PRODUCT DATASHEET

Vivaldi Transport

Upsampling CD/SACD Transport

dCS
ONLY THE MUSIC

The *dCS* Vivaldi range redefines the state-of-the-art in digital audio playback, representing the pinnacle of our no-compromise approach to product design and setting a new standard for the future of digital audio by delivering an unrivalled in-home musical experience.

Vivaldi Transport was designed to extract revelatory levels of detail from both CD and SACD and is the ultimate machine for silver disc replay. All signal processing in Vivaldi Transport is controlled by electronics designed by *dCS*. Vivaldi Transport uses the TEAC Esoteric VRDS Neo™ mechanism which employs super-rigid construction and a brushless motor with a heavy flywheel for stable disc rotation.

The flexible digital processing platform used in the Vivaldi Transport is based around a powerful Field Programmable Gate Array (FPGA) chip, Digital Signal Processing (DSP) chips and a microcontroller system. All of these use code developed and maintained in the UK by *dCS*. Vivaldi Transport represents true state-of-the-art in digital audio, providing twice the logic capacity of previous generations, emphasised by its unmatched sonic and measured performance.

To enhance the purity of the power supply and isolate the mechanism from the electronics, Vivaldi Transport features a completely new chassis design that has separate power circuits for the digital processing and CD/SACD mechanism sections. This has resulted in near-silent operation.

Vivaldi Transport features a Dual AES output that generates *dCS*-encrypted DSD (1-bit data at the rate of 2.822MS/s) to drive a *dCS* DAC, either upsampled from CD data or native SACD data. Alternatively, CD upsampling may be set to DXD (24-bit data at 352.8kS/s) or DSD/128 (1-bit data at 5.644MS/s) and transmitted over the same Dual AES interface. Native CD data is available from 4 PCM outputs (1x AES/EBU and 2x S/PDIF, 1x SDIF-2), as is down-sampled SACD data. All outputs are active simultaneously.

Vivaldi Transport is intended to be used with the matching Vivaldi DAC or with any suitable industry-standard DAC. The unit may be run either in Master mode or with the DAC as the system clock. Performance will be enhanced further by adding a Vivaldi Clock to the system.

The *dCS* 'soft' approach to programmable logic makes it extremely easy for users to update Vivaldi Transport software, whether adding new features, installing performance upgrades or adapting to changes in digital formats.

Used as part of a complete Vivaldi digital audio playback system, Vivaldi Transport gives a performance of effortless realism each and every time.

Vivaldi Transport Upsampling CD/SACD Transport

dCS
ONLY THE MUSIC

TECHNICAL SPECIFICATIONS

Type	Upsampling CD/SACD Transport.
Colour	Silver or Black.
Mechanism	Dual laser CD/SACD mechanism (TEAC VRDS NEO™ VMK3).
Dimensions (WxDxH)	444mm/17.5" x 435mm/17.2" x 196mm/7.8". Allow extra depth for cable connectors.
Weight	23.2kg/51.1lbs.
Digital Outputs	1x Dual AES interface on 2x 3-pin male XLR connectors, outputs *dCS*-encrypted DSD data, whether a CD or SACD is playing. A menu setting changes the format to DXD (24/352.8) or DSD/128 (1-bit data at 5.644MS/s) when a CD is playing. 1x AES/EBU on 3-pin male XLR connector, outputs PCM at 16 bit / 44.1kS/s, whether a CD or SACD is playing. 2x SPDIF on 1x RCA Phono and 1x BNC connectors. Each outputs PCM at 16 bit / 44.1kS/s, whether a CD or SACD is playing. 1x SDIF-2 interface on 2x BNC connectors, outputs PCM at 16 bit / 44.1kS/s, whether a CD or SACD is playing.
Word Clock I/O	Word Clock output on 1x BNC connector. With the transport in Master mode, a TTL-compatible 44.1kHz Word Clock derived from the internal crystal oscillator is available on this output. Word Clock input on 1x BNC connector, accepts standard Word Clock at 44.1, 88.2 or 176.4kHz. Sensitive to TTL levels.
Clock Accuracy	Better than +/-10 ppm when shipped (not temperature compensated).
Software Updates	Updates are loaded directly from CD-R.
Local Control	*dCS* Premium Remote handset is supplied with Vivaldi DAC. RS232 (controlled by a third party device or from the Vivaldi UPnP controller app).
Power Supply	Factory set for 100, 115, 220 or 230V AC, 49-62Hz.
Power Consumption	28 Watts typical/40 Watts maximum.

KEY FEATURES

- Utilises the latest generation *dCS* Digital Processing Platform for state-of-the-art measured performance and unrivalled musical experience.
- Plays Red Book CDs in their native 16/44.1 format AND upsamples the data to either DSD or DXD.
- Plays SACDs in their native DSD format AND downsamples the data to 16/44.1 format.
- Configuration Menu – Ability to save/restore settings, and EasyPlay improves ease-of-use.
- Improved power supplies give lower running temperature and superior tolerance to AC supply variations.
- Multi-stage power regulation ensures sensitive clock / PLL circuitry is unaffected by digital interference.
- Separate power circuits for the digital processing and CD/SACD mechanism sections to further enhance power supply cleanliness.
- Aerospace-grade machined aluminium chassis fitted with tuned acoustic damping panels reduces magnetic effects and vibration.

ABOUT *dCS*

dCS has been at the forefront of digital audio since 1987. Its unique expertise in digital signal processing means that it has played a vital innovating role in digital music recording and playback over the years, and makes its products sound like no others.

The company has won numerous awards for its range of class-leading digital converters, all of which use the bespoke, custom-designed Ring DAC™ architecture – created during the company's time working on specialist radar applications for military aviation.

dCS products are unrivalled in their class – not only for sonic performance, but also for build quality. Designed and manufactured in the United Kingdom using only the best materials and components, they offer state-of-the-art sound, superlative reliability and are uniquely upgradeable as new formats appear.

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