



WF1000XM4/B

WF-1000XM4 Industry Leading Noise Canceling Truly Wireless Earbuds

Take the next step in truly wireless noise canceling performance and exceptional sound quality. The new Integrated Processor V1 delivers unmatched performance while using even less power. Adding in drastically enhanced call quality, IPX4 water resistance, and up to 24 hours of battery life⁶ with wireless charging, the WF-1000XM4 Truly Wireless Earbuds are unlike any other before them.



Bullets

- Industry-leading noise canceling¹ with new Integrated Processor V1
- Exceptional sound quality with new Integrated Processor V1 and supporting LDAC codec.
- Crystal-clear call quality, beamforming microphone and a bone-conduction sensor provide clear voice detection even in noisy environments
- Speak-to-chat technology automatically reduces volume during conversations
- 8 hours long battery with Noise Canceling
- IPX4² Water resistance
- Easy wireless charging with Qi technology⁴
- “Sony | Headphones Connect” App for Android /iOS
- Ergonomic surface design for a better fit
- Stable Bluetooth connection⁵

Features

Industry-leading Digital Noise Cancellation¹

Everything in the WF-1000XM4 headphones has been redesigned from the ground up. Like our new Integrated Processor V1, specially developed by Sony, that cancels more noise than ever, a new driver with more performance, newly designed noise sensing microphones, and innovative Noise Isolation Earbud Tips with a more stable fit

Integrated Processor V1

Specially developed by Sony, our new Integrated Processor V1 takes the noise canceling performance of our acclaimed QN1e chip and goes even further. Improved noise canceling performance and Bluetooth ‘System on Chip’ technology delivers the industry’s highest level of noise canceling yet uses less power.

High-performance dual-noise-sensor microphones

Two noise sensing microphones per earbuds – one forward-facing and one backward-facing – catch more ambient sound around you. This means more stable noise canceling and less distortion at any volume.



New 6 mm driver unit

A newly designed 6 mm driver unit, featuring a 20% increase in magnet volume, gives you improved performance in low frequencies. It also enhances noise canceling by generating a high-precision cancellation signal to the low frequency range.

Noise Isolation Earbud Tips

Newly developed Noise Isolation Earbud Tips feature a unique polyurethane foam material. Soft and elastic, it maximizes the surface contact area between the earbud tip and the ear canal, eliminating gaps to insulate sound and reduce noise. It also improves adhesion to the ear canal for a more stable fit, making the WF-1000XM4 headphones easy to wear.

Minimizing wind noise

Even on windy days, you'll stay totally immersed. Automatic Wind Noise Reduction mode detects when it's windy and automatically suppresses wind noise for more effective noise canceling.

Exceptional sound quality

The WF-1000XM4 support High-Resolution Audio Wireless. Thanks to specially designed 6mm drivers, they reproduce a dynamic sound despite their small size, and the high compliance diaphragm reproduces a rich bass range. The Integrated Processor V1 also enhances sound quality and reduces distortion and enables LDAC codec processing and DSEE Extreme.

Enjoy High-Resolution Audio without wires

The WF-1000XM4 support High-Resolution Audio Wireless³, thanks to LDAC, our industry-adopted audio coding technology. 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.⁵

Real-time restoration of all your compressed files

Using Edge-AI (Artificial Intelligence), 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.

Beamforming microphones pick up every word

Beamforming microphones are calibrated to only pick up sounds from your mouth. With an improved signal-to-noise ratio they'll catch every word, even when there's a lot of noise around you.

Detects speech vibrations to enhance clarity

A bone-conduction sensor picks up vibrations from your voice without registering ambient sound, enabling even clearer speech when making calls.

Smarter talking, smarter listening

As soon as you speak to someone, Speak-to-Chat automatically pauses the music and lets in ambient sound so you can conduct a conversation⁷ – handy if you want to keep your



headphones on, or if your hands are full. And once your chat is over, your music starts playing again automatically.⁸ Speak-to-Chat uses an acceleration sensor to recognize and react to your voice. It is based on Precise Voice Pickup Technology, which combines four microphones and sensors with advanced audio signal processing.⁷

Listen all day, charge in minutes

You can enjoy a full working day of charge – 8 hours – from your headphones and store another 16 hours in the case. That means a full 24 hours⁶ of listening time every time you leave the house. In a hurry? Just a 5-minute quick charge gives you up to 60 minutes of play time and the Sony | Headphones Connect app will even notify you when your charging case drops below 30%.

Water resistant for everyday use

With an IPX4 water resistance rating², splashes and sweat won't stop these headphones – so you can keep on moving to the music.

Easy wireless charging with Qi technology

No cables necessary – the WF-1000XM4 feature Qi technology for easy wireless charging.⁴ You can even use a smartphone with Qi technology, like the latest Xperia models with reverse wireless charging, to charge your headphones and charging case.

Customize sound

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 alone to be heard. Meanwhile, the Equalizer lets you customize sound levels to suit your music.

Ergonomic surface design for a better fit

Since introducing the world's first in-ear headphones in 1982 (MDR-E252), we've surveyed huge amounts of data relating to ear shapes from around the world. The WF-1000XM4 headphones are the product of that research, combining a shape that matches the ear cavity with a new ergonomic surface design for a more stable fit.

A clearer, more stable Bluetooth signal

The optimization of the transmission algorithm with the Integrated Processor V1 has made the connection more stable and less prone to sound skipping, even in an environment where there is interference. It allows sound to be transmitted to both ears at the same time with very low latency, and with a higher signal strength than ever before.

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.

Everything's at your fingertips

The WF-1000XM4 headphones feature intuitive touch control settings – for example, tap on the left earbud to change from Noise Canceling to Ambient Sound and long tap for Quick Attention, or double tap on the right to skip to the next track. What's more, you can assign your own functions to each earbud using the Headphones Connect app



Easy pairing with your computer

Swift Pair makes it quick and easy to pair your WF-1000XM4 headphones with your Windows 10 laptop, desktop PC or tablet. Pop-up pairing guidance appears on nearby Windows 10 devices when pairing mode is selected.

Voice assistant

Get hands-free help. Just say “Hey Google” or “Alexa” to activate your preferred voice assistant.⁹ You can manage your day and even control your headphones with commands like “Turn off noise cancellation”⁶

Specification

Battery	
BATTERY LIFE (CONTINUOUS COMMUNICATION TIME)	Max. 5.5 hrs (NC On) / Max. 6.0 hrs (NC Off)
Battery Charge Time	Approx. 1.5 hrs
Battery Life (continuous music playback time)	Max. 8 hrs (NC On) / Max. 12 hrs (NC Off)
Bluetooth® Specification	
Bluetooth® version	BLUETOOTH Specification Version 5.2
Profile	A2DP, AVRCP, HFP, HSP
Supported Audio Format(s)	SBC, AAC, LDAC
Supported Content Protection	SCMS-T
General Features	
DSEE Extreme	Yes
Driver Unit	6 mm
Frequency Response (Bluetooth® Communication)	20 Hz–20,000 Hz (44.1 kHz sampling) 20 Hz–40,000 Hz (LDAC 96 kHz sampling, 990 kbps) / 20 Hz–20,000 Hz (44.1 kHz sampling)
Headphone Type	Truly Wireless
Magnet	High-power neodymium magnets
Waterproof	Yes (IPX4)
Noise Canceling	
Ambient Sound Mode	Yes



Quick Attention	Yes
Size & Weight	
Weight	Approx. 1.45 oz

1. As of April 26th, 2021. Ambient noise reduction according to research by Sony Corporation, measured using JEITA-compliant guidelines for the Truly Wireless style of noise-canceling headphones market.
2. 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.
3. Need to set the function to "Priority on Sound Quality" using the Sony | Headphones Connect app. Compatible devices supporting LDAC will be needed.
4. 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.
5. Interoperability and compatibility between Bluetooth® devices vary.
6. 8hrs (earbuds) + 16hrs (charging case), total 24hrs when using Noise Canceling and Bluetooth® connection
7. In rare cases, Speak-to-Chat may unintentionally start up in response to vibrations caused by devices such as electric toothbrushes, electric massagers and electric shavers, and activities such as brushing teeth, coughing or humming.
8. To deactivate Speak-to-Chat and return to your music immediately, tap either the left or right touch panel. Otherwise, music will resume playing by default 15 seconds after your conversation ends in Speak-to-Chat mode. This timeframe can be customized using the Sony | Headphones Connect app.
9. The feature to activate Google Assistant by saying "Hey Google" is only available for Android devices. Google, Google Assistant and Android are trademarks of Google LLC. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. The Google Assistant and Alexa are not available in all languages and countries/regions. Install the Google Assistant app and set up with Sony | Headphones Connect app. For Amazon Alexa, install the Amazon Alexa app and set up with Sony | Headphones Connect app

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