

WF1000XM6/B

WF-1000XM6 The Best Truly Wireless Noise Cancelling Earbuds | Black

Experience next-generation noise cancellation and studio-level sound, co-created with mastering audio engineers. WF-1000XM6 earbuds deliver our best call-quality, a secure and comfortable fit, and long battery life.¹ Powered by advanced QN3e and V2 processors, you'll enjoy pure, uninterrupted listening and crystal-clear conversations all day, wherever you go.



Bullets

- The Best Noise Cancellation - Powerful, adaptive noise cancellation keeps distractions out and music pure.
- Co-created with Mastering Audio Engineers - Studio-level clarity, co-created with mastering audio engineers.
- HD Noise Cancelling Processor - HD Noise Cancelling Processor QN3e is 3x faster than the QN2e (found in our WF-1000XM5 earbuds), delivering cleaner, richer audio.
- Adaptive NC Optimizer - Adaptive NC Optimizer adjusts noise cancelling in real time for any environment.
- Auto Ambient Sound Mode – Auto Ambient Sound mode balances music and surroundings with smart microphones.
- Premium Sound Quality - Expertly tuned for natural balance and immersive detail.
- Hi-Resolution Audio - Hi-Res Audio Wireless with LDAC for exceptional sound quality.
- Real-time File Restoration - Edge-AI restores compressed files in real time for richer sound.
- Ultra Clear Call-Quality – Sony's best call-quality performance powered by dual beamforming mics, bone conduction sensor, and AI noise reduction technology.⁶
- Ergonomic Design and Secure Fit- Ergonomic design and secure fit for all-day comfort and style.
- Sweat and splash-resistant - The earbuds have an IPX4 rating and matte finish that repels sweat and splashes.¹⁹ (Note: Charging case is not water resistant)
- Intuitive Controls - On-ear controls and voice/gesture commands for easy operation.
- Sony | Sound Connect App - Personalize your sound and access advanced features with the Sony | Sound Connect app.³
- Long Battery Life and Convenient Charging - Up to 24 hours of playback, quick charge, and Battery Care for lasting power.^{2,4}

Features

Premium sound without compromise

Developed in collaboration with mastering audio engineers and powered by advanced noise cancelling technology, the WF-1000XM6 ensures every note is delivered with precision and clarity. Its thoughtfully refined ergonomic design provides a natural, comfortable fit for extended listening sessions.

Refined shape. Naturally comfortable.

Thoughtfully designed for comfort, these earbuds fit securely, feel light, and stay balanced making every listening experience feel just right.

Premium sound, co-created with the masters

Experience music the way it was meant to be heard. Developed alongside world-renowned mastering audio engineers, these earbuds deliver studio-quality precision—preserving every nuance, every note, just as the artist intended.

Advanced noise cancellation for focused listening.

Block out distractions whenever you need. Advanced noise cancelling technology—including HD Noise Cancelling Processor QN3e, 3x faster than the processor found in the WF-1000XM5, Integrated Processor V2, Multi Noise Sensor tech, Adaptive NC Optimizer, and a secure fit—work together to keep your listening experience quiet and focused in any environment.

Sound quality, at its finest

Hear more of the music you love. The original custom driver and advanced audio processing reveal rich textures and spacious sound, while precise tuning keeps everything balanced, no matter where you listen.

Our best call quality ever⁶

Two microphones and a bone conduction sensor work together to detect your voice, while AI beamforming technology reduces background noise. Your calls sound clear, so the person on the other end hears you, not your surroundings.

Ergonomic beauty. Crafted precision.

Designed for comfort, these earbuds fit naturally and ease pressure for long listening sessions. The premium matte finish feels soft and looks as refined as the sound they deliver.

Designed for the flow of daily life

Built to handle sudden rain showers and tough workouts, these earbuds offer water resistance and a long battery life of up to 24 hours of playback (8 hours on the earbuds and an additional 16 hours with the case). And, for your convenience, a five-minute quick charge gives you up to 1 hour of playback, keeping you powered up from your morning commute to your evening wind-down.²

Experience immersive quiet, anywhere you go.

Advanced microphone control, powered by dual processors and adaptive noise cancelling algorithms, automatically adjusts to your environment—whether you're commuting or relaxing at a café—so distractions fade and your music stays front and center.

Dual processors. Unmatched noise control.

Dual processors work together: the Integrated Processor V2 monitors ambient noise and earbud fit in real time, while the HD Noise Cancelling Processor QN3 precisely manages the microphones to block out everyday sounds.

Exceptional precision. Remarkably quiet.

With four adaptive microphones on each side, you can control how much ambient sound comes through, from stronger noise cancelling to a more open and aware sound experience.

Adapts in real time

Intelligent by design. With Adaptive NC Optimizer, four microphones track ambient sound while the processor automatically adjusts the noise cancelling profile in real time, keeping performance strong in any environment or wearing condition.

Hear the world as it is

Dual ambient microphones let you hear what's happening around you, conversations, cues, and sounds, all without removing your earbuds.

Stay in sync. Wherever you are.

Auto Ambient Sound mode adapts in real time, balancing your music and the world around you. Multiple microphones filter noise or let in what matters, like announcements or conversations. You can adjust settings automatically or fine-tune them manually in the Sony | Sound Connect app.³

Ambient Sound Modes:

Ambient Sound
Stay connected to your surroundings

Auto Ambient Sound
Dynamic adjustments for loud environments

Noise Cancelling
Block out distractions and focus on your content

Shaped for true immersion

The ergonomic design follows the natural curve of your ear, creating a comfortable, secure fit. Isolation ear tips and a steady seal boost noise cancelling and deliver a more immersive sound all day long.

Wind noise-reduction structure

A specially designed internal cavity helps cancel out wind noise, so you can enjoy clear sound—even outdoors.

Sound quality, at its finest

Expertly tuned with mastering audio engineers, the WF-1000XM6's acoustic design delivers a natural balance and fine detail. From the softest breath to deep resonance, every element is placed with precision for a truly immersive listening experience.

Hear it as the artist intended

Developed in collaboration with mastering audio engineers, these earbuds refine every note for studio-level accuracy. From deep bass to crisp highs, the WF-1000XM6 earbuds unlock the full potential of every song—delivering emotion, energy, and detail exactly as the artist envisioned.

The power of co-creation with four mastering engineers

Sony's partnership with four mastering engineers brings true studio sound to your earbuds. By working directly in the engineers' studios, Sony captures the nuances and emotion of every track, ensuring the WF-1000XM6 delivers a sound experience that's remarkably close to being in the studio—so you can feel the passion behind every song, anywhere you go.

Studio-level sound in a small form

The WF-1000XM6 earbuds pack studio-quality sound into a compact design. Subtle adjustments, like micro-EQ tweaks, make a big difference in how music feels. We listen to feedback from real users and work closely with our Tokyo design team, resulting in continuous improvements and rewarding evolution.

Beyond technology, into the music

The most satisfying listening happens when the technology fades away and you're simply immersed in the music. Great earbuds let the art take center stage, guiding you straight into the heart of the music.

Engineered for superior sound

A refined, original driver brings lifelike depth to your music. Smooth, full-bodied lows blend seamlessly with clear highs, creating authentic, high-resolution sound.

Clarity, elevated

Powered by the HD Noise Cancelling Processor QN3e—3x faster than QN2e in WF1000XM5— with an improved DAC and amplifier, the WF-1000XM6 earbuds deliver cleaner, richer sound that reveals every nuance—audio that feels true to the moment.

Enjoy High-Resolution Audio without wires

Thanks to LDAC, Sony's industry-adopted audio coding technology, the WF-1000XM6 supports High-Resolution Audio Wireless. LDAC transmits about three times more data than standard Bluetooth® audio⁵, giving you exceptional wireless sound quality.⁷

Real-time restoration of all your compressed files

Using Edge-AI (Artificial Intelligence), DSEE Extreme™ upscales compressed digital music files in real time.⁸ It recognizes instrumentation, genres, and individual elements of each song, restoring high-range sound lost in compression.

Fine-tune your entertainment experience

With the Sony | Sound Connect app, it's easy to personalize your sound.³ Compare settings, tweak the details, and find the perfect balance for every song, scene, or game session.

A new sound experience for AR gaming

If you're looking for new entertainment options beyond music and movies, the WF-1000XM6 uses new sensors and spatial sound technology to deliver immersive sound for Augmented Reality games like "Ingress" from Niantic. Head tracking ensures sound comes from the right direction, matching the action on screen.

Head tracking function

Head tracking automatically adjusts sound fields to match your movements, keeping sounds precisely aligned with your earbuds—even as you move. This creates a truly engaging listening experience when paired with compatible devices and services.

Conventional use vs. head-tracking capability

With regular earbuds, sound moves with your head, breaking the 3D space effect. With head tracking, the sound field stays in place, giving you a realistic, immersive experience.

Experience head tracking for yourself

Experience the immersive power of head tracking for yourself with this simulation—just put on headphones and watch the video to see how it makes your listening more realistic.

Certified earbuds for a personalized experience

With 360 Reality Audio Certified earbuds and the Sony | Sound Connect app, you can optimize your experience by analyzing your ear shape for the ultimate immersive music experience.³ Advanced algorithms enhance sound space, distance, and height, drawing you deeper into the music.^{9,10}

A personal cinematic experience with BRAVIA¹⁰

Enjoy Dolby Atmos® and 360 Spatial Sound that adapts to your ears with BRAVIA™ and these earbuds for a thrilling home theater experience.^{9,10}

360 Spatial Sound Personalizer

With the Sony | 360 Spatial Sound Personalizer app, you'll get a sound experience tailored just for you. The app analyzes your ear shape, allowing these earbuds to create your own personal spatial sound field when paired with recent BRAVIA TVs.^{9,10}

Your voice, accurately captured

A new dual-microphone beamforming layout on each earbud directs pickup toward your mouth, capturing your speech with greater focus. Your calls sound clearer, even in lively environments.

Optimized voice pickup

By sensing your voice directly and intelligently directing the microphones, the bone conduction sensor ensures your voice is picked up accurately.

Intelligent noise reduction

The AI-optimized noise reduction algorithm suppresses background sounds while isolating your voice. Trained on a variety of sources, including open earbud datasets, it enhances beamforming precision and voice pickup accuracy. Two microphones, a bone conduction sensor, and Precise Voice Pickup Technology work together to make sure every word is heard clearly—even in noisy settings.

1 = With noise 2 = Without noise

Wind-noise free calling

Refined microphone placement and structure minimize wind interference, reducing noise on your calls and ensuring a clearer, more comfortable listening experience.

Refined shape. Naturally comfortable.

The earbud shape follows the natural contours of your ear for a light, secure fit. Pressure points are minimized, making long listening sessions feel effortless.

Evolved ergonomic design. Exceptional fit.

Every contour is thoughtfully crafted for the ideal shape. The evolved ergonomic housing provides a stable, natural fit that lasts.

Eases inner noise

A smarter airflow path helps your ears feel less plugged, so your own voice and movements sound more natural. This also helps the earbuds feel lighter for longer listening.

Designed for feeling

A premium matte texture elevates the look and feel, offering a gentle grip for easy repositioning and all-day comfort.

Sophisticated, matte charging case

A streamlined silhouette and smooth surface give the charging case a modern, minimalist look.

Find your ideal fit

A balanced, ear-hugging form ensures a consistent fit across sizes.

Sustainably crafted

Made from recycled materials sourced from post-consumer waste, these headphones and their carrying cases are designed to minimize environmental impact without sacrificing quality.^{15,16}

What's in the box

Inside, you'll find the earbuds, a charging case, USB charging cable, and four sizes of earbud tips.

Stable, smooth. Always connected.

Enjoy consistent connectivity with fewer dropouts and smoother playback. Move freely while your audio stays locked in.

Stronger signal, even in tough spots

A redesigned antenna on the top of the earbud and an advanced connection algorithm keep your Bluetooth link stable, so music and calls are less likely to drop out—even in challenging environments.⁵

Multipoint Connection

For total convenience, your headphones can pair with two Bluetooth® devices at once, automatically switching when a call comes in or playback starts on either device.⁵

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. Pop-up pairing guidance appears on nearby Windows 11 or Windows 10 devices when pairing mode is selected.

Find your headphones with Fast Pair

Just press and hold the power button for quick, effortless Bluetooth® pairing with your Android™ devices.⁵ You can even check where you last used them if they're misplaced.

Mute or unmute, easily

On-ear controls make it simple to switch your microphone on and off whenever you need, just download the Sony | Sound Connect app and turn on the feature.³

Next-generation Bluetooth audio

Enjoy ultra-low latency for flawless gaming, effortless access to public broadcasts with Auracast™, and—of course—exceptional sound quality. Multi-point and auto-switching keep you connected without interruption.⁵

Advanced features, everyday ease

Smart listening features anticipate what you want to hear, how you like to listen, and when you need to talk. With adaptive sound, automatic playback, app control, and voice or gesture commands, everyday listening feels smoother from morning to night.

Quick Access

Get to your music instantly with simple taps—no need to touch your smartphone. Enjoy effortless listening, anytime.³

Scene-based listening

Your earbuds sense your activity—like walking, running, or hitting the gym—and tailor the sound experience just for you.

Plays music automatically

Music starts right when you need it. Just turn on Wear to Play in the Sony | Sound Connect app,³ and playback begins as soon as you put your earbuds in—no need to touch your phone. The right music plays for the moment, based on your daily routine or workout. Voice Cue keeps you updated on appointments and reminders, so you stay connected to both life and entertainment.¹⁴

Adjusts to the world around you

Adaptive Sound Control uses AI to sense where you are and what you're doing, then automatically adjusts ambient sound settings for the best listening experience. Over time, it learns your habits and favorite locations to personalize your sound.

Total convenience, total customization

Your earbuds are even better with the Sony | Sound Connect app.³ Its simple, intuitive interface lets you fine-tune your sound and shortcut settings and keeps track of your listening history.

Talk it out with Google Gemini

Get hands-free help – Just say “Hey Google” To access Gemini and have a natural, free-flowing conversation about anything you need on-the-go. Listen to music, connect with friends, get notifications, and more when paired to your smartphone.¹¹

Built-in voice control

Use built-in voice control for noise cancellation, volume, and playback—no matter what device you're connected to.¹²

Instant pause. Instant play.

Take the earbuds off and your music stops automatically—a capacitive sensor knows when you're wearing them. Put them back on and the music resumes.

Control earbuds with head gestures

Operate your earbuds with natural head gestures, like nodding or shaking your head to answer or decline calls¹³ or to control Auto Play¹⁴.

Talk and hear only ambient sound

Speak-to-Chat automatically lowers your music volume when you start talking, so you can hear ambient sound and have a conversation—perfect when your hands are full. Once you're done, your music returns to normal automatically.^{17,18}

Designed for the flow of daily life

Stay powered up with a battery that lasts all day, plus a five-minute quick charge when you need it.²

Sweat and splash-resistant

The earbuds have an IPX4 rating and matte finish that repels sweat and splashes so you can train, commute, and unwind with confidence. Note: Splash-resistance applies only to the earbud's main unit; the charging case is not water-resistant.¹⁹

Listen all day, charge in minutes

Enjoy long-lasting power for your daily routines, with quick charging so you can top up between meetings, errands or workouts. Enable Battery Care in the Sony | Sound Connect app to help reduce battery wear by stopping earbud charging just before it reaches 100%.^{2,3,4}

Freedom from cables & clutter

Rest the case on a standard Qi-compatible charging pad—no wired connection required.

Aiming to achieve a zero environmental footprint

Inspired by the beauty of the world, Sony is committed to preserving the Earth while delivering superior sound quality and listening experiences. With a goal of achieving a zero environmental footprint across the entire Sony Group by 2050, we're accelerating green initiatives.

Made with renewable plastic

WF-1000XM6 earbuds use circular materials that include up to 25% recycled plastic, helping to reduce reliance on bio-based plastic.¹⁵

Sustainable paper materials

Sony continues to advance the use of its proprietary Original Blended Material for packaging across our flagship 1000X series—including WF1000XM6, WF1000XM5, WF1000XM4, WH1000XM6, and WH1000XM5. This environmentally conscious paper is made from bamboo, sugarcane fibers, and post-consumer recycled paper.¹⁶

Accessibility for all

Sony believes technology should make the world more interactive, creative, entertaining, and inclusive. By incorporating human-centric, inclusive designs into our audio products, we deliver our Kando experience to all users—regardless of age, ability, or environment.

Specification

Battery	
Chemistry of Embedded Battery	Lithium-ion (Li-ion), Lithium-ion (Li-ion)
Battery Form	Rechargeable, Rechargeable
Battery Charge Method	USB charge / Wireless charge (with case)
General Features (Active Headphones)	Max. 8 hrs (NC ON) / Max. 12 hrs (NC OFF)
Battery Life (Continuous Communication Time)	Max. 5 hrs (NC ON) / Max. 5.5 hrs (NC OFF)
Lithium Battery	Yes
General Features	
Headphone Type	Closed
Driver Unit	8.4 mm
Wearing Style	Yes (IPX4)
General Features (Active Headphones)	Yes
Ambient Sound Mode	Yes
Frequency Response (Bluetooth® Communication)	20 Hz - 20,000 Hz (44.1 kHz sampling), 20 Hz - 40,000 Hz (LDAC 96 kHz sampling 990 kbps)
Size & Weight	

Weight	Approx. 6.5 g x 2 (including earbud tips (M))
Charging Case	
Weight	Approx. 47 g
Dimension	Approx. 61.6 x 41.1 x 26.5 mm
Bluetooth® Specification	
Bluetooth® Version	BLUETOOTH Specification Version 5.3
Effective Range	10 m
Frequency Range	2.4 GHz band (2.400 0 GHz - 2.483 5 GHz)
Profile	A2DP, AVRCP, HFP, HSP, TMAP, CSIP, MCP, VCP, CCP
Supported Audio Format(s)	SBC, AAC, LDAC, LC3
Supported Content Protection	SCMS-T
Noise Canceling	
Ambient Sound Mode	Yes
Quick Attention	Yes
What's in the Box	
Supplied Accessories	Earbuds, a charging case, USB charging cable, four sizes of earbud tips

- As of December 1, 2025. Ambient noise reduction according to research by Sony Corporation, measured using IEC-compliant guidelines for the top 10 brands (by market share) of truly wireless style of noise-cancelling headphones market.
- 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.
- Download Sony | Sound Connect app (formerly Sony | Headphones Connect) app at Google Play and the App Store. Firmware update required for Sony | Headphones Connect app. 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.
- Battery Care applies to the earbuds only, not the charging case.
- Interoperability and compatibility among Bluetooth® devices vary.
- As of December 1, 2025, based on measurements using ETSI guidelines. Comparison among all Sony Truly Wireless Earbuds. Call quality excludes impediments related to the mobile device, third party service providers, Internet, network connectivity or environmental conditions.
- Need to set the function to "Priority on Sound Quality" using the Sony | Sound Connect app. Compatible devices supporting LDAC will be needed.
- Activate DSEE Extreme™ from the Sony | Sound Connect app.
- You can experience spatial sound content (like Netflix, YouTube) with Android 13 smartphones capable of head tracking. Depending on your smartphone, applications that can use spatial sound content playback and head tracking will vary. Also, you can experience 360 Reality Audio content with Xperia 1 IV/1 V/5 V on 360 Reality Audio Live app and Live Music Streaming Online | Live Concert Streams | nugs.net. Some services may not be available in certain countries/regions. The number of compatible devices is planned to increase. Not currently available with 360 Reality Audio content streamed from Amazon Music Unlimited.
- Sony | 360 Spatial Sound Personalizer is an app that personalizes your sound experience when connected to a BRAVIA TV.
- Google Gemini headphones features, including "OK Google" hot word detection, are only available when connected to a supported Android™ device. Google, Android, and Gemini are trademarks of Google LLC. Google Gemini is currently available in selected countries/regions. Install the Google app and set up with Sony | Sound Connect app.
- Support for only Japanese/English/Chinese. Set it up with Sony | Sound Connect app.
- Calling App for Android excluded.
- Set up with Sony | Sound Connect app. Terms and conditions for available partner services and their contents, 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. Install the compatible app and set up with Sony | Sound Connect app. The compatible service may not be available in some countries/regions. Supported apps and services: <https://www.sony.net/supported-servicelink>
- Recycled plastic is used in multiple parts of the headphones and the carrying case, subject to change.
- Depending on geographical region. Coating and adhesive materials are excluded.
- 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.
- Set the function to "ON" from the Sony | Sound Connect app. 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 | Sound Connect app.
- Requires that all ports and covers are firmly closed.