

# PRESS INFORMATION

Personalized Listening

**New Denon DA-10 portable headphone amplifier with USB-DAC delivers audiophile quality sound for on-the-go listening**



**October 14<sup>th</sup>, 2014** – Denon, one of the world’s leading manufacturers of high-quality home entertainment products, today announced the availability of their first ever DA-10 audiophile portable headphone amplifier with USB-DAC. It features exclusive Denon technologies and state-of-the-art D/A conversion along with compatibility with high resolution audio file types, including up to 24 bit/192 kHz PCM and 2.8 and 5.6 MHz DSD audio files.

Targeted to audiophiles and serious music listeners, the DA-10 features Denon's purist approach to design and execution, and is housed in an elegant aluminium finished casing with a solid aluminum alloy volume knob, and the included carry pouch is designed to house the DA-10 as well as a portable audio device or a smartphone.

While portable audio players, smartphones and tablets can easily power ordinary ear buds, their analogue audio output stages typically can't handle higher impedance headphone types, and the quality of their internal D/A conversion isn't up to the standard that serious music listeners desire. That's where the DA-10 changes the game and takes over. With its advanced audio technologies engineered by Denon audio expert the DA-10 brings all the details, all the bass, all the excitement back to life. This is not only noticeable by high price audiophile headphones, but also easily noticeable with standard, yes even ordinary in ear buds. Just get more punch, more finesse and just play it louder and with more dynamic. That's what the DA-10 offers. But we also thought of another use case - it acts as an external DAC for your analogue Hi-Fi system. Just add it to your existing Hi-Fi and enjoy via the new digital connectivity your digital music library in best audio quality.

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The DA-10 features state-of-the-art D/A conversion, using the reference class 32 bit/192 kHz Burr-Brown PCM-1795, which is usually found in premium audiophile disc players and digital amplifiers. The DAC features the ability to decode linear PCM files with sampling frequencies from 32 kHz all the way up to 192 kHz, and bit depths up to 24 bits. It is also compatible with one bit DSD files (the format found on SACD discs).

Internally, the DA-10 features premium Denon design and construction, with separate circuit boards for the main audio block and the power supply block, to eliminate inter-stage interference. There are dual master clocks (22.6 and 24.6 MHz) to optimize performance with specific sampling frequencies (44.1, 88.2, 176.4 MHz and 32, 48, 96, 192 kHz), and the low phase clock crystals are positioned directly adjacent to the DAC chip on the audio board for maximum jitter reduction.

Audio quality is further enhanced by Denon's exclusive digital filtering and noise shaping algorithm, Advanced AL32 Processing. This technology, found on Denon's premium disc players and premium digital audio separates, takes standard 16 bit digital audio and upsamples it to 32 bits, dramatically improving low level resolution and high frequency detail, and the technology also features dynamic digital filtering, optimizing the digital filter algorithm according to the specific sampling frequency of the track being played.

There are numerous inputs, including standard USB for iPod, iPhone and iPad, and micro-USB port for direct connection to a computer's USB audio output. This port works in asynchronous mode to support not only 192 kHz/24bits high-resolution audio but also the DSD 2.8MHz and 5.6MHz for maximized performance and the most direct way to enjoy excellent quality. For other portable devices and players, the DA-10 package also includes a standard 3.5mm-3.5mm stereo analogue cable, with "L" connectors on both ends.

The DA-10 features multiple output modes. There's a dual position gain switch for low and high impedance headphone types, as well as a variable/fixed output switch that allows for direct connection to another audio component, such as a home stereo amplifier. Housed in an elegant aluminum finished casing, the DA-10 comes with a custom-designed carry pouch to protect the device and your phone while traveling. Further it combines the DAC and the phone to one handy device and covers all cables. Operation of the phone is still possible by a pliable see-through window.

Equipped with a high capacity (3200 mAh) rechargeable lithium-ion battery, the DA-10 provides up to 7 hours of run time with an iDevice, and up to 24 hours runtime when connected to a portable player via the analog 3.5mm input. The DA-10 lets the user know the battery level at turn-on by showing the charge LED in different colours.

With the Denon DA-10 portable USB DAC and headphone amplifier, audiophiles and serious music listeners can enjoy hours of superb audio fidelity with their favourite portable devices virtually anywhere. It will be available starting in November.

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**At a glance:** DA-10 Portable USB-DAC / Headphone Amplifier

- Advanced AL32 Processing
- DAC master clock design
- 192kHz/32bit D/A Converter used in Denon High-class SACD Player
- Dual Clock for 44.1kHz and 48kHz
- Discrete Current Buffer for Headphone Output
- USB-A input (for iPod/iPhone/iPad)
- USB Micro-B input (for Computer)
- USB Micro-B input supports 192kHz/24bit and DSD (2.8MHz/5.6MHz) files
- 3.5 mm analogue input
- Fixed analogue output to connect to your Hi-Fi system as external DAC
- Portability design and functionality for outdoor use
- 7 hours run time rechargeable battery
- Carrying pouch
- Micro USB cable (Micro B), Lightning USB cable, 30pin USB cable, Stereo mini plug cable are supplied

**Images:**

[http://www.denon.eu/downloads/press/2014\\_DA-10/Denon-DA\\_10\\_ah-mm400\\_and\\_smartphone.jpg](http://www.denon.eu/downloads/press/2014_DA-10/Denon-DA_10_ah-mm400_and_smartphone.jpg)



Denon DA-10 with Denon AH-MM400 headphones, and smartphone

[http://www.denon.eu/downloads/press/2014\\_DA-10/Denon-DA\\_10\\_ah-mm400\\_and\\_laptop.jpg](http://www.denon.eu/downloads/press/2014_DA-10/Denon-DA_10_ah-mm400_and_laptop.jpg)



Denon DA-10 with Denon AH-MM400 headphones, and laptop

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[http://www.denon.eu/downloads/press/2014\\_DA-10/Denon-DA\\_10-product.jpg](http://www.denon.eu/downloads/press/2014_DA-10/Denon-DA_10-product.jpg)



Denon DA-10

[http://www.denon.eu/downloads/press/2014\\_DA-10/Denon\\_DA-10-carrying\\_case.jpg](http://www.denon.eu/downloads/press/2014_DA-10/Denon_DA-10-carrying_case.jpg)



Denon DA-10 in carrying case (smartphone not included)

### *About Denon:*

*From its beginning in 1910 as a supplier of professional recording studio and broadcast equipment, Denon has become a world leader in the manufacture of the highest quality home theatre, audio and software products. Denon is recognized internationally for innovative and groundbreaking products and has a long history of technical innovations, including the development and first commercialization of PCM digital audio.*

### *About D&M Holdings:*

*D&M Holdings is a global operating company providing worldwide management and distribution platforms for premium consumer, automotive, commercial and professional audio and video businesses including Denon®, Marantz® and Boston Acoustics®. Our technologies improve the quality of any audio and visual experience. All product and brand names with a trademark symbol are trademarks or registered trademarks of D&M Holdings or its subsidiaries. For more information visit [www.dmglobal.com](http://www.dmglobal.com).*

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