AUGUST 2013

THE HOME OF REAL HI-FI

& Record Review

Exclusive

Roksan's Oxygene system unveiled

'Home of the Live LP'

Classic Venues, the Budokan, p3:1

Air Tight in Japan Special report, p16



Avalon Compás Multi-faceted floorstander

Pep-up your pickup Canor's flagship phono stage

Group Test

Networked hi-fi

Five players from £300-£2k

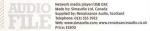


5XI – the ultimate tube amp?



AUDIO MILESTONE Finial laser turntable saga • READERS' CLASSIFIEDS Hi-fi bargains galore





Simaudio Moon 180MiND/100D



imaudio, manufacturer of Moon components, calls is UPIP renderer and MIND: Bartnering control apart MIND: Daytnering module is essentially an optional board for the firm's high-end DACs, this dinky little 180MIND network player (this project) so which we have been applied to adding streaming functionality to any legacy DAC.

As such it has no analogue outputs, but a full suite of digital outputs including AES/EBU (XLR). The control app is a crucial feature since it's the only way to drive it. There is no display, either on the 180 or the company's DACs with MiND module fitted. The app acts as a control point for multi-zone installations where Moon players - and amplifiers connected to them using Simaudio's control bus - can be operated throughout the home. File playback includes ALAC, AIFF and WAV/FLAC up to 24-bit/192kHz, Wi-Fi is built in, limited to CD quality audio. And gapless playback is supported.

The bijou 100D DAC partnering it here sports a legacy USB input (16-bit)48ktk max) alongside 24-bit) 192ktk-capable S/PDIF inputs. Signals are processed through an asynchronous sample rate converter and a Burn-Brown PCM 1793 DAC and 8-times oversampling filter. Both units are powered via 'wall wart' plug-top supplies.

MIND CONTROL

In tandem, these Moon components sounded refined and composed. 'Great separation of elements in the recording' and 'sweet treble and firm bass' were comments from the





LEFT: The MiND player can connect to any DAC via S/PDIF (Toslink or RCA) and AES/EBU (XLR). The 100D DAC has optical (Toslink) and electrical (RCA) S/PDIF inputs





ABOVE: The player has no display so must be driven via the MiND control app. DAC LEDs show sampling frequency

listening panel. Rain Tree Crow's dynamic contrasts were served up confidently by the combo, with fine gradation of tone and timbre to the percussion. Similarly, Ioni Mitchell's epic opener to her Don Jana's Reckless Daughter album sounded highly polished, the image remaining stable even during passages where the bass playing becomes increasing bolsterous and all-pervading.

It didn't sound as finely-etched or vivid as the Pioneer N-30, but it did flesh out the texture and body of instruments – in much the same way as the Stream Magic 6. True Love Ways' was brimming with atmosphere, the emotion in the wocal palpable, where the Pioneer appeared 'stark', if more spacious.

The Moon combo got better and better with hi-res files. The Haydn recording sounded beautiful when playing the 44.1kHz version, more richly-textured at 96kHz and simply divine with the 24-bit/192kHz file.

Sound Quality: 83%

HI-FI NEWS LAB REPORT

Small, lightweight and drawing a mere ZW seach, this pair of little black boses pack a hirty betenhological punish. The 180MIND renders media up to 1928/te and will even accept 2.24 filt feating point WW files without passe. The analogica output of the 100D DAC offers a standard 2½ from a 950mt source impediance but the 107BA Aved SN stock is impressive and elevels of ultrasortic interference are vasinthingly low. The sub-10pace (files levels are appeally even more impressive bearing in more than 45 are appeally even more impressive bearing in more than 45 are sub-side and the sub-side distribution of the 100 are sub-side and 100 are sub-si

Frequency at 0.01 5 0.0023 (ip. 0.0085) with eith parmonic spread setted in the frequency at 0.01 5 0.0023 (ip. 0.0085) while the harmonic spread setted in 0 further than the 6th harmonic. The responser are also very first, extending to 0 - 1.018/0.0048 with 46948 media., 0.408/0.014 with 19641z files and -2.018/0.008 with the indigent and 19240z material. Incidentally, there is no significant difference in the 180/10029 noise, distortion, jitter or low-level resolution performance with variable sample rate media. PM



ABOVE: High resolution jitter spectrum with 24-bit/48kHz (black) and 24-bit/96kHz data (red) over a wired network

| Maximum output level/Impedance | 1.98Vrms / 96ohm |
|-------------------------------------|------------------------------|
| A-wtd S/N ratio | 106.2d8 |
| Distortion (1kHz, OdBFs/-3OdBFs) | 0.00145% / 0.0018% |
| Distortion (20kHz, OdBFs/=30dBFs) | 0.0023% / 0.0054% |
| Freq. response (20Hz-20kHz/45kHz) | +0.00d8 to -0.08d8 / -1.25d8 |
| Digital Jitter (48kHz/96kHz/192kHz) | <10psec / <10psec / 17psec |
| Resolution @ -90dB | ±0.4d8 |
| Power consumption | 3W / 2W |
| Dimensions (WHD) | 127x74x165mm (each) |