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WF1000XM5/B

WF-1000XM5 The Best Truly Wireless Noise Canceling Earbuds | Black

The WF-1000XM5 features cutting-edge technology to deliver premium sound quality and the best truly wireless noise-canceling performance on the market¹. With a specially designed driver unit, for wide frequency production, deep bass and clear vocals, these headphones are designed to immerse you in a sound so good, it feels like you're in the studio with your favorite artists.



Bullets

- The best truly wireless noise canceling² headphones on the market.
- Astonishing sound quality with High-Resolution Audio.
- Sony's best ever call quality³ with AI based noise reduction algorithm and bone conduction sensor.
- Small, light and beautifully designed.
- Smooth switching and a clear Bluetooth signal with a powerful new Integrated Processor V2.³
- Adjusts to the world around you with adaptive sound control, using AI to offer the ideal listening experience.
- Talk and only hear ambient sound using Speak-to-Chat which pauses the music when you start talking.
- Water resistant for everyday use so splashes and sweat won't stop you⁴.
- Designed with the environment in mind with construction from recycled plastic materials and 100% paper packaging.
- Battery life up to 8 hours (24-hours with case). Quick charging - 3 min. for up to 1 hour of listening.⁵

Features

The Best Truly Wireless Noise Cancellation¹

The WF-1000XM5 reduces external noise over a wide bandwidth, from low to high frequencies. It contains two proprietary processors that cancel more external noise than ever, a new high-performance driver unit Dynamic Driver X, dual feedback microphones, and innovative Noise Isolation Earbud Tips for a more stable fit. Real-time noise canceling processing can be optimized to provide the best performance for your environment so you will hear a big difference, especially in airplanes, trains, or buses.

Multi Noise Sensor technology

Three microphones on each earbud, including dual feedback mics improve low-frequency cancellation performance. This is our biggest step forward in noise canceling, resulting in ambient sound captured even more accurately so you can enjoy one of our purest sounds.

Noise Cancellation technology

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Exclusively developed by Sony, the Integrated Processor V2 unlocks the full potential of our HD Noise Cancelling Processor QN2e. The unique combination of technology controls the six microphones, across both ears, to deliver unprecedented noise cancelling quality that can be adapted to provide the best performance for your environment.

New high sound quality and noise canceling driver unit

The specially designed driver unit Dynamic Driver X, able to reproduce lower frequencies, has been improved using a dome-edge separation structure that combines different materials, allowing for a more accurate generation of cancellation waves in lower frequencies.

Astonishing sound quality

Enjoy rich, more detailed vocals thanks to a specially designed driver unit Dynamic Driver X for wide frequency reproduction, you will experience rich vocals and enhanced fine details. The diaphragm structure combines several different materials for the dome and the edge, achieving low distortion and a clear sound quality.

Designed for less distortion

Thanks to two new processors, the HD Noise Cancelling Processor QN2e and Integrated Processor V2, the WF-1000XM5 incorporates precision 24-bit audio processing and high-performance analogue amplification. The result is low distortion and crystal clear audio reproduction.

Enjoy High-Resolution Audio

The WF-1000XM5 supports High-Resolution Audio Wireless, thanks to LDAC, over industry-adopted audio coding technology. LDAC transmits approximately three times more data than conventional Bluetooth audio for exceptional High-Resolution Audio quality that is closer than ever to studio recording.^{6,7}

AI technology for precision sound

Using Edge-AI, DSEE Extreme upscales compressed digital music files in real-time, including those from popular streaming services.⁸ It dynamically recognizes each song's instrumentation, musical genre and individual elements, and restores high-range sound lost in compression.

Head tracking function

Head tracking ensures a realistic and compelling listening experience by automatically adjusting sound fields to compensate for your head movement. Sounds are precisely aligned with your smartphone screen, even as you move, to completely involve you in your viewing by connecting to compatible smartphones/services.¹⁵

Spatial sound with 360 Reality Audio

With 360 Reality Audio headphones and the Sony Headphones Connect app, an advanced personal optimization algorithm gives you an even greater sense of sound space, distance and height, allowing you to become even more immersed in the music. It's as if you are at a live concert, or with your favorite artist in a recording studio. With 360 Reality Audio, music has never been so immersive and so real.^{9,23}

Sony's best ever call quality²

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Mute the outside world with Precise Voice Pickup Technology and advanced audio signal processing. The person on the other end of the call will hear your voice clearly, even when you are in noisy situations. Our noise reduction algorithm was developed with AI machine learning using more than 500 million voice samples to suppress ambient noise, increase accuracy and extract your voice clearly in various environments.

Detects speech vibrations to enhance clarity

Bone conduction sensors pick up the vibration of your voice directly from your skull bones, helping to isolate your speech from ambient sounds and background noise, for clear calls even in loud environments.

AI Noise Reduction Algorithm

Thanks to an AI-based noise reduction algorithm based on Deep Neural Network processing (DNN) your voice will come through clear, and more natural even in a noisy environment.

Hear and be heard

A wind noise reduction structure and a mesh wrap in the microphone will minimize noise during calls so you can be heard clearly in windy conditions.

Small and beautifully designed

With an improved glossy texture and a more luxurious feel, these earbuds fit comfortably in your ears while keeping out external sounds. By downsizing the headphone body and optimizing the placement of the components, the earbud is now 25% smaller and 20% lighter than the WF-1000XM4. We've also reduced the size of your charging case, so it will fit even more sleekly in your pocket.

Feel a more stable fitting earbud

Noise Isolation Earbud Tips feature a unique polyurethane foam material which reduces noise in the high-frequency range. Soft and elastic, they maximize the contact area between the earbud tip and the ear canal, insulating your sound and reducing noise. It also improves adhesion to the ear canal for a more secure, stable fit.

Comfortable and secure

Our WF-1000XM5 earbuds feature a shape with an ergonomic design for a more stable fit. We've designed the WF-1000XM5 utilizing extensive ear-shape data collated since introducing the world's first in-ear headphones in 1982. Our continuous evaluation of different ear shapes and sensitivities has helped us design an ideal earbud shape, secure and comfortable for almost everybody.

Multipoint Connection³

For smooth switching, the WF-1000XM5 can be paired with two Bluetooth devices simultaneously so, when a call comes in, your earbuds can automatically connect to the right one.³ With the multipoint connection you can quickly switch to a ringing device, then back by simply resuming playback on the other device.

A clear, stable Bluetooth signal

These earbuds utilize a powerful new Integrated Processor 2, which transmits a Bluetooth signal

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simultaneously to and from both ears, so you can enjoy a stable sound. These earbuds are ready for LE Audio (beta version), a next generation Bluetooth audio that enables ultra low latency – ideal for gaming¹⁰

Adjusts to the world around you

Adaptive Sound Control senses where you are and what you're doing, then uses AI to change ambient sound settings for the ideal listening experience. Over time, it will learn your behavior, recognize locations you visit often, and tailor the sound to suit your location.

A new sound experience for AR gaming

If you're looking for new entertainment options beyond music and movies, the WF-1000XM5 uses new sensors and spatial sound technology to deliver immersive sound for Augmented Reality games like "Ingress" from Niantic.^{11,12} When playing "Ingress" with the WF-1000XM5, sensor and spatial sound technologies deliver a new experience: using head tracking, the sound is conveyed from different directions to line up perfectly with the action on the screen.

Seamless music and audio notifications

Auto Play delivers music and audio notifications when you need them.¹⁴ Music plays at your preferred time, such as when you're putting your headphones on or starting to walk for a break, uplifting your mood effortlessly. Audio notification reminds you of all your important events, so your phone can stay safely in your pocket. Link with Spotify, Endel and music apps and get your favorite music and relaxing soundscapes.

Talk and only hear ambient sound

You can set Speak-to-Chat to pause the music as soon as you start speaking to someone, so you can hear just ambient sound and conduct a conversation – handy if you want to keep your headphones on or your hands are full.^{16,17} Once your chat is over, your music will start playing automatically.

Instant pause. Instant play.

Just take the earbuds out of your ears and the music stops – a proximity sensor knows when you are wearing one or both earbuds. Pop the earbuds back in and the music starts again.

Quick access to your favorite music and soundscapes

With Quick Access, you can configure these wireless earbuds to resume Spotify music playback or Endel personalized soundscapes with two or three taps – no need to touch your smartphone.¹⁵

Controls headphones with head gestures

You can operate your earbuds using natural head gestures like receiving or declining calls or operating Auto Play by nodding or shaking your head.^{14,18}

Everything at your fingertips

Tap on the left earbud to change from Noise Canceling to Ambient Sound, long tap for Quick Attention, or double tap on the right to skip to the next track. You can even turn the volume up or down by tapping four or more times in a row. With simple customization available in the Sony Headphones Connect app, you can assign your own functions to each earbud.¹⁵

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How do you like to listen?

With the Sony | Headphones Connect app, Ambient Sound Control lets you adjust the volume of background sound and gives you the option to allow voices. Thanks to the new Equalizer setting, anyone can easily adjust the sound to their own preference by listening to and comparing their preferred sound quality with the App.¹⁵

Control with your voice

Get hands-free help by saying “Ok Google” or “Alexa” to activate your preferred voice assistant.¹⁹ Then, listen to music, connect with friends, get notifications, set reminders, and more. You can even control the features of your earbuds, like noise cancellation with your voice.

Find your headphones with Fast Pair

In one tap, the WF-1000XM5 enables quick, effortless Bluetooth pairing with your Android devices.^{3,20} You can even check to see where you last placed it.

Easy pairing with your computer

Swift pair makes it quick and easy to pair your headphones with your Windows 11 or Windows 10 laptop, desktop PC or tablet. When pairing mode is selected, pop-up pairing guidance appears on nearby Windows 11 or Windows 10 devices.³

Water resistant for everyday use

With an IPX4 resistance rating, splashes and sweat won't stop these headphones – so you can keep moving to the music.⁴

Listen all day, charge in minutes

Battery life up to 8 hours (24-hours with case). Quick charging - 3 min. for up to 1 hour of listening.⁵ The Sony | Headphones Connect app will notify you when your charging case drops below 30%.¹⁵

Easy wireless charging with Qi technology

Qi technology offers easy charging. You can even use a smartphone with Qi technology and battery share function, like the latest Xperia models, to charge your headphones in their charging case.^{21,22}

Designed with the environment in mind.

With Sony's commitment to achieve a design with the environment in mind and help you enjoy the music you love, plastics are not used in the WF-1000XM5 packaging material (except for excluding coating and adhesives).

Specification

Battery

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BATTERY LIFE (CONTINUOUS COMMUNICATION TIME)	Max. 6 hrs (NC ON) Max. 7 hrs (NC OFF)
Battery Charge Method	USB charger Wireless charger (with case)
General Features (Active Headphones)	Max. 8 hrs (NC ON) Max. 12 hrs (NC OFF)
Bluetooth® Specification	
Bluetooth® version	Bluetooth Specification Version 5.3
Effective Range	10 m
Frequency Range	2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Profile	A2DP, AVRCP, HFP, HSP, TMAP, CSIP, MCP, VCP, CCP
Supported Audio Format(s)	SBC, AAC, LDAC, LC3
Supported Content Protection	SCMS-T
Charging Case	
Dimension	Approx. 64.6 x 40.0 x 26.5 mm
Weight	Approx. 39 g
General Features	
AMBIENT SOUND MODE	Yes
General Features(Active Headphones)	Yes
Driver Unit	8.4 mm
Frequency Response (Bluetooth® Communication)	20–20,000 Hz (44.1 kHz sampling) 20–40,000 Hz (LDAC 96 kHz sampling 990 kbps)
Headphone Type	Closed, dynamic
Wearing Style	Yes (IPX4 equivalent)
Noise Canceling	
Ambient Sound Mode	Yes
Quick Attention	Yes
Size & Weight	
Weight	Approx. 5.9 g x 2 (including earbud tips (M))

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1. As of April 10, 2023. Ambient noise reduction according to research by Sony Corporation, measured using JEITA-compliant guidelines for the top 10 brands (by market share) of truly wireless style of noise-canceling headphones market.
2. As of June 26th 2023, in truly wireless headphones. Call quality may be impacted by third party carrier service.
3. Interoperability and compatibility among Bluetooth® devices vary.
4. IPX4 protection assured against water splashing from any angle, excluding the sound conduit (sound exit tube), ventilation holes, and microphone holes in the unit (2 locations) of the headphones. The charging case is not water resistant.
5. Actual performance varies based on settings, environmental conditions, storage, and usage. Batteries are consumable products and their capacity degrades over time as they age. Sony does not guarantee the life span of the battery.
6. At the maximum transfer rate of 990 kpbs.
7. You need to set the function to "Priority on Sound Quality" using the Sony | Headphones Connect app. Compatible devices supporting LDAC will be required.
8. Activate the DSEE Extreme from the Sony | Headphones Connect app.
9. You can experience spatial sound content (like Netflix, YouTube) with Android 13 smartphones capable of head tracking. Also you can experience 360 Reality Audio content with Xperia 1V on 360 Reality Audio Live app, such as nugs.net or TIDAL. Some services may not be available in certain countries/regions.
10. Feature requires a firmware update. Feature requires connection to a compatible smartphone, Xperia 1 IV / Xperia 5 IV, availability may vary by region.
11. The service may not be available in some countries/regions.
12. Feature requires firmware update, available summer 2023.
13. This feature is available for iOS devices.
14. Install the Auto Play app and set up with Sony | Headphones Connect app. Terms and conditions for available partner services and their content, as well as related software (including operating systems) apply. The contents of this application are subject to change without notice, and this application may be updated or terminated without notice.
15. Download app at Google Play and the App Store. Network services, content, and operating system and software subject to terms and conditions and may be changed, interrupted or discontinued at any time and may require fees, registration and credit card information.
16. In rare cases, Speak-to-Chat may unintentionally start up in response to vibrations caused by devices such as electric toothbrushes, electric massagers or electric shavers, and activities such as brushing teeth, coughing or humming.
17. Set the function to "ON" from the Sony | Headphones Connect app. Then, tap either the left or right touch panel to deactivate Speak-to-Chat and return to your music immediately. Otherwise, music will resume playing by default 15-seconds after your conversation ends in Speak-to-Chat mode. This time frame can be customized using the Sony | Headphones Connect app.
18. Calling for Android excluded.
19. Google Assistant headphones features, including "OK Google" hot word detection, are only available when connected to a supported Android device. Google and Android are trademarks of Google LLC. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. Or its affiliates. Google assistant and Alexa are unavailable in all languages and countries/regions. Install the Google app and set up with Sony | Headphones Connect app. For Amazon Alexa, install the Amazon Alexa app and set it up with Sony | Headphones Connect app.
20. Android phones running Marshmallow and above/6.0+ are required.
21. Xperia 1V Availability may vary by region. It is not possible to power the Headphones while charging the Xperia.
22. Charging pad sold separately. The charging case is compatible with wireless charging pads that meet the Qi standard. Depending on the wireless charging pad you are using, it may not be able to charge properly.
23. Download Sony Headphones Connect app at Google Play and the App Store. Network services, content, and operating system and software subject to terms and conditions and may be changed, interrupted or discontinued at any time and may require fees, registration and credit card information. 360 Reality Audio requires subscription to compatible online music service and third-party terms, conditions, account and fees may apply.

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