

ELEMENTS PRECISION 24/192 DAC

VOLUME & INPUT

XU:065 OPTICAL 1  
44.1kHz PCM



MENU



MUTE

# Elements

DAC



Digital audio, from disc, computer or streamer, is an accepted part of today's audiophile world. However, there are few, if any, affordable products which fully exploit the potential of modern high resolution audio formats. Leema's Elements DAC re-defines what is possible, establishing a new benchmark and transforming digital and computer based audio in to captivating and enthralling sound. Incorporating technologies only seen in ultra high end brands, Leema's Elements DAC seamlessly blends stunning audiophile reproduction with the convenience of computer based audio.

Three optical inputs and three co-axial inputs ensure all of your digital sources such as satellite receivers, Sonos™ music systems, Sony PS3™ and DVD players can easily be accommodated. A single analogue input provides dedicated connectivity for conventional audio components. In addition, the Elements DAC USB interface will make the very best of your computer based music collection. Proprietary technologies allow asynchronous data transfer mode to be initiated between the Elements DAC and computer, with fully automated sample frequency selection.

Communication between a computer and USB DAC conventionally uses "synchronous" mode, forcing the DAC to slavishly follow the computer's unpredictable and mistimed digital audio signal. This causes the DAC to randomly speed up or slow down, leading to excessive jitter and its associated and undesirable distortion artefacts. Leema's Elements DAC invokes the far more elegant "asynchronous" mode in which the DAC becomes the master, sending sophisticated control signals to the computer which precisely regulates the transmitted digital audio stream. This allows the high precision clock circuitry on board the DAC to control the transfer process, reducing jitter and any associated distortion or temporal effects to astonishingly low levels, close to the theoretical technical limits achievable.

The Elements DAC can be used as a conventional audio source without a volume control or set to pre-amplifier mode, which enables the front panel volume control for use with a power amplifier. The inclusion of balanced outputs via XLR connectors, a front panel mini jack input for analogue portable audio devices, full remote control and a dedicated class A headphone amplifier completes the picture.



## specifications

Frequency response, 20Hz to 20kHz	+/- 0.25dB.
Distortion @ 1kHz	better than 0.001%
Crosstalk @ 20kHz	better than -95dB.
THD @ 0dBFs	better than 0.005%
Jitter @ 1kHz	less than 50ps.
Output levels in fixed gain mode 0dB @ 1kHz	unbalanced = 2.1v rms   balanced = 4.2v rms
DAC	Quattro 24bit/192kHz with multiple CS 4351 converters and Wolfson WM8805 low jitter receiver.   Leema USB-M1 24/192 Module
Size (h)x(w)x(d) in mm	88 x 220 x 340
Weight	5.5 kg