iPhone 11 – Technical Specifications

Finish

- Black
- Green
- Yellow
- Purple
- (PRODUCT)RED™
- White

Capacity[1]

- 64GB
- 128GB
- 256GB

Size and Weight[2]

- 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 Resistant[3]

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

Chip

- A13 Bionic chip
- Third-generation Neural Engine

Camera

- Dual 12MP Ultra Wide and Wide cameras
- Ultra Wide: ƒ/2.4 aperture and 120° field of view
- Wide: ƒ/1.8 aperture
- 2x optical zoom out; digital zoom up to 5x
- Portrait mode with advanced bokeh and Depth Control

- Optical image stabilization (Wide)
- Five-element lens (Ultra Wide); six-element lens (Wide)
- Brighter True Tone flash with Slow Sync
- Panorama (up to 63MP)
- Sapphire crystal lens cover
- 100% Focus Pixels (Wide)
- Night mode
- Auto Adjustments
- 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, 30 fps, or 60 fps
- 1080p HD video recording at 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
- Brighter True Tone flash
- QuickTake video with subject tracking
- 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
- ƒ/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, 30fps, or 60 fps
- 1080p HD video recording at 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)
- Wide color capture for photos and Live Photos
- 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

Learn more about Apple Pay

Cellular and Wireless

- Model A2111*
  FDD-LTE (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 29, 30, 66, 71)
  TD-LTE (Bands 34, 38, 39, 40, 41, 42, 46, 48)
  CDMA EV-DO Rev. A (800, 1900 MHz)
  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 LAA[4]
  802.11ax Wi-Fi 6 with 2x2 MIMO
  Bluetooth 5.0 wireless technology
  Ultra Wideband chip for spatial awareness[5]
  NFC with reader mode
  Express Cards with power reserve

Location

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

Video Calling[6]

- FaceTime video calling over Wi-Fi or cellular

Audio Calling[6]

- FaceTime audio
- Voice over LTE (VoLTE)[4]
- Wi-Fi calling[4]

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 and HDR10 content
- 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]

Siri[8]

- 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

Learn more about Siri

External Buttons and Connectors

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

Power and Battery[9]

- Lasts up to 1 hour longer than iPhone XR
- Video playback: Up to 17 hours
- Video playback (streamed): Up to 10 hours

- Fast-charge capable: Up to 50% charge in 30 minutes[10] with 18W adapter or higher (sold separately)
- Built-in rechargeable lithium-ion battery
- Wireless charging (works with Qi chargers[11])
- 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

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

Accessibility

Accessibility features help people with disabilities get the most out of their new iPhone 11. With built-in support for vision, hearing, mobility, and learning, you can fully enjoy the world's most personal device. Learn more about Accessibility

Features include:

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

Built-in Apps

- Camera
- Photos
- Health
- Messages
- Phone
- FaceTime
- Mail
- Music
- Wallet
- Safari
- Maps
- Siri
- Calendar
- iTunes Store
- App Store
- Notes
- News
- Contacts
- Books
- Home
- Weather
- Reminders
- Clock

- Stocks
- Calculator
- Voice Memos
- Compass
- Podcasts
- Watch
- Tips
- Find My
- Settings
- Files
- Measure
- Shortcuts

Free Apps from Apple

Pages, Numbers, Keynote, iMovie, GarageBand, iTunes U, Clips, and Apple Store app are preinstalled.

- iMovie
- Pages
- Numbers
- Keynote
- iTunes U
- GarageBand
- Apple Store
- Trailers
- Apple TV Remote
- iTunes Remote
- Music Memos
- Clips
- Support

SIM Card

- Dual SIM (nano-SIM and eSIM)[12]
- iPhone 11 is not compatible with existing micro-SIM cards.

Rating for Hearing Aids

- M3, T4

Mail Attachment Support

- Viewable document types
  .jpg, .tiff, .gif (images); .doc and .docx (Microsoft Word); .htm and .html (web pages); .key (Keynote); .numbers (Numbers); .pages (Pages); .pdf (Preview and Adobe Acrobat); .ppt and .pptx (Microsoft PowerPoint); .txt (text); .rtf (rich text format); .vcf (contact information); .xls and .xlsx (Microsoft Excel); .zip; .ics; .usdz (USDZ Universal)

System Requirements

- Apple ID (required for some features)
- Internet access[13]
- Syncing to a Mac or PC requires:
  - macOS Catalina 10.15 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 or later (free download from www.itunes.com/download)

Environmental Requirements

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

Languages

- Language support
  English (Australia, UK, U.S.), Chinese (Simplified, Traditional, Traditional Hong Kong), French (Canada, France), German, Italian, Japanese, Korean, Spanish (Latin America, Spain), Arabic, Catalan, Croatian, Czech, Danish, Dutch, Finnish, Greek, Hebrew, Hindi, Hungarian, Indonesian, Malay, Norwegian, Polish, Portuguese (Brazil,

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