

# Lina DAC X

## Specifications

**Product Dimensions / Weight**

122mm / 4.80" (H) x 444mm / 17.48" (W) x 356mm / 14.02" (D).  
Allow extra depth for cable connectors • 14KG / 30.86lbs

**Finish**

Black or silver painted machined aluminium with crystal LED display

**Electronics**

- dCS Ring DAC and Digital Processing Platform on flex-rigid PCB
- StreamUnlimited Stream800
- Automatic mains voltage switching

**Digital Inputs**

- 2 x AES/EBU on 3 pin XLR 44.1-192kS/s
- Used as a Dual AES pair (1+2), supports sample rates up to 384kS/s
- 1 x S/PDIF BNC Coax 44.1-192kS/s
- 1 x S/PDIF on RCA 44.1-192kS/s
- 1 x Toslink 44.1-96kS/s
- 1 x USB Type B 44.1-384kS/s PCM and DSD, DSDx2 in Asynchronous Mode
- 1 x USB Type A connector for mass storage devices (navigated using Mosaic)

**Analogue Outputs**

- 1 stereo balanced pair on 2x 3-pin male XLR connectors (pin 2 = hot, pin 3 = cold). These outputs are electronically balanced and floating, the signal balance ratio at 1 kHz is better than 40dB. Output impedance is 3Ω, maximum load is 600Ω (a 10kΩ - 100kΩ load is recommended).
- 1 stereo unbalanced pair on 2x RCA Phono connectors. Output impedance is 52Ω, maximum load is 600Ω (a 10kΩ - 100kΩ load is recommended).
- Output levels are 0.2V, 0.6V, 2V, or 6V rms for a full-scale input, set in the menu.

**Network Interface**

Ethernet interface on RJ45 connector

**Streaming Compatibility**

Supports the following platforms and services:

- |          |                  |
|----------|------------------|
| • UPnP   | • QQ Music       |
| • Qobuz  | • Internet Radio |
| • Deezer | • Spotify        |
| • Tidal  | • Roon Ready     |

**Sample Frequencies and Formats**

Supports the following audio formats and sample rates:

- 44.1-384kS/s up to 24 bits
- DSD/64, DSD/128
- Native DSD + DoP (input dependent)
- FLAC, WAV, AIFF, MQA

<b>Upsampling</b>	Multi-stage DXD oversampling with switchable DSD Upsampling (1-bit 2.822 or 3.07MS/s) and DSDx2 Upsampling (1-bit 5.644 or 6.14MS/s)
<b>Word Clock</b>	<ul style="list-style-type: none"><li>• 2x Word Clock Inputs on 75Ω BNC connectors, sensitive to TTL levels.</li><li>• Accepts standard Word Clock signals at 44.1, 48, 88.2, 96, 176.4 or 192kHz.</li></ul>
<b>Filters</b>	<ul style="list-style-type: none"><li>• PCM mode: up to 6 filters per sample rate give different trade-offs between the Nyquist image rejection and the transient response</li><li>• DSD mode: 4 filters progressively reduce out-of-audio band noise level, plus Filter 5 which has an improved transient response</li></ul>
<b>Crossfeed Settings</b>	<ul style="list-style-type: none"><li>• Standard crossfeed</li><li>• dCS Expanse 1 (E1)</li><li>• dCS Expanse 2 (E2)</li></ul>
<b>Power</b>	<ul style="list-style-type: none"><li>• IEC inlet &amp; power switch on rear panel</li><li>• 90-127V / 220-240V, 50/60Hz, consumption 30W</li><li>• Automatic voltage switching</li><li>• Power synchronised with other dCS Power Link products (RJ45)</li></ul>
<b>Frequency Response (set to filter 1)</b>	<ul style="list-style-type: none"><li>• <math>F_s = 44.1</math> or <math>48\text{ks/s}</math> <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz</li><li>• <math>F_s = 88.2</math> or <math>96\text{ks/s}</math> <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;38kHz</li><li>• <math>F_s = 176.4</math> or <math>192\text{ks/s}</math> <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;67kHz</li><li>• <math>F_s = 352.8</math> or <math>384\text{ks/s}</math> <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;100kHz</li><li>• DSD64 <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;90kHz</li><li>• DSD128 <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;100kHz</li></ul>
<b>Residual Noise (6v output setting)</b>	<ul style="list-style-type: none"><li>• 16-bit data: Better than -96dB0, 20Hz-20kHz unweighted</li><li>• 24-bit data: Better than -113dB0, 20Hz-20kHz unweighted</li></ul>
<b>Spurious Responses</b>	Better than -105dB0, 20Hz-20kHz
<b>L-R Crosstalk</b>	Better than -115dB0, 20Hz-20kHz
<b>Included with your Lina DAC X</b>	<ul style="list-style-type: none"><li>• Power cable</li><li>• 2x XLR cable (0.5m)</li><li>• Ethernet cable</li><li>• Power Link cable</li><li>• Welcome letter</li><li>• Safety &amp; Compliance guide</li><li>• Display cleaning cloth</li><li>• Remote control</li></ul>