

Specifications



Supported discs

CD, CD-R, CD-RW: stereo PCM 16 bits, 44.1kHz (redbook), MQA-CD
SACD single layer and hybrid stereo, DSD 1bit, 2.8224MHz (scarletbook)

User control

Dual concentric rotary knob with push function (control knob)
Handheld infrared remote control
CH Control app for Android tablet or smartphone

Display

800 x 480 24bits RGB AMOLED

Power supply

Selectable 100V, 115V or 230V AC, 47Hz to 63Hz

Digital Audio Outputs

CH LINK HD

Proprietary data link supporting high-definition uncompressed audio and control. Cyphered operation for high-resolution signals (DSD). LVDS signaling for all audio signals (incl. clocks). 16bits/44.1 or 24bits/88.2kHz (CD, MQA-CD). 1bit/2.8224MHz (SACD)

AES/EBU (consumer format)

XLR connector, 2.5Vpp diff., 110 Ohm,
16bits/44.1 or 24bits/88.2kHz (CD, MQA-CD)
24bits/44.1, 88.2, 176.4kHz or 1 bit/2.8224MHz DoP encoded (SACD)

Coaxial (S/PDIF)

RCA connector, 0.5Vpp, 75 Ohm,
16bits/44.1 or 24bits/88.2kHz (CD, MQA-CD)
24bits/44.1, 88.2, 176.4kHz or 1 bit/2.8224MHz DoP encoded (SACD)

Optical TOSLINK (S/PDIF)

Standard TOSLINK optical connector,
16bits/44.1 or 24bits/88.2kHz (CD, MQA-CD)
24bits/44.1, 88.2, 176.4kHz or 1 bit/2.8224MHz DoP encoded (SACD)

Optional Analog Outputs

Frequency response

DC – 20kHz for CD
DC – 50kHz for SACD

Full scale analog outputs level

4V RMS balanced
2V RMS single-ended

Dynamic range

> 96dB for CD and > 120dB for SACD

Signal to Noise Ratio

> 120dB for both CD and SACD

Total Harmonic Distortion + Noise

< 0.002% for CD < 0.0015% for SACD

Operational Information

Power consumption (Standby) < 1W

Power consumption (Normal operation) Max 100W

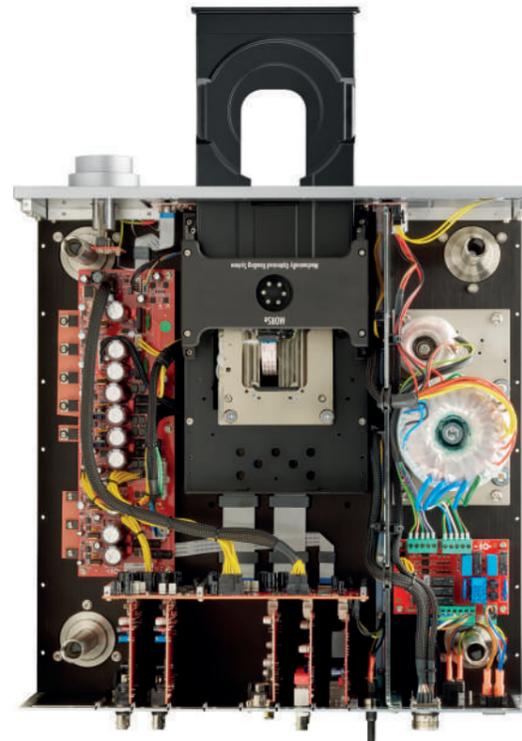
Operating conditions

Temperature: +5°C to +35°C, humidity: 5% to 85% (no condensation)

Dimensions/Weight

440 x 440 x 133mm (W x D x H), 22kg

800 x 600 x 300mm (W x D x H), 30kg (in box)



CH Precision D1.5



SACD/CD Player/Transport



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CH Precision D1.5 SACD/CD Player/ Transport



The D1 CD/SACD player/transport was CH Precision's first ever product, a discrete multi-channel capable machine that established our now familiar, user configurable, upgradable, card-cage construction. For over a decade, along with the C1 DAC, it has set the standard for high-resolution disc replay, even though, these days the focus for many listeners has switched to file replay.

Yet, with the constant development of new production techniques, materials and even formats, optical disc has never sounded so good. The emergence of Glass CD, SHM discs, UHQCD and new formats such as MQA encoding, has improved performance, giving disc replay a renewed relevance – while millions of existing discs still offer superb performance(s). But at the same time, the quality of replay hardware has diminished significantly, undermining those advances and masking their real value.

Time to revisit disc replay – Swiss style. To match improving digital standards we have developed our own, mechanically damped, high-mass MORSe transport mechanism. We have revised the optional on-board upsampling, updating it with our proprietary PEtER spline filter algorithm. We have added MQA replay capability, while also allowing users the choice of optimized MQA digital output when connected to an external, MQA capable DAC, avoiding on-the-fly sample-rate switching.

Meet the D1.5: same face; same precision engineering and flawless finish; same versatile, configurable, upgradable character; still the foundation stone of the CH digital eco-system – but now delivering a whole new level of performance!



Features and Functionality

With an almost identical form-factor and operational interface, the D1.5 continues the established CH aesthetic, fitting in perfectly with existing and future systems. However, internally it is a completely different machine, based around our own, all-new, proprietary transport mechanism.

- In-house designed and built Mechanically Optimized Reading System (MORSe) disc transport. The optical pick-up and motor are precision mounted on a machined brass 'sled' that weighs almost 1kg, which is in turn isolated on a sophisticated alpha-gel suspension, fine-tuned to filter vibration down to AC Mains frequencies. This prevents vibrations generated by the spinning of the disc from reaching sensitive electronic boards, as well as low frequency vibrations originating in the power supply or chassis disturbing the accurate tracking of the laser mechanism.
- Massive, ultra rigid support frame, constructed from almost 2kg of machined billet aluminum and direct coupled to the chassis base plate, with its improved four-point mechanical grounding and levelling system.
- CH Link HD, AES/EBU, S/PDIF and TosLink digital outputs mounted as standard.
- Fully compatible with SACD, CD and MQA CD discs.
- Optional dual mono DACs and Sync IO board allow users to specify or adapt unit for uses as a transport or player, with or without external clocking.
- On-board upsampling employs state-of-the-art PEtER spline filter algorithm for CD replay.
- Users can configure digital outputs to optimize replay of MQA discs with an MQA capable DAC, avoiding on-the-fly sample-rate switching.
- External power supply input for use with X1 power supply.
- Fully compatible with CH Precision's C1 and C1 Mono DACs, the I1 integrated amplifier as well as the T1 Time Reference master clock.

