



AirPods 4 with Active Noise Cancellation - Tech Specs

Year introduced: 2024

Audio Technology¹

- Custom high-excursion Apple driver
- Custom high dynamic range amplifier
- Active Noise Cancellation
- Adaptive Audio⁴
- Transparency mode
- Conversation Awareness⁴
- Voice Isolation²
- Personalised Spatial Audio with dynamic head tracking³
- Adaptive EQ
- Vent system for pressure equalisation

Sensors

- Dual beamforming microphones
- Inward-facing microphone

	<p>Optical in-ear sensor</p> <p>Motion-detecting accelerometer</p> <p>Speech-detecting accelerometer</p> <p>Force sensor</p>
Chip	H2 headphone chip
Controls	<p>Press once to play or pause media</p> <p>Press once to answer a call or mute or unmute</p> <p>Press twice to end a call</p> <p>Press twice to skip forward</p> <p>Press three times to skip back</p> <p>Press and hold for Siri</p> <p>Say “Hey Siri” or just “Siri”⁵ to do things like play a song, make a call or get directions</p> <p>With Siri Interactions, nod your head yes or gently shake your head no when Siri asks if you want to answer an incoming call, hear a text message, manage notifications, and more²</p>
Dust, Sweat and Water Resistant⁶	Dust, sweat and water resistant (IP54)
Size and Weight⁷	<p>AirPods 4 with Active Noise Cancellation (Each)</p> <p>Height: 30.2 mm (1.19 inches)</p> <p>Width: 18.3 mm (0.72 inches)</p> <p>Depth: 18.1 mm (0.71 inches)</p> <p>Weight: 4.3 grams (0.15 ounces)</p> <p>Charging Case (USB-C) with speaker</p> <p>Height: 46.2 mm (1.82 inches)</p> <p>Width: 50.1 mm (1.97 inches)</p> <p>Depth: 21.2 mm (0.83 inches)</p> <p>Weight: 34.7 grams (1.22 ounces)</p>
Charging Case	<p>Works with USB-C connector, Apple Watch charger or Qi-certified chargers</p> <p>Includes a speaker for use with Find My proximity view⁸</p>
Battery	<p>AirPods 4 with Active Noise Cancellation</p> <p>Up to 4 hours of listening time on a single charge with Active Noise Cancellation enabled¹⁵</p> <p>Up to 5 hours of listening time on a single charge with noise control off¹⁵</p> <p>Up to 4.5 hours of talk time on a single charge¹⁶</p>

AirPods 4 with Active Noise Cancellation and Charging Case (USB-C)

Up to 20 hours of listening time with Active Noise Cancellation enabled¹⁷

Up to 30 hours of listening time with noise control off¹⁷

Up to 20 hours of talk time¹⁸

5 minutes in the case provides around 1 hour of listening time¹⁹ or around 45 minutes of talk time²⁰

Connectivity

Bluetooth 5.3 wireless technology

In the Box

**AirPods 4 with Active Noise Cancellation
Charging Case (USB-C) with speaker
USB-C Charge Cable sold separately**

Accessibility

Accessibility features help people with disabilities get the most out of their new AirPods.

Features include:

Live Listen audio²¹

Headphone levels

Headphone Accommodations

System Requirements

iPhone models with the latest version of iOS

iPad models with the latest version of iPadOS

Apple Watch models with the latest version of watchOS

Mac models with the latest version of macOS

Apple TV models with the latest version of tvOS

Apple Vision Pro with the latest version of visionOS

AirPods can be used as wireless Bluetooth headphones with Apple devices using earlier software and with non-Apple devices, but functionality may be limited.

AirPods and the Environment

AirPods are designed to reduce environmental impact:²²

Materials

100% recycled tin in the solder of multiple printed circuit boards

100% recycled gold in the plating of multiple printed circuit boards

100% recycled copper plating salts on multiple printed circuit boards

100% recycled rare earth elements in all magnets

50% recycled plastic in three parts

100% fibre-based packaging²³

Energy

Meets US Department of Energy requirements for battery charger systems²⁴

Waste

No established final assembly sites generate waste sent to landfill as part of Apple's Zero Waste Programme

Smarter chemistry²⁵

Mercury-, BFR- and PVC-free

1. Device performance and noise control features like Active Noise Cancellation, Adaptive Audio and Transparency can be affected by debris or earwax build-up. Clean the device regularly to maintain performance and full feature functionality. Refer to support.apple.com/en-gb/102672 for AirPods 4 cleaning instructions. Refer to support.apple.com/en-gb/120409 for AirPods Pro 2 cleaning instructions.
2. Available on compatible devices running iOS 18, iPadOS 18 or macOS Sequoia and later when paired with AirPods 4 or AirPods 4 with Active Noise Cancellation with the latest firmware.
3. Compatible hardware and software required. Works with compatible content in supported apps. Not all content available in Dolby Atmos. iPhone with TrueDepth camera required to create a personal profile for Spatial Audio, which will sync across Apple devices with the latest operating system software, including iOS, iPadOS, macOS and tvOS.
4. Available on compatible devices running iOS 18, iPadOS 18, or macOS Sequoia and later when paired with AirPods 4 with Active Noise Cancellation or AirPods Pro 2 with the latest firmware.
5. Siri and activating with just "Siri" may not be available in all languages or in all areas, and features may vary by area. Compatible device and internet access required. Mobile data charges may apply. Activating with just "Siri" is not available on AirPods with the H1 headphone chip and Intel-based Mac computers. Devices must support and have the latest operating system software.
6. AirPods 4, AirPods 4 with Active Noise Cancellation and AirPods Pro 2 are dust, sweat and water resistant for non-water sports and exercise. Products and charging case were tested under controlled laboratory conditions and have a rating of IP54 under IEC standard 60529. Dust, sweat and water resistance are not permanent conditions and resistance might decrease as a result of normal wear. Do not attempt to charge when wet; refer to support.apple.com/en-gb/HT210711 for cleaning and drying instructions.
7. Size and weight vary by configuration and manufacturing process.
8. AirPods 4 with Active Noise Cancellation support wireless charging, which requires a Qi-certified wireless charger. AirPods 4 with Active Noise Cancellation charging case also works with the Apple Watch charger or USB-C connector. Find My functionality requires iOS 18 or later.
9. Testing conducted by Apple in July and August 2024 using pre-production AirPods 4 with Charging Case paired with pre-production iPhone 16 Pro Max units, all with pre-release software. The playlist consisted of 358 unique audio tracks purchased from the iTunes Store (256-Kbps AAC encoding). Volume was set to 50% and Spatial Audio was off. Testing consisted of full AirPods battery discharge while playing audio until the first AirPods stopped playback. Battery life depends on device settings, environment, usage and many other factors.
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15. Testing conducted by Apple in July and August 2024 using pre-production AirPods 4 (Active Noise Cancellation) with Wireless Charging Case paired with pre-production iPhone 16 Pro Max units, all with pre-release software. The playlist consisted of 358 unique audio tracks purchased from the iTunes Store (256-Kbps AAC encoding). Volume was set to 50%; Spatial Audio, Conversation Awareness and Noise Control were all off. With Noise Control set to Active Noise Cancellation, listening time was up to 4 hours. Testing consisted of full AirPods battery discharge while playing audio until the first AirPods stopped playback. Battery life depends on device settings, environment, usage and many other factors.
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21. Requires the latest version of iOS or iPadOS.
22. Data accurate as of product launch.
23. Based on retail packaging as shipped by Apple. Breakdown of US retail packaging by weight. Adhesives, inks and coatings are excluded from our calculations of plastic content and packaging weight.
24. Efficiency performance is based on the [US Department of Energy Federal Energy Conservation Standards for Battery Chargers](#).
25. [Apple's Regulated Substances Specification](#) describes Apple's restrictions on the use of certain chemical substances in materials in Apple products, accessories, manufacturing processes, and packaging used for shipping products to Apple's end customers. Restrictions are derived from international laws or directives, regulatory agencies, eco-label requirements, environmental standards and Apple policies. Every Apple product is free of PVC and phthalates except for AC power leads in India, Thailand (for two-pin AC power leads) and the Republic of Korea, where we continue to seek government approval for our PVC and phthalates replacement. Apple products comply with the European Union Directive 2011/65/EU and its amendments, including exemptions for the use of lead such as high-temperature solder. Apple is working to phase out the use of these exempted substances for new products where technically possible.

Helpful?

Yes

No

Support

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