AUDIONET

Scientific magic.

SCIENTIST SERIES
ULTRA MACHINE

PLANCK



Quantum practice

The Machine:
PLANCK is Audionet's final statement re. the classical compact disc. No other machine on the market plays with such precision, ease, stage and musical literacy. PLANCK even surpasses our worldwide successes VIP and ART.

Want to hear the music breathe? This is the best available lung on this planet.

"Congrats!" says i-fidelity in the first review ever. Let's celebrate science together with PLANCK.

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The science:

Special features PLANCK

- Top loader, decoupling aluminium and slate body construction.
- Massive 20 mm aluminium body, resonance-optimized fixation with invisible screws and Teflon bedded massive disc drawer cover made of 10 mm aluminium.
- Additional decoupling of the drive unit, PCBs and high precision clock genenrator by Audionet Aligned Resonance Technology.
- Reference drive unit CD-PRO 2LF on 8 mm Aluminium base.
- Adaptive high precision puck and puck mounting made of POM, toroid Neodym magnet.
- Completely separated power supplies for pickup and converter unit, digital and analog section.
- Completley DC-coupled, no capacitor in the signal path.
- Newly developed discrete output modules with extremely fast, wide-band high-performance Class A output drivers.
- Current-Voltage converter with absolute temperature stable and sound neutral high-precision resistors and with custom made mica capacitors of highest grade for internal frequency compensation.
- D/A convertor function with separate and user-selectable digital inputs: SPDIF electrical (Cinch) and optical (Toslink) as well as USB Audio 2.0 (USB type B socket).
- All digital inputs up to 192 kHz / 24 bit.
- Digital outputs SPDIF (electrical and optical) and AES/EBU output 44.1 KHz / 16 Bit (for CD).
- Disengageable digital outputs.
- Professional concept of operations.
- Rhodium fuse.
- Audionet metal remote control RC 1.

Specifications & Finish:

Function	Compact Disc Player
Laser system	Semiconductor laser, 780 nm wave length
Converter	192 kHz / 24 Bit, Dual-Mono-DAC Multibit-Delta-Sigma method
Sample rate	44.1 kHz
Audio bandwidth	0 – 70,000 Hz (-3 dB) (reconstruction filter)
THD+N	< -107 dB (A-weighted) @ -6 dBFS
SNR	> 111 dB
Channel separation	> 134 dB @ 10 kHz

Outputs	1 pair of RCA analog, gold plated, teflon insulated 1 pair of XLR analog, gold plated 2 RCA digital (SPDIF), gold plated, 600 mV_{ss} in 75 Ω 1 AES/EBU digital, 110 Ω, gold plated 1 SPDIF optical digital (All digital outputs can be de-activated!) 2 Audionet Link, optical (Toslink)
Inputs	1 USB Type B socket, USB Audio 2.0 1 Cinch, electrical digital (SPDIF) 1 TosLink, optical digital (SPDIF) (all digital audio inputs up to 192 kHz/24 bit) 1 Audionet Link, optical (Toslink)
Output impedance analog	33 Ω real
Output level analog	3.5 V_{RMS}
Mains	220...240 V or 110...120V, 50...60 Hz
Power consumption	< 1 W Stand by, max. 40 W
Dimensions	Width: 430 mm Height: 120 mm Depth: 360 mm
Weight	25 kg
Finish	Front: Brushed aluminium, 12 mm, C-33 (light bronze) anodised, text & symbols engraved Display: White Top/cover: Brushed aluminium, C-32 (light bronze) anodised Chassis: Slate, aluminium, C-32 (light bonze) anodised, white print

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Idektron Unternehmens- und Technologie-Beratung GmbH & Co. Entwicklungs- und Produktions-KG, Bochum, Germany; Handelsregister Amtsgericht Charlottenburg HRA 51812B; Persönlich haftende Gesellschafterin: Idektron Unternehmens- und Technologie-Beratung GmbH, Herner Straße 299, 44809 Bochum, Germany Handelsregister: Amtsgericht Charlottenburg HRB 173373 B; Geschäftsführer: Thomas Gessler, Robert Hagemann