Audionet ART G2: The Visionary Player

The predecessor model ART V2 is considered to be one of the best-sounding CD players ever made, boasting unique acoustic and design characteristics that convinced music-lovers around the world. An impressive list of test victories, distinctions, and awards testifies to the long and triumphant reign of the ART V2.

Presenting the next CD player generation, Audionet is aware of the obligations such a history imposes. The ambitious goal of ART G2 (Generation 2) is to surpass by far the performance of its highly decorated predecessor, and so add a new chapter to the ART success story.

ART G2 is geared towards the requirements of classical stereophony. Expert connoisseurs of high-quality musical reproduction will find the product not only delivers the aural satisfaction they dream of, but even opens up previously unknown musical realms. Combining craft with precision and presence, ART G2 fulfills its makers vision of pushing back the quality frontiers of classical CD playback to rival the standard of advanced high-resolution media. ART G2 is equipped with the potential to become a further milestone in audiophile acoustic art.
As befits the next generation, ART G2 comes complete with a new design and a wealth of innovative features. The crystal clear front panel along with a large, information-rich display and a solid sliding cover for maximum stability make ART G2 instantly identifiable. The operating concept was specially developed to satisfy even professional requirements. Thanks to the Audionet EPS precision power pack it is now possible to enhance performance once again. And there’s a visionary aspect that delivers two machines in one – ART G2 is also a D/A converter. The player’s qualities can also be exploited for digital sources, and via USB connection for computers likewise.

ART G2 is a wholly new construction, based on an uncompromising concept implemented with maximum attention to detail. Every phase of retrieval and playback was subjected to rigorous testing and optimisation.

Once entrusted to the ART G2, the securely mounted discs are read free from unwanted external influences. The casing ingeniously combines amorphous granite, steel, aluminium and low-resonance medium-density fibreboard. Audionet Aligned Resonance technology additionally decouples from the casing the transport unit which is mounted on a sturdy aluminium plate, thus systematically absorbing parasitic momentum. The disc is fixed in position by a special puck made of POM, a Teflon-like material.

Running smoothly and solidly in thick aluminium rails, a sturdy aluminium cover seals off the disc drawer and imparts additional stability to the MDF casing. Parasitic vibrations and noise stand no chance.
ART G2 spares no effort to improve the acoustic possibilities of the CD. With innovative engineering, excellent components, and audiophile passion we have re-defined the boundaries of feasibility.

Audionet Intelligent Sampling technology guarantees the wholly accurate recovery of the analog signal from the digital data stream. The PCM data runs through a sophisticated two-stage filtration and decoupling process. First, the initial data is filtered and synchronously upsampled by proprietary Audionet software running on a powerful digital signal processor. The filters are designed for maximum possible accuracy of impulse and frequency response. Thus optimized, the audio data is rendered to 192 kHz/24 bits by an asynchronous upsampler, and is completely decoupled from the input clock in the process. The data are then transferred in separate channels to two high-performance converters and processed into analog streams. The digital-to-analog converters are clocked by an interference-free, stress-isolated, high-precision clock generator and powered by high-accuracy sources.

The analog processing is performed by differential current-voltage converters and extremely complex filter/amplifier circuits. Designed for exceptional impulse accuracy and extremely high cut-off frequency, these electronic circuits are composed of discrete components, with two dual-FET inputs, boot-strapped cascode and audiophile adjustment.

This extended design guarantees optimum channel separation, maximum dynamic range and minimum distortion, eliminating jitter artefacts to levels below that which can be detected.
The digital audio transmission is likewise unique. The PCM data are processed and decoupled by Audionet Intelligent Sampling technology, then routed to a powerful output transmitter via a low-jitter LVDS data link which is non-sensitive to interference.

Audionet's proprietary HighBit interface permits provision of all data at rates up to 192kHz/24 bits, while LowBit mode offer rates up to 96 kHz/24 bits. Thus, the best possible PCM output data is digitally available on a permanent basis.

**ART G2: Overview and Specifications**

**Function**

Compact Disc Player

**Special characteristics**

- Top loader with damping MDF, aluminium and granite casing construction
- Solid aluminium cover (10mm), run on Teflon bearings
- Audionet proprietary Aligned Resonance technology additionally decouples transport unit and boards as well as the clock generator
- Disc stabilizer (puck) made of POM
- Separate power supplies for read-out and converter unit
- Completely DC-coupled, no capacitors in the signal path
- Discrete, extremely fast and stable filter and output stages
- D/A converter function with USB/SPDIF digital input
- Audionet Intelligent Sampling technology with 192 kHz / 24 bits
- Audionet HighBit-Interface with 192 kHz / 24 bits output
- AES-EBU output with 96 kHz / 24 bits
- Digital outputs can be switched off
- Professional operating concept
- Remote control (included)
Press Release

Optional feature

Audionet external precision power supply EPS for the analog section

Laser system

Semiconductor laser, wavelength 780 nm

Standards

CD | CD-R in conformance with Redbook, Orangebook and Bluebook standards

Conversion

- Stereo channels: 192 kHz/24 bits, Dual-Mono-DAC, Multibit-Delta-Sigma
- Sampling rates: 44.1 kHz
In- and Output

- Analog audio outputs: 2 cinch line, gold-plated
  2 XLR, gold-plated

- Digital audio outputs: 2 cinch, 600 mVs into 75 ohms, gold-plated
  1 AES/EBU, 110 ohms, gold-plated
  1 Audionet HighBit DataLink
  1 optical (TosLink)

- Digital audio inputs: 1 USB, for USB-Audio and SPDIF

- Remote activation: 1 Audionet-Link in, optical (TosLink)
  2 Audionet-Link out, optical (TosLink)

- External power supply: 5-pin input
Measured values

- Bandwidth: 0 – 22,000 Hz (-3 dB), 0 – 90,000 Hz (-3dB) analog
- THD + N: typ. 100 dB (A weighted) @ -60 dBFS
- SNR: > 110 dB
- Channel separation: > 130 dB @ 10 kHz
- Output impedance: 33 ohms
- Output voltage: 3.5 Veff.
- Dimensions: width 430 mm | height 120 mm | depth 360 mm
- Weight: 22 kg
- Mains connection: 230 V, 50...60Hz
- Power input: 5 W standby, max. 40 W

Finish:

- Front panel: brushed aluminium, black anodized, white printing
  brushed aluminium, silver anodized, black printing
- Display: red or blue
- Cover: MDF, Nextel coated, grey
- Slide: aluminium (10mm), black anodised
- Chassis: granite, sheet steel, black