

dCS PRESS RELEASE

for immediate attention

media@dcsLtd.co.uk

18th May 2017
Cambridge, UK

dCS
ONLY THE MUSIC



dCS LAUNCHES LIMITED EDITION VIVALDI ONE DIGITAL MUSIC SYSTEM, MARKING THIRTY YEARS OF UNRIVALLED EXCELLENCE

dCS proudly announces Vivaldi One – a limited edition digital music player specially designed to mark the company’s thirtieth anniversary. Limited to just 250 uniquely numbered pieces, it puts an integral CD/SACD transport alongside the latest dCS Ring DAC in a single box, together with state-of-the-art network streaming functionality.

Vivaldi is the dCS flagship line, and the culmination of three decades of the company’s legendary expertise in music recording and playback. Having pioneered high resolution digital audio in both professional and consumer fields, championed the benefits of upsampling and clocking, and originated asynchronous USB for computer audio, dCS has an exceptional and proven track record. To commemorate this, the new Vivaldi One offers state-of-the-art technology inside, and superlative style outside...

Wholly designed and manufactured in Great Britain, Vivaldi One’s aerospace-grade aluminum casework comes in a choice of three exquisite finishes, never before seen on dCS products. The Gloss White and Piano Black versions are finished by HQ Lacquer, a family-owned British business of over three decades’ standing, famed for its high quality finishes. After meticulous paintwork, multiple lacquer coats are applied and then heat-cured for days, for glass-like smoothness. Alternatively, Vivaldi One can be supplied plated in Decoplate™ 24K Gold or other precious metal by FH Lambert Ltd., the world-renowned specialist in decorative metal plating. This highest grade of gold plate confers a lavish, opulent feel and accentuates the fascia’s subtle curves.

Vivaldi One features the Esoteric VRDS Neo™ SACD-capable transport, allied to the latest generation dCS Ring DAC. It first appeared in high end dCS studio equipment nearly three decades ago, and has been continually refined and improved since then. Effectively a digital signal processing computer, the dCS Ring DAC and Digital Processing Platform runs PCM up to 24-bit, 384kS/s, DSD up to DSD128 and DSD in DOP format. Vivaldi One also supports all major lossless codecs including MQA. Driven by custom-designed software running on Field Programmable Gate Array (FPGA) chips, Digital Signal Processing (DSP) chips and a microcontroller system. Offering twice the logic capacity of previous generations, Vivaldi One houses the latest 2.0 Ring DAC with double speed mapper, making it the highest expression of the dCS art. The result is an extraordinarily translucent sound, giving an exceptionally realistic window on the music being played.

Reflecting the unique nature of Vivaldi One, each piece is personally supplied to the customer by an expert dCS engineer, who will configure it to get the best possible sound. Its extensive networking capabilities – including its ability to stream music from NAS drives

and online services such as TIDAL™ and Spotify Connect™ over Ethernet, from Apple devices via Airplay™, and audio via industry-standard USB, AES and S/PDIF digital inputs – will be carefully configured to the customer's needs.

Commemorating the company's thirtieth anniversary, Vivaldi One also comes supplied with a specially curated music collection, reflecting the musical passions of the dCS designers, engineers and technicians who created Vivaldi One – plus an engraved plate showing its individual serial number.

Handmade in the United Kingdom, Vivaldi One embodies all that's best about dCS in one beautifully crafted box. It is built to last, and perform to the very highest standard for many decades to come. This timeless piece retails from £55,000, and is available from June 2017.

Summary:

- dCS Vivaldi One (£55,000); limited numbered edition of 250 pieces
- Integral Esoteric VRDS NEO transport for CD and SACD playback
- Latest generation dCS Ring DAC 2.0 and digital processing platform in one box
- choice of superlative Gloss White, Piano Black and 24-carat gold finishes
- Digital inputs include Gigabit network, asynchronous USB, AES, BNC and S/PDIF
- Built-in Roon Ready, TIDAL, Apple Airplay and Spotify Connect functionality.
- Vivaldi One's control app lets listeners manage their playback from any source.
- Network streaming section runs at up to 24-bit, 384kS/s and DSD128, supporting all major lossless codecs (including MQA), plus DSD in DoP format and native DSD.
- multi-stage power regulation and twin mains transformers
- firmware-upgradeable for future functionality and performance upgrades
- specially installed for the customer by dCS engineers
- Specially curated dCS celebratory music collection

Availability:

June 2017

About dCS:

Since 1987 dCS has been at the forefront of digital audio, creating world-beating, life-enhancing products that are a unique synthesis of exact science and creative imagination. Each of our award-winning product ranges sets the standard within its class for technical excellence and musical performance. As a result, dCS digital playback systems are unrivalled in their ability to make music.

All dCS products are designed and manufactured in the United Kingdom using proprietary technology, and materials and components of the highest quality. A carefully judged

balance of our unique heritage and world-class engineering ensures there is a rich history of ground-breaking innovation inside every dCS system.

Copyright © 2017 Data Conversion Systems Limited. All rights reserved. dCS, dCS logo, Ring DAC are trademarks or registered trademarks of Data Conversion Systems Limited. Data Conversion Systems Limited disclaims any proprietary interest in trademarks and trade names other than its own. All specifications are subject to change and, whilst they are checked for accuracy, no liabilities can be accepted for errors or omissions.

Vivaldi One

Upsampling CD / SACD / Network Player



In our thirtieth anniversary year, *dCS* is looking back at its legacy, celebrating our tradition of unrivalled excellence and pointing to the future by developing a limited edition Vivaldi One digital playback system.

Pushing the boundaries of what is possible with digital replay Vivaldi One is a single box CD/SACD and Network Player that supports music from any digital source via USB, AES, S/PDIF inputs in addition to streaming audio via its network input. An integral CD/SACD mechanism is used for CD/SACD playback.

At the core of Vivaldi One is the *dCS* digital processing platform, a high performance network streaming section and the latest generation *dCS* Ring DAC™.

The *dCS* Ring DAC™ is a unique digital converter that combines exceptional linearity with high speed operation enabling it to deliver true 24-bit performance even at low signal levels. The latest generation Ring DAC™ incorporates a number of advances that have resulted in enhanced dynamic range, reduced jitter, improved channel separation and greatly improved musical realism.

The digital processing platform in Vivaldi One is based around Field Programmable Gate Array (FPGA), Digital Signal Processing (DSP)

and a microcontroller system. Using the same platform as our flagship Vivaldi series, Vivaldi One is state-of-the-art, delivering unmatched sonic and measured performance.

The multi-stage Phase-Locked-Loop (PLL) system sets world-beating standards for accuracy and control of jitter from the incoming audio stream. Vivaldi One also supports the *dCS* auto clocking architecture which is simple to set up, minimises jitter and improves sound quality.

For CD/SACD playback Vivaldi One uses the TEAC Esoteric VRDS Neo™ mechanism which employs super-rigid construction and a brushless motor with heavy flywheel for stable disc rotation. CD data can be upsampled to DXD or DSD 64/128, extracting revelatory detail from both CD and SACD.

Vivaldi One's network capability and control app lets listeners manage their playback from any source in an elegantly simple way. It features built-in Roon Ready™, TIDAL™, Apple Airplay™ and Spotify Connect™ functionality.

Streaming audio is unparalleled in terms of processing power and jitter performance, and currently runs at up to 24-bit, 384kS/s and DSD 64/128, supporting all major lossless codecs (including MQA™), plus DSD in DoP format and native DSD.

Designed and made in Great Britain with superlative, cost-no-object quality and finish, Vivaldi One's elegant chassis uses aerospace-grade machined aluminium with internal acoustic damping panels to reduce sound-degrading mechanical vibration and magnetic effects.

Vivaldi One firmware is easily updated via CD, USB or online. This lets *dCS* add new features and improve system performance over its lifetime.

When listening to music through a Vivaldi One, listeners are immediately struck by its natural musicality and faithfulness to the original recording. It delivers a powerful and visceral sound yet is highly transparent, making for a musical experience of breath-taking clarity and emotional intensity.

Vivaldi One

Upsampling CD / SACD / Network Player



TECHNICAL SPECIFICATIONS

Type	Upsampling CD / SACD / Network Player.
Colour	Silver or Black anodised as standard. Custom paint finishes and precious metal plated finishes available.
Dimensions (WxDxH)	444mm (17.5") wide x 420mm (16.6") deep x 220mm (8.7") high. Allow extra depth for cable connectors.
Weight	27.4kg (60.4lbs) anodised finish.
Converter Type	dCS proprietary Ring DAC™ topology.
Digital Inputs	<p>Network interface on RJ45 Gigabit connector – UPnP renderer in Asynchronous mode, streaming music from a UPnP server over a standard network, decoding all major lossless formats including FLAC, WAV & AIFF at up to 24 bit 384kS/s native sample rate, plus DSD/64 & DSD/128 in DFF/DSF format. Other supported formats include MQA™, WMA, ALAC, MP3, AAC & OGG. Some formats are limited to lower sample rates. Accepts data streamed via Apple AirPlay™ at 44.1 or 48kS/s only. Network Loop Out connector on a second RJ45 connector.</p> <p>USB 2.0 interface on a B-type connector operating in Asynchronous mode, will accept up to 24 bit PCM at up to 384kS/s plus DSD/64 & DSD/128 in DoP format. Operates in Class 1 or 2 mode.</p> <p>USB-on-go interface on type A connector operating in Asynchronous mode, accepts audio at up to 24 bit 384kS/s plus DSD/64 & DSD/128.</p> <p>2x AES/EBU on 3-pin female XLR connectors. Each accepts PCM at up to 24 bit 192kS/s or DSD/64 in DoP format. Used as Dual AES pair, will accept PCM at up to 384kS/s, DSD/64 & DSD/128 in DoP format or dCS-encrypted DSD.</p> <p>3x SPDIF on 2x RCA Phono and 1x BNC connectors. Each accepts PCM at up to 24 bit 192kS/s or DSD/64 in DoP format.</p> <p>1x SPDIF optical on a Toslink connector accepts PCM at up to 24 bit 96kS/s.</p>
Mechanism	TEAC Esoteric VMK3 VRDS Neo™.
Analogue Outputs	<p>Output levels: 0.2, 0.6, 2 or 6V rms for full-scale input.</p> <p>Balanced outputs: 1 stereo pair on 2x 3-pin XLR male connectors (pin 2 = hot, pin 3 = cold). These outputs are electronically balanced and floating. Output impedance is 3Ω, maximum load is 600Ω (10k – 100kΩ is recommended).</p> <p>Unbalanced outputs: 1 stereo pair on 2x RCA phono connectors. Output impedance is 52Ω, maximum load is 600Ω (10k – 100kΩ is recommended).</p>
Word Clock I/O	<p>2x Wordclock Inputs on 2x BNC connectors, accept standard wordclock at 44.1, 48, 88.2, 96, 176.4 or 192kHz. Data rate can be same as clock rate or exact multiple of clock rate. Sensitive to TTL levels.</p> <p>Wordclock Output on 1x BNC connector. In Master mode, a TTL-compatible wordclock appears on this output.</p>
Residual Noise	16-bit data: Better than –96dB0, 20Hz - 20kHz unweighted. 24-bit data: Better than –113dB0, 20Hz - 20kHz unweighted. (6V output setting)
L-R Crosstalk	Better than –115dB0, 20Hz - 20kHz.
Spurious Responses	Better than –105dB0, 20Hz - 20kHz.
Filters	<p>PCM mode: up to 6 filters give different trade-offs between the Nyquist image rejection and the phase response.</p> <p>DSD mode: 4 filters progressively reduce the out-of-audio band noise level, a 5th filter offers a minimum-phase roll-off.</p>
Conversions	User-selectable upsampling to DXD, DSD/64 or DSD/128.
Software Updates	Download available via Vivaldi One App.
Local Control	<p>dCS Vivaldi One App for Unit Configuration and Playback. RS232 interface (via 3rd party automation system).</p> <p>dCS Universal IR remote control is included.</p>
Power Supply	Factory set to 100, 115/120, 220 or 230/240V AC, 50 / 60Hz.
Power Consumption	40 Watts typical/50 Watts maximum.

KEY FEATURES

- Latest generation dCS Digital Processing Platform delivers state-of-the-art measured performance.
- dCS Ring DAC™ with double speed Ring DAC 2.0 mapper - as used in flagship Vivaldi DAC.
- Digital inputs support UPnP, asynchronous USB, Roon Ready™ and Apple AirPlay™ plus AES, S/PDIF and SDIF-2 digital audio streams.
- Streaming services supported include Tidal™ and Spotify Connect™.
- Integral TEAC Esoteric VMK3 VRDS-Neo™ CD/SACD mechanism.
- Multi-stage DXD oversampling with optional DSD/64 or DSD/128 upsampling.
- User-selectable DSP and DSD filters.
- Flexible output configuration can be used with and without pre amplifier.
- Comprehensive auto-clocking architecture improves ease of use and minimises jitter.
- Multi-stage power regulation and twin mains transformers isolates sensitive analogue and clock circuits from digital circuitry.
- Separate power supplies for digital and analogue sections further enhance power supply cleanliness.
- Firmware upgradeable over the internet for future functionality and performance improvements.
- Aerospace grade machined aluminium chassis fitted with tuned acoustic damping panels reduces magnetic effects and vibration.

ABOUT dCS

Since 1987 dCS has been at the forefront of digital audio, creating world-beating, life-enhancing products that are a unique synthesis of exact science and creative imagination. Each of our award-winning product ranges sets the standard within its class for technical excellence and musical performance. As a result, dCS digital playback systems are unrivalled in their ability to make music.

All dCS products are designed and manufactured in the United Kingdom using proprietary technology, and materials and components of the highest quality. A carefully judged balance of our unique heritage and world-class engineering ensures there is a rich history of ground-breaking innovation inside every dCS system.

CONTACT dCS

Data Conversion Systems Ltd

✉ Unit 1
Buckingway Business Park
Swavesey
Cambridgeshire
CB24 4AE
UK

📧 info@dcsLtd.co.uk

🌐 www.dcsLtd.co.uk

🐦 dCSOnlythemusic

Copyright © 2017 Data Conversion Systems Limited. All rights reserved. dCS, dCS logo, Ring DAC are trademarks or registered trademarks of Data Conversion Systems Limited. Data Conversion Systems Limited disclaims any proprietary interest in trademarks and trade names other than its own. All specifications are subject to change and, whilst they are checked for accuracy, no liabilities can be accepted for errors or omissions.