

iPhone 17 Pro Max—Full Official Specifications and What Makes It Stand Out

The iPhone 17 Pro Max is the flagship device of Apple's 2025 iPhone lineup, offering top-of-the-line performance, cutting-edge cameras, and a premium design. In this article we look at its specifications directly from Apple, the major upgrades compared to previous generations, and why it might be a compelling choice for power users, content creators, and tech enthusiasts.

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Design and Build

The iPhone 17 Pro Max features a unibody chassis crafted from aluminum — a shift from some of the previous premium iPhone materials — with a front protected by “Ceramic Shield 2” and a back also covered by a strengthened Ceramic Shield. This combination improves scratch resistance, reduces glare with an anti-reflective coating, and delivers better durability overall.

Users can choose from three finishes: Silver, Cosmic Orange, and Deep Blue. The device measures 163.4 mm in height, 78.0 mm in width, 8.75 mm in thickness, and weighs around 231 grams.

Display

At the heart of the iPhone 17 Pro Max is a 6.9-inch all-screen Super Retina XDR OLED display. The resolution is 2868 × 1320 px with a pixel density of 460 ppi.

This display supports a suite of high-end features: Dynamic Island, Always-On display, ProMotion adaptive refresh rate up to 120 Hz, HDR, True Tone, wide P3 color gamut, Haptic Touch, oleophobic coating to resist fingerprints, and an anti-reflective layer for better visibility outdoors.

Brightness levels are impressive: typical max brightness reaches 1000 nits, HDR peak brightness goes up to 1600 nits, and outdoor peak brightness can hit as high as 3000 nits — among the highest in iPhone history. Minimum brightness can go down to 1 nit.

Performance and Internal Hardware

Under the hood, iPhone 17 Pro Max runs on Apple's brand new A19 Pro chip. It combines a 6-core CPU (2 performance cores + 4 efficiency cores), a 6-core GPU with Neural Accelerators, and a 16-core Neural Engine — all designed to deliver strong performance for demanding tasks, including video editing, gaming, AI-powered features, and more.

This generation also supports hardware-accelerated ray tracing, which can benefit advanced graphics tasks and augmented reality applications. The integration with the latest iOS version — iOS 26 — further unlocks features powered by , enabling smarter assistants, on-device processing, privacy-first AI experiences, and smooth multitasking.

Storage Options

The iPhone 17 Pro Max is offered in multiple storage configurations: 256 GB, 512 GB, 1 TB, and — for the first time on an iPhone — up to 2 TB. These options make it suitable for power users, video producers, and anyone storing large amounts of media or high-resolution content.

Cameras and Imaging System

Photography and video are among the biggest strengths of the iPhone 17 Pro Max. It uses the new “Pro Fusion” camera system with rear lenses all based on 48 MP sensors.

The rear camera setup includes:

- A 48 MP Fusion Main lens (24 mm, f/1.78) with second-generation sensor-shift optical image stabilization (OIS), supporting high-resolution photos at 24 MP and 48 MP.
- A 48 MP Fusion Ultra Wide lens (13 mm, f/2.2) with 120° field of view and Hybrid Focus Pixels — good for landscapes, architecture, wide scenes, and ultra-wide photos.
- A 48 MP Fusion Telephoto lens capable of 4× optical zoom (100 mm, f/2.8) and — impressively — an 8× optical-quality telephoto mode (200 mm, f/2.8) using a tetraprism design and 3D sensor-shift OIS. This expands the optical zoom range significantly.

Thanks to this setup, the iPhone 17 Pro Max supports:

- Optical zoom range: 2× zoom out to 8× zoom in, total 16× optical-quality zoom range.
- Digital zoom up to 40×.
- A variety of advanced photo modes: Photonic Engine processing, Deep Fusion, Smart HDR 5, next-generation Portrait mode with Focus and Depth Control, Portrait Lighting (six effects), night mode, panorama (up to 63 MP), 48 MP macro photography, ProRAW support, wide-color capture for photos and Live Photos, lens-correction for ultra wide, red-eye correction, auto image stabilization, burst mode, geo-tagging, and support for HEIF, JPEG and DNG formats.

Video is equally impressive. The device supports Dolby Vision HDR recording, 4K at 120 fps, and professional-grade video capabilities, including support for and genlock when working with dedicated camera docks — features that appeal to filmmakers and video content creators.

Battery and Charging

Battery life is one of the key improvements in iPhone 17 Pro Max. According to Apple, the device offers the longest battery life ever in an iPhone flagship. While Apple doesn't publish a milliamp-hour (mAh) number on the specs page, the engineering around the unibody aluminum design and a larger battery compartment allow for substantial usage time.

On a full charge, the 17 Pro Max supports up to 33 hours of video playback, or up to 30 hours for streamed video. Fast charging is supported: the phone can reach 50% battery in about 20 minutes when using a 40 W (or higher) USB-C adapter (sold separately).

Connectivity, Security and Additional Features

iPhone 17 Pro Max supports a wide range of cellular technologies: from 5G NR (both FDD and TDD, plus mmWave), down to LTE and even older GSM/UMTS networks — ensuring global compatibility.

Security and privacy remain core priorities. The front-facing camera uses the TrueDepth system for Face ID authentication. Moreover, this model supports satellite-enabled features for Emergency SOS, Roadside Assistance, and Messages via satellite — handy for remote locations or emergency situations.

Why iPhone 17 Pro Max Matters—Who It's For

With its combination of high-end camera capabilities, powerful internals, long battery life, and premium display, the iPhone 17 Pro Max is designed for those who demand the best from their smartphone. Here are the types of users who will benefit most:

- **Professional photographers and videographers:** The 48 MP triple-lens system, extensive zoom range, ProRAW, Dolby Vision HDR, and ProRes RAW support make it a powerful mobile tool for high-quality content creation.
- **Power users and multitaskers:** With the A19 Pro chip, 16-core Neural Engine, support for Apple Intelligence, and

up to 2 TB of storage, the phone easily handles intensive workloads like video editing, multitasking, AI-driven tasks, and gaming.

- **Those seeking a durable, future-proof device:** The new ceramic shield protection, aluminum unibody, robust water/dust resistance (IP68), and long battery life make it ideal for everyday heavy use and long-term reliability.
- **Content consumers and media lovers:** The large 6.9-inch OLED display with 120 Hz ProMotion and high brightness makes watching videos, streaming, and gaming highly enjoyable.

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Summary—Is iPhone 17 Pro Max Worth It?

The iPhone 17 Pro Max is clearly a flagship device that pushes the boundaries of what a smartphone can do in 2025. It sets a new standard for mobile photography, videography, performance, and battery life in the iPhone lineup. For anyone serious about content creation, heavy multitasking, or simply wanting a premium, long-lasting device, the 17 Pro Max stands out as one of the most compelling choices on the market.

At the same time, its high-end specs — including storage, camera system, display, and chip — mean that it is most beneficial for users who will actually take advantage of these capabilities. If you mostly use your phone for basic tasks (calls, messaging, social media), some of its features may remain underutilized. But for power users, creatives, and tech enthusiasts, iPhone 17 Pro Max offers top-tier performance and longevity.