

developed by New Japan Radio Corporation are employed to process the I-V conversion which turns output current from the DACs into voltage signals. A dual-monaural approach is also applied to this stage of processing.

CCLC for dual-mono headphone amplifier circuit

When listening to Hi-Res music via the UD-301-X's dual-monaural headphone amplifier circuit, the CCLC (Coupling Capacitor-Less Circuit) delivers a rich bass sound and quick transient responses. Conventional headphone amplifier circuits cannot avoid reduction of low frequencies and misalignment of phase caused by high-pass filtering within capacitors as they couple output stages.

Also works as a standalone headphone amplifier

In addition to its dual monaural headphone amplifier circuit design, the UD-301-X further strengthens its credentials as a headphone amplifier by offering the ability to disable XLR and RCA outputs on the rear panel. This limits power supply to the headphone amplification process, so maximizing its potential for headphone output. The UD-301-X offers ease of use as a headphone amplifier because the headphone volume is always varied by the master volume control on the front panel, regardless of the output mode (fixed, variable or disabled).

Toroidal-core power transformer for plenty of power

The UD-301-X features an energy-efficient Toroidal-core power transformer to deliver plenty of stable current to every single part of the circuit, including two high-performance DACs (digital to analogue converters) that carry out ultra-high-speed processing. Even when there are sudden dynamic swings, where large amounts of current are required instantly, the UD-301-X's power supply will prove equal to the task.

Robust aluminum body, and small footprint

A 215mm width and 238mm depth creates a footprint that allows you to place the unit in the smallest of spaces, while the full-metal body provides excellent rigidity and minimizes the adverse effects of vibration on final sound quality.

XLR Balanced outputs

The UD-301-X is capable of working as a high-performance DAC with professional audio equipment and high-end audio units, as well as with consumer hi-fi components, thanks to its pair of XLR Balanced output terminals.

Pre-amplifier mode to connect with power amplifier

The output from both XLR Balanced and RCA Unbalanced outputs can be set to, fixed, variable or disabled, depending on your needs. This flexibility, among other things, allows you to connect to power amplifiers for a separates-based system or, indeed, active speakers when the unit is set to variable mode.

Features at a glance

- Supports DSD64 and DSD128 native playback (on USB Input)
- Supports PCM 192kHz/24-bit playback
- Asynchronous Transfer Mode
- Up-conversion to 192kHz (user defeatable)
- Dual 32-bit BurrBrown PCM1795 DACs
- Dual monaural circuit design
- Dual MUSES8920 Op-amps
- Dual monaural CCLC Headphone amplifier circuit
- Toroidal-core power transformer
- Full-metal body
- USB Audio input
- Coaxial digital audio output
- Optical digital audio output
- XLR analogue balanced output (Output level: Fixed, Variable, Disabled)
- RCA analogue unbalanced output (Output level: Fixed, Variable, Disabled)
- Headphone output (1/4" Stereo phone jack)
- Detachable power cable
- Auto-power saving
- RoHS compliant

Included accessories

- Power cord

- Owner's Manual (including warranty)

Specs

Product Attributes

EAN:	4907034222438
Manufacturer number:	UD-301-X/B
Product weight:	2.8 kilograms
Pieces per master carton:	60 Piece