

iPhone 14 Pro Max – Technical Specifications

Language

Year introduced: 2022

Identify your iPhone model



Finish

- Space Black
- Silver
- Gold
- Deep Purple

Ceramic Shield front, Textured matte glass back and stainless steel design

Capacity¹

- 128GB
- 256GB
- 512GB
- 1TB

Size and Weight²

- Height: 6.33 inches (160.7 mm)
- Depth: 0.31 inch (7.85 mm)
- Weight: 8.47 ounces (240 grams)

Display

- Super Retina XDR display
- 6.7-inch (diagonal) all-screen OLED display
- 2796-by-1290-pixel resolution at 460 ppi
- Dynamic Island
- Always-On display
- ProMotion technology with adaptive refresh rates up to 120Hz
- HDR display
- True Tone
- Wide color (P3)
- Haptic Touch
- 2,000,000:1 contrast ratio (typical)
- 1000 nits max brightness (typical); 1600 nits peak brightness (HDR); 2000 nits peak brightness (outdoor)
- Fingerprint-resistant oleophobic coating
- Support for display of multiple languages and characters simultaneously

The iPhone 14 Pro Max display has rounded corners that follow a beautiful curved design, and these corners fit within a standard rectangle. When measured as a standard rectangular shape, the screen is 6.69 inches high (actual viewable area is less).

Splash, Water, and Dust Resistant³

- Rated IP68 (maximum depth of 6 meters up to 30 minutes) under IEC standard 60529

Chip

- A16 Bionic chip
- 6-core CPU with 2 performance and 4 efficiency cores
- 5-core GPU
- 16-core Neural Engine

Camera

Pro camera system

- 48MP Main: 24 mm, f/1.78 aperture, second-generation sensor-shift optical image stabilization

- 12MP Ultra Wide: 13 mm, f/2.2 aperture and 120° field of view, six-element lens, 100% Focus Pixels
- 12MP 2x Telephoto (enabled by quad-pixel sensor): 48 mm, f/1.78 aperture, second-generation optical image stabilization, seven-element lens, 100% Focus Pixels
- 12MP 3x Telephoto: 77 mm, f/2.8 aperture, optical image stabilization, six-element lens
- 3x optical zoom in, 2x optical zoom out; 6x optical zoom range; digital zoom up to 15x
- Sapphire crystal lens cover
- Adaptive True Tone flash
- Photonic Engine
- Deep Fusion
- Smart HDR 4
- Portrait mode with advanced bokeh and Depth Control
- Portrait Lighting with six effects (Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono)
- Night mode
- Night mode portraits enabled by LiDAR Scanner
- Panorama (up to 63MP)
- Photographic Styles
- Macro photography
- Apple ProRAW
- Wide color capture for photos and Live Photos
- Lens correction (Ultra Wide)
- Advanced red-eye correction
- Auto image stabilization
- Burst mode
- Photo geotagging
- Image formats captured: HEIF, JPEG, and DNG

Video Recording

- 4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps
- 1080p HD video recording at 25 fps, 30 fps, or 60 fps
- 720p HD video recording at 30 fps
- Cinematic mode up to 4K HDR at 30 fps
- Action mode up to 2.8K at 60 fps
- HDR video recording with Dolby Vision up to 4K at 60 fps
- ProRes video recording up to 4K at 30 fps (1080p at 30 fps for 128GB storage)
- Macro video recording, including slo-mo and time-lapse

- Time-lapse video with stabilization
- Night mode Time-lapse
- QuickTake video
- Second-generation sensor-shift optical image stabilization for video (Main)
- Dual optical image stabilization for video (Main and Telephoto)
- 3x optical zoom in, 2x optical zoom out; 6x optical zoom range
- Digital zoom up to 9x
- Audio zoom
- True Tone flash
- Cinematic video stabilization (4K, 1080p, and 720p)
- Continuous autofocus video
- Take 8MP still photos while recording 4K video
- Playback zoom
- Video formats recorded: HEVC, H.264, and ProRes
- Stereo recording

TrueDepth Camera

- 12MP camera
- $f/1.9$ aperture
- Autofocus with Focus Pixels
- Six-element lens
- Retina Flash
- Photonic Engine
- Deep Fusion
- Smart HDR 4
- Portrait mode with advanced bokeh and Depth Control
- Portrait Lighting with six effects (Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono)
- Animoji and Memoji
- Night mode
- Photographic Styles
- Apple ProRAW
- Wide color capture for photos and Live Photos
- Lens correction
- Auto image stabilization
- Burst mode

- 1080p HD video recording at 25 fps, 30 fps, or 60 fps
- Cinematic mode up to 4K HDR at 30 fps
- HDR video recording with Dolby Vision up to 4K at 60 fps
- ProRes video recording up to 4K at 30 fps (1080p at 30 fps for 128GB storage)
- Slo-mo video support for 1080p at 120 fps
- Time-lapse video with stabilization
- Night mode Time-lapse
- QuickTake video
- Cinematic video stabilization (4K, 1080p, and 720p)

Face ID

- Enabled by TrueDepth camera for facial recognition

Apple Pay

- Pay with your iPhone using Face ID in stores, within apps, and on the web
- Send and receive money in Messages with Apple Cash⁴
- Complete purchases made with Apple Pay on your Mac
- Pay for your ride using Express Transit⁵

Learn more about Apple Pay

Learn more about Apple Cash

Safety

- Emergency SOS via satellite⁶
- Crash Detection

Cellular and Wireless

- Model A2650*
 - 5G NR (Bands n1, n2, n3, n5, n7, n8, n12, n14, n20, n25, n26, n28, n29, n30, n38, n40, n41, n66, n70, n71, n77, n78 n79)
 - 5G NR mmWave (Bands n258, n260, n261)
 - FDD-LTE (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 66, 71)
 - TD-LTE (Bands 34, 38, 39, 40, 41, 42, 46, 48, 53)
 - UMTS/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)
 - GSM/EDGE (850, 900, 1800, 1900 MHz)

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