

Cisco IP Phone 7970G

Cisco® IP phones provide unmatched levels of integrated business capabilities and converged communications features beyond today's conventional voice systems, surpassing competitive offerings. As the market leader in IP telephony, Cisco Systems® continues to deliver unparalleled end-to-end data and true voice-over-IP (VoIP) solutions, offering the most complete, stylish, fully featured IP phone portfolio to enterprise and small- and mid-sized-business customers.

The Cisco IP Phone 7970G demonstrates the latest technology and advancements in VoIP telephony. It addresses not only the needs of the executive or major decision maker but also brings network data and applications to users without PCs. This state-of-the-art IP phone includes a backlit, high-resolution color touch-screen display for easy access to communication

information, timesaving applications, and feature usage. It also enables customers and developers to deliver more innovative and productivity-enhancing Extensible Markup Language (XML) applications to the display. Access to eight telephone lines (or combination of lines and direct access to telephony features), a high-quality hands-free speakerphone, a built-in headset connection, and in-line power support over Ethernet are included.

Cisco IP Phone 7970G Features

The Cisco IP Phone 7970G is dynamic and designed to grow with system capabilities. Features will keep pace with new changes via software updates to the phone's Flash memory. The phone provides many accessibility methods according to user preference.

The Cisco IP Phone 7970G does not require hands-on moves or changes. Users can simply pick up the phone and move to a new location anywhere on their network-without the help of a system administrator.

With both a color display and touch screen, the Cisco IP Phone 7970G delivers more powerful applications and network data to the desktop.

Cisco IP Phone 7970G





PRELIMINARY DATA SHEET



Messages

The message key provides direct access to voice mail.



Directories

The Cisco IP Phone 7970G identifies incoming messages and categorizes them on the screen. This allows users to quickly and effectively return calls using direct dial-back capability. The corporate directory integrates with the Lightweight Directory Access Protocol 3 (LDAP3) standard directory.



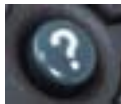
Settings

The settings key allows the user to adjust display contrast and select from a large number of ringer sounds and volume settings for all audio components such as ringer, handset, headset, and speaker. Network configuration preferences can also be set up (usually by the system administrator). Configuration can either be automatic or manually set up for Dynamic Host Control Protocol (DHCP), Trivial File Transfer Protocol (TFTP), Cisco CallManager software, and backup Cisco CallManager software.



Services

The Cisco IP Phone 7970G allows users to quickly access diverse information such as weather, stocks, quote of the day, or any Web-based information. The phone uses XML to provide a portal to an ever-growing world of features and information.



Help

The online help feature gives users information about the phone's keys, buttons, and features. The pixel display allows for greater viewing flexibility and significantly expands the information viewed when using features such as Services, Information, Messages, and Directory. For example, the Directory button can show local and server-based directory information.



Volume Control, Microphone Mute Button, and Speaker On/Off Button Speakerphone

The Cisco IP Phone 7970G features high-quality speakerphone technology. It also includes an easy-to-use speaker on/off button and microphone mute buttons. These buttons are lit when active. The convenient volume control button provides for easy decibel-level adjustments for the speakerphone, handset, headset, and ringer.



Stereo Jack Sockets

Located on the side of the Cisco IP Phone 7970G is a 3.5-millimeter (mm) stereo jack socket for connection to auxiliary speakers or headphones, and a second 3.5-mm stereo jack socket for connection to a stereo microphone. Note: auxiliary speakers, headphones, or microphones can only be used with external power adapters.



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Display Key

The display key provides easy access to previous “pages” or applications still open on the liquid crystal display (LCD).

Additional Features

The internal Cisco 2-port Ethernet switch allows for direct connections to a 10/100BASE-T Ethernet network via an RJ-45 interface with single LAN connectivity for both the phone and a collocated PC. The system administrator can designate separate VLANs (802.1Q) for the PC and Cisco IP phones, providing improved information security and voice and data reliability.

A dedicated headset port eliminates the need for a separate amplifier when using a headset. This allows the handset to remain in its cradle, simplifying headset use.

The handset is hearing aid compatible (HAC) and meets Federal Communications Commission (FCC) loudness requirements for the Americans with Disabilities Act (ADA). Section 508 loudness requirements can be achieved using industry-standard in-line handset amplifiers such as Walker Equipment W-10 or CE-100 amplifiers.

The dial pad is also ADA-compliant.

The foot-stand of the Cisco IP Phone 7970G is adjustable from flat to 60 degrees to provide optimum display viewing and comfortable use of all buttons and keys. The foot-stand is keyed to match standard wall-jack configurations for wall mounting. Two optional wall-mount brackets are also offered.

For the Cisco IP Phone 7970G to have full display brightness, the external power adapter is required. The Cisco IP Phone 7970G can receive power down the LAN from any of the Cisco in-line power-capable blades and boxes; however, the display screen is “half bright” and therefore is not the recommended mode of operation.

For added information security, the audible dual tone multifrequency (DTMF) tones are masked when the speakerphone mode is used.

Other Cisco IP Phone 7970G features include:

- 24+user-adjustable ring tones
- G.711 and G.729a audio compression
- An IP address assignment-DHCP client or statically configured
- Comfort noise generation and voice activity detection (VAD) programming on a system basis

Settings and Specifications

The Cisco IP Phone 7970G includes the following settings:

- Display contrast
- Ring type
- Network configuration
- Call status



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The phone specifications are as follows:

- Phone dimensions: 9.1 x 10.5 x 6 inches (23.1 x 26.67 x 15.24 centimeters [cm]) (height x width x depth)
- Screen dimensions: 3.38 x 4.5 inches (8.6 x 11.4 cm) (height x width)
- Phone weight: 3.6 pounds (1.8 kilograms [kg])
- Display resolution: 320 x 234, supporting a 12-bit color depth

Network Features

Network features for the Cisco IP Phone 7970G include the following:

- Cisco Discovery Protocol
- Automatic IEEE 802.1q (VLAN) configuration
- G.711a, G.711u, and G.729ab audio compression codecs
- Integrated Ethernet switch
- 10/100BASE-T Ethernet connection through an RJ-45 interface for LAN connectivity
- Software upgrade supported using a TFTP server
- Provisioning of network parameters through DHCP
- Voice activity detection, silence suppression, comfort-noise generation, and error concealment

Protocols Supported

The Cisco IP Phone 7970G is compatible with Cisco CallManager Version 3.3(3) and later, using the Skinny Client Control Protocol (SCCP).

Power Supply

Power should be supplied locally using an AC-to-48-VDC power adapter (CP-PWR-CUBE-2), which requires one of the following regional-specific cords:

- CP-PWR-CORD-NA (North America)
- CP-PWR-CORD-CE (Central Europe)
- CP-PWR-CORD-UK (United Kingdom)
- CP-PWR-CORD-AU (Australia)
- CP-PWR-CORD-JP (Japan)
- CP-PWR-CORD-AP (Asia Pacific)
- CP-PWR-CORD-AR (Argentina)
- CP-PWR-CORD-SW (Switzerland)

Temperature

The operating temperature should be 32°F to 104°F (0°C to 40°C).

The relative humidity is 10 percent to 95 percent (noncondensing).

Storage temperature is 14°F to 140°F (-10°C to 60°C)



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Certification

The Cisco IP Phone 7970G meets the following regulatory compliances:

- CE Marking
- Safety
 - Underwriters Laboratories (UL) 60950
 - Canadian Standards Association (CSA) C22.2 No. 60950
 - Electro-Magnetic Compatibility (EMC)
 - Federal Communications Commission (FCC) Part 15 (CFR 47) Class B
 - ICES-003 Class B
 - EN55022 Class B
 - CISPR22 Class B
 - AS/NZ 3548 Class B
 - VCCI Class B
 - EN55024
 - EN 50082-1
 - EN 61000-3-2
 - EN 61000-3-3
- Telecommunications
 - FCC Part 68 (CFR47) hearing aid compatible (HAC)
 - IC CS-03

Service and Support

Cisco IP Communications services and support reduce the cost, time, and complexity associated with implementing a converged network. Cisco and its partners have designed and deployed some of today's largest and most complex IP communications networks-meaning that they understand how to integrate an IP communications solution into any customer's network. Cisco design tools and best practices help ensure that the solution best fits specific business needs from the start, eliminating costly redesigns and downtime. Proven Cisco methods facilitate a sound implementation that will deliver the required functions and features-on time. Support services include remote network operations, network management tools to administer the converged application and network infrastructure, and technical support services.

Through these services, customers benefit from the experience gained by Cisco and its partners. Taking advantage of this valuable experience, customers can create and maintain a resilient, converged network to meet their business needs today-and in the future.

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Ordering Information

Table 1 lists part numbers for the Cisco IP Phone 7970G and Cisco CallManager.

Table 1 Cisco IP Phone 7970G and Cisco CallManager Part Numbers

Part Numbers	Description
CP-7970G	Cisco IP Phone 7970G hardware
SW-CCM-UL-7970	Station user license for Cisco CallManager
CP-PWR-CUBE-2	Cisco IP Phone 7970G power adapter
CP-LCKNG-WALLMOUNT=	Universal wall mount-locking
CP-WALLMOUNTKIT=	Universal wall mount-nonlocking

Cisco offers a standard 1-year warranty. An optional Cisco SMARTnet[®] service agreement is also available.

For More Information

For more information about Cisco products, please visit www.cisco.com or call:

- United States and Canada: (toll-free) 800 553-NETS (6387)
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