CHORD

Chord Electronics Ltd.

Hugo 2

Transportable FPGA Digital/Analogue Converter and Headphone Amplifier

Features and specifications:

Materials:	Clamshell precision machined aluminium casing with polycarbonate buttons, acrylic signal window, and glass viewing portal. Available in a choice of two colours - natural silver, and satin black	
Battery:	2x Rechargeable custom Enix Energies 3.7v 9.6Wh Li-ion (lithium-ion (2600mAh) batteries	
Play time:	In excess of seven (7) hours	
Charging:	Nominal four (4) hours via Micro USB at 1.8amps (fast charge) - Nominal eight (8) hours at 1amp (slow charge)	
Connectivity (input):	Micro USB (White):	44.1kHz - 768kHz - 16bit - 32bit
	Coax via 3.5mm Jack (Red):	44.1kHz - 768kHz - 16bit - 32bit
	Optical (Green):	44.1kHz - 192kHz - 16bit - 24bit
Connectivity (input wireless):	Bluetooth (Apt X) (Blue):	44.1kHz - 48kHz - 16bit
Connectivity (output):	1x ¼" jack headphone output 1x 3.5mm jack headphone output 1x stereo (L & R) RCA output	
PCM support:	44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 358.8kHz, 384kHz, 717.6kHz, and 768kHz.	
DSD support:	Native playback supported. DSD64 (Single) to DSD512 (Octa-DSD)	
Volume control:	Digital, activated in 1dB increments. Last known state saved upon shutdown, with exception of line-level mode	
Line-level mode:	Activated via dual press of middle 'Source' and 'Crossfeed' buttons. Line level = 3v via all outputs. Reset by power cycle	
Power saving mode:	Auto-shutdown after ten minutes of input inactivity	
Driver support:	Driverless with Mac OS X and Linux, driver required for Windows OS	

User Configurable Options:

Filters (Digital):	Hugo (Ultimate Reference) (White) Hugo HF+ (High Frequency roll off) (Green) Mojo ('Smooth') (Orange) Mojo HF+ (High Frequency roll off) (Red)
Crossfeed (Digital IIR):	Level 1 - Light Level 2 - Medium Level 3 - Heavy
Control options:	Manual Remote control (included)

Technical specifications:

Chipset:	Chord Electronics custom coded Xilinx Artix 7 (XC7A15T) FPGA
Tap-length:	49,152
Pulse array:	10 element pulse array design
Frequency response:	20Hz - 20kHz +/- 0.2dB
Output stage:	Class A
Output impedance:	0.025Ω
THD:	<0.0001% 1kHz 3v RMS 300Ω
THD and noise at 3v RMS:	120dB at 1kHz 300ohms 'A' wighted (reference 5.3v)
Noise 2.6 uV 'A' weighted:	No measurable noise floor modulation
Signal to noise ratio:	126dB 'A' Weighted
Channel separation:	135dB at 1kHz 300Ω
Power output @ 1kHz 1% THD:	94mW 300Ω 740mW 33Ω 1050mW 8Ω
Weight:	450g
Dimensions:	130mm (L) x 100mm (W) x 21mm (H)
Boxed Dimensions:	220mm (L) x 122mm (W) x 85mm (H)

Supplied materials:

Charger:	Region specific 2amp USB Type A Fast charge
Cables and Remote:	Comprehensive cable pack and card remote control included

Visual overview:

USB Input:

Digital inputs and analogue outputs

Signal window:

Natural silver and satin black: