

[NuForce Introduces Today UDH-100, a USB-only Digital-to-Analog Converter and Single-Ended Class-A Headphone Amplifier](#)



The UDH-100 incorporates several NuForce innovations and number of technological advancements seldom seen at its price point. With its single USB input, the UDH-100 stands as the ideal device for those who have no need of other sources. Features include a precision digital volume control, a high-power single-ended Class-A headphone amplifier section with extremely low distortion, a high-resolution analog RCA output stage, and a convenient wireless remote.

Milpitas, Calif. - NuForce, Inc., a leader in professional and consumer audio gear, announces today a USB-only digital-to-analog converter and headphone amplifier that offers unsurpassed performance and value. The UDH-100 incorporates several NuForce innovations and number of technological advancements seldom seen at its price point. With its single USB input, the UDH-100 stands as the ideal device for those who have no need of other sources. Features include a precision digital volume control, a high-power single-ended Class-A headphone amplifier section with extremely low distortion, a high-resolution analog RCA output stage, and a convenient wireless remote.



“The UDH-100 has been designed to meet and exceed the expectations of audiophiles looking for the kind of performance found in DACs commanding several times its price.” -Jason Lim, Nuforce CEO.

No Up-sampling

The UDH-100 employs a true, 24-bit, 192kHz DAC that accurately converts digital audio data to an analog signal at its native sampling rate. No up-sampling or other questionable data-manipulation is employed.

Low Jitter

Jitter accompanies all digital processes to some degree. A typical computer's USB bus is especially prone to jitter owing to its alternate use in communicating with external computer peripherals (printers, etc.). The UDH-100 employs NuForce's proprietary asynchronous data transfer technology, which reduces jitter to the vanishing point.

The UDH-100's digital input stage operates in an asynchronous mode independent of timing errors associated with incoming digital audio streams. Compared to traditional USB isochronous data transfer, jitter is greatly reduced.

Powerful Headphone Amp

Quality headphones generally require muscular amplification in order to drive them to their full potential. The UDH-100 fulfills this need by including a single-ended Class-A headphone stage operating in constant-current mode in order to deliver pristine sound to headphones widely regarded, on the one hand, as difficult to drive, and on the other, as the best available. As a further attraction, the UDH-100's noise-rejecting circuitry excels at driving high-sensitivity/low-impedance headphones as well.

In short, the UDH-100's headphone amp delivers enough power - a full 500-milliwatts of single-ended Class A power, held by many audiophiles to be a headphone amp's purest form of circuit topology - to drive most headphones with absolute authority.

Precision Volume Control

Volume controls are often a source of distortion and channel imbalance. In order to achieve supreme accuracy, an analog volume control's design requires a high degree of sophistication and commensurate production costs. Modern digital controls are superior in many respects. However, they will degrade dynamic resolution if operated at the same bit depth (resolution) as that of the audio data - a difficulty easily overcome if the control operates at a higher degree of bit resolution than that of the audio data. The UDH-100 employs a digital 32-bit volume control that provides extreme accuracy and precise channel tracking. Unlike common digital volume controls operating at 24 or 16-bits, the UDH-100's 32-bit volume control avoids any loss of low-level resolution.

Transparent Preamp

Finally and of great importance is the line-level analog stage that follows the DAC. Irrespective of the DAC's accuracy, the sound the finished product produces can be no better than the amplification at the line-level stage. Indeed, this stage shares much in common with typical preamplifiers - without the extra gain. The UDH-100 has been designed to deliver the analog signal to its RCA terminals with the same level of audiophile fidelity found in the very best preamps. The UDH-100's analog preamp stage is a minimalist design that approaches a straight-wire-with-gain level of performance. Top-quality parts and a full 2.0Vrms signal level ensures the purest of analog signals.

Pricing and Availability

The NuForce UDH-100 is available worldwide for a suggested retail price of US \$649 and shipping immediately.

About NuForce

Based in Milpitas, California, NuForce first gained visibility for its patented audiophile-grade Class-D power amplifiers,

earning numerous awards from audio publications in the U.S. and Japan. Building upon its reputation as a company that developed state-of-the-art audio products, NuForce worked diligently to expand its product line with digital-to-analog converters, in-ear and over-the-ear headphones, speakers and subwoofers, cables, additional home and headphone amplifiers, and other high-end audio accessories. Simple elegant with superior sound quality in every product is the signature of NuForce brand.

Today, NuForce is sold internationally and remains firmly committed to being a high-performance consumer electronics company adhering to stringent quality standards, ensuring integrity and value in every NuForce product.

Media Contacts:

Jessica Darrican

Max Borges Agency

305-576-1171 x.16

305-299-3449

JessicaDarrican@maxborgesagency.com

Anna Zhao

NuForce, Inc

Phone: +1-408-890-6840

###