

PRELIMINARY RELEASE



11

Universal Integrated Amplifier

CH Precision's recipe for making a Universal Integrated Amplifier: Gather together an A1, C1, L1 and P1. Gently squeeze and collect the essence and soul of each product. Delicately pour the concoction into a mould in the shape of the CH unique enclosure. Lightly shake for perfect consistency. Season to taste with optional audio input cards. Serve with your favorite source and loudspeakers. Sit down and enjoy! With digital, analog, phono, USB and Ethernet streaming inputs to choose from, the I1 is the heart of your compact yet exclusive audio system. While specified at 2x 100W RMS into 8Ω, its internal 1000VA power transformer provides the amplifier output stages with ample energy to accurately and effortlessly drive any loudspeakers.

Input Modularity

- Factory fitted with AES/EBU, S/PDIF, Toslink and CH Link digital inputs
- Ethernet audio streaming input, optional
- USB audio class 1.0 and 2.0 streaming input, optional
- Analog balanced XLR and single-ended RCA inputs, optional
- Current-mode phono input, ideal for MC cartridges, RIAA, eRIAA, Emi, Columbia, Decca and Teldec EQ curves, optional

Processing & Clocking

- Proprietary CH-HiD synchronous data oversampling
- Resolution enhancement for audio material of less than 24bits
- Ultra low jitter digitally controlled VCXO oscillators on dedicated power supplies

Digital to Analog Conversion

- Individual multibit Delta-Sigma converter per channel
- Pure class A, fully symmetrical analog design
- Fully discrete, ultra low noise, high slew rate design

Volume Control

- 118dB range in 0.5dB steps, from -100dB to +18dB
- Volume preset on each input
- Phono input adjustable gain
- Post volume control, line-level analog output on balanced XLR connectors
- Tight tolerance high-grade metal film resistors


Amplification Stages

- Pure class A ultra low noise driver and class AB pure follower power stage
- Feedback Ratio adjustable from 0% - local feedback only - to 100% - global feedback only - in 20% steps
- Patent-pending ExactBias circuitry
- Power transistors and heat sink temperature monitored
- No output relay
- Argento loudspeaker binding posts

Power Supply

- Shielded 1000VA power transformer
- Hyper fast soft recovery diode bridge rectifiers
- Total of 100'000uF reservoir and filtering 4-pole capacitors

UNIT SPECIFICATIONS

Digital Audio Inputs	
AES/EBU, S/PDIF, Toslink	PCM up to 192kHz/24bits and DoP (DSD64 over PCM)
CH Link	PCM up to 768kHz/32bits and native DSD up to 5.6448MHz/1bit
Audio Streaming (optional)	
Ethernet	Connects to a UPnP/DNLA compatible server (eg NAS). Browse music from a tablet using the CH Control App
USB	Enables bit-exact, ultra low jitter playback of high resolution audio files directly from a computer
Phono MC Input (optional)	
Input Impedance	<100mΩ, virtual ground input
Analog Audio Inputs (optional)	
Input impedance	Balanced (XLR): 94kΩ or 600Ω - Single-ended (RCA and BNC): 47kΩ or 300Ω
Maximum input level	Balanced (XLR): 8V RMS - Single-ended (RCA and BNC): 4V RMS
Analog Audio Outputs	
Line level outputs	Balanced (XLR): 4V RMS - Volume Controlled variable output
Power outputs	2x 100W RMS/8Ω, 2x 175W RMS/4Ω
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	440mm x 440mm x 133mm, 43kg
 Control / Software update	Ethernet based system control via the Android CH Control App / USB port for software update

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