# Vivaldi Transport Upsampling CD/SACD Transport

**dCS**
ONLY THE MUSIC

The *dCS* Vivaldi range redefines state of the art in digital playback and represents 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 is 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*. It uses the TEAC Esoteric VRDS Neo™ mechanism which provides a brushless motor with heavy flywheel for stable disc rotation and super rigid construction.

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

In order to enhance the cleanness 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 supports *dCS*-encrypted DSD (1 bit data at the rate of 2.822MS/s) to a *dCS* DAC from CD or SACD. Vivaldi Transport also offers the option of upsampling CD data to DXD (24 bit data at the rate of 352.8kS/s) and transmitting this data over the same Dual AES interface.

SACDs are played in their native DSD format, again using the Dual AES interface. Native CD data is available from 4 PCM outputs (1x AES/EBU and 2x SPDIF, 1x SDIF-2), as is down-sampled SACD data.

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 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.

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## TECHNICAL SPECIFICATIONS

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|---|---|
| **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) when a CD is playing. 1x AES/EBU on 3-pin male XLR connector, outputs CD format data (16 bits at 44.1kS/s), whether a CD or SACD is playing. 2x SPDIF on 1x RCA Phono and 1x BNC connectors. Each outputs CD format data, whether a CD or SACD is playing. 1x SPDIF optical on a Toslink connector, outputs CD format data, whether a CD or SACD is playing. 1x SDIF-2 interface on 2x BNC connectors, outputs CD format data, whether a CD or SACD is playing. |
| **Clocking** | 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. The calibration accuracy when shipped is +/-10ppm, not temperature compensated. Word Clock input on 1x BNC connector, accepts standard Word Clock at 44.1, 88.2 or 176.4kHz. Sensitive to TTL levels. |
| **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). dCS-programmed Nevo Q50 Remote handset is available for the Vivaldi range as an optional extra. |
| **Power Supply** | Factory set for 100, 115, 220 or 230V AC, 49-62Hz. |
| **Power Consumption** | 28 Watts typical/40 Watts maximum. |

## KEY FEATURES

- Utilising the latest generation dCS Digital Processing Platform which offers 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 CD format.

- Improved power supplies give lower running temperature and improved tolerance to AC supply variations.

- Multi-stage regulation ensures sensitive analogue circuitry is not affected by digital interference.

- Features separate power circuits for the digital processing and CD/SACD mechanism sections to further enhance the power supply cleanness.

- Aerospace grade machined aluminum 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 our digital playback systems are unrivalled in their ability to make great music.

All dCS products are designed and manufactured in the UK using only materials and components that are of the highest quality. A carefully judged balance of our unique heritage and world class engineering ensures there is a rich history of groundbreaking 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

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