric delivery like Hans Theessink singing 'Mississippi' and the LA4 showed how it could capture and deliver his deliciously rich intonations right at me with a force and feeling that was utterly compelling. It's at times like this, when a performance sounds so grippingly natural that I know I'm listening to really good hi-fi product.

Over many weeks and under a wide variety of systems – such is a reviewer's lot! – the LA4 did a great job. It always sounded silky smooth, grippingly powerful and studied with detail, if not the sort fine stuff exposed by glare: artifice. It is at the other end of the hi-fi spectrum to any solid-state preamplifier, I have to say, and some may find it a little too – well – euphonic perhaps. I have heard more concise presentations from 6SN7s even, thinking about the Melody Pure Black 101D, but we are talking big money here, over £3K.

CONCLUSION
For what it is, Icon Audio's LA4 offers a lot of bang for the buck and will suit most systems, even those where it mediates between CD player and solid-state power amplifier as part of a hybrid setup. It's a great preamplifier, one that well captures the spirit of the 6SN7 and it is a preamplifier I would urge you to hear, for what it does is both distinctive and compelling.

MEASURED PERFORMANCE
The LA4 has a broad, flat frequency response that stretched from 5Hz to 100kHz (-1dB), at all volume control positions from zero to maximum. It needs to feed a load of 10kHz 0.01% minimum to avoid bass roll off.

Gain was high at x8 (+18dB) on OUT1, just enough to match most sources (minimum 120mV or so) to most power amplifiers for full output. Distortion was very low at 0.001% and output overload very high at 25V. At 1 o'clock on the volume control hum output measured 0.24V at 50Hz, which, after power amplifier gain (x20 - x30) becomes a high 5mV or so at the loudspeaker. No more than 1mV is a good rule of thumb, but this is only a problem with a 1 o'clock volume setting, and as gain on OUT 2 was a very low x1.58 (+4dB) an alternative volume control setting is available. In use slight hum was audible at the loudspeaker at 10 o'clock, but not at the 9 o'clock setting we used.

VERDICT
Gorgeous smooth, easy and dynamic sounding valve preamplifier offering excellent value for money.
MUSICAL FIDELITY

M6PRE
Fully balanced preamp. Inputs: Phono, USB, Balanced, 4 line.
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Soundbites

Monitor Audio Airstream 10 £220

There are countless DAB radios on the market these days, and ever more internet/DAB radio hybrids. The challenge then, for a premium priced product such as this, is to set itself apart from the fray by offering a unique user experience, be it through superior sonics, style or ergonomics. The Airstream 10 is certainly distinctively presented, with an unusual 'S' shape which allows the set to be placed both vertically for normal listening and on its lower side for desktop and bedside use. The rod antenna, which emerges from the 'top' of the set, has a hinged knuckle at its base so that it can be angled upwards whichever position is chosen. Placed horizontally the sound from the loudspeaker can disperse in the gap left beneath it, a clever detail, but for the best results vertical placement is recommended.

A true jack of all trades, the Airstream gives FM, DAB and internet radio, as well as working as a uPnP streamer, either from a cable connection or a WiFi link; there’s also a 3.5mm minijack line input for your iPod, Walkman or suchlike. A mains-only table radio, it comes bundled with a small external switch mode power unit. Our tests show it uses 6W of mains power even when in standby, so best to switch it off at the mains when not in use. It’s nice enough to operate, with a neat display and a feel of quality, although at this price of course that’s what's expected. Sonically, it’s pleasant with speech; Monitor Audio have obviously voiced it to give what in the old days would have been called a ‘rich tone’, as opposed to a neutral one. This flattered the middling sound of DAB, but we'd have liked a little more clarity for other sources. The FM section wasn’t the most sensitive, so aerial positioning is important, although the DAB section was better in this respect than many. What really adds value to the Airstream is its ergonomic purity; the preset tuning system is excellent, with four illuminated touch controls around the display that can easily be set to call up your favourite FM, DAB and internet radio stations. The result is an elegantly packaged, easy to setup and simple to use product that looks the part. DP

[Contact: +44 (0) 1268 740580, www.monitoraudio.com]

The Beatles Box of Vision £100

Released as an adjunct to The Beatles’ remastered CD campaign, this elaborate and luxurious licensed release is initially presented as a hard cover box. Within is a bound series of plastic coated ‘pages’ designed to hold each and every Beatles album from ‘Please Please Me’ to the ‘Beatles Love’ compilation. Each slot includes a picture of each album, so you know where to place it. The slots don’t get on with jewel or Anthology-sized cases, though - so you’ll need to remove the CDs from the cases before you store them. An LP-sized ‘Catalogue’ features the cover and track list information from every release from the UK and USA. Finally, you also get another LP-sized, 200-page, hard-backed book featuring all the artwork and liner notes from each UK and US-album.

The Box Of Vision set appears to be targeted at a very specific niche fan. That is, those Beatles fans who are buying the newly reissued remasters individually and who don’t have the current box sets (after spending all that money on the new box sets - I’ll be damned if Box Of Vision thinks I’m going to break my new pride and joys) or who feel that it is imperative to have the current releases stored, cheek by jowl, with the other CD releases such as ‘Let It Be... Naked’ (but why no special storage area for the larger Anthology/ BBC jewel boxes?). It is also useful for those who feel that the CD format is important but who yearn for the space and glory of LP-sized art and liner notes. If you fit within all of these categories or are a devoted Beatles fan and just must have every officially licensed product on the market, then this box is certainly for you. PR

[Contact: store.boxofvision.com, orders@boxofvision.co.uk]
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Effective 1st November 2009, all Roksan electronics and turntables supplied via authorised dealers are to be covered by a 5 year parts and labour warranty.* As a gesture to existing customers, this will also be extended to all current owners of K2 products.

In an age where product longevity and second hand resale values are constantly under threat, Roksan wish to reward their loyal customers by allowing their warranty to be transferrable from owner to owner. Thus, the warranty stays with the product from initial date of sale to 5 years old as long as it remains within the country of origin.

* terms available upon request

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A Nice Pair

Tim Jarman remembers Sony's superb little late sixties separates, the TA-88 integrated and matching ST-88 tuner...

Just look at this gorgeous little pair! Compact, beautifully finished and great sounding, they are the genesis of miniature hi-fi. Look at that modern system on the shelf in your bedroom or your den; it all started here...

Irronically the pairing started as just a single unit, the tuner. This appeared in 1967 as the ST-80, a visually similar model that was designed to be a compact add-on to a larger system that could bring the benefits of FM stereo reception without too much extra fuss. Small tuners of this period tended to be either battery operated or powered from a specific model of matching amplifier but the little Sony is a properly engineered standalone design with a built-in mains unit and a choice of two levels of audio output, just like a big tuner, only small. The ST-80 was improved in 1969 with a redesigned FM front end using field effect transistors (FETs); this version was designated the ST-80F.

A perfectly designed miniature tuner of course really needs a matching amplifier and this arrived in 1970. Known as the TA-88, this was styled and proportioned to match the ST-80F, now renamed the ST-88, perfectly. The TA-88 was only rated at 10W per channel but the design was pure early nineteen seventies high-end. In particular the power stages were DC coupled throughout with no transformers or capacitors between the output transistors and the loudspeakers. Controls and gadgets were kept to a minimum but that didn't mean that the TA-88 was sparse, a high filter, auxiliary line input and a properly engineered tape loop were all included, again being small didn't make the bonsai Sony think small.

In making the TA-88 and ST-88 a pair Sony turned an obscure product from the backwaters of the range into an icon of the period. Introduced into the UK at around the same time as the original 13" Trinitron colour TV, it helped to confirm Sony as the premier manufacturer of high performance miniatures, a reputation that they still enjoy today. The system was expanded further in 1971 with...
the addition of the SQA-100 quadruphonic decoder for SQ records. This component was not quite a perfect stylistic match for the other two units and is of limited usefulness nowadays; it's one for obsessive completists only. There never was a matching miniature turntable, cassette deck or loudspeaker for the TA-88/ST-88 but the PS-5520, TC-134SD and SS-5088 were all the recommended choices from the full sized range. Although competent by the standards of the early nineteen seventies none of these are particularly remembered nowadays and so would be very difficult to find if you wanted to recreate the whole system in its original form.

Even using modern ancillaries, how much fun are you going to have with a basic analogue tuner and a ten watt amp? Actually, the answer is a lot. Both units are beautifully built, a joy to handle and the use of standard RCA connectors at standard signal levels mean that setting it all up isn't that hard. Even the mains leads use IEC plugs so you can play about with special audio cables if you must, however for authenticity the original types with moulded-in Sony logos are the only real choice. The loudspeaker and antenna connections are rather dated screw terminals however, so you may need some special leads or adaptors made up to suit them. A CD player can go straight in through the AUX socket, they must have known...

The amplifier, like many early transistor designs, is slightly noisier than those of today and produces an ever present background sizzle but this is soon drowned out once the music starts. With such a small amount of power Sony have wisely rolled the bass off slightly early, this avoids wasting energy in the low frequencies that the expected small loudspeakers of the day would not be able to turn into sound anyway. Some small amplifiers get around this problem by boosting the bass response at low settings of the volume control but this approach can be a case of the cure being worse than the illness; the Sony may lack bass but its sound is honest and tight as a result – who wants to shake the walls and annoy the neighbours anyway? DC coupling of course makes the sound fast and detailed in the best Japanese tradition. You'd certainly never mistake it for smooth seductiveness of European exotica but if you like things analytical, then you'll really like it.

The tuner is also a gem. The circuit is pretty basic so a strong signal is needed for clean stereo reception, since unless the little green meter is up against the pin at the top of the scale things are going to be hissy, partly because the decoder is a simple regenerative type with no phase locked loop (PLL). Accurate tuning is essential if it is to work properly although a decent switchable AFC system helps with this and the nicely weighted knob and softly glowing tuning dial make searching for stations a joy. Switching to mono reception on FM disables the pilot tone circuit rather than simply summing the left and right outputs so a worthwhile improvement in noise performance can be gained this way. With a good signal the sound is open and detailed, it romps along better with pops rather than classics and is perhaps a little cold for the perfect enjoyment of Radio 4 but the way the simple decoder tears open the soundstage and draws you in is remarkable, an experience that isn't necessarily available with many modern designs.

Sony always worried hard on their AM stages and the ST-88 is no exception, clean results even late at night are not beyond it, even when only using the built-in ferrite rod antenna. The antenna angle can be adjusted slightly but the narrow cabinet means that it won't move very far, still, it's hardly a big set to turn round a little!

CONCLUSION
Of course, unlike some of the vintage greats the TA-88/ST-88 is never going to be a main system contender, not unless your listening room is very small. It's an excellent introduction to classic hi-fi though, that's reliable, easy to use and dripping with charisma and cool. Trawling audio fairs, car boot sales and of course eBay is the best way to track them down. All you then need to do is clear a small space on your shelf, sit back and enjoy!
Rafael Todes is your guide to six great classical recordings through the ages. Whether you’re already a connoisseur or just curious about expanding your musical horizons, give these a try...

**MOZART QUINTETS’ AMADEUS QUARTET WITH CECIL ARONOWITZ 2ND VIOLA**

DG 2740 122 (LP), ADD 000289 477 5346 9 (CD)

Mozart’s quintets occupy a special position in the chamber music repertoire. Whilst he wrote his quartets with Haydn looking over his shoulder, he never had the compositional freedom that he discovered when creating his own medium, the string quintet with two violas. He played many of his chamber music works with Haydn playing the second violin part, himself on the viola, and the six quintets represent Mozart at his most creative. Here is an early one, K 174, an arrangement of the Wind Serenade K388, and two pairs of quintets which are much later. These recordings of the works were made between 1968 and 1975 whilst the Amadeus Quartet was at the height of its powers. The vinyl recording captures the live sonorities of a quintet close up at full throttle - exciting, poetic, humorous and daring!

The G minor quintet (K515) is one of Mozart’s darkest pieces, the vast majority of his output being in a major key. When he ventures into the minor, it creates an overwhelming sense of melancholy. The slow movement contains one of the most haunting passages in the repertoire, played by the second viola like a voice from another world. Its pairing, the C Major quintet, by contrast is pure joy. An operatic dialogue opens the first movement, an amorous duo the slow movement - with the protagonists being the 1st violin and viola, lovingly played by Norbert Brainin and Peter Schidlof respectively. Such rich, noble sounds full of character are less frequently found in today’s interpretations, making this an essential purchase.

**MOZART SERENADES’, EDO DE WAART, NETHERLANDS WIND ENSEMBLE**

SERENADE K36 FOR 13 INSTRUMENTS, ‘GRAN PARTIA’ PHILIPS 799003

There is a scene from the film ‘Amadeus’, when Salieri hears Mozart’s music and meets him for the first time. Mozart is busy frolicking in a nearby chamber and rushes back to conduct his piece once the ensemble has started. They play the slow movement of the Wind Serenade K361 and in the words of Salieri, “the beginning simple, almost comic. Just a pulse. Bassoons, basset horns... like a rusty squeezebox. And then, suddenly... high above it... an oboe. A single note, hanging there, unwavering. Until... a clarinet took it over... sweetened it into a phrase of such delight. This was no composition by a performing monkey. This was a music I had never heard. Filled with such longing, such unfulfillable longing. It seemed to me I was hearing the voice of God”.

There’s an unfussy elegance to this superbly recorded 1969 classic. The recording is relatively simple and untampered with. The double bass comes across with highly realistic rasping sound, to underpin the texture of the twelve wind instruments. The texture and spacing of the instruments is so life-like and clear that it puts modern high resolution recordings to shame. Another Mozart must have!
Janacek was possibly the most misunderstood of composers. His style seems to have given birth to itself; it is like no one else's. Short fragments of music, almost like speech, with a huge range of rapidly oscillating lightness of touch, and always has a sense of purpose to his phrasing. Like a musical wizard, he keeps you guessing what he will do with a phrase. A superb package.

**JANACEK QUARTETS, THE HAGEN QUARTET**

DG 427 669-2 (CD)

Janacek was possibly the most individual of the early 20th century composers. His style seems to have given birth to itself; it is like no one else's. Short fragments of music, almost like speech, with a huge range of rapidly oscillating mood swings. His two quartets are programmatic; the first is entitled 'The Kreutzer Sonata' after the short story by Tolstoy. Two men meet on a long train journey; it transpires that one of the men has murdered his wife in a fit of jealousy, convinced that his wife was having an affair with her musical duo partner, with whom she was playing Beethoven's Kreutzer Sonata. The music has brutal sounds, which the Hagen Quartet embraces with relish, as well as the regretful moments, which they play mournfully. It's essentially an essay on the state of mind of the protagonist - very few composers could illustrate this range of anguish so clearly, originally and grippingly. The second quartet 'Intimate Letters' was written in 1928 and was inspired by his platonic obsession with Kamila Stosslova, to whom he wrote over 700 letters. It is extremely accurately and powerfully played on this superlative Deutsche Grammophon recording.

**MOZART SYMPHONIES 38-41, CHARLES MACKERRAS, SCOTTISH CHAMBER ORCHESTRA**

LINN 800112205 (SACD/DOWNLOAD)

The last four symphonies of Mozart represent the culmination of his symphonic journey, as it similarly does for the eighty four year old conductor Charles Mackerras! He chooses an orchestra of modern strings, playing with sparing vibrato, drums with hard sticks, valveless horns and brass instruments, and 'classical' phrasing throughout to achieve a period/modern synthesis that takes the best from both worlds. As in the string quintets earlier, Mozart pairs the anguished G minor Symphony no 40 with the more joyful C major no 41 'the Jupiter' his final symphony.

The slow movement of the Jupiter uses muted strings, an original effect - but in the last movement Mozart borrows a theme from the very first symphony he ever wrote, invents four others, and then in an act of unparalleled compositional virtuosity, runs all five themes together as if to exit the medium with a very large bang! Listening to this on a studio master available from Linn's website, the detail of this musical soup becomes clear in a way I have not heard before with the high resolution format creating a rock-solid sound stage with really precise imagery. It enhances the revolutionary colours and textures that Mozart uses, making it an essential listen.
STANDARDS

WORLD STANDARDS

These are the best products we’ve heard that are currently on sale in the UK, complete with the date they were originally launched and their current retail prices.

TURNTABLES

PRO-JECT GENIE 2 2008 £175

A masterpiece of minimalism, this is well made for the money and includes a decent Ortofon OM3 moving magnet cartridge. Great sound per pound.

REGA P2 2008 £220

Some say the cheapest real hi-fi turntable money can buy - excellent value for money engineering, easy set up and fine sound.

TECHNICS SL1200/11 1973 £395

Stick build makes it a respectable performer, although the cheapo arm limits it - fit a Rega RB320 and it's suddenly a brilliant mid-price machine.

REGA P3-24 2008 £400

Seminal affordable audiophile deck with fine bundled tonearm. Tweakable, and really sings with optional £150 outboard power supply.

MICHELL TECNODEC 2003 £579

Superb introduction to Michell turntables - on a budget. Top quality build and elegant design make it the class of the mid-price field.

ROKSAN RADIUS 5 2003 £750

Fantastic value allied to intelligent, interesting and 'out of the box' design makes for a wonderful entry-level superdeck. Open and musical sound is more inviting than Michell TecnoDec rival, and the bundled Nima Unipivot arm is a superstar.

FUNK FIRM VECTOR II 2009 £680

Innovative engineering gives a nimble, pacey and musical sound that's one of the best at the price.

MICHELL GYRODEC SE2005 £1,000

Design icon with superlative build and finish. Sound is beautifully smooth, effortless and exceptionally expansive. No longer peerless at the price, but still a brilliant platform.

AVID DIVA II 2008 £1,200

Commanding performer with great speed, dynamics and detail allied to an expansive soundstage; surely the one to beat.

AVID VOLVERE SEQUEL2007 £6,600

Stylish high end vinyl spinner with industrial strength build quality and a sound to match. Exceedingly neutral yet powerful sound is edge-of-the-seat stuff.

MclNTOSH MT10 2008 £8,995

Big, expensive, controversially styled and glows more than some might consider necessary, but an astonishingly good performer.

EAT FORTE 2009 £12,500

Lavishly finished two box, two motor turntable with gorgeous Ikeda 407 tonearm bundled. Exceptionally stable and unfussy performer with a relaxed but highly enjoyable pair.

TONEARMS

REGA RB251 1984 £136

Capable way past its price point, the new 3-point mount version of the classic RB250 serves up a raut and detailed sound. A little lean for some tastes, but responds very well to rewiring and counterweights modification.

MICHELL TECNOARM A2003 £442

The late John Michell's clever reworking of the Rega theme, using blasting, drilling and rewiring! Surely the best overall performer under £500.

ORIGIN LIVE SILVER 2006 £599

This expertly fettled Rega boasts a superbly even, transparent and tuneful sound. Gives away only a small degree of finesse and dimensionality to top arms.

HADDOCK 242 SE 2000 £649

Latest of a long line of unipoints, with added mass, revised geometry and better finish. Musical like no others at the price.

SME 309 1989 £767

Mid-range SME comes complete with cost-cut aluminium armtube and detachable headshell. Tight, neutral sound with good tonality, but lacks the IV's pace and precision.

SME SERIES IV 1988 £1,127

Offers nine tenths of the SME's magic at just over half price. Exquisitely built and finished, and a design classic. Faces stiff competition these days, but lovely nevertheless.
NOT TO SCARE YOU INTO BUYING A NEW SYSTEM:

DIGITAL DISC PLAYERS

CAMBRIDGE AUDIO

440C V2 2006 £250
Supercrappy level CD player; crisp, composed, musical sound plus fine build and ergonomics.

REGA APOLLO 2006 £498
Highly rhythmic and beguiling performer, although lacks some warmth of tone. Superb ergonomics and design.

RUSS ANDREWS DAC-1 USB 2007 £599
Not just a USB gadget, but a truly accomplished upgrade DAC that makes the best of CDs, MP3s and digital radio.

CAMBRIDGE AUDIO 640H 2005 £599.95
Fine sonic and decent build make this our favourite affordable HD music server.

MARRANTZ SA7001 KI SIG2 2006 £600
Brilliant CD/2ch 54CD spinner with a big, sweet, analogue-like sound — CD is totally competitive at the price with the best dedicated machines.

AUDIOLAB 8000CD 2006 £450
Ultra clean and transparent sound with great detail retrieval; just a tad bright and analytical for some, though.

SHANLING CDT-80 2005 £650
Very impressive mid-price machine with a big, sumptuous, expansive sound — better still when tubes are changed.

CAMBRIDGE AZUR 840C 2006 £800
Well built CD player with a silky, yet detailed sound and a whole host of useful facilities. Excellent value for money.

NAIM CDI 2008 £895
Naim's new italic 'I' variant improves even further on the original mid-price classic, offering super tight, grippy and musical sound.

EASTERN ELECTRIC MINIMAX CD 2005 £925
Highly accomplished tube-equipped all-rounder with a clean, open and musically lucid sound; superb value.

CYPUS CDS 8 SE 2008 £1,200
New Servo evolution mech makes this the most musically engaging machine at the price, with super smooth tonality to boot. Optional PSX-R adds bass and dimensionality.

BENCHMARK DAC-1 USB 2007 £999
Pro-biased DAC with useful range of inputs and impressive headphone outputs, too. Save £150 if you don't need the USB-equipped version.

ELECTROCOMPANIET PC-1 2008 £1,034
Tidy and polished-sounding CD spinner with strong bass and an assured sense of confidence.

STANDARDS

FEBRUARY 2010 HI-FI WORLD

75
STANDARDS

EXPOSURE 3010  2003  £1,200
One of the most 'analogue' CD players, second only to the Stanl...
NAIM NAIT XS 2009 £1,250
With much of the sound of the Supernait at half the price, this is powerful, articulate and smooth beyond class expectations.

SHANLING STP-80 2007 £1,199
Well built and surprisingly musical valve integrated, engagingly musical.

CREEK DESTINY AMPLIFIER 2006 £1,200
Superb build, useful power plus a deep full-bodied sound make this an excellent mid-price buy.

ELECTROCOMPANIEPI P1-2 2008 £1,430
Powerful integrated with seriously solid bass and impressive dynamic abilities. Superbly musical.

SUGDEN A21A S2 2008 £1,469
Crystaline clarity, dizzying speed and forensic detailing makes this seminal design the most musical at the price, but power limited so needs sensitive speakers.

ANATEK ASOR 2007 £1,600
Simple integrated amplifier with spectacular bass grip and effortless dynamics.

UNISON RESEARCH S62002 £1,625
Tremendously musical and lithe sound with real finesse and subtlety too. Very slightly upper mid forward encourages careful partitioning with ancillaries (Revolver R45s are ideal), but overall fantastic value for money.

MOON i-3RS 2008 £1,890
Grippy and clean performer with fine soundstaging and build quality.

COPLAND CSA29 2006 £1,998
Unfailingly sweet, sophisticated and smooth - both to listen to and look at - this is a truly desirable high and integrated.

NAIM SUPERNAIT 2007 £2,475
Technological and sonic tour de force from Naim that combines impressive functionality and connectivity with superb sound quality.

VINCENT SA-TI/SP-T1000 2006 £3,300
Impressively built and stylish pre/power combo that takes any kind of music and makes the best of it.

LUXMAN L-550A 2007 £3,800
Monster Class A integrated with powerful and revealing sound and a whole host of useful features, including a highly competent MM/MC phono stage.

AUDIO RESEARCH VS15S 2003 £2,895
The Naim NAP250's tubular alter ego; oodles of power allied to a strong bass and smooth open midband makes this a brilliant all round amplifier; lacks the subtlety and finesse of the low powered single-ended brigade but makes up for it with sheer brio.

LEEMA TUCANA 2007 £2,995
Leema's success story continues with this integrated amp that combines power, detail and great musicality in a solidly built package.

SUGDEN IA4 2007 £3,650
Goodly amount of Class A power, icy clarity and a breathtakingly fast, musical sound make this one of the very best super-integrates.

AV AMPLIFIERS

YAMAHA DSP-AX615SE 2007 £700
Highly capable A/V amplifier with mind-boggling array of surround sound options. Even has a decent MM phono stage!

ARCAM AVR350 2006 £1,500
Superbly accomplished do-it-all receiver package, with an uncommonly, warm, natural and musical sound. A winner goes from strength to strength.

DENON AVR-4308 2007 £2,000
Huge behemoth festooned with facilities and sockets, plus two remotes! Fortunately it's a brilliantly flexible and powerful performer.

NAIM AV2/NAP 150/NAPV 175S 2002 £4,190
Brilliant audiophile multichannel pre-power amplifier combo; not as good with music as a two-channel Naim set-up at the same price, obviously, but surprisingly close. Elegant control layout plus a strong, clean and brilliantly engaging sound make this a serious crossover product. Ultimately lacks power compared to similarly priced Arcam gear, but is more musically involving.

HEADPHONE AMPLIFIERS

CHANNEL ISLANDS VHP-1/VAC-1 £990
A truly exceptional headphone output stage; the best at the price and an essential audition.

MUSICAL FIDELITY X-CAN V8 2008 £350
Open and explicitly detailed sound plus serious bass wallop and the ability to drive anything to very high levels makes this a great partner for most mid-to-high end headphones.

SUGDEN HEADMASTER 2003 £600
Unusual combined preamplifier and headphone amplifier, this boasts a surprisingly smooth and open sound.

PREAMPLIFIERS

CREEK OBH-12 2000 £220
Brilliant value budget passive, giving little away in sonics to far more expensive designs. Connectivity and build aren’t great, but what do you expect at this price?

MF AUDIO PASSIVE PRE2003 £1,500
Effective pre with switchable gain via a transformer, and balanced operation. Open and incisive sound, yet makes most active rivals sound edgy by comparison. Silver version at twice the price adds transparency.

MODWRIGHT SWL9.0SE £2,000
Captivating sound quality that will transform your system. Build quality is equally impressive and value for money. Highly recommended.

NUFORCE P-9 2007 £2,200
Impressive two box preamp with superb resolution and an engaging sound.

MELODY PURE BLACK IOD1 2007 £3,295
One of the best preamplifiers we have ever heard. Takes the clarity and openness we expect from valves and adds a staggering level of grip and detail. Stunning.

MUSICAL FIDELITY PRIMO 2009 £7,900
Staggeringly expensive, but one listen explains why. Wonderfully exuberant sound that can only come from a top quality tube design.

POWER AMPLIFIERS

ROKSAN KANDY LIII 2008 £600
Fine budget power amp that punches well above its weight.

QUAD 909 2001 £900
The latest current-dumper has a smooth and expansive character with enough wallop to drive most loads. Not the most musical, but super value all the same. Lovely build, finish and Quad’s legendary service are nice.

NAIM NAP150 2002 £795
Driven by a decent source and a NAC112, this gives highly enjoyable results - providing you like the Naim sound! Taut, fast and feisty despite its relative lack of power.

SUGDEN MUSIC MASTER 2003 £1,300
Quintessential Class A Sugden sound is not warm as many expect, but extremely neutral and open with real tonal colour. Superb when partnered with efficient loudspeakers like Revolver R45s, but many will find it underpowered.

NUFORCE REFERENCE 9SE £1,750
Brilliant value for money monoblocks with massive power and super-clean, three-dimensional sound.

www.hi-fiworld.co.uk FEBRUARY 2010 HI-FI WORLD 77
STANDARDS

ROTEL RB1092 2007 £1,595
Hugely powerful digital amp with neutral midrange and a wonderfully spacious treble.

CHANNEL ISLANDS AUDIO D100 2005 £1,595
Clean and musical Class D monoblock power amplifiers in a neat, small package.

SILK GLOWMASTER KT88 2007 £1,699
KT88 based power amplifier offers dramatic source for big audio nite reserves of power. Match with a smooth, elegantly open and fast sound, and apparently infi-

ICON AUDIO MB45 2009 £2,499
Creamy and seductive yet blisteringly fast and musically lucid, this pair of 845 tube monoblocks is staggering value for money.

QUAD II-40 2005 £3,230
Modern tube monoblock power amplifiers with plenty of power, liquid and open mid-band and spacious, airy treble. Explicit, engaging sound, but not as euphonic as some.

GRAAF GM30 OTL 2003 £3,300
Awesome output transformer-less valve power amp gives dazzling sized and incision, with an ethereal soundstage and delicious filigree detail. Tremendous punch belies its humble 20W power rating. Factor in one of the most exquisite finishes this side of an Aston Martin and it's very hard to say no to.

ELECTROCOMPANIET NEMO 2000 £4,450 (EACH)
Monoblock power amplifier with breathtakingly open and fast sound, and apparently infinite reserves of power. Match with a smooth source for big audio dynamite!

QUAD II-80 2005 £6,000
Quad's best ever power amplifier: this is a dramatic performer with a silky but dark tonality, blistering dynamics, serious power and a compellingly musical sound. They don't come much better than these...

LOUDSPEAKERS

ACOUSTIC ENERGY NEO I 2007 £199
Tidy and well balanced standmounters with pleasing clarity and detail.

B&W 686 2007 £279
B&W's new baby standmounters offer a sophisticated and mature performance that belies both their dimensions and price tag.

USHER 5-520 2006 £320
Astoundingly capable budget standmounters that offer detail and dynamics well beyond their price and dimensions.

MORDAUNT SHORT AVANT 914i 2007 £300
Another pair of storming budget floorstanders from Mordaunt Short. Delighted, punchy and crisp.

REVOLVER RW16 2004 £400
Outstanding standmounter with cornal accuracy and speed that totally belies its price: good sensitivity for a small box makes it great with valve amps too. A budget audiophile classic.

LEEMA XERO 2007 £650
Superb mini-monitors that belies its modest price tag with a bold and finessed performance.

ACOUSTIC ENERGY AE1 CLASSIC845 2004 £895
Brilliantly successful remake of an iconic design; not flawless, but surely one of the most musical loudspeakers ever made.

SPENDOR S3/5E 2004 £950
A natural successor to the BBC LS3/5a, whose impressive neutrality, imaging and evenhandedness makes this a superior, if less charismatic, loudspeaker.

WHARFEDALE OPUS 2-M 2007 £999
Large standmounters with impressive mid-range dume and fine integration across the frequency range.

RRR FS100 2007 £1,055
Mind-boggling amount of loudspeaker for the money. Big and sturdily built with serious bass and awesome soundstage scale. A real bargain.

YAMAHA SOAVO 2 2007 £1,200
Just as capable as their floorstanding brethren, the Soavo 2h have an assured sense of sophistication and poise.

REVOLVER RW453 2006 £1,199
Very musical floorstander that's clear, concise and truthful, whilst being exceptionally amiable and friendly - a dreamboat for valves.

ONE THING AUDIO ESL57 2007 £1,450
One Thing Audio's modifications keep the good old ESL57 at the very top of the game.

KIBRI NAIMA 2007 £1,550
Unusual-looking omnidirectional loudspeakers with an absolutely captivating performance. Huge soundstage and bags of clarity - brilliant!

GURU QM-10P 2007 £1,595
Quirky but adorable standmounters that are way off the pace in respect of detail and power, but amazingly capable at playing a tune and pulling you in to the music.

MARTIN LOGAN SOURCE 2008 £1,599
Brilliant entry level electrostatics, giving a taste of loudspeaker esoterica for the price of most moving coil boxes. Tremendous clarity, evenness and delicacy, although not the world's most powerful sound.

USHER BE-718 2007 £1,600
Beryllium tweeters work superbly, allied to massive and transparent midrange dome and fine integration across the frequency range. The MA boys pull out all the stops for their audition.

SPENDOR S8E 2007 £1,895
Generously large, silky smooth delivery, this dynamic sounding floorstander is an excellent all rounder.

ISOPHON GALILEO 2007 £2,100
Big standmounters that really grip the music and offer quite startling dynamics and grip.

MONITOR AUDIO PL100 2008 £2,300
The MA boys pull out all the stops for their flagship 'Platinum' series standmounter with stunning results.

PMC OB11I 2008 £2,950
Beautifully built, classily styled standmounters with exceptional image projection and a very clean, detailed sound.

MOWGAN AUDIO MAISON 2007 £3,995
Massively capable loudspeakers that offer dynamics, scale and clarity in an elegantly simple package. Wide range of finishes, too.

B&O BEOLAB 9 2007 £5000
Technically impressive and visually striking loudspeakers with sound quality that more than matches their looks.

ARS AURES M1 2006 £5,995
Sublime build and finish allied to an insightful, assured and even-handed musical performance makes these an essential high end audition.

QUAD ESL-2905 2006 £5,995
The old 999 with all the bugs taken out, this gives a brilliantly neutral and open sound like only a top electrostatic can; still not a natural rock loudspeaker, though.

REVOLVER CYGNIS 2006 £5,999
Revolver pull out all the stops and show what they can do with this magnificent flagship loudspeaker. A superb monitor that is like a mini B&W 801D in many ways.

MORANT AUDIO GS60 2008 £6,000
In many respects, the ultimate studio monitor; dazzling clarity and speed with commanding scale and dynamics.
ISOPHON CASSIANO 2007 £12,900
Drive units featuring exotic materials allied to superlative build quality result in an immensely capable loudspeaker. Not an easy load to drive, however.

ACCESSORIES

MONITOR AUDIO IDECK2006 £200
Fine design, impressive flexibility and a lucidly musical sound make the iDeck the current iPod dock champion.

ISOtek G2 Vision 2006 £550
A genuinely effective and surprisingly cost-effective upgrade, but results could vary so a home dem of the power conditioner is recommended.

TOWNSEND MAXIMUM
2003 £600
Classy ribbon superweapon with flexible level settings and cool styling - you'll be amazed at the difference it makes, especially with Quad electronics.

HEADPHONES

SENNHEISER MX-550 2005 £19
Our unqualified recommendation for those seeking a serious sounding pair of in-ear phones. Smooth, detailed and musical.

SENNHEISER PX-100 2002 £29
Cracking pair of lightweight open back cans ideal for personals, but good enough for real hi-fi use. Superb build allied to a smooth and engaging performance make them the spiritual successor to the HD400s.

GOLDRING DR150 2006 £70
Excellent build and fine sound makes these budget cans superlative value for money.

SENNHEISER HD-550 1998 £199
The company's best real-world cans to date. Open and smooth with plenty of detail. Brightly lit midband makes them an ideal partner for a valve headphone amp.

SENNHEISER HD-650 2004 £250
Not the best headphone in the world, but a superb all round reference of the same. Very crisp, detailed and even sound allied to superlative build and fine comfort makes all most people will ever want. Cable upgrade yields great results.

STAX SR-007t Omega II/SMR-007t 2006 £2,800
Simply the best headphones we've ever heard at any price, these sweetly translucent electrostatic earphones are like no other headphone, or loudspeaker for that matter.

INTERCONNECTS

TECHLINK WIRES XS 2007 £20
Highly accomplished interconnects at an absurdly low price. Stunnning value for money.

WIREWORLD Oasis 52003 £99/M
Excellent mid-price design with a very neutral, silky and self-effacing sound. Superb value for money.

CHORD COMPANY CHAMELEON II £90/M
One of our favourites, these are musical performers with a smooth yet open sound.

DNM RESON 2002 £40/M
Neutral and transparent - a steal!

VDH Ultimate The First 2004 £260/0.6M
Carbon interconnects that help you forget the electronics and concentrate on the music. Miraculous transparency. Tight and tuneful bass mixed with air and space results in a cracking cable for the money.

TCI constractor 13A-6 block 2003 £120
Top quality 'affordable' mains outlet block, with fine build and goodsonics. Well worth the extra over standard high street specials, which sound coarse and two-dimensional by comparison.

MISSING LINK CRYO REFERENCE 2008 £375
Currently our favourite 'affordable high end' interconnects, with a deliciously smooth, open and subtle sound without a hint of edge or grain. Superb value, inasmuch as it's as good as some designs at three times the price.

TUNERS

DENON TU-1500AE 2006 £120
Excellent entry level analogue tuner; slick sonics and fine feature count makes it a bargain.

CAMBRIDGE AUDIO 640TT2005 £250
Sweet sounding digital/analoge hybrid with fine build and finish at the price.

MARANTZ ST-7001 2006 £299
Super performance on FM coupled with its ability to get the most from DAB broadcasts makes this the best affordable tuner.

YAMAHA TX-761 2007 £350
Sets the standard for FM performance at the price and is no slouch on DAB either.

ARCAM FMJ T33 2009 £550
The world's first DAB+ hi-fi tuner, and it also happens to be the best DAB/FM hybrid we've heard to date. A brilliant product that deserves to succeed.

CREEK CLASSIC TUNER2006 £550
No tuner offers better sound per pound; wonderfully three dimensional and smooth from bottom to top.

MYRYAD MXT-2000 2005 £800
Truly sumptuous sound and excellent build is all most will ever need in a tuner; superb.

MAGNUM DYNALAB MD-105t 2006 £1,095
One of the best ways to hear FM that we know; superbly open and musical sound in a quirky but characterful package.

YAMAHA CRX-M170 2007 £200
One heck of a lot of quality performance on DAB, CD and FM for £200! Optional matching £120 NXE-E300 loudspeakers aren't too shabby either.

TEAC DR-H300DAB 2008 £329
Nicely built and styled mini with fine performance on all sources that even plays DVDs!

NAD C-715DAB 2008 £429
Small, neat looks cover a truly capable system that shows just what a compact design can achieve.

ARCAM SOLO MINI 2008 £650
Half the size and two-thirds the price of a full-size Solo, the Mini gives very little away in terms of performance to its bigger brother.

ARCAM SOLO 2005 £1,249
Excellent all-in-one system, with a warm, smooth and balanced sound to match the features and style.

LINN CLASSIK MUSIC 2008 £1,250
Next update of the original and best one-box stereo system; superbly musical sound beats equivalently priced separates.

MERIDIAN F80 2007 £1,500
Fantastically built and versatile DVD/CD/DAB/FM/AM unit, designed in conjunction with Ferrari. Ignore nay-sayers who sneer that it isn't a 'proper' hi-fi product; most see sense when they listen to it.

LINDT NOTE MUSIC CENTRE 2007 £1,500
Lovely shiny CD/tuner/amplifier with fine sound quality and dynamic abilities.

SHANLING MC-30 2007 £650
Quite possibly the cutest all-in-one around with fine performance from the CD player, tuner and MP3 player input. Very low power, though.

NAIM UNITI 2009 £1,995
Uniquely versatile one box music system with excellent ergonomics and sonics to match. A landmark product for Naim.

LINN CLASSIK MOVIE 2007 £2,250
Superbly built all-in-one that offers excellent sound across all formats and is surprisingly easy to use.

MAGNAFON 'LEGEND' 2007 £3,200
The combination of SA-7S1 disc player, SC-752 preamp and MA-952 monoblocks delivers a truly jaw-dropping performance. Start saving now....
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90+90 watts of pure triode magic. Designed to go into sonic territory inaccessible by 300Bs. Their pure valve simplicity gives openness impossible by transistors! The 1931 RCA huge power triode is still without equal. Only 3 stages. They are the answer to anyone jaded by their present system.

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**New Stereo 40 MK III**

Our best ever mid range amplifier!

The brand new Stereo 40 III has been upgraded with new features which make it one of the finest in its class! Smooth, precise and powerful. New bigger tertiary wound ultra-low distortion transformers. New Improved circuit with no feedback. New 274B tube rectifier. New, now with remote control. But with the same 40+40w of the finest pure valve sound Silver audio cable. UL/Triode output. Choke PSU. Beautiful Plexiglas cover included. Vital warm-up/Standby facility. (24kg) (Various upgrades available).

From only £1099 complete (EL34) or £1199 (KT88).

**Save £200 on our MFV 3 speakers when Bought with any of our amplifiers**!
This month, we're delighted to give away Isokinetik's superb Modular One (MI-Ref-251-CW) turntable. The prize's spec includes a reference 25mm acrylic platter, ISO 251-CW Cardas golden section litz wired tonearm with ISOend stainless steel end stub and ISOweight asymmetric counterweight. Supplied complete with an SI platform, it normally retails for £849.99. Here's what Neville Roberts said when he reviewed a Modular One in the January 2010 issue of Hi-Fi World magazine...

"The first in what will be a series of Isokinetik turntables, it can be supplied as an entry-level unit which can then be upgraded by the user in stages, as funds allow. The deck can be supplied with either a Jelco or Rega arm; the ISO251C tonearm used here is the RB251 upgraded with the ISOtone wiring, incorporating Cardas golden section Litz wire, ISOweight asymmetric counterweight and ISOend stainless steel end stub. The turntable is designed as a fully customisable, upgradable base on which to build according to the user's personal taste, and pocket. The plinth is CNC machined from highly polished billet acrylic, giving it a great finish. The feet are machined from Delrin and have dense sorbothane anti vibration pads. The bearing assembly is made of phosphor-bronze and incorporates a ceramic ball. This assembly is fitted to an aluminium and ground-steel sub-platter which is precision engineered to exacting tolerances with 0.001mm concentricity between the axle and hub. A high quality asynchronous motor spins the platter at either 33rpm or 45rpm. The basic model is supplied with a 12mm diamond polished acrylic platter. Upgrades to this include a 25mm thick acrylic platter, as well as platters manufactured from Delrin or ply materials, together with a number of colour options. The whole unit looks impressive; everything has been manufactured and finished to a high standard. Although the style is simple and uncomplicated, it looks very modern and elegant.

Baroque music had a real openness and transparency - breathtakingly realistic. Instrument positioning was excellent, both side to side and front to back. The trumpets in the Tchaikovsky symphony were extremely clear and open, yet strident as indeed they should be. The lower middle range was well controlled and tight. Moving down in frequency, the bass drums were punchy with great grip and also very well extended. With a CBS recording of Simon and Garfunkel the Modular One did an excellent job. The usually muffled midrange and limp bass were cleaned up and the bass was brought to life in a way I had not heard before. Bass was very tightly controlled and drums packed a real punch. The Modular One is a great looking turntable and its performance reflects the elegant and refined styling. Careful thought has been given to a product that can be upgraded easily by the user as funds permit. A unit of this quality can only be made by people who take pride in their work, as well as having professional skills. I'd say it's a very competitive product at the price indeed."

To win this superb turntable package, all you have to do is answer the following four easy questions. Send your entries by 31st January 2010 to: February Competition, Hi-Fi World magazine, Unit G4, Argo House, The Park Business Centre, Kilburn Park Road, London NW6 5LF.

**RULES AND CONDITIONS OF ENTRY**

- ONLY ONE ENTRY PER HOUSEHOLD
- MULTIPLE ENTRIES WILL BE AUTOMATICALLY DISQUALIFIED
- PURCHASE OF THE MAGAZINE IS NOT A PRE-CONDITION OF ENTRY
- NO CORRESPONDENCE WILL BE ENTERED INTO
- THE EDITOR’S DECISION IS FINAL
- NO EMPLOYEES OF AUDIO PUBLISHING LIMITED, OR OF ANY COMPANIES ASSOCIATED WITH THE PRODUCTION OR DISTRIBUTION OF THE PRIZES, MAY ENTER

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**QUESTIONS**

[1] **What turntable is offered as a prize this month?**
   - (a) Amstrad TP12
   - (b) Pioneer PL12D
   - (c) Garrard SP2516
   - (d) Isokinetik Modular One

[2] **What type of tonearm is included?**
   - (a) Acos Lustre
   - (b) Linn Ittok
   - (c) Dynavector DV505
   - (d) Isokinetik ISO 251-CW

[3] **Who reviewed the deck in the January 2010 issue?**
   - (a) Channa Vithana
   - (b) Patrick Cleasby
   - (c) Rafael Todes
   - (d) Neville Roberts

[4] **What is the turntable's ball made from?**
   - (a) plastic
   - (b) ceramic
   - (c) metal
   - (d) putty

---

entries will be accepted on a postcard only

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**NOVEMBER 2009 ROTEL RCD-1520 CD PLAYER WINNER:**
Adrian Reeder of Blackpool

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TO WINTER BLUES!

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PROCOL HARUM
All This and More
Salvo
Released as a four-disc group retrospective, this new box set features three CDs and a DVD, and is interesting because over half of the material features rare live cuts including Golders Green in 1974 and Isle of Wight in 1970. The DVD continues the live works including material from Danish TV in 1974. Featured within the packaging is an interesting 72-page booklet that gives background information on the included music plus a family tree of the various incarnations of the band. Rob Keyloch of Church Walk Sound Studio did much of the preparatory work in the creation of this box set and went into the project with a belief in how these things should be done. “You must go back to the source! It’s a common mistake to just accept the given or available, processed, production masters and reprint them with a bit of noise reduction and volume levelling”, he told Hi-Fi World.

Most of the included tracks were derived from the major studios of the day: Air, Pye, Criteria, Ramport and The Record Plant. “There were, of course, also a few 7-inch plastic reels that apparently had been in (lead singer) Mr Brooker’s barn for some time, these were the sort of reels where you would find rough mixes and backing tracks, part of the writing/recording process.” The live sources were all high quality mixes of gigs from the early seventies. The only real trick, to maintain high sound quality, was to catch tape azimuth changes present on the original master tapes from the original reel-to-reel tape recorder. “It could vary wildly from studio to studio and from day to day in the same studio.” The result is a superb set of recordings that will put a smile on the face of any Procol Harum fan.

THE GOONS
Series 5 (Part 2) & Series 6 (Part 1)
BBC Audiobooks
Featuring Spike Milligan, Peter Sellers and Harry Secombe (plus a cast of additional twists), the long running Goons programmes not only set new standards in comedy - breaking new ground in writing, presentation and sound effects – but also influenced several major talents, most notably the Monty Python team. These boxes, which here feature seven CDs within each box, are meticulously researched and superbly produced under the guidance of Ted Kendall, one of - if not the - best engineers when it comes to remastering and reissuing old radio shows. Each Goon show is remastered from scratch using the earliest source in each case, often original transcription discs/acetates and third party master tapes, pieced together using the missing bits which were taken out by the censors during the fifties and sixties or were purposely trimmed because of transcription reasons.

In addition, you also get plenty of extras. The Series 5 box includes twelve episodes plus a previously unheard version of ‘The Dreaded Batter Pudding Hurler (Of Bexhill-On-Sea)’ and four limited edition postcards. The first volume in Series 6 includes thirteen episodes plus a rare chance to hear Peter Sellers appearing in ‘The Listening Room’ on the BBC’s Light Programme in which he spoofs a very serious broadcast of the time called, ‘The Critics’. Ten Kendall should be applauded for tracking down the early source material as the original master tapes of the unedited shows no longer exist. The result is an absolute joy to behold, and chuckle-friendly!
GENESIS
Live 1973-2007 & The Movie
Box 1981-2007
Virgin Records

The massive reissue programme of Genesis studio albums has finally moved towards their live work. The 'Live' box features 11 discs (eight CDs and three DVDs that include 5.1 surround sound mixes). The set includes 'Live' from 1973, the only official live album with Peter Gabriel, plus five bonus tracks, from 'The Lamb Lies Down On Broadway', recorded at the Shrine Auditorium, Los Angeles on January 24, 1975 and a 5.1 mix; 'Seconds Out (1977) plus a 5.1 mix; 'Three Sides Live' (1982); a resequenced 'The Way We Walk', that was originally sold as 'Vol I: The Shorts' and 'Vol 2: The Longs'. The new disc adds extra dialogue. The real bonus is 'Live At The Rainbow', first seen in the 'Archive I' box set but expanded here with four extra tracks - although some of the band chatter is missing. The only real disappointment is no complete live version of 'Lamb Lies Down On Broadway'. As for the sound quality? Superb!

The 'Movie' box features four shows plus bonus features. 'Three Sides Live' (1982), the 'Mama Tour' (1984) (that includes 'The Making Of Mama' documentary) plus VH1: Behind The Music, all appear for the first time. You also get 'Live At Wembey Stadium' plus 'The Way We Walk - Live in Concert'. Some fans may already have some of these DVDs but, for a box set such as this, they had to be included. On that basis, it's a pity that 'When In Rome' was not included. There is a 'reserved' slot available however, if you want your individual copy to be part of the box set.

All in all, a fitting way to finish an epic re-release series. Most importantly, however, is the excellent mastering by Nick Davis.

DIM LIGHTS, THICK SMOKE AND HILLBILLY MUSIC
Various
Bear Family

The only review this month that is not a box set, is still a collection of sorts. A series of five individual CDs, spanning 1951-1955, each package features between twenty-six to twenty-nine tracks per CD. Covering the Country & Western charts from the post-war period, this is a fascinating series that follows up an earlier release batch that concentrated upon 1945-1950. Each CD is beautifully formed. Effectively a mini-hardback book, each arrives with a 72-page booklet set within. The first few pages of each examines the year in question in broad terms, setting that year in context with its neighbours. Then a track-by-track analysis is offered accompanied by rare photographs of posters, handbills and record labels.

The range of material on these CDs is a wonder to behold. From in addition to the more well known songs from the likes of Slim Whitman ('Rose Marie'), Tex Ritter ('High Noon Do Not Forsake Me') and Hank Williams ('Your Cheatin' Heart'), you also get Zeb Turner With String Band ('Chew Tobacco Rag'), Ferlin Husky ('I Feel Better All Over More than Anywheres Else') and Curly Williams ('Half As Much'). These obscurities - even Columbia's powerful A&R man Mitch Miller didn't know who Curly Williams was, even though Williams was on the Columbia label at the time and had been for seven years - adds spice to a series that brings a range of welcome surprises such as a very thin Bill Haley wearing a cowboy hat and singing 'Rocket '88' (he was a championship yodeller in his spare time, apparently) and Link Davis (Big Mamou') who was running a mixed race band in 1952. Well mastered, up to Bear Family's high standards, this is a charming and attractive CD series and educational to boot.

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"it was heartbreaking to box up my great sounding old system and move it to my new house..."

david price

As I write this, it's almost six years ago to the day that I last moved house. As is usually the case with such ventures, it was a fraught and stressful time, but one that was aggravated somewhat by the last minute intervention of Mother Nature...

Now, every time I size up a potential new abode (which isn't often, thankfully), I naturally pay particular attention to the acoustics. Incredulous estate agents, landlords and tenants have all, through the ages, looked on in amazement as I've started clapping in the middle of their front rooms. This was of course not to show my appreciation of the domicile I was viewing, but rather size up dreaded room resonances. We all know what a clap sounds like, so you duly bring your hands together in an excited way and listen to the decay.

I vividly remember moving into my North Somerset house on the very first day of 2004. Six hours later, I was in my newly delivered bed with a raging fever and flu. Worse still, on the fourth day of the new year, I was due to catch a plane to Las Vegas to experience the wonder of CES - the world's annual Consumer Electronics Show. For three days, I coughed, sneezed, shivered and sweated in my North Somerset system (Marantz TT1000, Origin Live Enterprise and Lyra Titan turntable, feeding an ANT Audio Kora 3T Ltd. phono stage and Musical Fidelity AM351 integrated) well and truly made the grade. I was overjoyed that after all this time, I'd got everything working just as it should, perfectly matched to room, music and indeed listener. So it was heartbreaking to have to box it all up so soon and move it. And it's now all the more unpleasant to know that a once sublime system is sitting there poised for action, and very possibly nowhere near as good as it was simply because of its new environment. Of course, now there's no way of finding out until I've coughed and spluttered my way through at last another couple of boxes of Scotties...

What a shame to have to 'break up' that magical final North Somerset system. It's the very one that in a slightly earlier guise (summer 2007) was described by Lyra's Jonathan Carr (somewhat double-edgedly) as, "the best system I've heard... in this country". If, on the first install, I can get anywhere near the sound of three years ago I'll be delighted. Right now though, with my ears doing an impersonation of the sound of me deep sea diving through peppered porridge, I'm not going to find out just yet. Wish me luck for when me and my shell-likes come back up to the surface!"
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"I get desensitised by umpteen hits packages of a legendary artist dumped onto CD..."

Paul Rigby

It was whilst researching the weird and wonderful musical canon that is Prog Rock, that it hit me. When I was searching for CDs to listen to, I was coming back, again and again, to the same small group of record labels. Yes, the major labels have a wealth of material but you’d be surprised how little they have on offer, available to buy, right now. So much is delisted, more is ignored and many albums languish, desperate for a reissue done with TLC. So it’s left to enthusiasts to take up the flag and wave it about a bit, hoping to grab your attention. Small record labels have grown up, whose owners have their own tastes in music – and it shows. Hence, small and mid-sized independents out there have tended to specialise in particular genres, corralling as many well known artists as possible along with those artists’ long neglected classic albums. Long-forgotten and obscure releases that the major labels wouldn’t touch because it wouldn’t even cover their costs, never mind make a profit are rescued.

So I made a point of looking for titles from BGO featured classic rock ‘n roll. Yes, you will find rock `n roll featuring original albums from the likes of Johnny Burnette, Bo Diddley and Eddie Cochran. But what about the ‘poor relation’ in rock `n roll circles – the UK? There’s plenty to enjoy here too, much of it underrated, placed in the shade by the brilliance of the US output Johnny Kidd & The Pirates, for example were one of the most important British groups before the appearance of The Beatles while Billy Fury was arguably the most talented rock `n roll artist that Britain ever produced. Both have excellent 2-on-1s on offer here via BGO along with other stars of the time such as Marty Wilde and Dave Berry.

However, it’s the British ‘failures’ that strike the biggest chord. We like nothing better than an underdog and BGO have a great British selection from this period of rock. Take Adam Faith and had a dedicated following, sounding a little like The Hollies or The Searchers. Then there was The Hunters who briefly backed Cliff Richard (yes, it wasn’t just The Shadows) and later recorded for the eccentric producer, Joe Meek. All these groups and more are featured within the BGO catalogue. It is because the rock ‘n roll albums and artists, from both sides of the Atlantic, are concentrated within the small space of a single independent label that they are so effective, as a group of discs and as a slice of rich cultural history.

I don’t know about you but I get desensitised by umpteen hits packages of a legendary artist where a shovel full of tracks is dumped onto a CD. To have BGO offer the original album, with that artist’s original tracklist and the original cover art – it immediately throws you back in time. You not only get a real flavour of the times but also what the artist was trying to do with that album and how the featured hit singles fitted into that period of their career. Seeing (and hearing) these works from BGO was a joy – a perfect antidote to the usual, crass, packages commonly thrown at us.
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When the BBC HD channel started life on satellite, the consensus view of the picture quality was that it was "stunning". On 5th August however, the BBC installed a new set of video encoders for the channel, and the BBC simultaneously slashed the bit rate level it was using from 16.5 Mbps down to just 9.7 Mbps - a staggering 40% drop!

No sooner had the BBC done this than a flood of comments were left on a BBC Internet blog about the BBC HD channel; over 600 comments were left on that blog alone; with people almost unanimously saying that the picture quality is far worse than it had been before the change. Common criticisms have been that the picture is far less sharp and contains far less detail than it used to; the picture is softer-looking; motion, in particular on sports coverage, is often blurred; and more blocking artefacts are visible. Another very common general criticism is that the quality can no longer be described as being high-definition; and many say that the quality is now little better than standard-definition TV.

The BBC responded to these complaints by claiming that the results of internal tests had shown that the quality at the lower bit rate levels with the new video encoders is either better or no worse than it was with the older encoders at the higher bit rate levels (the BBC used exactly the same argument about internal test results apparently showing no drop in quality when they reduced Radio 3's bit rate on DAB to 160 kbps in 2006). Those complaining about the picture quality of the HD channel were having none of this however, as their typical reaction has been to say that their eyes do not lie, and they don't appreciate being told by the BBC that they're imagining things, especially when the difference in quality is as stark as it is (this also mirrored what Radio 3 listeners said back in 2006).

The BBC then adopted its default "we're right and you're wrong" stance, which it seemingly always falls back to when us plebs have the audacity to criticise its decisions. For example, one comment that nicely sums up the attitude displayed by Danielle Nagler, the Head of BBC HD, was the following classic piece of prerehearsed BBC obfuscation when she appeared on Points of View: "It is correct that we've reduced the bit rate. But there's no evidence that reducing the bit rate has an impact on picture quality, or that there's an absolute relationship between bit rate and picture quality." Danielle Nagler has also attempted to sound knowledgeable on the subject of video compression in the BBC Internet blogs she has written, although I strongly suspect that her true knowledge of the subject would probably stretch to two postage stamps.

Another thing that people are understandably unhappy about is the fact that the BBC has steadfastly refused to say why the bit rate levels had to be reduced in the first place. They certainly didn't need to reduce the bit rates on satellite, because the BBC HD channel is being broadcast on a satellite transponder that is half empty! The BBC also won't have saved a penny by reducing the bit rate, because it pays a flat fee to lease seven satellite transponders, and the BBC handles the 'uplinking' of the signals to the satellites itself.

In my opinion, the only credible explanation is that they've deliberately degraded the quality of the BBC HD channel on satellite and cable down to the level at which they'll be forced to deliver the HD channel at via the BBC's preferred digital TV platform Freeview. By the end of 2010 there will four HD channels will be available. One Freeview multiplex is being devoted to carry all of the HD channels, and this multiplex will have a capacity of around 36.1 Mbps. This means that each HD channel will have an average bit rate of around 9 Mbps by the end of 2010, and an average of just 7.2 Mbps once a fifth HD channel is launched.

Another reason why I suspect foul play here is that Danielle Nagler's boss just happens to be Simon Nelson, who was the person that chose to use low bit rates on DAB in the first place, and he was also the person responsible for reducing Radio 3 to 160 kbps on DAB in 2006...

The fact is that there's an abundance of bandwidth available on satellite and cable, whereas bandwidth is in very scarce supply on Freeview. Transmission costs on satellite and cable are also a small fraction of what they are on Freeview. This being the case, it would be scandalous if the BBC got away with stranding the quality of the BBC HD channel on satellite and cable just because its favoured Freeview platform won't be able to deliver the channel at the same level of quality. 
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"recording engineers do not really understand what they are doing with peak limiting..." 

noel keywood

I visited a studio recently and as always it was an interesting experience, but also a depressing one. As we stood in a small mastering room I couldn’t help but be transfixed by the largest monitor loudspeakers I have ever seen that stretched from floor to ceiling in a room smaller than my kitchen. The engineer worked in the shadow of these monsters and swore by them and the sound they provided, but it bore no relation to any domestic environment. And as we stood and watched red lights were flashing brightly on his desk, giving it the appearance of a Christmas tree. Disingenuously, I asked him what they were (I knew) and he said “oh that’s the peak limiters”. Oh dear!

I was reminded of this visit a little later when into my inbox popped a reply from Friedemann Tischmeyer about my queries of his Dynamic Range meter at www.dynamocrangemetering.com. This attempts to measure how much music is being ‘compressed’ by the sort of peak limiting I saw going on at the studio, my visit showing the disconnect between the way this process is viewed by studios, and the way it is viewed by the outside world.

I’d emailed Friedemann Tischmeyer in response to a reader’s letter in our January 2010 issue about the cataloguing of CD dynamic range values using his metering system. It looked to me that the meter wasn’t measuring dynamic range as it is commonly understood, the range between loudest and softest sounds on a CD. It appeared to be measuring peak-to-mean values, which give smaller figures than true dynamic range and Friedemann confirmed that this was indeed the case. “Technically you may be right” he said. “When we researched this topic we found out that some terms and parameters are defined but the deeper we came into the jungle of loudness the less standardised things are. The term dynamic range is used here and there and “Crest Factor” also. My informations gave me the impression that “Crest Factor” is more defined and standard than dynamic range. We needed a good catchy and easy to understand term for our aim so we redefined the term Dynamic Range.

There is no law and I am not aware of an AES paper about dynamic range. In case of the success of the Pleasurize Music Foundation with the work for more sound quality awareness, maybe the term Dynamic Range is redefined today.”

The last bit is a bit cheeky, saying in effect that the success of the Pleasurize Music Foundation is able to change the meaning of dynamic range. Somehow I don’t think so; there is a need for the concept and it has a generally accepted title that the Dynamic Range meter misuses, but no matter perhaps. I take Friedemann’s point that what the DR meter measures, peak-to-mean or crest factor, is what studios choose to mince in their desire to make CDs sound ‘loud’. So this meter gets to the heart of the ‘compression is killing music issue’ by measuring what I was watching during my studio visit: the compression of musical peaks.

CD has enough dynamic range – just – to avoid any need to compress peaks so as to make music sound louder. But people naturally tend to think something that’s quieter is less dynamic in itself and that there’s something wrong. Having to turn volume right up to make an amplifier go loud is one example, yet this actually means it is better (less gain, fewer amplifying devices) as an amplifier, not worse! The same applies to CDs: if they play loud they are better, many think. They are made louder by lifting overall level, which necessitates compressing peaks. Ideally, it also means using brickwall limiters to make absolutely sure peak recording level is never exceeded, producing ‘overs’, because if this happens in a digital system serious distortion sets in.

The situation has become so bad and studios so blissfully unaware or uncaring about what they do that hard limiting and ‘overs’ do occur and are not uncommon Friedemann Tischmeyer says. This is what I was concerned about during my studio visit by the furious and continuous activity of the red peak recording warnings. The engineer left the technology to look after itself as he busied himself with other things and it was at this point that I began to realise that the whole recording process had become so technologically saturated that engineers were no such thing and did not really understand what they were doing at this level, only that some irritating audiophiles more concerned with their hi-fis than music (as they saw it) should inconveniently complain about something obscure known as ‘sound quality’!

Another site concerned with this is www.turnmeup.org whose title alludes to the need to turn up the volume of good CDs. Their overall music level is lower but their dynamic range greater and we have all heard these being used as demonstrator discs at hi-fi shows. One minute Hugh Masekela is talking about working deep in Johannesburg’s mines, in ‘Stimela’, the next there is a shout as he mimics the ‘whoohoo’ of a train transporting workers. It’s a show favourite and a great display of what music with dynamic range sounds like. Trying to get studios to understand this is going to be an uphill battle, my studio visit suggested...
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GETTING BACK

One of the great things about the Get Back label is the eclectic nature of its releases – as this latest batch testifies. Take ‘Meet The R. Stevie Moore’ by the man himself. A ‘Godfather’ of home recording who has produced over 400 albums (www.rsteviemoore.com) of varying music types including indie, rock and pop. This double album is but a mere sampler. Equally eclectic is ‘Girl On A Motorcycle’ (1969) a soundtrack to a film starring Marianne Faithfull and Alain Delon, played by Les Reed with a full orchestra as instrumentalists. Finally, continuing the varied approach is ‘The High Priest Of Reggae’ and ‘Scandal In A Brixton Market’, both by Laurel Aitken. The former is one of the best reggae compilations on the market while the latter, an essential reggae release from 1969, is a mixture of new and old releases featuring Girlie and Rico Rodriguez.

LILLITH'S LPS

Three releases from Lilith include a value-for-money MC5 double album, ‘Shakin Street’ that also features the CD version of the same album. It includes a collection of demos, outtakes and live tracks from 1965-1971. Speaking of rarities, Garage fans faves, The Litter, saw the band’s trademark garage style evolve into more of a hard rock/psych pathway on ‘Emerge’ (1969) adding flavours of Blue Cheer and Cream. Finally, Dr John’s ‘Anytime, Anyplace’ also arrives with a free CD within. Originally released in 1974 on Barometer, this rare album features six bonus tracks.

VLADISLAV DELAY

…and his latest album, via the Leaf label, ‘Tummaa’, digs up this month’s favourite word – eclectic – again. There’s something in the wind, I reckon. Avant garde electronica from Finland that’s dark, moody and full of introspection.

LET'S ROCK

Split between Vertigo and SPV is a selection of new releases and reissues. The latter encompass Black Sabbath and the Vertigo reissues of ‘Master Of Reality’, ‘Sabotage’ and ‘Black Sabbath’, the latter and ‘Master...’ arrive with a second disc of rarities and b-sides. On a more contemporary note, SPV has released Rhapsody’s ‘Symphony Of Enchanted Lands II: The Dark Special’ – an album not a table top role playing game – the Italian metal outfit’s 2004 release of ‘film score metal’ is both epic and extravagant. Finally, look out for Molly Hatchet’s ‘Silent Reign Of Heroes’ (1998) that continues the solid, hard rock/southern rock style that their fans love.
FLIGHTS OF FOLK

There is so much classic folk out there, and hardly anyone was recognising it existed at all, never mind releasing it on vinyl. But now the Three Black Feathers label has ridden to the rescue with a series of classic folk releases via its Topic license. All are released on 200gm vinyl, mastered by Abbey Road as DMM pressings along with new interviews and liner notes. Included is Nic Jones’ ‘Penguin Eggs’ (1982), an absolute classic album of traditional songs brought up-to-date with Jones’ unique arrangement and excellent instrumental work. Next, Dick Gaughan’s ‘Handful Of Earth’ highlights his expressive guitar playing over a emotional vocal delivery with a Celtic flavour while daughter of Martin Carthy and Norma Waterson, Eliza Carthy’s ‘Dreams Of Breathing Underwater’ maintains the family values – in fact, she hasn’t released a bad album yet. This example, from 2008, upheld their folk revivalist approach with eclectic twists. Finally, Lal Waterson & Oliver Knight’s ‘Once In A Blue Moon’ is both quiet and reflective. A release that isn’t afraid to take chances. As for the DMM process? It has been successfully implemented.

SUNDAZED DUO

Fever Tree were a little known sixties psychedelic outfit from the USA. The best of the group’s material was written by Tex Ritter and Mary Poppins soundtrack songwriting duo, Scott and Vivian Holtzman. This self-titled piece from 1968 combines covers from the Beatles with original rocking/electric ditties. Also look out for the Blues Project’s ‘Projections’, starring Al Kooper. Oddly enough, the group was not all about blues but, as is heard here, they also infused folk, jazz and more. This edition features the rare mono mix.

DRONING ON

Full of atmosphere is Steven R. Smith’s new album, ‘Cities’, via Immune Recordings (www.immunerecordings.net) that combines slightly disturbing organic drones with some delicate acoustic work to form a delicious contrast. Think alt.folk instrumentals with a strong dash of classic 4AD contemplation.

...AND FINALLY

David Bowie’s debut, self-titled album (1969), featuring the original version of ‘Space Oddity’, has now been reissued via EMI in a splendid gatefold edition. On a more contemporary note, Rounder has two LPs out and about. Sondre Lerche’s ‘Heart Beat Radio’ offers easy going, melancholy pop that sometimes reminds me of Jamie Cullum’s vocal delivery. Son Volt’s ‘American Central Dust’, on the other hand, is more alt-country, featuring a stripped production with rock and roots touches.

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Virgin Vinyl

A turntable said to work straight out of the box with no setting up, Clearaudio's new Concept is designed with first timers in mind. Neville Roberts goes for a spin...

It's a good idea this, and one that should have been had by a great many more purveyors of turntables. If we, the analogue addicted cognoscenti (if you pardon the rather grandiose term for 'vinyl snobs') are going to get our message out to the CD spinning, music downloading multitudes, there should be a great deal more simple-to-set up decks on sale, made by serious marques that also sell really tasty high end gear.

Who better then than Clearaudio, based in Erlangen, Germany, to do the job? They entered the market in 1978 with moving-coil cartridges based on their unique symmetrical generator, but their products now range from high-end phono cartridges, tonearms and stylish turntables through to phono preamplifiers and Class A power amplifiers.

The new Concept turntable is claimed to be a deck that works straight out of the box. It's equipped with a new tonearm that incorporates a friction-free magnetic bearing and is fitted with a high quality Clearaudio Concept moving magnet cartridge. Apart from low friction, the magnetic bearing allows the arm to be shipped with the counterbalance weight and cartridge installed without risk of damage to the arm bearing. All the necessary adjustments are already completed at the Clearaudio factory - even the tracking weight and anti-skating force are pre-adjusted.

The turntable itself is spun by a belt driven decoupled DC motor fitted with low noise bush bearings (made of bronze and Teflon) and powered by a separate German power supply. Interestingly, all three speeds are possible, 33 1/3, 45 and 78 RPM, although I would be somewhat wary about letting the supplied Clearaudio Concept cartridge anywhere near a 78! The speed change is effected electrically via the selector switch situated on the left. This is a nice feature as many units in this price range require the user to move the belt to a different pulley on the motor spindle to select the required speed.

PLUGGING AND PLAYING

The turntable is well packaged and, not being too heavy, it was easy to remove from the box. The subplatter is already fitted and secured by a strip of blue adhesive tape. This would not cause any problems for transit as the sub-platter itself is extremely light. In fact, the subplatter is just a plastic moulding with a thin lip at the base to facilitate fitting the belt and having a metal centre spindle; it does, to my mind, look a bit cheap, but of course this will be hidden from view when the main platter is fitted. The tonearm wire exiting from the top of the arm, rather than the conventional route through the base pivot. This means that the tonearm wires loop from the top of the arm and enter the base through a hole adjacent to the pivot, but this is very neatly done. The only control knob is the on/off and speed setting control on the left opposite the arm.

The motor power supply is of the 'wall-wart' variety and will run from 100-240VAC 50-60Hz to provide the 12VDC required by the motor. Also included are a spirit level for levelling the turntable and a little bottle of synthetic bearing oil for lubricating the turntable centre bearing.

Setting it up was certainly very easy. Firstly, the turntable base is placed on a suitable surface of at least 17" x 14", according to the instruction manual. The base is of a non-suspended design and fitted with spiked feet, so a good, solid surface is essential. The spikes are quite small and unsophisticated - essentially a large diameter bolt with a spike at the end and a lock-nut. It's extremely important that the base is level and this adjustment has to be carried out in situ (see later). Next, the strip of blue adhesive tape is removed from the subplatter, allowing it to rotate freely. The manual very helpfully
contains 'before and after' pictures: the first showing the tape in place over the subplatter and the second showing what the tape looks like when removed — just so you know!

After fitting the drive belt over the motor pulley and sub-platter, the main 30mm-thick platter is then fitted. This is sensibly packed separately in order to avoid damage to the main bearing in transit. Following the removal of two more strips of blue tape and two pieces of packing foam rubber from the arm and cartridge, all that is left to do is to level the turntable by rotation of the feet spikes, using the supplied spirit level gauge for reference. Once the turntable is level, the feet adjusters are locked in place with their respective locknuts. Should you wish to do so, the manual does include instructions on how to adjust the tracking force, tonearm height (to set the VTA) and anti-skating device. I did adjust the tracking force myself using my digital gauge to ensure it was spot-on at the recommended 2.4g for the Concept cartridge.

This is easily accomplished by rotating the counterbalance weight.

I did have a small problem plugging in the power supply — the socket at the rear of the plinth is a bit flimsy and the one on my review sample disintegrated when I tried to push in the plug. I had to unscrew the socket to rescue the parts from inside the unit and make a connection! However, once I had sorted that, I was ready to connect the turntable to my amplifier and start listening!

SOUNDING OUT

To get things started, I placed a copy of J S Bach Partita No 1 by Trevor Pinnock (from an Archiv 2-LP set 415 493-1) onto the turntable. The solo harpsichord displayed real detail and clarity, making for a pleasant albeit not enthralling listen. I then turned...
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to a recording of a full orchestra - 'Haydn Symphony No. 35' by L'Estro Armonico & Derek Solomons (from a CBS boxed set CBS D3 37861) - which gave an encouragingly full sound with rich instrumental tone (something you'll love if you've come straight from CD), although in absolute terms the soundstaging was a tad two-dimensional. As you'd expect from a deck of this type, the recorded acoustic was restricted to the area between the loudspeakers, but within this there was again an impressive amount of detail in the upper registers and the excitingly sheer upper and lower registers and the excitingly sheer upper and lower frequencies, plus satisfactory tracking. It should give very smooth sound, warmer than usual on inner grooves where tracking loss reduces output -3dB at 10kHz.

The Concept is a somewhat 'eccentric' design, redeemed by good basic arm and cartridge performance. Set up was poor. Sound quality wise it should be conveyed to the listener. Ramping up the tempo with Jean Michel Jarre's 'Equinoxe' (Polydor Deluxe POLD5007) demonstrated a good dynamic range with a crisp top end and meaty bass. This deck didn’t seem to hold anything back from the recording with a fast and detailed performance that would mesmerise any digital converter! Checking the turntable speeds using my strobe disc showed that they were spot-on and there was no sign of drift when the cartridge was playing a record, which only served to reinforce my impression of this as an enjoyable performer.

A good punchy, yet tight bass response demonstrates that the arm and cartridge are well matched. Using my 'Vinyl Essentials' test record, I was able to confirm that the arm resonance was at 10Hz, which is comfortably within the acceptable range of 6-14Hz [see MEASURED PERFORMANCE]. However, the Concept cartridge tracking was a slight disappointment and it could really only manage tracking a groove modulation amplitude of 40 microns without any audible mistracking;

Vertical tracking force is applied non-linearly by magnetism in the Concept arm, a byproduct being the need to measure downforce at exactly LP surface height; if the measuring gauge platform is 1-2mm higher as our electronic scales were, VTF will read around 1gm too high (i.e. VTF increases rapidly with stylus height). We measured VTF on a gauge carefully height aligned to account for this, but Clearaudio elect to supply the Concept 'dealer aligned' to overcome this sensitivity to set up. They also omit any mention of all this in the supplied instructions, choosing not to provide a tracking force figure even. Set up isn't easy, making cartridge changing a challenging process.

The headshell of our arm was visibly tilted and channel separation unbalanced (-20dB, - 26dB) as a result. We loosened a small lock screw, set the headshell to horizontal and got balanced small hex screw, set the headshell to horizontal and got balanced separation figures (showing the cartridge's modulation axes were reasonably well aligned at least).

The cartridge mistracked on one channel but not the other, due to bias force being far too low. On a 1kHz torture track the cartridge simply skated inwards right across the grooves. Bias is another 'dealer adjustment' and was not set on our review sample. Since it requires test discs and equipment to do this properly it is more a factory setting than a dealer setting, and Clearaudio had obviously not set up this rather awkward design before shipping it. Turntable speed stability was good, unweighted wow measuring 0.15% and weighted 0.07%. All the same wow components at 2.3Hz and 20Hz were obvious under analysis. The arm measured very well, vibrational modes being minimal. The cartridge had an unusually smooth response, with a slight downward trend toward high frequencies, plus satisfactory tracking. It should give very smooth sound, warmer than usual on inner grooves where tracking loss reduces output -3dB at 10kHz.

The Concept is a somewhat 'eccentric' design, redeemed by good basic arm and cartridge performance. Set up was poor. Sound quality wise it should be good. NK

CONCLUSION
In summary, the turntable performed satisfactorily across a wide range of musical genres. I have to say that if I had £1,000 or so to spend, I can think of several turntable units I would choose above the Concept on both sonic and build quality terms, but then again the Concept was clearly not designed for anoraks like me! This turntable succeeds in catering for those who might otherwise be deterred by the thought of all the fiddly adjustments required by its price rivals, which if we're honest is most people!
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Noel Keywood finds Ortofon's new MC A90 moving coil cartridge to be the smoothest of the smooth...

If you run an Ortofon Cadenza Blue at home and a Cadenza Bronze at work, and if you love both as I do, Ortofon's new range topping MC A90 pickup cartridge is a surprise. It is not an extension upward of all Cadenzas offer, the ultimate step above the forthcoming Cadenza Black, as you might expect from a range topper, but rather a model that seems to exist in its own particular and slightly peculiar niche. Another range topper and potential rival I listened to recently, the Lyra Titan I, underlined how the A90 inhabits a world of its own.

Expensive moving coil pickup cartridges get ever more sophisticated in their construction, to banish the smallest of stray resonances in the body that might colour the sound. Ortofon build the A90's skeletal frame using a Selective Laser Melting process of stainless steel, I was told by Leif Johannsen of Ortofon, in a short intensive lecture at the Ortofon stand at the High End Show in Munich, May 2009. At that time the A90 and Cadenza Black were unavailable, but the A90 has since reached the real world.

The SLM process enables Ortofon to build in some of the generator assembly to improve locational rigidity and potential loss of information from this source. The solid boron stylus cantilever is held by a firmly located tie back wire and high frequency behaviour damped by the company's Wide Range Damping system (WRD) where a small, heavy platinum disc is sandwiched between damping pads of differing properties (my mind drifts back to Shure's anti-resonant damper used in the V-15, oh so many moons ago!). The effectiveness of this device is confirmed by the absence of high frequency peaking in our measured frequency response [see MEASURED PERFORMANCE]. But it is also one reason why the A90 lacks top end bite, or any sign of high frequency emphasis.

Attached to the boron cantilever is an Ortofon nude Replicant stylus that, they claim, gives extended groove contact together with a small minor radius so that short wavelengths can be read correctly. Our A90 was very similar to both the Cadenza Bronze (August 09) and Per Windfeld (April 08) in this area, but it is balanced differently and tracing loss has more impact on inner grooves as a result. As a seasoned Ortofon listener, I've yet to be certain about the differences between their Shibata tip and the Replicant, other than the latter seems a little more svelte and delicate in its rendition of treble. Perhaps this is as you'd expect, because the MC A90 suggests that, ultimately, this is where Ortofon want their statement cartridges to be.

The A90 comes well packaged, screwed to a clear acrylic plate supported by a sizeable box, albeit not one that's especially eye catching. Inside is a pouch with screwdriver, cartridge connecting wires and brush. Weighing 8gms, all arms will balance the A90 without difficulty. It is easy to fit because the body has tapped holes that accept normal fixing screws and Ortofon supply an unusual stylus guard that offers good protection should a fixing accident occur. Stylus guards are always a mixed blessing because they can be as likely to destroy the delicate cantilever as dropping the cartridge, and here the A90 rates as fair: providing the spigots of the guard are located in the body holes it guides itself safely into place. Shaky hands aren't going to easily manage though. If I ran the cartridge in an SME312S arm, through an Icon Audio PS3 phono stage and via my World Audio Design 300B amplifier and KLS9 loudspeakers

SOUND QUALITY

By top end moving coil cartridge standards, like the Van den Hul Grasshopper and Canary, or Lyra Titan I mentioned earlier, the MC A90 is unusually gentle and delicate in its approach. This is a far cry from just about all else I can think of except - should I say this? - last month's Goldring Legacy. Other than in basic tonal balance and high end smoothness, there is no comparison to be made between them though, as you might expect from the £2,400 price difference! But as a first and lasting impression the A90 is just remarkably, unusually soft in its balance and easy on the ear. It is fractionally more laid back than even the Per Windfeld, if more composed in the broad canvas it paints between the loudspeakers, and also more sophisticated in dynamic terms, across the midband. That's not to say the A90 is especially forceful at low frequencies, where I found it surprisingly mild mannered and less obviously muscular in its bass delivery than the Cadenzas, that by comparison offer a Technicolour
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<th>Goldring DR 50</th>
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A90 was both laconic yet powerful. The dynamics are so great. The cartridges can struggle with hot cuts. Stu Cook's energetic drumming but Through The Grapevine'. My 45rpm rendition was unexpectedly musical. The A90 portrays midband activity and was fully borne out. It has lovely soundstage free from clutter and artifice. There's no zingy treble, sound very mild mannered. Many will adore its distinctively smooth and mild mannered sound, but this slice of high end exotica lacks universal appeal for everyone.

The MC A90 has an almost ruler-flat frequency response that just about reaches Ortofon's claim for 20-20kHz within tight 1dB limits. It's quite an amazing feat in its own way and should result in super smooth, character-free treble. Many will adore its distinctively smooth and mild mannered sound, but this slice of high end exotica lacks universal appeal for everyone. The MC A90 will come across as a the world's most fearless orator. Not every listener will like it this way or it may sound too self effacing: I feared the A90 was uncommunicative in this respect. Whilst it was great at imaging, stage depth was not a strong property.

**CONCLUSION**

All this makes the A90 the world's smoothest operator in a system with solid-state phono stage and amplifier, and loudspeakers having a loudness control built in. In a system more toned, it may not suit. By current standards the A90 is a soft shoe on a vinyl stage that is gentle and delicate, sensitive and easy going. It is also very truthful and expressive across the midrange, but with less to say about extremes it does not come across as a the world's most fearless orator.

---

**SECOND THOUGHTS:**

This is a very fine, detailed and subtle performer, whose soundstaging and positioning of instruments like clarinet and bassoon is exceptional at the expense of body in the sound. This was most noticeable on woodwind instruments. I enjoyed the clarity this cartridge brought to older classical recordings, but felt that it came sometimes at the expense of body in the sound. This was most noticeable on woodwind instruments. I certainly found it worked better with the Icon Audio PS3 valve phono stage than via the Graham Slee Revelation, as the warmth and extra body of the former seemed to complement the right film of the cartridge. Match carefully and it's a fine musical instrument, but will not be for everyone all the same.

**MADE PERFORMANCE**

The MC A90 has an almost ruler-flat frequency response that just about reaches Ortofon's claim for 20-20kHz within tight 1dB limits. It's quite an amazing feat in its own way and should result in super smooth, character-free treble. For some listeners used to the more typical high frequency lift most cartridges possess the A90 may sound a little reticent, possibly lacking in sparkle. Impressed by this I remain a little concerned about how far cheeky can go without it sounding tonal balance, tilting to a little softness or warmth on inner grooves, but this slice of high end exotica lacks universal appeal for everyone. The MC A90 will come across as a the world's most fearless orator.

The A90's intrinsic clarity is a simple one: it presents music in a soundstage free from clutter and artifice. There's no zingy treble, all but no surface noise, no ticks and pops and absolutely no sign of fuzziness to triangles, cymbal crashes, rim shots or any other percussion. As I have come to expect from Ortofon stylish, high frequency resolution was superb, giving cymbal strikes a nice top end energy and top end bite. For some listeners used to the more typical high frequency lift most cartridges possess the A90 may sound a little reticent, possibly lacking in sparkle. Impressed by this I remain a little concerned about how far cheeky can go without it sounding.

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Rega's P3 is an evergreen budget turntable that's highly and easily upgradeable. Neville Roberts investigates a package of modifications from ISOkinetik...

Few would disagree that the venerable Rega Planar 3 turntable is one of the best entry-level designs, and so it has been since its introduction in 1978. In 1983 it received the (then) new RB300 tonearm, and from then until quite recently remained almost the same, aside from a name change to P3 around a decade ago. As such, there are countless decks around on the secondhand market, and a whole culture of modifying them has sprung up.

ISOkinetik is one company that has specialised in this. Although the marque has only recently been involved in actual turntable manufacturing [see Hi-Fi World January 2010], they nevertheless have decades of involvement in audio equipment design and their mechanical engineers have been producing precision engineered products for many years. The company also has experience in sound recording in both live and studio environments, with a number of award winning albums to its credit.

THE UPGRADES

Decks and tonearms can be upgraded in a variety of ways. These upgrades fall into two categories; those that are easily reversible without permanently altering the original item and those that require a more committed approach, for example, tonearm rewiring. These simple enhancements can breathe new life into an audio system, without breaking the bank.

One of the simplest and best value for money products is the ISOweight, an underslung counterbalance which lowers the centre of gravity to a point closer in line with the cartridge. This should improve the tracking resulting in better focus and clarity. The ISOweight is used in conjunction with the ISOend, which replaces the plastic end stub on Rega RB250/251 arms with a steel stub.

The ISOsub subplatter kit comprises a replacement phosphor-bronze bearing supplied with either a ruby (as reviewed here) or ceramic 4.7mm diameter ball, together with an aluminium and ground-steel subplatter assembly. The subplatter is precision engineered with 0.001 mm concentricity between the axle and hub. This greatly improves pitch control and should add grip to the lower and sub frequency ranges. The ISOsub is supplied together with some ISOlube long chain carbon spindle oil.

The choice of materials for the bearing ball is interesting. Both the ceramic and ruby balls are essentially aluminium oxide Al2O3 and are extremely hard materials. The ceramic has a hardness of 1900 HV (Vickers hardness) and the ruby is slightly harder at around 2300 HV; a hardened steel ball would have a hardness of less than 1000 HV. As it happened, I did have the opportunity to try all three materials in the upgraded Rega, but found it difficult to quantify any audible differences between them within the time frame of the review. I think further listening tests may be called for here.

There are two ISOplatters available: the 12mm deep acrylic platter and the 25mm deep acrylic platter. The latter was used for this review. ISOkinetik considers that these platters change the overall presentation by reducing some of the harshness which can be associated with glass platters. The ISOplatters are used without felt mats as the vinyl mates well with the acrylic surface.

Moving on to the tonearm, ISOkinetik can supply shielded external only interconnects and...
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The ISOplatter and ISOsub (top) side by side.

The ISOdrive turntable motor drive system regulates the turntable motor using a quadrature-quartz speed generator to improve pitch stability and speed accuracy. As well as the Rega Planar 3 used here, the ISOdrive is suitable for the Rega Planar 2, P2, P3 and P2S as well as for various turntables manufactured by Linn, Manticore, NAD, Kuzma, Thorens and Systemdek. The ISOdrive produces switchable 50Hz or 67.5Hz at 115V AC to run the synchronous motor. This means that instead of having to remove the drive belt and move the belt from the smaller top pulley to the larger lower one to effect the speed change, the drive belt can be left on the upper '33 1/3rpm' pulley and the button on the ISOdive used to set the speed.

Finally, a trio of ISOfeet were supplied, which are spiked aluminium feet incorporating Sorbothane isolation. These are placed or glued under the turntable to help isolate it from external vibration.

TESTING

For the tests, I was supplied with two early model Rega Planar 3 turntables, both with fairly close serial numbers — one in its standard form fitted with an RB300 arm and the other deck fitted with the upgrades. A Denon DL-103 moving coil cartridge that had been fully run-in for around thirty hours and fitted with an ISOcartridge stabilisation upgrade was used on both decks. Incidentally, this threaded stabiliser is simply a support assembly that increases the mass by 3g and lowers the cartridge in the headshell and is a great improvement to the Denon for only £15.

The first thing I noticed about the ISOkinetik/Rega unit was the overall sense of quality. The upgrades seem to have blended well with the original Rega unit and there was no sense of bolt-on extras being fitted. I was familiar with the rather stunning look of the ISOplatter and ISOsub from my previous review of the Modular One turntable and, to my eye, it transforms the appearance of the fairly bland 'black-on-black' look of the Rega Planar deck.

Starting with the unmodified turntable, I slipped on a copy of ‘Music for Four Harpsichords — C P E Bach Concerto in F major’ (Decca Ace of Diamonds SDD 451). This is a great recording and it is quite a demanding test to be able to separate the furious plucking of the strings on four separate harpsichords; all four were clearly audible and much at home in the RB300 arm as my later tests also confirmed. The overall performance demonstrated why the Rega Planar has a well-deserved following amongst audiophiles. A swift check with my trusty ‘Vinyl Essentials’ test record, showed that the arm/cartridge resonance was at 8Hz — just in the acceptable range of 6-14Hz.

However, the tracking ability of the Denon was impressive; it stayed within the acceptable range of 6-14Hz. The piano sparkled with a delightfully tuneful Ashkenazy touch.

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Fidelity Sound of Pink Floyd's legendary 'Dark Side of the Moon' (MFSL 1-017) was very revealing. 'Money' came across as clear, detailed and open. Bass was well-controlled, splendidly punchy and tight.

Switching over to the modified Rega and repeating the same tracks was enlightening indeed. My 'eyes-closed' test of realism in the performance of the harpsichords in the C P E Bach showed that things had clearly improved. What was particularly noticeable was the greater depth to the sound stage – the harpsichords were not just positioned left to right, but front to back as well.

The Prokofiev again gave an altogether more believable performance than without the upgrades and the clarity and smoothness of the strings was an absolute delight. The bass guitar in the Pink Floyd was somehow more tuneful and definitely tighter and smoother of the strings was an absolute delight. The raspy vocals were altogether better reproduced. Even the cash registers glimmered with clarity. The overall dynamic range had also improved.

A re-check of the tracking showed that, unsurprisingly, it was the same as with the unmodified arm, but the arm/cartridge resonance had increased to a very satisfactory 12Hz. Having the two decks side-by-side made it relatively easy to swap components between them and I was able to attribute the increase in resonant frequency to the ISOweight, making this a surefire recommen-
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An effective method of cleaning records is an essential part of any LP replay system, but record cleaning machines are still too exotic (and too expensive) for many listeners. So, a well chosen set of specially designed tools such as this Vinylcare Record Cleaning Kit is a welcome development. At its heart is Disc Doctor’s ‘Miracle Record Cleaner’ cleaning solution and special pads, imported from the USA. Added to this in the kit is absolutely everything else that you will need, apart from the records and somewhere to work.

The first step is to remove the loose dirt with the carbon fibre brush. As this brush is bound to get a bit mucky a second one is included for dusting off “cleaned” records before everyday replay. Next, the ‘Disc Doctor’ solution is brought into play. Using this with the special cleaning pads is where the work is done and it takes a bit of practice to get the action just right, but once mastered it’s pretty painless. The record is then rinsed under a running tap (mind that paper label!) to remove the cleaning solution, this is probably the most fraught part of the whole process as it invariably involves getting under your wife or partner’s feet, so be careful. The final stage is to wipe the record again with a second cleaning pad and the distilled water, after which the record can be declared clean!

It is recommended to give the disc a once-over with the clean carbon fibre brush and the stylus a quick wipe with the Dry Clean pad (included) before listening, if you don’t want your stylus to be the final link in the record cleaning chain. Finally, the record should be replaced in one of the polythene lined inner sleeves provided.

On audition, the results were most impressive; the obviously well-used test records looked clean, sounded good and the number of pops and clicks were not far off what one would expect from new ones, not bad for something that could have been a table mat or part of the clutter on a teenager’s bedroom floor in its past life! As the Vinylcare kit is so comprehensive I’d recommend it most for those who are either new to LPs or are returning to them. The more hardcore disc spinner may find that they have a lot of the tools already but as these things don’t last forever it’s still worth considering.

[Contact: www.vinylcare.co.uk]

SOUNDBITES

ORIGIN LIVE ARM LOAD METER £57

It’s hard to underestimate the importance of Vertical Tracking Force (VTF, but normally called ‘tracking weight’) to a turntable playback system. No matter how good the deck is, or how expensive the tonearm may be, if the cartridge is not ploughing the groove at the right weight, nothing can sound right. Too low and things get skittish and harsh; too high and the disc sounds leaden and unengaging. That’s why manufacturers supply recommended tracking weights with all their cartridges, along with the tracking force range which simply tells you the weights you can run without causing damage to the disc. The trouble is, many tonearms these days simply don’t have tracking force dials, and if they are fitted, you can’t be totally sure that they’re correct, which is why there’s a good case to be made for investing in a product such as this.

There are of course a number of products around, including some good weighing scale-type designs from the likes of Ortofon and Shure to name but two. There are also some great high end electronic stylus balances too, some of which are closer to male jewellery than functional, utilitarian vinyl care products. This Origin Live arm load meter slots straight between the two extremes, giving a very accurate reading which correlated very closely to my reference Technics SH-501 electronic stylus balance. The gauge displays figures from 5g down to 0.001g on a large LCD screen, with a claimed accuracy of +/- 0.002g. It’s nicely compact at 99x44x22mm, comes with a neat vinyl case and uses two AG 12 1.5v batteries. A decent quality product at an affordable price.

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**Denon DVD-2500BT**
包括高音质多DAC转换技术。双单路设计的Tucana II使用三个重叠的电源变压器，一个改进的线圈输出电路，并且能够推动超过四十五安培的电流，以精确控制扬声器。

**Leema Antilia II CD Player & Tucana II Amplifier**
为了忠实传输全高清视频和高清音频信号，带来电影质量的全高清效果。这些新的全高清DLP投影仪来自Optoma结合了精致的设计，灵活的连接性和超出预算投影仪的水平的再现。

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**HOME CINEMA RECEIVERS**

**HI-FI & HOME CINEMA SPEAKERS**

**DLP PROJECTORS**

**HI-FI SEPARATES**

**Pro-Ject Genie MKIII**
获得今年的奖项。2009年，以高音质多DAC转换技术。双单路设计的Tucana II使用三个重叠的电源变压器，一个改进的线圈输出电路，并且能够推动超过四十五安培的电流，以精确控制扬声器。

**Denon AVR-2310**
这款获奖的AV接收器结合了精细的规格，坚固的构建与令人惊叹的低音动态和细节。

**Samsung 6000 - 7000 - 8000 Series**
三星的2009系列包括全1080p LED型号，包括获奖的UE4688000。

**Panasonic VIERA TX-L37S10**
获奖的37" LCD TV，银色屏幕装饰，以及包括Panama，Freesat和1080p高清模式的范围。

**Pro-Ject Genie MKIII**
取代了Genie 2，MKIII版本包括一个新的电机，更稳定的电机基座和一个新的音臂与传统的防震。随附OM3e碳纤维和安装，Genie MKIII有标准黑色，白色，钢琴黑色和红色完成选项可额外收费。

**Denon DVD-2500BT**
包括高音质多DAC转换技术。双单路设计的Tucana II使用三个重叠的电源变压器，一个改进的线圈输出电路，并且能够推动超过四十五安培的电流，以精确控制扬声器。
**Wharfedale Diamond 10.1**
This slim, elegant version of the 10.0 classic combines insight, precision and control along with fine build and finish.

**Q Acoustics 2000 Cinema Pack**
Smart styling complements the Q Acoustics' market leading performance.

**KEF KHT3005SE**
Award winning 5.1 speaker package available in high gloss black finish.

**Dali Lektor**
Dali complements its range with the Lektor 2. Only slightly larger than the award-winning Lektor 1, this new model represents outstanding value.

**ALSO AVAILABLE Fasen A/V Speaker Package**

---

**ALL-IN-ONE SYSTEMS**

**Denon D-M37DAB**
Denon's micro systems are back. This award-winning model, available in silver or black, features a CD player, capable of reading MP3 and WMA discs, a DAB tuner and 30W amplifier. Optional SC-M37 speakers.

**Arcam Solo Mini**
Award-winning integrated CD, Radio and Amplifier with iPod control via optional roadDock.

**Teac Reference 600**
Award-winning network comprising the PD-H600 CD player and AC-1 Hi-Fi Network Receiver. New features include both wired and wireless network connections for internet radio, a DAB tuner and a healthy 2 x 75 W power output.

**B&W Zeppelin**
This award-winning iPod docking station ticks all the boxes: it's beautiful, solid as a rock and sounds amazing!

**Sonos BU250 Bundle**
This 10th generation multi-room digital music system lets you play your favourite tunes all over the house - and control them from the palm of your hand. Even play different songs in different rooms.

---

**ESSENTIAL ACCESSORIES**

**SONYSTYLEO GRADO QED**

**MULTI-ROOM AUDIO**

**Sonus BLU250 Bundle**
This multi-room digital music system lets you play your favourite tunes all over the house - and control them from the palm of your hand. Even play different songs in different rooms.

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Digital

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<thead>
<tr>
<th>Was</th>
<th>Now</th>
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<tr>
<td>Ah Tebo 4000 CD player S/H</td>
<td>850</td>
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<tr>
<td>Audio Research CD7 valve CD player S/H</td>
<td>7495</td>
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<tr>
<td>Copland CDA823 X-demo</td>
<td>2300</td>
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<tr>
<td>Krell Evolution 505 cd/sacd xdemo</td>
<td>8598</td>
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<tr>
<td>Krell Showcase DVD x-demo</td>
<td>3698</td>
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<tr>
<td>Living Control Music Box 3 BNIB</td>
<td>2887</td>
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<td>Living Control Room Box4 BNIB</td>
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<tr>
<td>Naim Audio PS555 Power supply S/H</td>
<td>4895</td>
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<tr>
<td>Oracle CD100EVO S/H</td>
<td>1500</td>
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<tr>
<td>Pathos Acoustics Endorphin Valve CD Player S/H</td>
<td>6750</td>
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<tr>
<td>Roksan Kandy CD MK1 S/H</td>
<td>N/A</td>
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<tr>
<td>Wilson Audio System 8 obsidian black S/H</td>
<td>23998</td>
</tr>
<tr>
<td>Wilson Audio Witt Loudspeakers S/H</td>
<td>18000</td>
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Cables and Accessories

47 lab Kisherson speaker cables 2x 4m x-demo | 720 | 399 |
Atacama Equinox 3 tier stand x-demo | 375 | 199 |
Atacama Europa Reference 8 3 tier S/H | 550 | 299 |
Cardas Cables Golden Cross 3m speaker cables | 1999 | 999 |
Cardas Cables Golden Cross 6m set of RCA interconnects | 2830 | 1415 |
Crystal Cable Piccolo 1m RCA S/H | 348 | 199 |
Densen De-magic BNIB | 10 | 5 |
dCS AES/EBU 0.5m S/H | 350 | 129 |
Eichmann Express 4 interconnects BNIB | 80 | 49 |
Electrocompaniet ECS1 M6 feet x4 BNIB | 189 | 49 |
Madrigal MDC1 1m AES/EBU 110 ohm Digital Cable S/H | 420 | 199 |
Siltech HF9 AES/EBU 1m Digital S/H | 420 | 199 |
Spectral MH-750 2x 2.5m Speaker cables S/H | 1050 | 399 |
Spectral MI-350 20ft interconnect S/H | 2100 | 899 |
Transparent Balanced Reference 2x30ft x-demo | 6345 | 3499 |
Transparent Music Link Super XL 1m RCA S/H | 599 | 299 |
Transparent Reference SC 2x10ft x-demo | 6192 | 3399 |

Preamplifiers

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<tr>
<td>Audio Research SP17 stereo preamplifier x-demo</td>
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<tr>
<td>Karan Acoustics KAL preamplifier S/H</td>
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Amplifiers

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<tr>
<td>Anatak A50R Remote class A integrated x-demo</td>
<td>1850</td>
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<tr>
<td>Audio Research VT 60 S/H</td>
<td>N/A</td>
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<tr>
<td>Exposure 3010s Integrated 3 months old S/H</td>
<td>999</td>
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<tr>
<td>Gryphon DM100 Dual mono power amplifier S/H</td>
<td>15000</td>
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<tr>
<td>Jadis DA88s valve integrated S/H</td>
<td>11000</td>
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<tr>
<td>Krell Evo 302 300w stereo power amplifier Black x-demo</td>
<td>8950</td>
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<tr>
<td>Krell Evo 402 400w stereo power amplifier Black x-demo</td>
<td>12900</td>
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<tr>
<td>Krell FPB300C S/H</td>
<td>9989</td>
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Loudspeakers

<table>
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<tr>
<td>47 Lab Lens black S/H</td>
<td>1000</td>
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<tr>
<td>Avalon Opus Cherry S/H</td>
<td>16000</td>
</tr>
<tr>
<td>Martin Logan Fresco pair inc stands S/H</td>
<td>1500</td>
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<tr>
<td>Martin Logan Purity x-demo</td>
<td>2700</td>
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<tr>
<td>Martin Logan Vantage dark cherry x-demo</td>
<td>5149</td>
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<tr>
<td>Martin Logan Vista Dark cherry x-demo</td>
<td>3490</td>
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<tr>
<td>Martin Logan Summit Series Cherry S/H</td>
<td>10989</td>
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<tr>
<td>Rega R1 Cherry x-demo</td>
<td>298</td>
</tr>
<tr>
<td>Sonus faber Cremona Ellipsa Maple x-demo</td>
<td>12980</td>
</tr>
</tbody>
</table>

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RUSS ANDREWS yellow 6 way extension block 3m cable, yellow 1.5m main cable, silencer filter, £120. Will split, Other items, Call Mike 01902 884694.

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All postage inclusive Tel 01984 640388.

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VACUUM STATE SVP2 valve preamp, carefully built from the VS kit early 2009. Phono plus 5 line inputs, switched attenuator volume. Can demo, East Midlands area. £3200. Tel 01604 709541

2x LEAK TL25+ valve amps, 1 black 1 gold, Leak Troublignue Stereo tuner, Leak Point. One stereo pre amp. Leak Stereo 20 valve amp. Some valves missing. Davedha@hotmail.co.uk

LIBERTY AUDIO Suite, speaker designer equipment, complete with pc card, amplifier, cables, microphone tripod, netcalc, box/mod user manual, pc if needed at no extra cost email or phone mike 01189693377

QUAD ESL 2905. Absolutely perfect, 2 hours use only from new (4 weeks ago), Black/Silver. All accessories. Demonstration/ Pictures on request Sell for £5500.00 (rrp £7000.00) Contact Neil on 01925 656990 or nemal @aol.com

RUSS ANDREWS DAC-1 USB. Excellent condition. Perfect working order. 1 co-axial, 1 USB, 2 optical inputs. 192khz upsampling £375 inc P&P.0151-608-2008 davidstuartbiggs @yahoo.co.uk

MUSICAL FIDELITY AS CD player, mint, boxed, instructions etc. Superb sound £500.

EPOS 11 classic 80s speakers, unmarked walnut but one bass unit faulty £50. 07767 858285 (Perry) and jandreeves@aol.com.

FOR SALE. Quad 57 electrostatic loudspeakers. £1000 spent on complete rebuild by one thing audio, new style black cloth grilles, and new style stands, first class condition £720.00. Tannoy dimension 10 loudspeakers excellent condition, hardly used, new price £5000.00 sell for £2400.00. Ring for more information Graham, 01622-750732, Kent area.

ELECTRONICS HOBBYIST requires a faulty or non working Quad 44 preamp for project. Also Shure V15-3 or 4 cartridges, Denon DL103 cartridge. Contact Mike with reasonable offers 01758 613790.

KOETSU BLUE Lace. Never mounted, brand new platinum coated very little, finest ever Koetsu. Boxed. Pictures on request. Sell for £5995.00 ovbo (rrp £11,000.00) Contact Neil on 01925 656990 or nemal@aol.com

SILTECH FT4M Gold SG3, 1.0m Perfect condition, boxed, very little use. Surplus to requirements. Demonstration/Pictures on request. Sell for £9595.00 ovbo (rrp £3200.00) Contact Neil on 01925 656990 or nemal@aol.com

WANTED: B&W 805S Cherry wood speakers with FS-805 black stands in mint condition - Email pics and expected price to madambvs@hotmail.com

BRITISH JAZZ LPs wanted i960s - 1975, Michael Garrick, Rendell/Carr, Stan Tracey, Joe Harriott, Mike Taylor, Ned Arley, John Surman, Mike Westbrook, Tubby Hayes etc. John 0117 908 1936

Wharfedale 60 Speakers by G A Briggs, 13" woofers,8" mid range/tweeters. Sand filled rear cabinet, Danish design cabinets, very good condition, £50 pair. 01489891539.
WDKEL84 Valve Amplifier Kit

"The quality that can be gleaned from this amp is a fine introduction to the joys of the valve sound"

The WDKEL84 features a pair of EL84 valves in Push Pull configuration per channel, providing two channels each 18 Watts into an 8 Ohm load. Available as a 5 input integrated amplifier with ALPS volume control.

WDKEL84 kit £499
WDKEL84 built and tested £649

WD88VA Valve Amplifier Kit

"The result is an amplifier that combines majesty, transparency and rhythmic boogie factor with the ability to swing and sing on all types of music"

Often described as a 'sweet sounding' valve, our particular implementation of the KT88 makes sure that it is driven to its ultimate performance. Available as a 35W stereo power amplifier with single input volume control, or as a relay switched integrated with five inputs.

WD88VA kit £989
WD88VA built and tested £1289

WDHD3S Headphone Valve Amplifier Kit

"WDHD3S is a single-ended design with the power pentode wired up in triode configuration for added purity and is as quiet as a mouse"

A beautifully simple stereo headphone amplifier design using Mullard ECL83 valves. It works directly from any source. The circuit uses twin high specification E/I output transformers that can be switched to drive any headphones between 16 to 300 Ohms.

WDHD3S kit £398
WDHD3S built and tested £528

WD25A Standmount Speaker Kit

"The one aspect that stands out is the easy ability to resolve instruments and voices ... bass quality and definition is a revelation"

The aperiodic enclosure offers the bass clarity and definition of a larger closed box, together with the efficiency and easy amplifier load necessary for users of valve amplifiers. Available with SEAS STD soft dome treble unit, or high performance SEAS Millenium treble unit.

WD25A STD kit (pair) £269
WD25A EX kit (pair) £699

WD25T Floorstanding Speaker Kit

"The WD25T always sounds crisp and taut, but can 'rumble' menacingly giving impressive physicality reminiscent of far larger boxes. Imaging is superb, the midband is also special; it's very open with masses of detail about the condition of the recording"

Cunningly arranged as an aperiodic enclosure leading to a lower sealed compartment, the WD25T combines the optimum damping of aperiodic loading with the bass extension of a large closed box. Available with STD soft dome or high performance Excel treble units.

Both the WD25 kits are based around a SEAS 26cm (10") paper cone bass unit with an efficiency of 89dB for 1W. The crossover has been developed for an easy drive 6 - 8 Ohm load making the system ideal for all types of amplifiers.

WD25Tv2 STD kit (pair) £329
WD25Tv2 XL kit (pair) £499

All our kits are complete with pictorial easy-to-follow instructions.
All parts are included - all you need is a screwdriver and soldering iron.

www.world-designs.co.uk
Tel: 01832 293320
CLASSIC CONTACTS

When a classic goes 'p000f' your troubles have just started, but there may be a good ending. Replacing failing parts can improve the sound, so here is a short listing of all those companies who specialise in getting a classic up and running again after its deposited a small ring of soot on your ceiling!

GT AUDIO (Graram Tucker, Bucks) Tel: 01905 833099

LEAK Troubleshoot speakers. Also Quad and most classic turntables, tuners and amplifiers restored, repaired. Tel: 01905 833099

TECHNICAL and GENERAL (East Sussex) Turntable parts - wide range of spares and accessories, plus arms and cartridges. Tel: 01992 654534

CARTRIDGE MAN (Len Gregory, London) Specialist cartridge re-tipping service and repairs. High quality special cartridges.
Tel: 020 8868 6655
Email: thecartridgeguy@talktalk.net
www.the cartridgeguy.com

AUDIO LABORATORIES (Leeds) (Phil Pimlott, Leeds) Repairs, restoration. Specialists in valve hi-fi, radio transformers, speakers, interstage plus all associated services. Tel: 0113 244 0378

QUAD ELECTROACOUSTICS (Canons) Quad's service department, able to repair almost all Quad products, from the very first. (Also Audiolab, Mission & Wharfedale). Tel: 0845 4580011

LORICRAFT AUDIO (London) 40 years experience in turntable and speaker renovation and service. Special price on rumbly turntables. Tel: 0114 2360166

SANSUI G9000 rare classic receiver. Fabulous tuner. 160wpc, pre-amp separa te, just serviced, vgc. Original packaging, owners and service manuals. £750ono. 01798 813133 or renc@blrs.freeserve.co.uk

PIONEER CLD-D925 LD/CD, Yamaha DSP-A3090 amp 2 Mission 752, 2 Mission 751, Mission 75C speakers REL Strata II Sub-Bass All leads/ manuals Offers over £500.00 07541967951

ONE THING (Cowley) Specialist in electronic components. Range of large area transistors, valves, capacitors for valve, cartridges, line stage interstage plus all associated services. Tel: 01477 252794

DR MARTIN BASTIN (Shropshire) Garrard 301/401 restoration, renovation and service. Special price on rumbly turntables. Tel: 01584 823446

REVOX (Brickwells, Cheshire) Tape recorder spares, service and repair. Accessories also available. Tel: 0161 499 2349

CLASSIC SOURCES (Paul Greenfield, Leicester) 85l/75 restored, rebuilt, fully renovated or improved. Tel: 0845 1235173

WESSEX TWOO mm/mc phono stage with 2 panels of Whest phono supplied interconnected, boxed, mint, new in 2009, £425 cost £650, tel 0114 8787107

LINN KABER active speakers & 3x Linn LK100 power amps in black. All in (A1) excellent condition. Aktive cards included and all.cables.(over £4000 new) Asking £1100 Tel 01647 61421 pat.tranent@yahoo.co.uk

CARTRIDGE TRANSFORMER (Brian Bowey, Worthing) Large range of audio transformers for valve amps, cartridges, line stage interstage plus all associated services. Tel: 01708 447344

ONYMPAMIFIER STR-1070. Cinema surround sound, DTS, DD, RDS, Silver colour plus many other features. Brand new and never used when purchased due to circumstances unfortunately. Cost £500. Sell at £400 ono. Tel 01245 677055

ONE OF THE BEST PRE power, flatcap2, excellent condition, boxed (£1850) £750 ono, Linn Iklc, excellent condition, boxed (£1950) £800 ono. 01384 350412 (West Midlands)

I HAVE Audo lab CD4 + Audiolab DAC for sale. Tel 07917 799070

BEL CANTO Pre3 pre-amplifier, excellent condition, boxed with user manual £550. Tel: 01603 702330.

PROAC STUDIO 250's, pair of quality floor standing speakers for sale, good condition, photos available. Original cartons with it but these are heavy speakers so collection would be the best option. Tel: 07786 705266

VOIGHT SPEAKERS complete with Fostex drivers. Fabulous sound with low power amps. Very affordable. Tel: Don 01902 764 477
NEXT MONTH

You’ll be full of the joys of spring with March’s Hi-Fi World, as we’ve a top mix of super new products and a few classic older ones! We announce the return of Deltec Precision Audio, with the brand new CA1/SA1 pre-power amplifier combination, and test the breathtaking Simon Yorke S10 turntable. We test the mighty Musical Fidelity AMS50 power amplifier (pictured) and there’s a tuner supertest with some of the best analogue radios currently on sale. Here’s just some of what we hope to bring you...

**TUNER SUPERTEST:** CYRUS FM6, MARANTZ ST-1551, MYRYAD MX14000, MICROMEGA FM-10, NAD M4 MASTER

**ELECTROCOMPANIET AW400 & MUSICAL FIDELITY AMS50 POWER AMPLIFIERS**

**OLDE WORLDE:** RICHARD ALLAN A21 AMPLIFIER

**ANT AUDIO AMBER SE HEADPHONE AMPLIFIER**

**VALVET L1/A1r25 PRE-POWER AMPLIFIER**

**DPA-CA1/SA1 PRE-POWER AMPLIFIER**

**SHURE SRH240 EFS PRO HEADPHONES**

**SOUNDSMITH OTELLO-M MOVING COIL**

**PHILIPS BDP-7500 BLU-RAY PLAYER**

**Q ACOUSTICS 2020 LOUDSPEAKERS**

**ONIX CONCERTO 1 LOUDSPEAKERS**

**SENNHEISER HD800 HEADPHONES**

**DEVORE GIBBON LOUDSPEAKERS**

**GYRODEC SUPERSIZED FEATURE**

**SIMON YORKE S10 TURNTABLE**

**USHER V-604 LOUDSPEAKERS**

**ARCAM iRDCK IPOD DOCK**

**CYRUS UPGRADE FEATURE**

**INSPIRE i2 TURNTABLE**

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ADVERTISERS INDEX

2nd Hand HiFi 92
ABC Audio 52
Analogue Seduction 114
Anatek Research 104
Angelsound Audio 62
Audio Component 87
Audio Emotions 46,68
Billy Vee 108
Big Ears 68
Black Rhodium 94
Chestergroup 64
Classic Sounds 110
Classic LPs 99
Cymbiosis 114
Cyprus Audio 102
Decent Audio 102
DNM 90
Electrocompaniet BC 52
Emile Labs 90
Heathcote Audio 108
Heatherdale Audio 102
Henley Designs 60,69
HiFi Sound 92
High End Cable 110
IAG 86
Ian Harrison 110
Icon Audio 80
IsoKinetic 68,94
Jordan Acoustics 61
JR Engineering 104
KEF 20
Kronus AV 104
Kudos 102
Mantra Audio 106
Midland Audio Exchange 122
Manchester Audio Show 63
MIT Cables 14
Musical Fidelity IFC,44,66
Naim Audio 32
Origin Live 116
Oxford Audio Consultants 50
Parts Connexion 116
Radlett 96
Rayleigh Hi-Fi 87
Retro Reproduction 106
Rock Solid Sound 90
Russ Andrews 106
Sevenoaks 112,117,118,119,124
Signals Hi-Fi 116
Sound Dead Steel 87
Sound Foundations 6
Sound Hi-Fi 102
Sound Location 114
Sound & Vision, The Bristol Show 48
Tannoy 36
Triangle 24
Turntable World 92
UKD Studio 114
Usher IBC 28
Vivid Audio 28
Whést Audio 96
World Audio Design 126

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MARCH 2010 - 5TH JANUARY 2010
APRIL 2010 - 5TH FEBRUARY 2010

www.hi-fiworld.co.uk  FEBRUARY 2010 HI-FI WORLD 129
back in 1944, record producer Norman Grantz decided to arrange a concert in Los Angeles, as a fund raiser, and he invited a range of jazz greats including Illinois Jacquet, Jack McVea and Nat King Cole to take part. The event was very well received – in fact, it was a complete triumph and more concerts were subsequently arranged. Consequently, the invited guest musicians, whose line-up changed on a frequent basis, went on tour with the show while a series of LPs were released to celebrate the events. The shows also featured a certain amount of altruism on Grantz's part in that – as a passionate jazz fan – he paid his stars well (a novelty for those taking part, many jazz stars spent their lives being ripped off by other, unsavoury, music business characters) and Grantz was indomitable in his fight against racism of all sorts.

The long running series of 'Jazz At The Philharmonic' events has achieved legendary status amongst jazz aficionados and now, via Speakers Corner, you can buy a chunk of one of the tours that Grantz undertook. Specifically, on 21st November 1960, in the Konserthuset, Stockholm, Sweden.

Taking two years to develop, the company has released a magnificent box set of the event. Within the pizza-style container sit four LPs that represent four individual albums, released to commemorate the event and feature greats such as Dizzy Gillespie, Cannonball Adderley, Stan Getz, Benny Carter, Roy Eldridge and, a little unusually, Lalo Schifrin. Each album is presented as a single entity with an inner sleeve and card outer sleeve with full cover art and its own liner notes on the rear. You also get a LP-sized booklet detailing an interview with German promoter and tour director for this jazz event, Fritz Rau. A remarkable man, he brought just about every major star to the German shores from Hendrix to Dylan to Zappa and more. His brief thoughts on Grantz are enlightening.

It would be true to say that this set would never have been released but for a fortunate phone conversation with a journalist who alerted Speakers Corner that the original albums existed in the first place. Seemann, revealed that, armed with this new knowledge, he approached Universal where the following, highly paraphrased, conversation took place.

"I'd like to reissue the 'Jazz At The Philharmonic In Europe' albums please."

"The what?" "Jazz At The Philharmonic In Europe... you own the original masters." "Er... do we?" The problem, you see, is that Universal only 'sees' a set of masters if it arrives in its system - a sort of database. But that system only flags a master's existence in the first place if the company has decided to release those masters as a CD. Yes, I know what you're thinking, how much music has Universal got in its vaults that it knows nothing about? Let's quantify it as 'lots'!

"We had to supply Universal with all the necessary information about the albums, the tracks, the length of the tracks, which I timed myself," said Seemann. "I assume that they then went to the Verve archive and searched for it manually or that they had a specific entry within that individual Verve library."

"I really had to push Universal to complete this project. Mainly because, when new recordings go onto the system, the label has to undertake a lot of paperwork: the artist's details, times, musician's details, who owns the rights... it's a lot of work. They try their best to avoid this so I really had to push them."

Think about those stories you hear of policemen not making arrests because they know it'll incure paper work and you get the general idea of Universal's attitude to this project. Seemann however, feels lucky that the label does 'put itself out' for him but believes that, if it wasn't a jazz project, the label might not bother at all. Maybe this is why much classic pop and rock remains dormant in the Universal archives.

All the effort was worth it, however. Considering this is a live recording, the set offers an almost perfect remaster which I don't think could be bettered. Inky black silences, where appropriate, draw you right into the performances which light up with vitality and energy..."
Size really doesn’t matter.
Close your eyes when listening to the Usher DANCER mini speakers, and you forget about their size immediately. The weight, energy and scale of ambience reproduced by these speakers simply defy their physical size. You’ll also be pleasantly surprised that coherence and precision, often unique to small monitors, are an essential part of the Usher DANCER mini experience.

**DANCER mini one**
- 2-way system
- 1.25" be dome tweeter
- 7" woofer
- sensitivity: 87 dB @ 1 watt/m
- nominal impedance: 8 ohms
- frequency response @ -3 dB: 38 Hz - 40k Hz
- dimensions (w x d x h): 31 cm x 36.5 cm x 105cm

**DANCER mini two**
- 2-way system
- 1.25" be dome tweeter
- two 7" woofers
- sensitivity: 90 dB @ 1 watt/m
- nominal impedance: 4 ohms
- frequency response @ -3 dB: 28 Hz - 40k Hz
- dimensions (w x d x h): 34 cm x 48 cm x 123 cm
SOUND OF NORWAY

Electrocompaniet ECI-3
A highly revealing and powerful amplifier that is extremely well built and finished...

Jason Kennedy, Hi-Fi Choice, October 2009

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