

iPhone 12 Pro

iPhone 12 Pro Max

Finish



Silver, Graphite, Gold, Pacific Blue

Ceramic Shield front
Textured matte glass back and
stainless steel design



Silver, Graphite, Gold, Pacific Blue

Ceramic Shield front
Textured matte glass back and
stainless steel design

Capacity

128GB

256GB

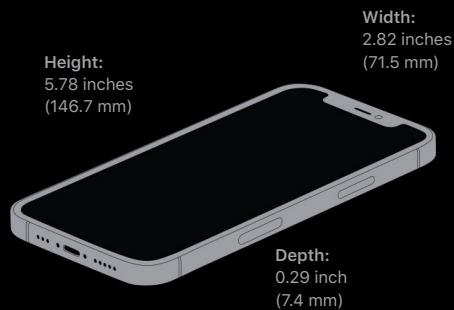
512GB

128GB

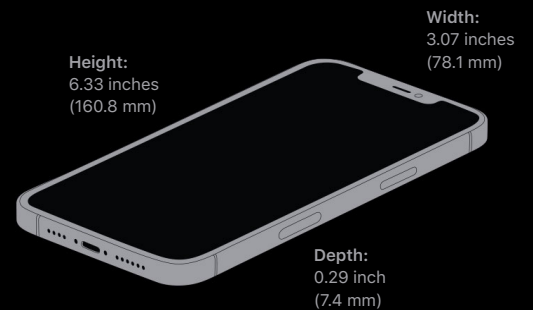
256GB

512GB

Size and Weight



Weight: 6.66 ounces (189 grams)



Weight: 8.03 ounces (228 grams)

Display



Super Retina XDR display

6.1-inch (diagonal) all-screen OLED display
2532-by-1170-pixel resolution at 460 ppi

The iPhone 12 Pro display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When measured as a standard rectangular shape, the screen is 6.06 inches diagonally (actual viewable area is less).



Super Retina XDR display

6.7-inch (diagonal) all-screen OLED display
2778-by-1284-pixel resolution at 458 ppi

The iPhone 12 Pro Max display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When measured as a standard rectangular shape, the screen is 6.68 inches diagonally (actual viewable area is less).

Both models:

HDR display

True Tone

Wide color (P3)

Haptic Touch

2,000,000:1 contrast ratio (typical)

800 nits max brightness (typical); 1200 nits max brightness (HDR)

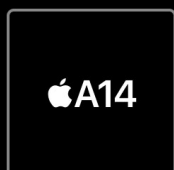
Fingerprint-resistant oleophobic coating

Support for display of multiple languages and characters simultaneously

Splash, Water, and Dust Resistant

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

Chip



A14 Bionic chip

Next-generation Neural Engine

Camera

Pro 12MP camera system: Ultra Wide, Wide, and Telephoto cameras
Ultra Wide: $f/2.4$ aperture and 120° field of view
Wide: $f/1.6$ aperture
Telephoto: $f/2.0$ aperture (iPhone 12 Pro); $f/2.2$ aperture (iPhone 12 Pro Max)
2x optical zoom in, 2x optical zoom out; 4x optical zoom range (iPhone 12 Pro)
Digital zoom up to 10x (iPhone 12 Pro)
2.5x optical zoom in, 2x optical zoom out; 5x optical zoom range (iPhone 12 Pro Max)
Digital zoom up to 12x (iPhone 12 Pro Max)
Night mode portraits enabled by LiDAR Scanner
Portrait mode with advanced bokeh and Depth Control
Portrait Lighting with six effects (Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono)
Dual optical image stabilization (Wide and Telephoto)
Sensor-shift optical image stabilization (iPhone 12 Pro Max Wide)
Five-element lens (Ultra Wide); six-element lens (Telephoto); seven-element lens (Wide)
Brighter True Tone flash with Slow Sync
Panorama (up to 63MP)
Sapphire crystal lens cover
100% Focus Pixels (Wide)
Night mode (Ultra Wide, Wide)
Deep Fusion (Ultra Wide, Wide, Telephoto)
Smart HDR 3 with Scene Detection
Apple ProRAW*
Wide color capture for photos and Live Photos
Lens correction (Ultra Wide)
Advanced red-eye correction
Photo geotagging
Auto image stabilization
Burst mode
Image formats captured: HEIF and JPEG

Video Recording

HDR video recording with Dolby Vision up to 60 fps
4K video recording at 24 fps, 30 fps, or 60 fps
1080p HD video recording at 30 fps or 60 fps
720p HD video recording at 30 fps
Optical image stabilization for video (Wide)
2x optical zoom in, 2x optical zoom out; 4x optical zoom range (iPhone 12 Pro)
Digital zoom up to 6x (iPhone 12 Pro)
2.5x optical zoom in, 2x optical zoom out; 5x optical zoom range (iPhone 12 Pro Max)
Digital zoom up to 7x (iPhone 12 Pro Max)
Audio zoom
Brighter True Tone flash
QuickTake video
Slo-mo video support for 1080p at 120 fps or 240 fps

Time-lapse video with stabilization
Night mode Time-lapse
Extended dynamic range for video up to 60 fps
Cinematic video stabilization (4K, 1080p, and 720p)
Continuous autofocus video
Take 8MP still photos while recording 4K video
Playback zoom
Video formats recorded: HEVC and H.264
Stereo recording

TrueDepth Camera

12MP camera
 $f/2.2$ aperture
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
Deep Fusion
Smart HDR 3 with Scene Detection
HDR video recording with Dolby Vision up to 30 fps
4K video recording at 24 fps, 30 fps, or 60 fps
1080p HD video recording at 30 fps or 60 fps
Slo-mo video support for 1080p at 120 fps
Time-lapse video with stabilization
Night mode Time-lapse
Extended dynamic range for video up to 30 fps
Cinematic video stabilization (4K, 1080p, and 720p)
QuickTake video
Wide color capture for photos and Live Photos
Lens correction
Retina Flash
Auto image stabilization
Burst mode

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
Complete purchases made with Apple Pay on your Mac
Pay for your ride using Express Transit

Apple Card

Credit card created by Apple, designed for iPhone

Use the Wallet app to apply for, manage, and use Apple Card

Pay with Apple Pay using Face ID in stores, within apps, and on the web

Titanium, laser-etched physical credit card for use where Apple Pay is not accepted yet

Cellular and Wireless

Model A2341	<p>5G NR (Bands n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n66, n71, n77, n78, n79)</p> <p>5G NR mmWave (Bands n260, n261)</p> <p>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)</p> <p>TD-LTE (Bands 34, 38, 39, 40, 41, 42, 46, 48)</p> <p>CDMA EV-DO Rev. A (800, 1900 MHz)</p> <p>UMTS/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)</p> <p>GSM/EDGE (850, 900, 1800, 1900 MHz)</p>
Model A2342	<p>5G NR (Bands n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n66, n71, n77, n78, n79)</p> <p>5G NR mmWave (Bands n260, n261)</p> <p>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)</p> <p>TD-LTE (Bands 34, 38, 39, 40, 41, 42, 46, 48)</p> <p>CDMA EV-DO Rev. A (800, 1900 MHz)</p> <p>UMTS/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)</p> <p>GSM/EDGE (850, 900, 1800, 1900 MHz)</p>
All models	<p>5G (sub-6 GHz and mmWave)</p> <p>Gigabit LTE with 4x4 MIMO and LAA</p> <p>Wi-Fi 6 (802.11ax) with 2x2 MIMO</p> <p>Bluetooth 5.0 wireless technology</p> <p>Ultra Wideband chip for spatial awareness⁵</p> <p>NFC with reader mode</p> <p>Express Cards with power reserve</p>

Location

Built-in GPS, GLONASS, Galileo, QZSS, and BeiDou
Digital compass
Wi-Fi
Cellular
iBeacon microlocation

Video Calling

FaceTime video calling over cellular or Wi-Fi
FaceTime HD (1080p) video calling over 5G or Wi-Fi

Audio Calling

FaceTime audio
Voice over LTE (VoLTE)
Wi-Fi calling

Audio Playback

Audio formats supported: AAC-LC, HE-AAC, HE-AAC v2, Protected AAC, MP3, Linear PCM, Apple Lossless, FLAC, Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3), Dolby Atmos, and Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+)
Spatial audio playback
User-configurable maximum volume limit

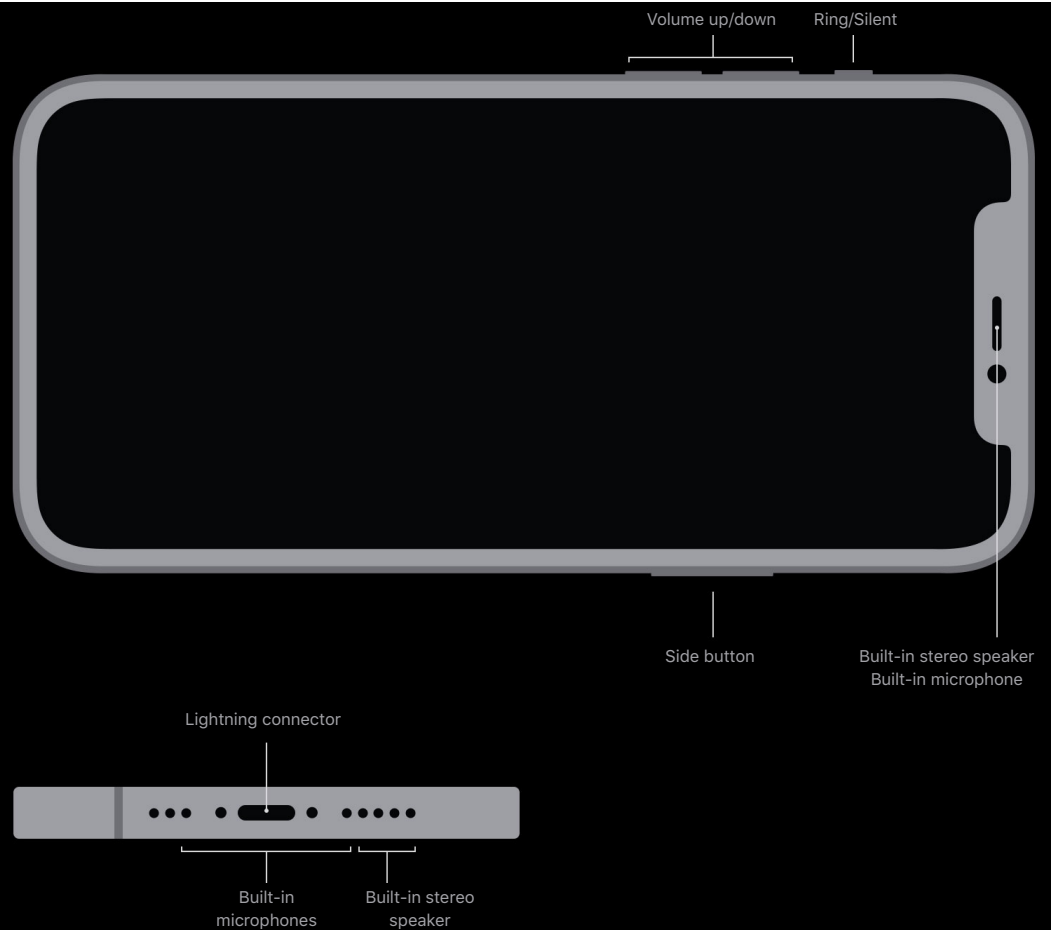
Video Playback

Video formats supported: HEVC, H.264, MPEG-4 Part 2, and Motion JPEG
HDR with Dolby Vision, HDR10, and HLG
Up to 4K HDR AirPlay for mirroring, photos, and video out to Apple TV (2nd generation or later) or AirPlay 2-enabled smart TV
Video mirroring and video out support: Up to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)

Siri

Use your voice to send messages, set reminders, and more
Get intelligent suggestions on your Lock Screen and in Messages, Mail, QuickType, and more
Activate hands-free with only your voice using "Hey Siri"
Use your voice to run shortcuts from your favorite apps

External Buttons and Connectors



Power and Battery

Video playback:
Up to 17 hours

Video playback (streamed):
Up to 11 hours

Audio playback:
Up to 65 hours

Both models:

Built-in rechargeable lithium-ion battery

MagSafe wireless charging up to 15W

Qi wireless charging up to 7.5W

Charging via USB to computer system or power adapter

Fast-charge capable:

Up to 50% charge in around 30 minutes with 20W adapter or higher (sold separately)

Video playback:
Up to 20 hours

Video playback (streamed):
Up to 12 hours

Audio playback:
Up to 80 hours

MagSafe

Wireless charging up to 15W

Magnet array

Alignment magnet

Accessory Identification NFC

Magnetometer

Sensors

Face ID
LiDAR Scanner
Barometer
Three-axis gyro
Accelerometer
Proximity sensor
Ambient light sensor

Operating System

iOS 14

iOS is the world's most personal and secure mobile operating system, packed with powerful features and designed to protect your privacy.

Accessibility

Accessibility features help people with disabilities get the most out of their new iPhone. With built-in support for vision, hearing, mobility, and learning, you can fully enjoy the world's most personal device.

Features include:

- Voice Control
 - VoiceOver
 - Zoom
 - Magnifier
 - RTT and TTY support
 - Siri and Dictation
 - Type to Siri
 - Switch Control
 - Closed Captions
 - AssistiveTouch
 - Speak Screen
 - Back Tap
-

SIM Card

Dual SIM (nano-SIM and eSIM)

iPhone 12 Pro and iPhone 12 Pro Max are not compatible with existing micro-SIM cards.

Rating for Hearing Aids

M3, T4

System Requirements

Apple ID (required for some features)

Internet access

Syncing to a Mac or PC requires:

- macOS Catalina 10.15 or later using the Finder
- macOS El Capitan 10.11.6 through macOS Mojave 10.14.6 using iTunes 12.8 or later
- Windows 7 or later using iTunes 12.10.10 or later

Environmental Requirements

Operating ambient temperature: 32° to 95° F (0° to 35° C)

Nonoperating temperature: -4° to 113° F (-20° to 45° C)

Relative humidity: 5% to 95% noncondensing

Operating altitude: tested up to 10,000 feet (3000 m)

In the Box

iPhone with iOS 14

USB-C to Lightning Cable

Documentation

