

SONY

WH-1000XM4

The world's newly improved, industry-leading noise cancelling headphones with premium sound.

Discover

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Premium sound, Wireless freedom

A built-in analog amplifier integrated in the HD Noise Cancelling Processor QN1 realizes an **unmatched signal-to-noise ratio** for low distortion and exceptional sound quality for portable devices. Powerful 15.7" drivers, with Liquid Crystal Polymer (LCP) diaphragms, make the headphones perfect for handling heavy beats and can reproduce a full range of frequencies up to 40 kHz.

Using **Edge-AI** (Artificial Intelligence) co-developed with Sony Music Studios Tokyo, DSEE Extreme™ (Digital Sound Enhancement Engine) **upscales compressed digital music files in real time**. Dynamically recognizing instrumentation, musical genres, and individual elements of each song, such as vocals or interludes, it restores the high-range sound lost in compression for a richer, more complete listening experience.

LDAC transmits approximately three times more data (at the maximum transfer rate of 990 kbps) than conventional BLUETOOTH® audio, allowing you to enjoy High-Resolution Audio content in exceptional quality, as close as possible to that of a dedicated wired connection.

Industry-leading noise cancellation

Industry-leading noise cancellation technology means you hear every word, note, and tune with incredible clarity, no matter your environment. These noise canceling headphones feature additional microphones that assist in isolating sound for a reduction of even more high and mid frequency sounds.

To maximize noise-canceling performance, the WH-1000XM4 headphones incorporate two technologies: **Personal Noise Canceling Optimizer**, designed specifically for you and the **Atmospheric Pressure Optimizing**, designed specifically for air travel.

Designed with all day effortless usage in mind

WH-1000XM4 headphones blend sophisticated style with exceptional comfort. Super-soft, **pressure-relieving ear pads** in foamed urethane evenly distribute pressure and increase ear/ear contact for a stable fit. And with a lighter-weight design, you'll barely notice you're wearing them.

With a huge **30 hours of battery life**, you'll have enough power even for long trips. And if you need to top up in a hurry, you can get **5 hours' worth of charge after just 10 minutes** with the optional AC adapter.

Conversation flows freely with easy, **hands-free calling**. Leave your phone where it is, just speak with a double tap. Thanks to Precise Voice Pickup Technology, which combines five built-in microphones with advanced audio signal processing, WH-1000XM4 delivers clearer voice quality to the other person on the phone.

Change the track, turn the volume up or down, and take or make calls just by tapping or swiping the panel.

The technology that makes it happen

Dual noise sensor technology, featuring two microphones on each earcup, captures ambient noise and passes the data to the HD Noise-Canceling Processor QN1. Using a new algorithm, the HD Noise-Canceling Processor QN1 then applies noise-canceling processing in real time to a range of acoustic environments. Working together with a new Bluetooth® Audio SoC (System on Chip), **it senses and adjusts to music and noise signals**, as well as acoustic characteristics between the driver unit and ears, at over 700 times per second.

You're always in control. Use the **Sony Headphones Connect app** to adjust ambient sound to cancel noise while still **allowing essential sounds**, like overhead announcements, through when you're listening on the move.

Smart listening technology

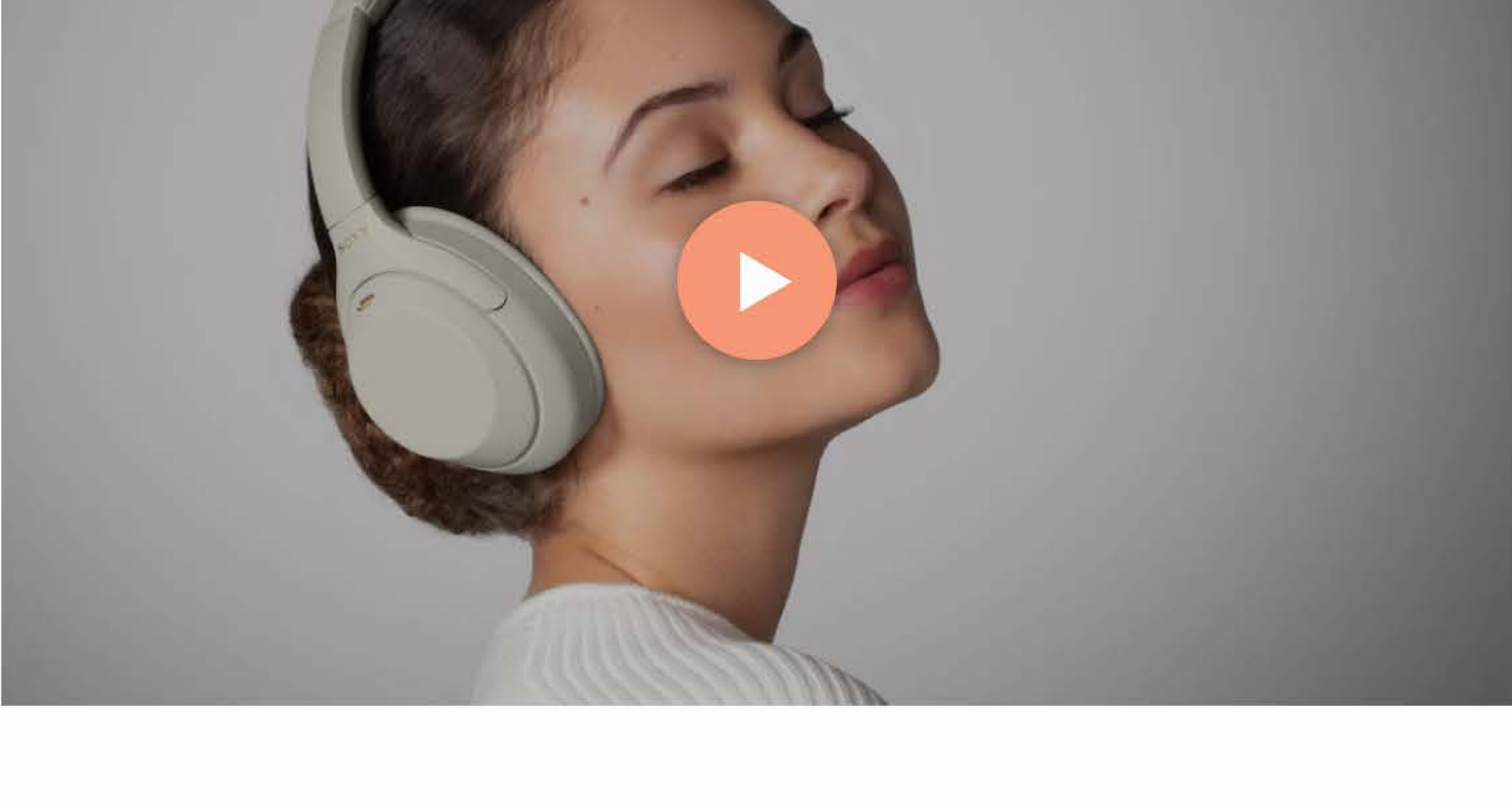
Automatically stops the music as soon as you speak to someone and lets in ambient sound so you can conduct a conversation - handy if you want to keep your headphones on, or your hands are full. Based on the Precise Voice Pickup Technology, this smart feature uses five microphones built into your headphones and advanced audio signal processing to recognize and react to your voice. And **once your chat is over, your music starts playing again automatically**.

Adaptive Sound Control

The WH-1000XM4 headphones use an array of smart technologies to create a seamless, hands-free listening experience.

Proximity sensor and two acceleration sensors in your headphones **can detect whether you're wearing them or not**, then adapt playback accordingly to help save battery power.

Need to quickly hear voices or sounds around you? Just place your hand over the housing to instantly turn your music volume down and let ambient sound in.

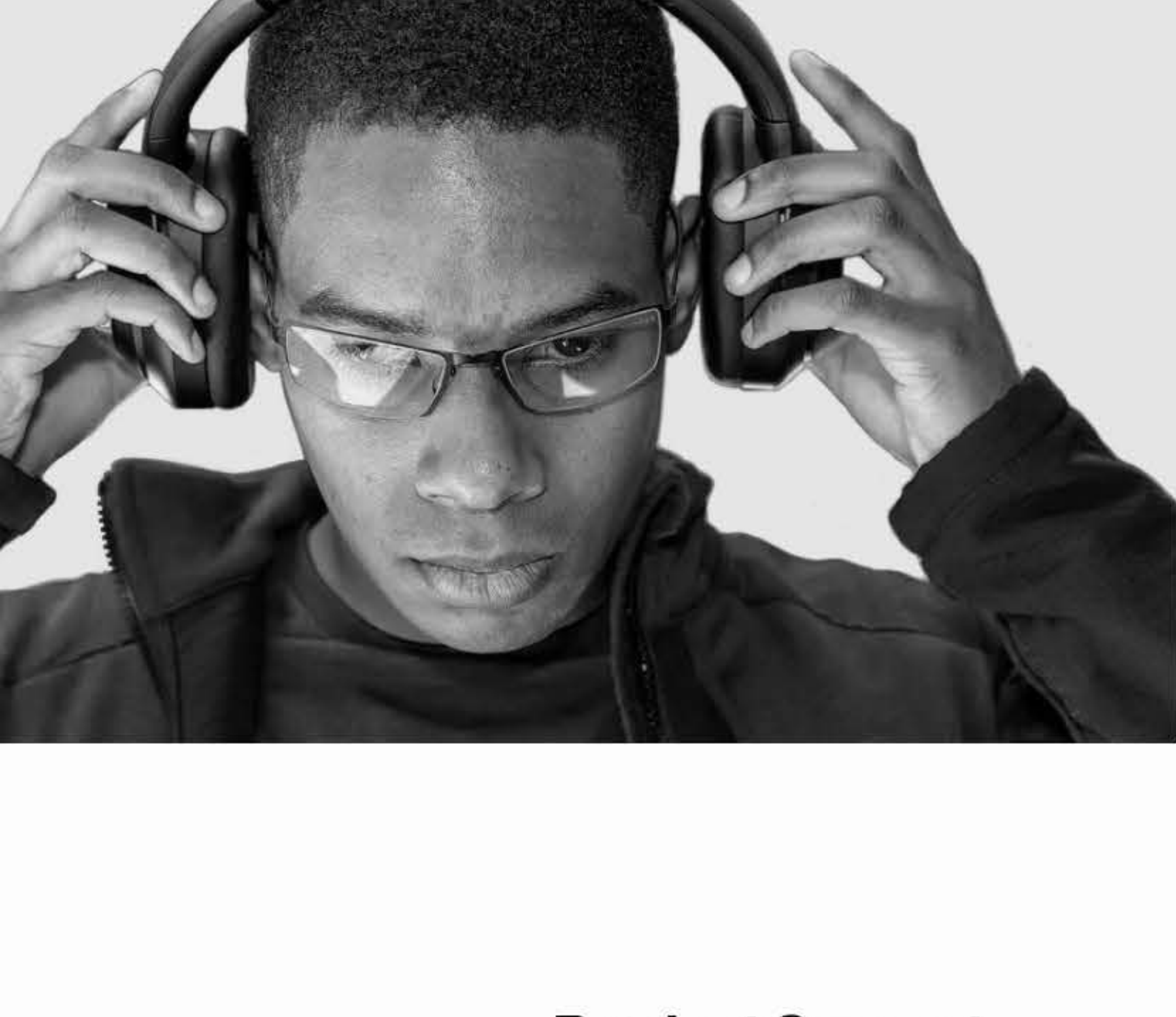


Product Gallery



Specifications

General	HEADPHONE TYPE Closed, dynamic	CORD TYPE Single-sided (detachable)
	DRIVER UNIT 15.7", dome type (CCA W Voice coil)	CORD LENGTH Approx. 3.94 ft.
	MAGNET Neodymium	PLUG Gold-plated L-shaped stereo mini plug
Battery	DIAPHRAGM Aluminum coated LCP	WEARING STYLE Circumaural
	DSEE EXTREME Yes	NFC Yes
	FREQUENCY RESPONSE 4 Hz-40,000 Hz	PASSIVE OPERATION Yes
Bluetooth	FREQUENCY (BLUETOOTH® COMMUNICATION) 20 Hz-20,000 Hz (44.1 kHz Sampling)/20 Hz-40,000 Hz (LDAC 96 kHz Sampling, 990 kbps)	SENSITIVITIES (DB/MW) 105 dB / mW (1 kHz) (when connecting via the headphone cable with the unit turned on), 101 dB / mW (1 kHz) (when connecting via the headphone cable with the unit turned off)
	BATTERY CHARGE TIME Approx. 3 Hours (Full Charge)	BATTERY LIFE Max. 30 Hours (NC On), Max. 38 Hours (NC Off)
	BATTERY CHARGE METHOD USB	BATTERY LIFE (WAITING TIME) Max. 30 hours (NC On), Max. 200 hours (NC Off)
ANC	BLUETOOTH® VERSION Version 5.0	PROFILE A2DP, AVRCP, HFP, HSP
	EFFECTIVE RANGE Line of sight approx. 30 ft. (10m)	SUPPORTED AUDIO FORMAT(S) SBC, AAC, LDAC
	FREQUENCY RANGE 2.4 GHz band (2.4000-2.4835 GHz)	SUPPORTED CONTENT PROTECTION SCMS-T
Misc.	NOISE CANCELING ON/OFF SWITCH Yes	AMBIENT SOUND MODE Yes
	PERSONAL NC OPTIMIZER Yes	QUICK ATTENTION Yes
	VOLUME CONTROL Touch Sensor	INPUT(S) Stereo Mini Jack



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