

# Scarlatti Upsampler

Digital-to-Digital Converter



Possesses the ability to unravel music like no other digital system – resulting in a performance that is simply stunning.

Scarlatti needs no introduction and since its launch has been the recipient of awards across the world for its extraordinary performance, both in terms of objective measurements and the subjective musical experience it offers.

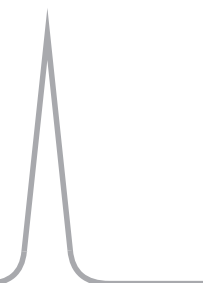
Scarlatti Upsampler is designed to act as the hub of a digital audio system and will transform your listening experience, taking your music collection to levels you have not heard before. Accessing music from any digital source Scarlatti Upsampler converts the audio from its native sample rate to either DSD (1 bit data at 2.822) or standard high resolution PCM (24 bit data up to 192kS/s).

Possessing an array of independently selectable digital inputs, upsampling and filter options, Scarlatti Upsampler elevates the performance of Red Book CD from CD Players or high resolution audio from digital streamers and servers to a previously unsurpassed level.

*dCS* were pioneers in the use of external clocks in digital audio systems and the multi-stage Phase-Locked-Loop (PLL) system used in Scarlatti Upsampler is extremely accurate in the control of troublesome jitter from the incoming audio stream.

Scarlatti Upsampler also features an asynchronous USB input which allows direct connection of a PC, supporting high resolution audio. In this mode the Upsampler synchronises the audio by providing a feedback pipe to the PC/Mac. The computer is effectively locked to the Upsampler, which then has a much more accurate clock and much lower jitter.

All of the Scarlatti products benefit from our 'soft' approach to programmable logic that allows new software to be loaded from a *dCS* update disc or USB to add new features or adapt to changes in digital formats.



# Scarlatti Upsampler

Digital-to-Digital Converter



## TECHNICAL SPECIFICATIONS

Type	Digital-to-Digital Converter.
Colour	Silver or Black.
Dimensions (WxDxH)	465mm/18.3" x 405mm/16.0" x 75mm/3.0". Allow extra depth for cable connectors.
Weight	10.1kg/22.2lbs.
Digital Inputs	USB 2.0 interface on a B-type connector. Operates in asynchronous mode. AES3 on a 3-pin female XLR connector. 4x SPDIF on 2x RCA Phono, 1x BNC connectors and 1x TosLink optical connector. All digital inputs except Toslink and USB will accept PCM data at up to 24 bit PCM at 32, 44.1, 48, 88.2, 96, 176.4 & 192kS/s or DSD in DOP (DSD over PCM). Data from any input may be converted to 24 bit PCM at 32, 44.1, 48, 88.2, 96, 176.4 or 192kS/s or DSD (1 bit data at 2.822MS/s). The output sample rate must be equal to or greater than the input sample rate.
Digital Outputs	IEEE 1394 interface on 2x 6-way connectors. In DSD mode, the interface outputs <i>dCS</i> -encrypted DSD (1 bit data at 2.822MS/s). 2x AES3 on 3-pin female XLR connectors. Each outputs 24 bit PCM at 32, 44.1, 48, 88.2, 96, 176.4 & 192kS/s or DSD in DOP format, OR as a Dual AES pair at 88.2, 96, 176.4 or 192kS/s or DSD in DOP format. 2x SPDIF on RCA Phono and BNC connectors. Each outputs 24 bit PCM at 32, 44.1, 48, 88.2, 96, 176.4 & 192kS/s or DSD in DoP format. 1x SDIF-2 interface on 2x BNC connectors, outputs 24 bit PCM at 32, 44.1, 48, 88.2 or 96kS/s.
Word Clock I/O	Word Clock input on 1x BNC connector. Accepts standard Word Clock at 32, 44.1, 48, 88.2, 96, 176.4 & 192kHz. Sensitive to TTL levels. Word Clock output on 1x BNC connector. Outputs standard Word Clock at a frequency equal to the (single wire) output data rate, or 44.1kHz when set to output DSD.
Spurious Responses	Better than -100dB0 @ 20Hz-20kHz.
Filters	A choice of anti-alias filter is available for 10 popular conversions.
Software Updates	Loaded from CD-R via PCM digital input or USB.
Local Control	Nevo Q50™ programmable remote control is supplied with Scarlatti Transport, or RS232.
Power Supply	Factory set for 100, 115, 220 or 230V AC, 49-62Hz.
Power Consumption	12.7 Watts typical/15 Watts maximum.

## KEY FEATURES

- USB input forms a gateway to the *dCS* Ring DAC™, allowing listeners to obtain true high-end sound from computer audio.
- All major *dCS* products use a sophisticated multi-mode Phase-Locked-Loop (PLL), which significantly reduces clock jitter.
- Faster, 100% accurate DSPs (within the bounds of their resolution) give improved filters revealing yet more fine detail.
- Higher capacity FPGAs (Field Programmable Gate Arrays) give more logic capacity and increase the scope for additional features.
- Improved power supplies give lower running temperature and increased tolerance to AC supply variations.
- Our 'soft' approach to programmable logic allows *dCS* products to adapt to changes in digital formats and add new features by loading new software from a CD.
- Aerospace grade aluminum chassis and laminated acoustic damping panels, reduce magnetic effects and vibration.
- The Scarlatti range features a low-power LCD display that makes the user interface easier to read, keeps the power requirements down and minimises electrical noise.

## 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*

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