

iPhone 4 Technical Specifications

Size and weight¹

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|---------|-------------------------------|
| Height: | 4.5 inches (115.2 mm) |
| Width: | 2.31 inches (58.6 mm) |
| Depth: | 0.37 inch (9.3 mm) |
| Weight: | 4.8 ounces (137 grams) |



Cellular and wireless

- UMTS/HSDPA/HSUPA (850, 900, 1900, 2100 MHz)
- GSM/EDGE (850, 900, 1800, 1900 MHz)
- 802.11b/g/n Wi-Fi (802.11n 2.4GHz only)
- Bluetooth 2.1 + EDR wireless technology

Location

- Assisted GPS
- Digital compass
- Wi-Fi
- Cellular

Power and battery²

- Built-in rechargeable lithium-ion battery
- Charging via USB to computer system or power adapter
- Talk time:
 - Up to 7 hours on 3G
 - Up to 14 hours on 2G
- Standby time: Up to 300 hours
- Internet use:
 - Up to 6 hours on 3G
 - Up to 10 hours on Wi-Fi
- Video playback: Up to 10 hours
- Audio playback: Up to 40 hours



Mac system requirements

- Mac computer with USB 2.0 port
- Mac OS X v10.5.8 or later
- iTunes 9.2 or later (free download from www.itunes.com/download)
- iTunes Store account
- Internet access

Capacity³

- 16GB or 32GB flash drive

Color

- White or black



Display

- Retina display
- 3.5-inch (diagonal) widescreen Multi-Touch display
- 960-by-640-pixel resolution at 326 ppi
- 800:1 contrast ratio (typical)
- Fingerprint-resistant oleophobic coating on front and back
- Support for display of multiple languages and characters simultaneously



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

TV and video

- Video formats supported: H.264 video up to 720p, 30 frames per second, Main Profile level 3.1 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
- Support for 1024 by 768 pixels with Dock Connector to VGA Adapter; 576p and 480p with

Camera, photos, and video

- Video recording, HD (720p) up to 30 frames per second with audio
- 5-megapixel still camera
- VGA-quality photos and video at up to 30 frames per second with the front camera
- Tap to focus video or still images
- LED flash
- Photo and video geotagging



External buttons and controls



Sensors

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

Connectors and input/output



Headphones

- Apple Earphones with Remote and Mic
- Frequency response: 20Hz to 20,000Hz
- Impedance: 32 ohms



Windows system requirements

- PC with USB 2.0 port
- Windows 7; Windows Vista; or Windows XP Home or Professional with Service Pack 3 or later
- iTunes 9.2 or later (free download from www.itunes.com/download)
- iTunes Store account
- Internet access

Apple Component AV Cable; 576i and 480i with Apple Composite AV Cable (cables sold separately)



Up is available on iTunes. *Up* © Disney/Pixar. All rights reserved.

Environmental requirements

- Operating 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
- Maximum operating altitude: 10,000 feet (3000 m)

Languages

- Language support for English (U.S.), English (UK), French (France), German, Traditional Chinese, Simplified Chinese, Dutch, Italian, Spanish, Portuguese (Brazil), Portuguese (Portugal), Danish, Swedish, Finnish, Norwegian, Korean, Japanese, Russian, Polish, Turkish, Ukrainian, Hungarian, Arabic, Thai, Czech, Greek, Hebrew, Indonesian, Malay, Romanian, Slovak, Croatian, Catalan, and Vietnamese
- Keyboard support for English (U.S.), English (UK), French (France), French (Canadian), French (Switzerland), German, Traditional Chinese (Handwriting, Pinyin, Zhuyin, Cangjie, Wubihua), Simplified Chinese (Handwriting, Pinyin, Wubihua), Dutch, Italian, Spanish, Portuguese (Brazil), Portuguese (Portugal), Danish, Swedish, Finnish, Norwegian, Korean, Japanese (Romaji), Japanese (Kana), Russian, Polish, Turkish, Ukrainian, Estonian, Hungarian, Icelandic, Lithuanian, Latvian, Flemish, Arabic, Thai, Czech, Greek, Hebrew, Indonesian, Malay, Romanian, Slovak, Croatian, Bulgarian, Serbian (Cyrillic/Latin), Catalan, and Vietnamese
- Dictionary support (enables predictive text and autocorrect) for English (U.S.), English (UK), French, German, Traditional Chinese, Simplified Chinese, Dutch, Italian, Spanish, Portuguese (Brazil), Portuguese (Portugal), Danish, Swedish, Finnish, Norwegian, Korean, Japanese (Romaji), Japanese (Kana), Russian, Polish, Turkish, Ukrainian, Hungarian, Lithuanian, Flemish, Arabic, Thai, Czech, Greek, Hebrew, Indonesian, Malaysian, Romanian, Slovak, Croatian, Catalan, and Vietnamese

In the box

- iPhone 4
- Apple Earphones with Remote and Mic
- Dock Connector to USB Cable
- USB Power Adapter
- Documentation



iPhone 4 embodies Apple's continuing environmental progress. It is designed with the following features to reduce environmental impact:

- PVC-free handset
- PVC-free headphones
- PVC-free USB cable
- Bromine-free printed circuit boards
- Mercury-free LCD display
- Arsenic-free display glass
- Majority of packaging made from post-consumer recycled fiberboard and biobased materials
- Power adapter outperforms strictest global energy efficiency standards

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)

Bumpers for iPhone 4

Dress up your iPhone 4 with a Bumper. Choose one of six colors — white, black, blue, green, orange, or pink — and slip it around the edge of your iPhone 4. With metal buttons for volume and power, two-tone colors, and a combination of rubber and molded plastic, Bumpers add a touch of style to any iPhone 4.



Accessories

Apple In-Ear Headphones with Remote and Mic

Engineered for extreme clarity and audio accuracy, these headphones let you hear musical details you've been missing.



Apple Earphones with Remote and Mic

These earbud headphones have convenient buttons that let you adjust volume and control music and video playback.



- Apple Dock Connector to USB Cable
- Apple Dock Connector to VGA Adapter
- iPhone TTY Adapter



MobileMe Subscription
With a MobileMe subscription, your email, calendar, and contacts stay up to date on



Apple USB Power Adapter
Use this ultracompact USB-based adapter to charge your iPhone whenever it's not connected to a computer.

- Apple Component AV Cable
- Apple Composite AV Cable
- AirPort Extreme Base Station
- Nike + iPod Sensor
- World Travel Adapter Kit

your iPhone and your computer — automatically. Lose your iPhone? MobileMe can help you find it and protect your privacy with Find My iPhone.

[Learn more about MobileMe](#)

[See more accessories in the Apple Online Store](#)

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1. Actual size and weight vary by configuration and manufacturing process.
 2. All battery claims depend on network configuration and many other factors; actual results will vary. Rechargeable batteries have a limited number of charge cycles and may eventually need to be replaced by an Apple service provider. See www.apple.com/batteries for more information. For more details of iPhone performance tests for talk time, standby time, Internet use over 3G, Internet use over Wi-Fi, video playback, and audio playback, see www.apple.com/iphone/battery.html.
 3. 1GB = 1 billion bytes; actual formatted capacity less.

iPhone 4 Design

Watch the video.



iOS 4 Software Update

Get the latest update and get 100+ new features.



Apps for iPhone

Explore thousands of apps that help you do even more with iPhone.



iPhone 4

Pre-order starts June 15.

Available June 24.



Some features, applications, and services are not available in all areas. See your carrier for details. Application availability and pricing are subject to change.

iPhone 4 is configured to work only with the wireless services provided by AT&T.