

PRELIMINARY RELEASE



C1 Mono

Dual Monaural Digital to Analog Controller

Three chassis form the foundations of the C1 Mono. Leveraging the technologies from the original C1, the C1 Mono separates the digital processing section from the two analog sections.

Dedicated chassis and internal power supplies for each section allow this product to reach the next level of performance in music reproduction. Add another three X1 External Power Supply units and the C1 Mono becomes CH Precision 1-Series' ultimate digital to analog controller.

The C1 Mono inputs are modular like into the original C1, sharing a common platform. Furthermore, stereo C1 Digital to Analog Controller units can be upgraded to C1 Mono.

Processing

- Proprietary CH-HiD synchronous data over-sampling processing
- DSD to 705.6kHz PCM conversion
- Digital to Analog converters data scrambling
- Linearization of the R-2R converters through automated calibration process

Timing & Clocking

- Ultra-low jitter digitally-controlled VCXO oscillators on dedicated power supplies
- Optional Master/Slave synchronization board

Digital to Analog Conversion

- Four R-2R converters per channel
- Dual mono symmetrical circuit topology

Volume Control

- Bypassable 0.5dB step hybrid volume control


Analog Stage

- Pure class A, fully symmetrical design
- Fully discrete, ultra-low noise, high slew rate design
- Analog balanced XLR, single-ended RCA and BNC outputs
- No capacitor in the audio signal path

Power Supply

- Ultra-low noise, dedicated discrete regulated linear power supplies in each chassis
- Magnetically and electrostatically shielded toroidal mains transformer

UNIT SPECIFICATIONS

Digital Audio Inputs - C1.d	
AES EBU, S/PDIF, Toslink	PCM up to 192kHz/24bit, DSD over PCM (DoP) up to 2.8224MHz/1 bit
CH Link	PCM up to 768kHz/32bit, native DSD up to 5.6448MHz/1 bit
USB Streaming (option)	PCM up to 384kHz/32bit, DSD over PCM (DoP) up to 5.6448MHz/1 bit
Ethernet Streaming (option)	PCM up to 384kHz/32bit, native DSD or DSD over PCM (DoP) up to 5.6448MHz/1 bit
Dual Mono Analog Audio Outputs - C1.m	
Total Harmonic Distortion + Noise	Less than 0.001%
Signal to Noise Ratio	Better than 120dB
Maximum Level	2.7V RMS on RCA & BNC connectors, 5.4V RMS on XLR connector
General	
Display	480 x 272 pixels 24bits RGB AMOLED
Power Supply	Selectable 100V, 115V or 230V AC, 47Hz to 63Hz, < 1W in Standby
Overall Dimensions and Weight	Three units of 440mm x 440mm x 133mm, 24kg each
 Control / Software Update	USB port for software update / Ethernet based system control

Specifications subject to change without notice. Illustrations are informative only.