



## 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 cancellation

Adaptive active noise cancellation 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		Bluetooth	Comfort & Fit	
Masimo Adaptive Acoustic Technology	Yes	Bluetooth Version	5.3	
Noise Cancelling	Adaptive active noise cancelling	Bluetooth Codecs	aptX Lossless, aptX Adaptive, aptX Classic, AAC, SBC	
Transparency	Yes, Social Mode	Bluetooth Quick Switch	Yes	
Driver Size	10 mm	Multipoint	Yes	
Driver Type	Ultralow-distortion triple-layer titanium diaphragm dynamic driver	Battery & Charging		
Frequency Range	20 Hz-40 kHz	Battery Life-Buds	8 hrs*	
Qualcomm aptX Lossless Codec	Yes	Battery Life with Case	24 hrs**	
Spatial Audio	Yes, Dirac Virtuo	Charging Cable Type	USB-A to USB-C	
Head Tracking (for Spatial Audio)	No	Wireless Charging (Case)	Yes	
Adjustable Bass	Yes, Immersion Mode	Quick Charge	5 min for 1 hr playback	
		Case Charge Time	1 hr	
		Voice Calls		
		Number Microphones	4 on each side, including 2 bone conduction	
		aptX Voice for Super Wideband Calls	Yes	
			Touch Controls	Yes, customizable
			Auto Power On/Off	Yes
			Denon Headphones App	Yes
			General	
			Water Resistance	IPX4
			Earbud Dimensions, mm	26.2 x 26.2 x 25.3
			Earbud Weight, g	8.6
			Case Dimensions, mm	72.4 x 30.2 x 35
			Case Weight, g	55.5

\* 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.

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