Product Information

Originally released October 2012
Wi-Fi (802.11a/b/g/n)
Bluetooth 4.0 technology
9.7-inch Retina display
5-megapixel iSight camera
FaceTime HD camera
1080p HD video recording
Dual-core A6X chip
10-hour battery life
Smart covers (sold separately), instant on
Multi-Touch screen
1.46 pounds and 0.37 inch

Features

Breakthrough Retina display. It's even more than meets the eye.
The Retina display on iPad makes everything look crisp and lifelike. Text is razor sharp. Colors are vibrant. Photos and videos are rich with detail. All thanks to its 3.1 million pixels — a million more pixels than an HDTV.

Powerful A6X chip. High speeds ahead.
The new A6X chip inside iPad is up to twice as fast as the previous-generation A5X chip, and it delivers up to twice the graphics performance, without sacrificing battery life. Which means even the most advanced apps are smooth, responsive, and incredibly lifelike.

Over 300,000 apps. There's almost no limit to what you can do.
Apps for iPad aren't like anything else. That's because every app — 300,000 and counting — is designed specifically for iPad. And with apps in just about every category, you can do things like make a commute more entertaining, a presentation more interesting, or a school lesson more inspiring, right from your iPad.

Ultrafast Wireless. Make faster connections. The world over.
The new iPad with Retina display features advanced Wi-Fi that's up to twice as fast as any previous-generation iPad. And access to more cellular data networks around the world makes it fast in more ways than one, and in many more places.

FaceTime and iSight cameras. Now there are even more reasons to smile.
The iPad features Apple's 5-megapixel iSight camera. Designed with advanced optics, it lets you shoot gorgeous photos and record HD video in full 1080p. FaceTime on iPad puts you face-to-face — even when you're miles apart.

iOS. The world's most advanced mobile operating system.
iOS is the magic behind iPad. It lets you see and do everything using Multi-Touch. It includes all the powerful, innovative, and fun built-in apps you use every day, many times a day. It's the preferred choice for app developers. And it's yet another reason no other device comes close to iPad.

iCloud. Your content. On all your devices.
iCloud stores your music, photos, apps, mail, contacts, calendars, documents, and more and wirelessly pushes them to all your devices. So if you buy a song, take a photo, or edit a calendar event on your iPad, iCloud makes sure it appears on your Mac, iPhone, and iPod touch, too. You don't have to do a thing.

AirPlay. Play it on your iPad. Watch it on your HDTV.
Whether it's the new album you bought, photos of your Barcelona escapade, or an HD movie, AirPlay lets you stream what's on your iPad straight to your speakers and HDTV.

Dictation. Talking is the new typing.
Write an email. Send a text. Search the web. Or create a note. And do it all with only your voice. Instead of typing, tap the microphone icon on the keyboard. Then say what you want to say while your iPad listens. When you're done, tap anywhere on the screen and, just like that, your spoken words become written words. Dictation also works with third-party apps, so you can do things like update your Facebook status or share a thought on your Twitter feed.

What's in the Box?

- Refurbished iPad with Retina display Wi-Fi + Cellular
- Lightning to USB Cable
- USB Power Adapter
- Documentation

Tech Specs

Processor
- Dual-core Apple A6X custom-designed, high-performance, low-power system-on-a-chip with quad-core graphics

Display
- Retina display
- 9.7-inch (diagonal) LED-backlit Multi-Touch display with IPS technology
- 2048-by-1536 resolution at 264 pixels per inch (ppi)
- Fingerprint-resistant oleophobic coating

Power and Battery
- Built-in 42.5-watt-hour rechargeable lithium-polymer battery
- Up to 10 hours[1] of surfing the web on Wi-Fi, watching video, or listening to music
- Up to 9 hours[1] of surfing the web using cellular data network
- Charging via power adapter or USB to computer system

Input and Output
- Lightning connector
- 3.5-mm stereo headphone minijack
- Built-in speaker
- Microphone
- Micro-SIM card tray

Audio Playback
- Frequency response: 20Hz to 20,000Hz
- Audio formats supported: AAC (8 to 320 Kbps), Protected AAC (from iTunes Store), HE-AAC, MP3 (8 to 320 Kbps), MP3 VBR, Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, and WAV
- User-configurable maximum volume limit

Sensors
- Ambient light sensor
- Accelerometer
- Three-axis gyro

Camera, Photos, and Video
- **FaceTime HD Camera**:
- 1.2MP photos
- 720p HD video
- FaceTime video calling over Wi-Fi or cellular[2]
- Face detection
- Backside illumination
- Tap to control exposure for video or still images
- Photo and video geotagging
- **iSight Camera**:
- 5MP photos
- Autofocus
- Face detection
- Backside illumination
- Five-element lens
- Hybrid IR filter
- ƒ/2.4 aperture
- Tap to focus video or still images
- Tap to control exposure for video or still images
- Photo and video geotagging
- **Video Recording**:
- 1080p HD video recording
- Video stabilization
- Face detection
- Tap to focus while recording
- Backside illumination

Wireless
- 802.11a/b/g/n Wi-Fi (802.11n 2.4GHz and 5GHz), Bluetooth 4.0 wireless technology
- Model A1459: GSM/EDGE (850, 900, 1800, 1900 MHz), UMTS/HSPA+/DC-HSDPA (850, 900, 1900, 2100 MHz), LTE (Bands 4 and 17)
- Model A1460: CDMA EV-DO Rev. A and Rev. B (800, 1900, 2100 MHz),GSM/EDGE (850, 900, 1800, 1900 MHz),UMTS/HSPA+/DC-HSDPA (850, 900, 1900, 2100 MHz), LTE (Bands 1, 3, 5, 13, 25), Data only[3]

TV and Video
- AirPlay video streaming to Apple TV (3rd generation) at up to 1080p and Apple TV (2nd generation) at up to 720p
- Video mirroring and video out support: Up to 720p through Lightning Digital AV Adapter and Lightning to VGA Adapter; video playback up to 1080p (adapters sold separately)
- Video formats supported: H.264 video up to 1080p, 30 frames per second, High Profile level 4.1 with AAC-LC audio up to 160 Kbps, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; MPEG-4 video up to 2.5 Mbps, 640 by 480 pixels, 30 frames per second, Simple Profile with AAC-LC audio up to 160 Kbps per channel, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; Motion JPEG (M-JPEG) up to 35 Mbps, 1280 by 720 pixels, 30 frames per second, audio in ulaw, PCM stereo audio in .avi file format

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)

Languages
- Language support for English (U.S.), English (UK), Chinese (Simplified), Chinese (Traditional), French, German, Italian, Japanese, Korean, Spanish, Arabic, Catalan, Croatian, Czech, Danish, Dutch, Finnish, Greek, Hebrew, Hungarian, Indonesian, Malay, Norwegian, Polish, Portuguese, Portuguese (Brazil), Romanian, Russian, Slovak, Swedish, Thai, Turkish, Ukrainian, Vietnamese
- Keyboard support for English (U.S.), English (Australian), English (Canadian), English (UK), Chinese – Simplified (Handwriting, Pinyin, Stroke), Chinese – Traditional (Handwriting, Pinyin, Zhuyin, Cangjie, Stroke), French, French (Canadian), French (Switzerland), German (Germany), German (Switzerland), Italian, Japanese (Romaji, Kana), Korean, Spanish, Arabic, Bulgarian, Catalan, Cherokee, Croatian, Czech, Danish, Dutch, Emoji, Estonian, Finnish, Flemish, Greek, Hawaiian, Hebrew, Hindi, Hungarian, Icelandic, Indonesian, Latvian, Lithuanian, Macedonian, Malay, Norwegian, Polish, Portuguese (Portugal), Portuguese (Brazil), Romanian, Russian, Serbian (Cyrillic/Latin), Slovak, Swedish, Thai, Tibetan, Turkish, Ukrainian, Vietnamese
- Dictionary support (enables predictive text and autocorrect) for English (U.S.), English (Australian), English (Canadian), English (UK), Chinese – Simplified (Handwriting, Pinyin, Stroke), Chinese – Traditional (Handwriting, Pinyin, Zhuyin, Cangjie, Stroke), French, French (Canadian), French (Switzerland), German (Germany), German (Switzerland), Italian, Japanese (Romaji, Kana), Korean, Spanish, Arabic, Bulgarian, Catalan, Cherokee, Croatian, Czech, Danish, Dutch, Estonian, Finnish, Flemish, Greek, Hawaiian, Hebrew, Hindi, Hungarian, Icelandic, Indonesian, Latvian, Lithuanian, Macedonian, Malay, Norwegian, Polish, Portuguese (Portugal), Portuguese (Brazil), Romanian, Russian, Serbian (Cyrillic/Latin), Slovak, Swedish, Thai, Turkish, Ukrainian, Vietnamese
- Siri language support for English (U.S., UK, Canada, Australia), Spanish (U.S., Mexico, Spain), French (France, Canada, Switzerland), German (Germany, Switzerland), Italian (Italy, Switzerland), Japanese, Korean, Mandarin (Mainland China, Taiwan), Cantonese (Hong Kong)

Location
- Assisted GPS and GLONASS
- Cellular
- Digital compass
- Wi-Fi

Accessibility
- VoiceOver screen reader
- Guided Access
- Support for playback of closed-captioned content
- AssistiveTouch interface for adaptive accessories
- Full-screen zoom magnification
- Large text
- Option to invert colors
- Left/right volume adjustment

Size and weight
- Height: 9.50 inches (241.2 mm)
- Width: 7.31 inches (185.7 mm)
- Depth: 0.37 inch (9.4 mm)
- Weight: 1.46 pound (662 g)[4]

System Requirements

- Apple ID (required for some features)
- Internet access[5]
- Syncing with iTunes on a Mac or PC requires:
  - Mac: OS X v10.6.8 or later
  - PC: Windows 7: Windows Vista; or Windows XP Home or Professional with Service Pack 3 or later
  - iTunes 10.7 or later (free download from www.apple.com/itunes/download)[5]

Environmental Requirements

Operating ambient temperature: 32° to 95° F (0° to 35° C), Nonoperating temperature: -4° to 113° F (-20° to 45° C), and Relative humidity: 5% to 95% non-condensing.
iPad embodies Apple's continuing environmental progress. It is designed with the following features to reduce environmental impact:

- Mercury-free LCD display
- Arsenic-free display glass
- BFR-free
- PVC-free
- Recyclable aluminum enclosure

1. Testing conducted by Apple in October 2012 using preproduction iPad (4th generation) units and software. Testing consisted of full battery discharge while performing each of the following tasks: video playback, audio playback, and Internet browsing using Wi-Fi or cellular data network. Video content was a repeated 2-hour 23-minute movie purchased from the iTunes Store. Audio content was a playlist of 358 unique songs, consisting of a combination of songs imported from CDs using iTunes (128-Kbps AAC encoding) and songs purchased from the iTunes Store (256-Kbps AAC encoding). Internet over Wi-Fi and cellular data network tests were conducted using dedicated web and mail servers, browsing snapshot versions of 20 popular web pages, and receiving mail once an hour. All settings were default except: Wi-Fi was associated with a network (except for Internet browsing over cellular data network); the Wi-Fi feature Ask to Join Networks and Auto-Brightness were turned off. Battery life depends on device settings, usage, and many other factors. Battery tests are conducted using specific iPad units; actual results may vary.

2. FaceTime video calling requires a FaceTime-enabled device for the caller and recipient and a Wi-Fi connection. Availability over a cellular network depends on carrier policies; data charges may apply.

3. Cellular data plan is sold separately. The model you purchase is configured to work with a particular cellular network technology. Check with your carrier for compatibility and cellular data plan availability.

4. Actual size and weight vary by configuration and manufacturing process.

5. Wireless broadband recommended; fees may apply.