



Apple Vision Pro - Tech Specs

Year introduced: 2024

Capacity ¹	256GB
	512GB
	1TB
Display	23 million pixels
	3D display system
	Micro-OLED
	7.5-micron pixel pitch
	92% DCI-P3
	Supported refresh rates: 90Hz, 96Hz, 100Hz
	Supports playback multiples of 24 fps and 30 fps for judder-free video

	<p>Video Mirroring</p> <p>Up to 720p AirPlay for mirroring your view in Apple Vision Pro to any AirPlay-enabled device, including iPhone, iPad, Mac, Apple TV (2nd generation or later) or AirPlay-enabled smart TV</p>
Chips	<p>Apple M2 Chip</p> <p>8-core CPU with 4 performance cores and 4 efficiency cores</p> <p>10-core GPU</p> <p>16-core Neural Engine</p> <p>16GB unified memory</p> <p>Apple R1 Chip</p> <p>12-millisecond photon-to-photon latency</p> <p>256GB/s memory bandwidth</p>
Camera	<p>Stereoscopic 3D main camera system</p> <p>Spatial photo and video capture</p> <p>18mm, $f/2.00$ aperture</p> <p>6.5 stereo megapixels</p>
Sensors	<p>Two high-resolution main cameras</p> <p>Six world-facing tracking cameras</p> <p>Four eye-tracking cameras</p> <p>TrueDepth camera</p> <p>LiDAR scanner</p> <p>Four inertial measurement units (IMUs)</p> <p>Flicker sensor</p> <p>Ambient light sensor</p>
Optic ID	<p>Iris-based biometric authentication</p> <p>Optic ID data is encrypted and accessible only to the Secure Enclave processor</p> <p>Secures personal data within apps</p> <p>Make purchases from the iTunes Store and App Store</p>
Audio Technology	<p>Spatial Audio with dynamic head tracking</p> <p>Personalised Spatial Audio and audio ray tracing</p> <p>Six-mic array with directional beamforming</p> <p>Supports H2-to-H2 ultra-low-latency connection to AirPods Pro (2nd generation) with MagSafe Charging Case (USB-C)</p> <p>Audio Playback</p> <p>Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus and Dolby Atmos</p>

	Video Playback Supported formats include HEVC, MV-HEVC, H.264, HDR with Dolby Vision, HDR10 and HLG
Battery²	Up to 2 hours of general use Video watching up to 2.5 hours Apple Vision Pro can be used while charging the battery
Connectivity and Wireless	Wi-Fi 6 (802.11ax) Bluetooth 5.3
Operating System	visionOS
Input	Hands Eyes Voice Supported Input Accessories Keyboards Trackpads Game controllers
Interpupillary Distance (IPD)	51–75mm
Device Weight	600–650g (21.2–22.9 ounces) Weight varies depending on Light Seal and head band configuration. Separate battery weighs 353g.
Accessibility	Accessibility features help people with disabilities get the most out of their new Apple Vision Pro. With built-in support for vision, hearing, mobility and learning, you can create and do amazing things. Learn more about Accessibility. Features Include <div> VoiceOver Zoom Colour Filters Hearing Device Support Closed Captioning </div> <div> Voice Control Switch Control Dwell Control Pointer Control </div>

Built-in Apps³

App Store	Notes	Maps
Encounter Dinosaurs	Photos	News
Files	Safari	Podcasts
Freeform	Settings	Reminders
Keynote	Tips	Shortcuts
Mail	TV	Stocks
Messages	Books	Voice Memos
Mindfulness	Calendar	
Music	Home	

In the Box

- Apple Vision Pro (Includes Light Seal, Light Seal Cushion and Solo Knitted Band)
- Cover
- Dual Loop Band
- Battery
- Light Seal Cushion
- Polishing Cloth
- 30W USB-C Power Adapter
- USB-C Charge Cable (1.5m)

Electrical and Environmental Requirements

- Ambient operating temperature:
0° to 30° C (32° to 86° F)
- Storage temperature:
–20° to 45° C (–4° to 113° F)
- Relative humidity:
0% to 95%

Apple Vision Pro and the Environment

- Apple Vision Pro is designed with the following features to reduce its environmental impact:⁴
[See the Apple Vision Pro Product Environmental Report \(PDF\).](#)
- Made with better materials
 - 100% recycled aluminium in the frame and battery enclosure
 - 100% recycled rare earth elements in all magnets
 - 100% recycled gold in the plating of multiple printed circuit boards
 - 100% recycled tin in the solder of multiple printed circuit boards
 - Over 80% recycled yarn in the Light Seal
 - 70% recycled yarn in the Solo Knitted Band
 - 30% or more recycled plastic in multiple components
- Energy efficient

Exceeds US Department of Energy requirements for battery charger systems⁵

Smarter chemistry⁶

Arsenic-free display glass

Mercury-, BFR-, PVC- and beryllium-free

Green manufacturing

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

All final assembly supplier sites are transitioning to 100% renewable energy for Apple production

Responsible packaging

100% fibre-based packaging⁷

100% of virgin wood fibre comes from responsibly managed forests⁸

Apple and the Environment

Today, Apple is carbon neutral for global corporate operations, and we are focused on our Apple 2030 goal to make every product carbon neutral.

[See Apple's commitment](#)

1. 1GB = 1 billion bytes and 1TB = 1 trillion bytes; actual formatted capacity less.
2. Testing conducted by Apple in November 2023 using pre-production Apple Vision Pro units and software. Testing consisted of full battery discharge while performing each of the following tasks: video playback, internet browsing, spatial video capture and FaceTime. Video playback tested in conjunction with an Environment, using 2D movie content purchased from the Apple TV app. Internet browsing tested using 20 popular websites. FaceTime tested between two Apple Vision Pro units with Personas enabled. Tested with Wi-Fi associated to a network. Battery life depends on device settings, usage, network, environmental conditions and many other factors. Battery tests are conducted using specific Apple Vision Pro units; actual results may vary.
3. FaceTime and Capture (for spatial photos and videos) are also pre-installed on Apple Vision Pro.
4. Data accurate as of product launch.
5. Efficiency performance is based on the US Department of Energy Federal Energy Conservation Standards for Battery Chargers.
6. 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.
7. Breakdown of US retail packaging by weight. Adhesives, inks and coatings are excluded from our calculations of plastic content and packaging weight.
8. Responsible sourcing of wood fibre is defined in [Apple's Responsible Fibre Specification](#). We consider wood fibres to include bamboo.

Users must be 13 years or older.

Helpful?

Yes

No

Support

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