



Sennheiser HD 490 PRO -kuulokkeet on luotu nykypäivän monimutkaiseen musiikkituotantoon

Referenssitason HD 490 PRO -studiokuulokkeet tarjoavat täydellisen yhdistelmän tarkkuutta, käyttömukavuutta ja luotettavuutta

Helsinki, 23.1.2024 – Sennheiser on julkistanut tänään upouudet avoimet referenssitason HD 490 PRO -studiokuulokkeet, jotka on suunniteltu erityisesti äänituotantoon sekä äänen miksaukseen ja masterointiin. Dynaamiset kuppimallin kuulokkeet tuottavat erittäin tarkan äänen sekä hyvin laajan ja realistisen äänikuvan. Äänen ensiluokkainen tarkkuus ja laajuus mahdollistavat tarvittavan läpinäkyvyyden, jotta tuottajat, miksaajat, masteroijat ja muusikot voivat tehdä kriittisiä miksauspäätöksiä ja ratkaista mahdolliset panorointiin liittyvät ongelmat luottavaisin mielin. HD 490 PRO- ja HD 490 PRO Plus -kuulokkeet (mukaan lukien lisävarusteet) ovat saatavilla tammikuun lopusta alkaen. Lisäksi niitä voi testata Sennheiser-konsernin esittelytilassa (#18806) Yhdysvaltain Kalifornian osavaltion Anaheimissa 25.–28.1.2024 järjestettävässä NAMM Show -tapahtumassa.

Lisää alla englanniksi.

“If you compare today’s music productions with that of ten, 20 years ago, you will notice how the massively increased computing power and complex parameter automation have changed the way in which music is made,” shares Jimmy Landry, Category Market Manager for MI at Sennheiser. “In every genre, engineers and music creators are continuously pushing boundaries, creating extremely complex mixes that can be prone to so-called ‘audio blind

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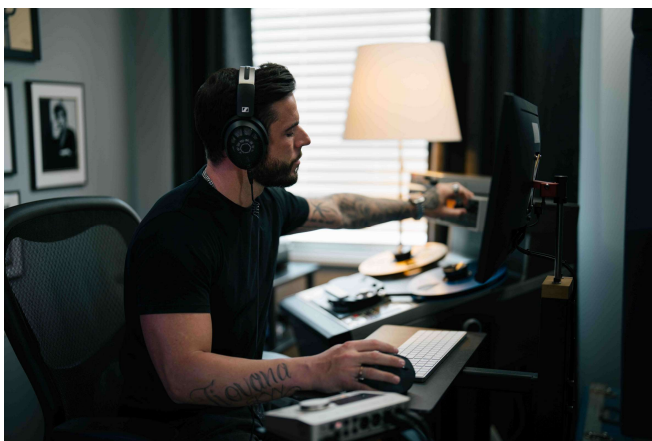
spots'. Mixes can be crowded and muddy, with too many instruments sitting at the same position and their frequencies competing. For the engineer or musician, it becomes difficult to hear each individual instrument or voice distinctly. This goes to show the importance of a good pair of studio headphones.”

The Sennheiser HD 490 PRO is Sennheiser’s top-of-the range professional model for mixing, mastering and producing



Full-spectrum audio accuracy

To tackle this complexity, the Sennheiser engineers have given the HD 490 PRO an extremely wide, dimensional sound stage for precisely localising the components of a mix. Ultralight voice coils ensure a fast and authentic sound reproduction. The frequency response is uncoloured and honest across the entire audio spectrum, with the low end being full, accurate, and clearly defined thanks to a special low-frequency cylinder. The open-mesh ear cup covers reveal Sennheiser’s Open-frame Architecture, which minimises resonances and distortion. For an optimal listening experience, the transducers sit at a slight angle, thereby emulating a typical monitor loudspeaker set-up.



The HD 490 PRO studio headphones deliver a wide, spatial sound stage with excellent localisation, enabling producers to create refined masters



“All these features combine to enable music professionals to identify and resolve any panning placement issues and troublesome low-end frequencies – ensuring clear mixes and superbly refined masters,” explains Gunnar Dirks, Sennheiser Product Manager. “The HD 490 PRO studio headphones put you in full control of every detail.”

The Sennheiser HD 490 PRO studio headphones put users in full control of every detail of the mix



A pleasure to wear

An excellent pair of studio headphones would only be half as good if it were uncomfortable. Therefore, the Sennheiser engineers have put decades of experience from professional headset design into the HD 490 PRO. Their lightweight, ergonomic design eliminates any pressure points, as the headband does not press on the sensitive parts of the head. Also, the circumaural ear pads feature a Sennheiser-patented soft comfort zone for the temples of glasses while maintaining good sealing.

A patent has also been applied for regarding the special axes geometry of the HD 490 PRO. This design makes sure that the headphones optimally adapt to the head when they are put on, and maintain an equal contact pressure no matter what the shape of the user’s head.

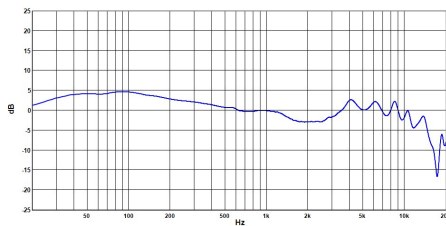
“When you’re creating music, the last thing you want is to be focusing on the fit of your headphones. The HD 490 PRO let you feel the music and forget about the headphones,” says Landry.

Two types of ear pads to perfectly adapt to the task at hand

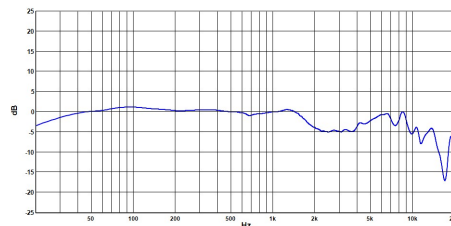
“The development of the HD 490 PRO was preceded by the biggest professional headphone survey we ever did, where users voted neutral and flat reference audio as the most important



feature,” explains Dirks. “However, when we took a look at market figures, we discovered that a slightly warmer sound was preferred over a 100% neutral response. Therefore, we decided to give our customers two headphones in one – by providing two different sets of ear pads that were carefully designed to shape the sound differently.”



Producing ear pads (velour)



Mixing ear pads (fabric)

The producing ear pads (velour) of the HD 490 PRO have a slightly warmer response to create perspective and help users make a holistic judgement of the sound. The mixing ear pads (fabric), on the other hand, allow for a very flat, neutral sound that helps dive into detail when a sound reference is needed in finishing off a mix. Both ear pads are washable – a solution that is both hygienic and sustainable.

The type of ear pad has a massive impact on sound reproduction – with the HD 490 PRO, users get two headphones in one. With the producing ear pads reproduction is slightly warmer, while the mixing ear pads help to drill down on the individual frequencies



A licence to dearVR MIX-SE

The HD 490 PRO includes a free licence for the innovative dearVR MIX-SE plugin from Dear Reality. The plugin turns a DAW into an ultimate virtual mixing environment, simulating the carefully designed acoustics of ideal mixing studios. Not only is the engineer or musician placed in the sweet spot, dear VR MIX-SE also helps them ensure a balanced and consistent translation of their mixes on different systems.



Attention to detail

The meticulous design of this top-of-the-range studio model does not stop with the accessories. For example, the headphone cable can be plugged into the right or left ear piece of the HD 490 PRO to cater to different studio set-ups and preferences. A patented cable coil structure ensures that the headphone cable does not transmit any noise when it hits the desk or rubs against the clothing. The left/right designation is clearly visible on the inside dust covers of the transducers, while for the visually impaired, the headband fork carries braille information.

Each HD 490 PRO is delivered complete with two different sets of ear pads (mixing and producing) plus a 1.8 m headphone cable and a dearVR MIX-SE licence. It retails at EUR 399 (MSRP) or USD 399 (MAP). The HD 490 PRO Plus, priced at EUR 479 (MSRP) or USD 479 (MAP), additionally includes a 3 m cable, a transport case, and an extra fabric headband pad in addition to the standard velour headband. All Plus extras are also available as individual accessories. A balanced headphone cable (EUR 39 MSRP, USD 39 MAP) is available as an optional accessory.



The HD 490 PRO Plus (pictured) includes a case, additional 3 m headphone cable and an extra fabric headband pad

“If you are looking for studio headphones that give you the transparency and excellent localisation needed for crafting outstanding mixes, the HD 490 PRO are your choice,” says Jimmy Landry.



HD 490 PRO Technical Data

Acoustic principle: open

Ear coupling: circumaural

Transducer principle: dynamic

Transducer diameter: 38 mm

Frequency response: 5 – 36,000 Hz, 100 Hz (-10 dB)

Sensitivity: 105 dB SPL (1 kHz/1 V_{rms}); 96 dB SPL (1 kHz/1 mW)

Max. sound pressure level: 128 dB SPL (1 kHz, 5% THD)

THD: <0.2% (1 kHz, 100 dB SPL)

Impedance: 130 ohms (1 kHz)

Power rating: 300 mW (100 h, noise IEC 60268)

Temperature range: operation: 0° C to +50° C; storage: -25° C to +70° C

Relative humidity: operation: 10 – 80% (non-condensing); storage: 10 to 90%

Weight (w/o cable): 260 g

The images accompanying this media release and some additional photos can be downloaded [here](#). For highest resolution, please click [here](#). More photos available on request.

About the Sennheiser brand

We live and breathe audio. We are driven by the passion to create audio solutions that make a difference. Building the future of audio and bringing remarkable sound experiences to our customers – this is what the Sennheiser brand has represented for more than 75 years. While professional audio solutions such as microphones, meeting solutions, streaming technologies and monitoring systems are part of the business of Sennheiser electronic GmbH & Co. KG, the business with consumer devices such as headphones, soundbars and speech-enhanced hearables is operated by Sonova Holding AG under the license of Sennheiser.

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