

iPhone 11 Technical Specifications

Finish

Black, Green, Yellow, Purple, (PRODUCT)RED, White

Capacity¹

- 64GB
- 128GB

Size and Weight²

Width:

- 2.98 inches
- (75.7 mm)

Height:

- 5.94 inches
- (150.9 mm)

Depth:

- 0.33 inch
- (8.3 mm)

Weight:

6.84 ounces (194 grams)

Display

- Liquid Retina HD display
- 6.1-inch (diagonal) all-screen LCD Multi-Touch display with IPS technology
- 1792-by-828-pixel resolution at 326 ppi
- 1400:1 contrast ratio (typical)
- True Tone display
- Wide color display (P3)
- Haptic Touch
- 625 nits max brightness (typical)
- Fingerprint-resistant oleophobic coating
- Support for display of multiple languages and characters simultaneously

The iPhone 11 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).

Splash, Water, and Dust Resistant³

- Rated IP68 (maximum depth of 2 meters up to 30 minutes) under IEC standard 60529

Chip

- A13 Bionic chip
- 6-core CPU with 2 performance and 4 efficiency cores
- 4-core GPU
- 8-core Neural Engine

Camera

- Dual 12MP Ultra Wide and Wide cameras
- Ultra Wide: $f/2.4$ aperture and 120° field of view
- Wide: $f/1.8$ aperture
- 2x optical zoom out
- Digital zoom up to 5x
- Portrait mode with advanced bokeh and Depth Control
- Portrait Lighting with six effects (Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono)
- Optical image stabilization (Wide)
- Five-element lens (Ultra Wide); six-element lens (Wide)
- True Tone flash with Slow Sync
- Panorama (up to 63MP)
- Sapphire crystal lens cover
- 100% Focus Pixels (Wide)
- Night mode (Wide)
- Deep Fusion (Wide)
- Next-generation Smart HDR for photos
- Wide color capture for photos and Live Photos
- Advanced red-eye correction
- Auto image stabilization
- Burst mode
- Photo geotagging
- Image formats captured: HEIF and JPEG

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
- Extended dynamic range for video up to 60 fps
- Optical image stabilization for video (Wide)
- 2x optical zoom out

- Digital zoom up to 3x
- Audio zoom
- True Tone flash
- QuickTake video
- Slo-mo video support for 1080p at 120 fps or 240 fps
- Time-lapse video with stabilization
- 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
- 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
- Slo-mo video support for 1080p at 120 fps
- Next-generation Smart HDR for photos
- Extended dynamic range for video at 30 fps
- Cinematic video stabilization (4K, 1080p, and 720p)
- QuickTake video
- Wide color capture for photos and Live Photos
- Retina Flash
- Auto image stabilization
- Burst mode

Face ID

- Enabled by TrueDepth camera for facial recognition

Cellular and Wireless

Model A2221*

- FDD-LTE (Bands 1, 2, 3, 4, 5, 7, 8, 11, 12, 13, 17, 18, 19, 20, 21, 25, 26, 28, 29, 30, 32, 66)
- TD-LTE (Bands 34, 38, 39, 40, 41, 42, 46, 48)
- UMTS/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)
- GSM/EDGE (850, 900, 1800, 1900 MHz)

All models

- Gigabit-class LTE with 2x2 MIMO and LAA⁴
- 802.11ax Wi-Fi 6 with 2x2 MIMO
- Bluetooth 5.0 wireless technology
- Ultra Wideband chip for spatial awareness⁵
- NFC with reader mode
- Express Cards with power reserve

Location

- Built-in GPS/GNSS
- Digital compass
- Wi-Fi
- Cellular
- iBeacon microlocation

Video Calling⁶

- FaceTime video calling over cellular or Wi-Fi
- FaceTime HD (1080p) video calling over Wi-Fi
- Share experiences like movies, TV, music, and other apps in a FaceTime call with SharePlay
- Screen sharing
- Portrait mode in FaceTime video
- Spatial audio
- Voice Isolation and Wide Spectrum microphone modes
- Zoom with rear-facing camera

Audio Calling⁶

- FaceTime audio
- Share experiences like movies, TV, music, and other apps in a FaceTime call with SharePlay
- Screen sharing
- Spatial audio
- Voice Isolation and Wide Spectrum microphone modes

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
- Supports Dolby Vision, HDR10, and HLG
- AirPlay Mirroring, photos, and video out to Apple TV (2nd generation or later)⁷
- Video mirroring and video out support: Up to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)⁷

External Buttons and Connectors

Volume up/down
Ring/Silent
Side button
Built-in stereo speaker
Lightning connector
Built-in microphones
Built-in stereo speaker
Built-in microphone

Power and Battery⁸

Video playback:

- Up to 17 hours

Video playback (streamed):

Up to 10 hours

Audio playback:

- Up to 65 hours

Fast-charge capable:

- Up to 50% charge in 30 minutes⁹ with 20W adapter or higher (sold separately)
- Built-in rechargeable lithium-ion battery
- Wireless charging (works with Qi chargers¹⁰)
- Charging via USB to computer system or power adapter

Sensors

- Face ID
- Barometer
- Three-axis gyro
- Accelerometer

- Proximity sensor
- Ambient light sensor

Operating System

- **iOS 15**
iOS is the world's most personal and secure mobile operating system, packed with powerful features and designed to protect your privacy.

[See what's new in iOS 15](#)

Accessibility

Built-in accessibility features supporting vision, mobility, hearing, and cognitive disabilities help you get the most out of your iPhone. [Learn more](#)

Features include:

- VoiceOver
- Zoom
- Magnifier
- Dictation
- Switch Control
- Closed Captions
- AssistiveTouch
- Spoken Content
- Back Tap