



Denon PerL Pro

Denon PerL Pro True Wireless Earbuds

Personalized sound powered by Masimo Adaptive Acoustic Technology (AAT) combines with lossless and spatial audio technologies to deliver an unrivaled listening experience.

HIGHLIGHTS	YOUR BENEFITS
Masimo Adaptive Acoustic Technology (AAT)	Normal hearing varies from person to person and can impact your listening experience. Masimo AAT automatically measures your hearing and creates a profile perfectly tuned to you.
Lossless and spatial audio	Listen to CD-quality, uncompressed audio over Bluetooth with Qualcomm® AptX Lossless™. Feel like you're in the middle of your audio content with spatial audio from Dirac Virtuio.
Denon sound philosophy	This and all other Denon products have our signature vivid and spacious sound quality and are hand-tuned by the Denon Sound Master. We will always remain faithful to true audio reproduction.
Adaptive active noise canceling and transparency	Choose to tune out the world with adaptive active noise cancelation or be aware of your surroundings with Social Mode.
Stay charged	With up to 8 hours of battery life with a single charge* and up to 24 hours of battery life from the charging case**—you can keep the music going all day.
Best-in-class voice calls	With Qualcomm® aptX™ Voice for super- wideband (32kHz) voice calls and eight microphones for voice pickup, your voice calls will be clear.
Connect to two devices simultaneously	With Multipoint, you can connect to two devices at the same time.
Denon Headphones app	Create your unique profile, customize touch controls, select noise canceling or Social Mode, and more.
Weather and sweat resistant	Rated IPX4 to withstand your toughest workout or getting caught in the rain.
Customizable touch controls	Four fully customizable touch inputs on each earbud let you control play/pause, skip track, change volume, and more.
Immersion Mode	Adjust the bass level based on the style of music or your personal preference.
Over a century of audio innovation	Since 1910, Denon has perhaps made more technological advancements than any other audio brand. Our dedication to groundbreaking sound innovation has cemented our reputation as a visionary and a tastemaker, not only with our customers, but with our partners and competitors.



Masimo Adaptive Acoustic Technology (AAT)

Masimo AAT creates a unique hearing profile by playing a range of tones into your ears and measuring very faint sounds called otoacoustic emissions (OAEs), which are produced by the inner ear as a byproduct of amplifying sound. We can determine which frequencies your ears are more or less sensitive to by measuring OAEs. We then synthesize this information with our self-learning engine to create your unique hearing profile. Using your profile, the earbuds sonically shape your music so that it matches your hearing profile and delivers every detail of the music you love.

Qualcomm aptX Lossless technology

Hear your music in stunning lossless quality. Many Bluetooth techniques for compressing and decompressing audio can destruct parts of the data and reduce the quality of the output. Snapdragon Sound with Qualcomm® aptX™ Lossless technology retains all of the original content, bit for bit, resulting in music identical to the original recording. It's designed to scale up to deliver lossless audio when users are listening to lossless streaming source content, and it can scale back the bit rate in busy RF environments to ensure no drop-outs or audio glitches.

Dirac Virtuo

Dirac Virtuo™ for Bluetooth headphones turns any standard stereo content into an immersive sound experience with enhanced sound quality. Spatialized stereo makes it seem as though sound comes from a pair of premium speakers in front of the listener, without requiring specific spatial audio content. Filter design removes unintended resonances to reach a crisp and clean sound canvas.

Adaptive active noise cancelation

Adaptive active noise cancelation automatically adjusts according to the loudness of the environment, the level of noise leak-through, and the tightness of fit in the ears.

Technical Information					
Audio & ANC		Battery & Charging		Controls	
Masimo Adaptive Acoustic Technology	Yes	Battery Life-Earbuds	Up to 8 hrs*	Touch Controls	Yes, customizable
Noise Canceling	Active noise canceling	Battery Life with Case	Up to 24 hrs**	Auto Power On/Off	Yes
Transparency	Yes, Social Mode	Charging Cable Type	USB-C to USB-C	Denon Headphones App	Yes
Driver Size	10 mm	Wireless Charging (Case)	Yes	General	
Driver Type	Ultralow-distortion triple-layer titanium diaphragm dynamic driver	Quick Charge	5 min for 1 hr playback	Colors Available	Black, White
Frequency Range	20 Hz-40 kHz	Case Charge Time	1 hr	Water Resistance	IPX4
Qualcomm aptX	Yes, aptX Lossless	Voice Calls		Earbud Dimensions, mm	26.2 × 26.2 × 25.3
Spatial Audio	Yes, Dirac Virtuo	Number Microphones	3 on each side, incl. 2 bone conduction	Earbud Weight, g	8.6
Adjustable Bass	Yes, Immersion Mode	aptX Voice for Super Wideband Calls	Yes	Case Dimensions, mm	72.4 × 30.2 × 35
Bluetooth		Comfort & Fit		Case Weight, g	55.5
Bluetooth Version	5.3	Tips	XS, S, M, L		
Bluetooth Codecs	aptX Lossless, aptX Adaptive, aptX Classic, AAC, SBC	Foam Tips	1x		
Bluetooth Quick Switch	Yes	Secure-Fit Wings	2x		
Multipoint	Yes	Fit Detection	Yes		

* Testing performed by Denon in October 2023 using production PerL Pro and software paired with a smartphone. Music track is stereo AAC encoded music file. Actual battery life differs based on device settings, environment, usage, and additional factors.

** Testing performed by Denon in October 2023 using production PerL Pro and software paired with a smartphone. Music track is stereo AAC encoded music file. Volume was set to 50% with active noise cancellation, spatial audio, and Bluetooth multipoint disabled. The profile was set to default mode. The immersion slider was set to middle and low power mode was selected. Actual battery life differs based on device settings, environment, usage, and additional factors.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by D&M Holdings Inc. is under license.