

dCS Scarlatti DAC v1.30 Software Update

Please read these instructions through fully at least once before attempting the update.

The CD supplied with these instructions enables the software in any *dCS Scarlatti DAC* loaded with earlier software to be updated to version 1.30.

To load the CD, you will need a CD Transport or Player that outputs unmodified CD format data (16/44.1). Most Transports or Players with a digital output are suitable (including all *dCS* products). Transports which output 17 bit data (e.g. ML31.7) or upsample to 48 or 88.2kS/s are not suitable.

If you are nervous about performing this update, please do not worry, it is quite easy.



Only use Scarlatti DAC Update CDs provided by *dCS*.

Update Procedure

- Mute your power amplifier or turn it off.
- Make sure the Transport's PCM outputs are turned ON (in the Settings menu on the *Scarlatti Transport*).
- Connect the *Scarlatti DAC* directly to the CD Transport using either the AES interface or an SPDIF interface (RCA, BNC or Toslink). Select that input on the *Scarlatti DAC*, it should lock and display **0/44.1**.
- Disconnect any 1394 cables from the DAC.
- If necessary, use the **SYNC** button to set the *Scarlatti DAC* to slave to **Audio**.
- Load the *Scarlatti DAC* Update CD into the Transport, **PLAY** the disc for about 10 seconds and then press **STOP**. The disc must **not** be playing at this point.
- Open the *Scarlatti DAC*'s menu by pressing the **Menu** button on the front panel. Press the **Menu** button again to select the **Information** menu. Press the **→** button 3 times to highlight the **CD Update** page and press the **Menu** button to start the update.
- **X Sure ✓** will appear on the display – press the **Menu** button to continue.

The DAC will display **Please wait** briefly, then **Please Start CD**.

- Press **PLAY** on the Transport. Do not wait too long, otherwise the update will abort.

The update is largely automatic from this point. The display sequence is shown below, with approximate times.

00:00 **Scanning – OK** are displayed in sequence.

If there is anything wrong with the *dCS* CD that has been loaded, or it does not match the product or the Transport is unsuitable, the unit will display **Wrong Disc!** and revert to normal operation. Don't worry – the internal software is unchanged. If either of the above cases occur, contact your *dCS* distributor or *dCS*.

00:30 **Ver 1.30**

01:15 **1/32** The first block of data is read from the disc.

02:15 **2/32** The second block of data is read ...

...

32:15 **32/32** The last block of data is read.

33:10 **Please wait** The unit reboots.

33:15 **Scarlatti DAC DO NOT SWITCH OFF**

36:00 **00/44.1** The update is complete.

- The 1394 interface will have stopped responding during the update. To restore normal operation, switch off completely, wait 10 seconds, then switch on again.

Your *Scarlatti DAC* is now ready for use.

Problems?

- If the display does not change for more than 5 minutes or there is a power failure, switch off the unit at the rear panel switch, wait 10 seconds, then switch on and start the update again.
- If the disc skips or you accidentally advance the Transport, the unit will display **Skipped!** Switch off the unit at the rear panel switch, wait 10 seconds, then switch on and start the update again.

If the **Non Seq** message appears on the display, the most likely cause is that the update CD is faulty. There is no cause to worry as the original software is backed up inside the unit.

- Check the disc for dirt or damage. If the disc appears to be dirty, wipe it gently from the centre outwards with a dry soft cloth. If it is damaged, contact your local *dCS* distributor or *dCS* for a replacement. If it appears to be OK, run the **CD Update** routine again to load the new software.



If your *Scarlatti DAC* starts up correctly but has a problem of some kind, do not repeatedly CD Update as this **cannot** solve the problem.

Routinely CD Updating with the same software is pointless and inadvisable.

What's new in v1.30?

The new software adds some useful new features to your *Scarlatti DAC*. For more information, please download the latest version of the *Scarlatti DAC User Manual* from www.dcsLtd.co.uk/page/support. Printed copies of the *Scarlatti DAC* 1.3x manual may be purchased from *dCS*.

In brief, the new features are:

1. The AES, RCA and BNC interfaces have been updated to accept single-wire DSD data in DoP format.
2. The Dual AES interface will accept PCM data at 352.8 & 384kS/s, DSD in DoP format and dCS-encrypted DSD (from a Vivaldi Transport or Scarlatti Transport v1.11 or later).

There are a few limitations to the choice of word clock frequency:

- The 1394 interface will not lock to a 176.4kHz clock. Use a 44.1 or 88.2kHz word clock.
- The Dual AES interface receiving 352.8kS/s or encrypted DSD may not lock to a 176.4kHz clock correctly. Use a 44.1 or 88.2kHz word clock.
- The Dual AES interface receiving encrypted DSD may not lock to a 88.2kHz Dithered clock – turn off the Clock Dither feature or set the Clock frequency to 44.1kHz.

If You Need More Help

In the first instance please contact the *dCS* distributor for your country. Contact details may be found on the *dCS* web site - www.dcsLtd.co.uk. Please provide the serial number of your unit, the software version currently installed and the version of software on the Update CD you are trying to install.