

AUDIONET

Scientific magic.

PLANCK

The quantum leap



This is a scientific paper.

For holographic images and optimal resolution please do visit your audionet expert dealer.
Thanks very much. We're glad you are with us.

SCIENTIST SERIES – ULTRA MACHINE PLANCK

The Machine

PLANCK is Audionet's final statement re. the classical compact disc. No other machine on the market plays with such utmost precision, formidable ease and deep-rooted musicality. PLANCK even surpasses our worldwide successes VIP and ART.

Want to hear the music breathe? Here's the best available lung on this planet:

The body construction completely made of non-ferromagnetic materials combined with a massive slate board optimizes the resonance characteristics of

PLANCK. The new design with non-visible fixation screws and with a massive and solid aluminium cover pleases both eyes and ears alike.

Converting from digital to analog, newly developed discrete output modules with extremely fast, wide-band high-performance class A output drivers ensure the perfect sonic experience. The current-voltage converter comprises absolutely temperature stable and sonically neutral high-precision resistors.



Massive aluminium body and resonance-optimized fixation with invisible screws.



Newest chassis generation with aluminium and slate body construction.

Our high-precision clock generator eliminates the infamous jitter: PLANCK gets all music data at the right time and with its correct value. And the internal frequency compensation equipped with custom made mica capacitors of highest grade guarantees absolute precision in the analog domain.

Also, we gave the digital input section a completely new design. PLANCK uses the same outstanding USB Audio 2.0 technology as Audionet's famous DNx machines:

- USB Audio 2.0 support up to 192 kHz / 24 bits.
- Asynchronous data connection and re-clocking ensuring a clean digital music signal.
- The USB Audio circuitry is completely galvanically isolated from the rest of the PLANCK. Therefore no harmful reactions apply from the PC and its "dirty" power supply.
- Separate and user-selectable electrical and optical digital inputs (SPDIF) – also using DNx technology and up to 192 kHz / 24 bit for enhanced playback of other digital sources.

In short: In PLANCK we tuned all relevant parts with scientific meticulousness and musical passion to achieve the ultimately possible sonic quantum leap.



Reference drive unit CD-PRO 2LF on aluminium base.

Finish

Front:
Brushed aluminium, 12 mm, C-32 (light bronze) anodised,
text & symbols engraved

Display:
White

Top/Cover:
Brushed aluminium, 20 mm, C-32 (light bronze) anodised

Disc drawer:
Brushed aluminium, 10 mm, C-32 (light bronze) anodised

Chassis:
Slate, aluminium, C-32 (light bronze) anodised, white print





High precision puck and mounting made of POM.

The Science

- Top loader, decoupling aluminium and slate body construction.
- Massive 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 generator 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.
- Completely 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 absolutely temperature stable and sound neutral high-precision resistors and with custom made mica capacitors of highest grade for internal frequency compensation.
- D/A converter 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.
- Remote power on/off via Audionet Link (optical cable).
- Rhodium fuse.
- Audionet metal remote control RC I.

Option: Ultra stable external power supply AMPERE

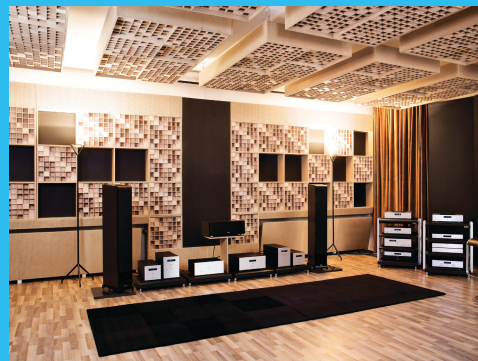
Absolute load stable external power supply for the analog sections of Audionet CD player PLANCK.

What's the scientific progress in external power supply? Ask AMPERE. Providing you with hitherto unheard-of stability, calmness, spatiality and tonal pureness. AMPERE is what will make the decisive difference regarding the performance of all your devices in the future.



Audionet Listening Room

Listen and be enlightened!
In Audionet's quite incomparable
listening room.



In- and Outputs

- Audion inputs:** (digital)
- 1 USB Type B socket, (USB Audio 2.0)
 - 1 RCA, electrical digital (SPDIF)
 - 1 TosLink, optical digital (SPDIF)
- (All digital audio inputs up to 192 kHz / 24 bit)
- Audio outputs:** (analog)
- 1 pair RCA analog (Furutech), gold plated, teflon insulated
 - 1 pair XLR analog, gold plated
- Audio outputs:** (digital)
- 2 RCA digital (SPDIF), gold plated, 600 mV_{SS} in 75 Ω
 - 1 AES/EBU digital, 110 Ω, gold plated
 - 1 SPDIF optical digital (TosLink)
- (All digital outputs disengageable!)
- Remote activation:**
- 1 Audionet Link IN, optical (TosLink)
 - 2 Audionet Link OUT, optical (TosLink)
- Ext. power supply:** 5-pin input (AMPERE)
- Mains:** IEC male power insert connector with Rhodium fuse

Function

Reference Compact Disc Player.
D/A converter for audio data via USB by a computer or via SPDIF.

Laser System

Semiconductor laser, 780 nm wave length.

Norms

CD / CD-R / CD-RW (finalized and non finalized discs).
Disc sizes 80 and 120 mm, IEC 908 conform.

Converter

- Stereo channels:** 192 kHz / 24 bit, Dual-Mono-DAC, Multibit-Delta-Sigma method
- Sample rate:** 44.1 kHz

Technical Data

- Audio bandwidth:** 0 - 75,000 Hz (-3 dB) (reconstruction filter)
- THD + N:** typ. < -107 dB (A-weighted) @ -6 dBFS
- SNR:** > 111 dB
- Channel separation:** > 134 dB @ 10 kHz
- Output impedance:** 33 Ω real (analog)
- Output level:** 3.5 V_{RMS} (analog)
- Mains:** 220..240 V oder 110..120 V, 50..60 Hz
- Power consumption:** < 1 W Stand by, max. 40 W
- Dimensions:** Width 430 mm
Height 120 mm
Depth 370 mm
- Weight:** 25 kg



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Errors and omissions excepted. Specifications and design are subject to changes without prior notice.

Sources
PLANCK
VIP G3
ART G3



Integrated Amplifier
WATT
SAM G2



Preamplifier
STERN
PRE G2
PRE I G3
MAP I
PAM G2



Power Amplifier
HEISENBERG

MAX
AMP
AMPV II
AMP IV2
AMPV
AMP IV
AMP III



Network Components

DNP
DNA 2.0
DNA I
DNC



Power Supply
AMPERE
EPX
EPS G2

