opera Consonance Reference DSD1.1 digital converter by Nicholas Ripley consonance

pera Consonance is one of those brands that fly perpetually beneath the audiophile radar for no good reason. It's a company that makes a range of highly respected, multi award winning products, including analogue and digital source components, valve and solid-state amplifiers, even cables and loudspeakers. The models are consistently good to excellent performers, and those who happen across them, love 'em.

I would like to think Opera Consonance's Reference DSD1.1 digital converter is the breakout product, the one that

gives the brand the recognition it so deserves. The converter is a fully functioning digital hub, capable of processing every PCM signal it's possible to receive and DSD to DSD256 (all through USB 2.0), as well as good ol' 16/44 PCM files from a CD transport with any kind of S/PDIF or AES/EBU connection. It even has provision to communicate to iOS and Android devices, and the website describes a Frankenstein-grade three-way clunky way of extracting USB audio from a phone with an add-on power supply (Bluetooth is available too). The Reference DSD1.1 also has the option of being a very capable



line outputs and single-ended RCA outputs that also pass through an E88CC-based triode output stage. There are also five PCM filter settings, absolute phase adjustment, two DSD high-frequency brick wall filters, and three undefined 'sound mode' settings, all selectable from the front panel.

Opera Consonance is somewhat hazy on the subject of what internal architecture is used in the Reference DSD1.1, but it appears to be based around an AK4490 DAC/filter chip from Asahi Kasei Microdevices. This is a 32bit chip that can decode DSD without any internal conversion to PCM, sports those five aforementioned filters, and supports PCM files up to a notional precision of 32bit, 768kHz. It's becoming popular as the chip of choice in some decidedly top-end devices, such as the Astel & Kern AK380 and Esoteric's K-05X/07X disc players.

The five filters for PCM are 'short delay sharp', 'short delay slow', 'sharp roll-off', 'slow roll-off' and 'super slow roll-off'. The term 'sharp roll-off' in the first and third filter equates off'. The term 'sharp roll-off' in the first and third filter equates to the standard brickwall filter found in 'traditional' CD replay. The three slow roll-off filters reflect the more recent trend in the three slow roll-off filters reflect the more recent trend in the three slow roll-off filters replace the more recent trend in the three slow roll-off short delay' filters replace the standard ringing from an impulse response, and are often called 'soft-digital audio to reduce high-frequency digital 'hash' and post-digital 'hash' and po

listening out for the right balance between 'energetic' and 'dry'. Eventually, you'll find the right setting for your system. Note that this doesn't change the underlying tonal qualities of the Reference DSD1.1; it's more about fine-tuning.

The concept of a DSD cut-off filter might at first glance seem to run counter to the very concept of DSD, but in fact it's a handy 'get out of jail free' card in some systems. Some DSD recordings are not as good as hoped and high-frequency component can — in extreme cases — trigger noise that filters down into the audio band. A filter at 150kHz and 50kHz can usually prevent this. Also, there are some systems where a super wide bandwidth source 'upsets' the input and gain structure of an amplifier designed for 20Hz-20kHz sound, and you might not discover this until you power up the DSD1. If you remove the high-frequency component until the nat amp comes around.

The missing element in the Reference DSD1.1's line 4 is any form of DLNA/UPnP or Internet streaming. However a close inspection of the Opera Consonance line shows that task is taken up by another product in the line - the Reference 8-20 anniversary music player. The DSD1.1's role in life is life is life is life is life. decode, not to act as a half-way media player. Given man companies seem to think streaming means adding an of the-shelf display, Wi-Fi board, and media player circuit to existing DAC, and letting the end user pick up the pieces applaud Opera Consonance for sticking to its guns. A slight more cynical reading of the situation is home streaming has still to make its mark in China where the company's based, and Opera Consonance's line-up reflects that some However, I think the company has a more internation outlook at its core, and the Opera Consonance Reference DSD1.1 is part of a wider plan. Also, if you plan on streaming it's a perfect match for Foobar 2000 or J River.

What is common to both balanced and single-ended outputs is a strong sense of both scale and refinement – especially refinement."

Opera Consonance has several different designs running the same time. This is one of its classic or Reference line odels, sporting an arched slatted wooden or metal top plate, ith a black or silver front panel and a symmetrical layout of a air of chromed knobs either side of a central display. There's so the squared off, none-more-black 'Forbidden City' line, e rounded off 'Figaro' models, and the distinctive, curved roplet' models. But the Reference models are perhaps the ost immediately recognisable products from Opera.

The Reference DSD1.1 is almost two DACs in one. The nciple notes on the balanced stage and headphone amp eak of a DAC that is focused, transparent, and dynamic. e single-ended DAC notes are more about the DACs pressiveness, and its tonal and timbral qualities. Ultimately ese are qualities common to the Reference DSD1.1 across th its outputs, it's just that the accent changes slightly en moving from balanced to single-ended. Note, however, s doesn't apply to different file formats, and the DAC is remely consistent in moving up the audio ladder. In fact, creates one of the most credible DSD performances I've ard at this price point, regardless of choice of output.

What is common to both balanced and single-ended puts is a strong sense of both scale and refinement pecially refinement. This refinement is not bought at the pense of leading or trailing edges of music, and it doesn't an the DAC is rolled off at the top or overblown in the bass; se are the usual trade-offs to gain a touch of high-end phistication without a five-figure price tag. Instead, it comes m a very fluid and organic sounding midrange, extending harmonic structure of music up into the top registers and lbeit to a lesser extent - down through the organ pedals. ere is an ever-so-slight bloom to the sound in the upper ss that gives the Reference DSD1.1 a characteristic fullness the presentation, like the LS3/5a's mild thickening of piano.

This refinement is more about presenting the sonic beauty music than its sheer attack, and it would be easy to dismiss Reference DSD1.1 as a DAC that doesn't 'time'. In fact, nink a more accurate reading of the Reference DSD1.1's formance is that it's a DAC that emphasises phrasing over ing. There is an excellent sense of flow from musical theme theme, and the DAC is very keen at displaying the changes empo within those musical themes.

Where it lags a step behind the Rhythm Kings is working those subtle 'microtiming' changes that separate, say, a rea profoundly good jazz drummer from some 'going through t motions' session guy or Sunday afternoon pub player. This is subtle distinction, however, and I would be happy to trade t temporal precision for the refinement and ease of listening t Reference DSD1.1 brings to music. The headphone ampli stage is good, too. It's not an afterthought, but neither i designed for serious users with amp-crushing headphone

Ultimately, the Opera Consonance Reference DSD1. an extremely good device, straddling as it does the old-sch 'add me to a CD player' DAC and the new world of USB. a refined performer, which is all the more attractive when compare it to many of the assaults on the ears delivered more forward-sounding DACs and streamers. +

TECHNICAL SPECIFICATIONS

Type: DSD-capable USB DAC/headphone amplifier Supported audio: 32bit / 768kHz DSD64(1bit 2.8M)

DSD128(1bit 5.6M) DSD256(1bit 11.2M)

Digital inputs: Coaxial RCA (75 ohm) ×1, Optical ×1, AES EBU ×1, USB-typeB port ×1, Bluetooth ×1

(name: Operaudio)

Analog outputs: RCA (2.2V RMS) ×1, XLR (4.6V RMS) ×1

6.5mm headphone jack ×1

SNR: >118dB (RCA,XLR)

Distortion: <0.002% (XLR output), <0.08 (RCA output)

Dimensions (H×W×D): 10.4×33×44cm

Weight: 9kg (wood top panel) 12kg (Metal top panel)

Price: £1,595

Manufactured by: Opera Consonance URL: www.opera-consonance.com

Distributed by: AA Acoustics URL: www.aa-acoustics.com

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Products include:

Valve Amplifiers, CD Players, Turntables, Phonostages and Streamers from Opera Consonance. Valves from Psvane, Shuguang and TJ Full Music. tel. 01273 608332

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