

Cisco TelePresence System 3210

The Cisco TelePresence™ portfolio creates an immersive, face-to-face experience over the network—empowering you to collaborate with others like never before.

Through a powerful combination of technologies and design that allows you and remote participants to feel as if you are all in the same room, the Cisco TelePresence portfolio has the potential to provide great productivity benefits and transform your business. Many organizations are already using it to control costs, make decisions faster, improve customer intimacy, scale scarce resources, and speed products to market.

The Cisco TelePresence portfolio comprises a complete family of endpoints to meet many types of meeting needs:

- The Cisco TelePresence System 500 is designed for 1 or 2 users, bringing the Cisco TelePresence virtual in-person experience directly into the private office.
- The Cisco TelePresence System 1000 is for small group meetings and one-on-one conversations.
- The Cisco TelePresence System 1100 is designed for small group meetings and one-on-one conversations in multipurpose conference rooms.
- The Cisco TelePresence System 1300 Series is designed for group meetings in multipurpose conference rooms.
- The Cisco TelePresence System 3010 and 3000 models are for business meetings with up to 6 participants per room.
- The Cisco TelePresence System 3210 and 3200 models are for large group meetings of up to 18 participants per room.

These endpoints work with the complete Cisco TelePresence portfolio for easy call scheduling and setup; scalable, zero-latency multipoint calls; secure intercompany communications; and a host of compelling collaboration applications that scale a variety of meeting types, high-definition (HD) broadcasting, and industrial applications.

This data sheet discusses the Cisco TelePresence System 3210 (Figure 1).

Figure 1. Cisco TelePresence System 3210



Product Overview

Cisco TelePresence systems combine life-size, ultra-high-definition video (1080p), spatial audio, a specially designed environment, and interactive elements to create the feeling of being “in person” with meeting participants in remote locations. This simple, easy-to-use solution allows you and other participants to communicate naturally and effectively.

For large, distributed organizations striving to succeed in today’s global economy, the Cisco TelePresence System 3210 brings the power of Cisco TelePresence technology to larger room venues. Ideal for headquarters sites or large regional offices, the system allows large teams to meet and collaborate virtually using this solution when many of the team members are in one physical location. With seating for up to 18 participants in a single room, the system delivers the same superior video and audio quality as the rest of the Cisco TelePresence portfolio. Applications for the Cisco TelePresence System 3210 include large team meetings, cross-functional team meetings, and training or classroom events. Cisco TelePresence systems can now scale to fit your organization’s wide range of meeting needs today and into the future.

Applications

The Cisco TelePresence System 3210 is ideal for large group meetings with many participants in a single location connecting to other satellite groups in remote locations. It provides an equal seat at the table for participants for applications such as operations reviews, status-update meetings, quarterly meetings with clients or partners, executive presentations, or meetings requiring staff to be present.

- **Large teams:** The seating capacity for up to 18 participants in a Cisco TelePresence System 3210 room allows the local team to meet in one room and use Cisco TelePresence technology to interact virtually with remote members of the team.
- **Cross-functional groups:** The extra seating capacity of a Cisco TelePresence System 3210 allows critical stakeholders from many organizations to participate in the Cisco TelePresence session. The attendance at many cross-functional meetings may vary widely, with many participants needed for critical decision points in a project. The extra capacity of a Cisco TelePresence System 3210 provides the flexibility needed for these events.

- **Training:** For corporate training and distance learning, the Cisco TelePresence System 3210 allows you to virtually bring in subject matter experts or guest lecturers from one or more remote locations. For such applications, the large room capacity of the Cisco TelePresence System 3210 along with the proven video and audio technology of the application brings the immersive, virtual meeting experience to larger venues and larger audiences.

Features and Benefits

The Cisco TelePresence System 3210 integrates transparently with the rest of the Cisco TelePresence portfolio to offer the same high-quality Cisco TelePresence experience, including:

- The Cisco TelePresence System 3210 (part number CTS-3210) consumes less power than the Cisco TelePresence System 3200 (CTS-3200).
- The Cisco TelePresence System 3210 provides an improved data-share experience over the Cisco TelePresence System 3200.
- Specially designed, high-definition cameras provide high-quality, high-definition images, with excellent eye contact and no user operation required.
- Full-duplex, CD-quality audio provides a rich audio experience with no perceivable latency and no interference from mobile devices or cell phones.
- The system offers optimized lighting and audio quality.
- Integration with common enterprise calendaring programs offers easy and automated call start and controls—you just push a button.
- Impromptu meetings allow you to meet “in person” anywhere there is a Cisco TelePresence endpoint at a moment’s notice—with just a phone call.
- Integration with the network helps ensure reliability with high availability, security, and quality of service (QoS) for an optimal experience. Highly secure communications are enabled through encryption of both video and call signaling.
- Secure and reliable inter- and intracompany calling between your organization and any other, including with public Cisco TelePresence suites, is possible.

In addition to the benefits of the Cisco TelePresence System 3010 design, the Cisco TelePresence System 3210 offers the innovative features and benefits listed in Table 1.

Table 1. Cisco TelePresence System 3210 Features and Benefits

Feature	Description
Seating capacity for up to 18 active participants	Larger teams can more effectively and comfortably use the Cisco TelePresence solution for virtual meetings and collaboration.
Excellent audio and video quality, even for second-row participants	All of the facial expressions and visual cues needed to really participate in a meeting are clear. The audio clarity, overtones, and nuances make you feel like everyone is in the same room. The system delivers the same-quality virtual in-room experience as the Cisco TelePresence System 3000.
Power and Ethernet connections for all participants	Participants can use their laptops to access critical data for the meeting, join a Cisco MeetingPlace® or Cisco WebEx™ session, or stay in touch and productive throughout the meeting.
Connections for up to three additional graphics displays	You can show the data or graphics content from the meeting in multiple locations in the room for meeting participants’ convenience.
Room for 10 or more additional seats along the back wall	The system offers extra capacity for spectators, note takers, or overflow. Others who may have limited or no active role in the meeting can listen to and see the meeting. (This option requires a room larger than the minimum depth dimensions.)
Use of existing conference rooms; no risers are required for second seating row	You can install a Cisco TelePresence System 3210 in an existing conference room with a minimum of room reconfiguration, making the room more of a conference room and less of a “stadium”. Two-table second-row options are available, accommodating either 14 or 18 meeting participants in the room.

Upgrade kit available for Cisco TelePresence 30x0 rooms	You can convert a Cisco TelePresence System 30x0 room to a Cisco TelePresence System 3210 room in any room with Cisco TelePresence System 3210 dimensions (8 ft H x 31 ft W x 23 ft D [2.4 x 9.4 x 7.0m] for the 12-person table and 8 ft H x 24 ft W x 23 ft D [2.4 x 7.3 x 7.0m] for the 8-person table) or move an existing Cisco TelePresence System 30x0 to a larger room.
Upgrade kit available for Cisco TelePresence 3200 rooms	You can convert a Cisco TelePresence System 3200 room to a Cisco TelePresence System 3210 room to take advantage of the improved data display experience.

Table 2 lists the overall features and benefits of the Cisco TelePresence portfolio.

Table 2. Cisco TelePresence Portfolio Features and Benefits

Feature	Description
Any-to-any interoperability support	Cisco TelePresence systems can interoperate with standards-based H.323 video conferencing systems and other high-definition endpoints. In addition to protecting existing investments, interoperability dramatically expands the number of video conferencing endpoints that can communicate with a Cisco TelePresence system.
Audio codec support	G.711 and advanced audio coding with low delay (AAC-LD) audio compression codecs are available.
Cisco TelePresence Auto Collaborate	This Cisco innovation allows people in all rooms to instantly see and share information or objects with others by simply plugging in a device such as a laptop computer or the integrated optional high-definition document camera. An optional presentation codec is dedicated to the data channel to provide full-motion (30-fps) graphics and multimedia content on the Cisco TelePresence Auto-Collaborate data channel.
Cisco TelePresence Event Controls	Through a web interface, event managers can control the flow of an event produced with a Cisco TelePresence system—providing a cost-effective way to reach wide audiences with spectacular and compelling results.
Cisco TelePresence Expert on Demand support	You can integrate Cisco TelePresence systems with Cisco® Unified Communications and Cisco Unified Contact Center to deliver high-touch customer service and point-of-sale services.
Cisco TelePresence Extended Reach	An optimized 720p Cisco TelePresence mode provides wide-area bandwidth connections as low as 1.5-Mbps (T1/E1) speeds. The system maintains latency and packet loss while providing constrained bandwidth options for remote-office or telecommuter deployments.
Cisco TelePresence Recording Studio	Cisco TelePresence Recording Studio transforms Cisco TelePresence units into high-definition recording studios. Using an intuitive user interface on your existing Cisco TelePresence IP Phone, you can record high-quality video to deliver rich, immersive messages for internal and external communications, training, crisis management, etc. Viewing and distributing video content is easy; you can replay recordings on Cisco TelePresence endpoints or on standard browser-based players.
Cisco TelePresence WebEx Engage	Cisco TelePresence WebEx Engage extends Cisco TelePresence meetings to Cisco WebEx users. This solution offers unified scheduling and “one-button-to-push” meeting start, and it combines audio- and data-sharing capabilities. Remote attendees join through the Cisco WebEx Meeting Center and receive video from the Cisco TelePresence system. This integration improves user experience, making meetings easier and more productive.
Configuration options	You can statically configure IP address assignment or configure it through the Cisco TelePresence administrator web interface.
Dialing buttons	These buttons allow for convenient manual or address-book dialing.
Directories	Integration into the Cisco Unified Communications Manager general directory service provides a search function for thousands of directory entries.
Document camera controls	Software controls for the optional document camera have been incorporated into the Cisco TelePresence user interface on the Cisco IP Phone, providing for a more tightly integrated solution and more natural user controls.
Encryption	The Cisco TelePresence system supports full media and signaling encryption with no discernable latency to the Cisco TelePresence call for up to 48 segments. In addition, Cisco TelePresence meetings can be designated as nonsecure, secure best effort, and always secure. Meeting encryption status is indicated on-screen at the start of a call or when it changes, and on the phone at all times.
Gigabit Ethernet switch	The internal Cisco Gigabit Ethernet switch allows for a direct connection to a 10/100/1000BASE-T Ethernet network through an RJ-45 interface with single LAN connectivity for both the Cisco TelePresence system and a co-located Cisco Unified IP Phone 7975G and Ethernet-attached PC. The system administrator can designate separate VLANs (802.1Q) for the PC and Cisco IP Phones, providing improved security and reliability of voice and data traffic.
Multipoint support	Cisco TelePresence systems can participate in multipoint meetings by using the Cisco TelePresence Multipoint Switch.
Mute and hold	The Cisco TelePresence system supports mute and hold functions. The mute feature has an on-screen mute indicator to alert participants that the mute feature was activated on the Cisco TelePresence microphone, causing all microphones to be simultaneously muted in remote rooms. The Hold/Resume button toggles the video and audio mute features and allows you to place Cisco TelePresence systems on hold for privacy.
Network-adaptive bandwidth usage	The solution supports 720p or 1080p resolutions with three quality levels to optimize network bandwidth consumption. The Cisco TelePresence system can operate at several different bandwidth levels ranging from 2 to 5 Mbps for configurable, variable bandwidth consumption, maximizing the Cisco TelePresence experience while preserving frame rate and low latency and reducing packet loss. The solution is supported by all existing install, deployment, and operation services.

Power over Ethernet (PoE) power for high-definition cameras and Cisco Unified IP Phone 7975G	The Cisco high-definition cameras and Cisco Unified IP Phone 7975G receive power down the LAN from the Cisco IEEE 803.3af PoE switch incorporated into the Cisco TelePresence codec.
Settings	The web-based interface allows administrators to securely log in to the system to make configuration changes to the Cisco TelePresence systems.
Signaling protocol support	The Cisco TelePresence system supports Session Initiation Protocol (SIP) on Cisco Unified Communications Manager.
Speed dial	The Cisco TelePresence system allows up to 40 favorites entries for convenient speed dialing.
System lighting	The solution includes an integrated lighting assembly to eliminate facial shadows and provide natural-looking video without harsh studio lighting or makeup. You can configure the integrated lighting assembly of the Cisco TelePresence system to turn on or off with a Cisco TelePresence call or with normal working hours. This feature reduces power consumption and provides a “greener” overall solution.
U.S. Section 508 features	The dial pad on the Cisco Unified IP Phone 7975G conforms to U.S. Section 508 guidelines. The 5-key dial pad has a raised nib that provides a tactilely discernible home key. To access more accessibility features, you can obtain the U.S. 508 Voluntary Product Accessibility Template (VPAT) at the following URL: http://www.cisco.com/go/accessibility .
Volume control	The convenient Volume Control button on the phone softkey menu provides for easy volume adjustments.

Product Specifications

Tables 3 through 5 list specifications and Table 6 gives temperature ratings for the Cisco TelePresence System 3210.

Table 3. Product Specifications

Specification	Description
Product compatibility	<ul style="list-style-type: none"> • Cisco TelePresence System 500 with Cisco TelePresence System Software 1.4 or later • Cisco TelePresence System 1000 with Cisco TelePresence System Software 1.4 or later • Cisco TelePresence System 1100 with Cisco TelePresence System Software 1.5 or later • Cisco TelePresence System 1300 Series with Cisco TelePresence System Software 1.5 or later • Cisco TelePresence System 3000 with Cisco TelePresence System Software 1.4 or later • Cisco TelePresence System 3010 with Cisco TelePresence System Software 1.6 or later • Cisco TelePresence System 3210 with Cisco TelePresence System Software 1.6 or later • Cisco Unified Communications Manager V7.0(2a) SU2 or later • Cisco TelePresence Multipoint Switch 1.0 or later • Cisco TelePresence Manager 1.6 or later
Software compatibility	Cisco TelePresence System Software 1.6 or later
Protocols	Cisco Discovery Protocol, SIP, IP, Dynamic Host Configuration Protocol (DHCP), Secure Shell (SSH) Protocol, 802.1p/q, and Real-Time Transport Protocol (RTP)
Connectivity	Ethernet (1 LAN, RJ-45 connection: 100/1000m), internal 4-port Ethernet switch, and high-definition video connector
Programming interfaces	Web-based user interface; you can configure IP address assignment statically or through the Cisco TelePresence administrator web interface
Physical dimensions (H x W x D)	8 x 24 x 23 ft (2.4 x 7.3 x 7.0m) minimum room dimensions for reduced back-row table configuration (total room capacity of 14 participants); dimensions for the 12-person second-row table are 8 x 31 x 23 ft (2.4 x 9.4 x 7.0m) Note that higher ceilings may be required to mount an optional data display. Contact your Cisco Authorized Technology Provider (ATP) partner for data display options and mounting options.
Weight	Approximately 2595 lb (1177 kg; freight weight)
Power	3222W (26.9A @ 120V to 13.43A @ 240V maximum) (system only—does not account for participant devices)
Total typical heat dissipation*	8892 BTU/hr (system only—does not account for participant devices)

*Typical accounts for a diversity of power consumption at 75 percent of maximum.

Table 4. Video and Audio Specifications

Specification	Description
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Bandwidth consumption	15.3 Mbps (1080p, best motion handling) or 9.0 Mbps (720p, best motion handling) for IP QoS connections recommended; 19.8 Mbps (1080p best) or 13.5 Mbps (720p best) when including at 30-fps presentation codec Note that the bandwidth recommendations for the Cisco TelePresence 3210 are identical to those for the Cisco TelePresence 3000.
Video standards	H.264
Video frame rate	30 frames per second using H.264
Data and graphics frame rate	<ul style="list-style-type: none"> • Graphics sharing at 5 frames per second (standard configuration) • Optional graphics sharing at 30 frames per second using a dedicated presentation codec
Native National Television Standards Committee (NTSC)	720p and 1080p
Resolution	1920 x 1080 native
Audio standards	G.711 and AAC-LD (22 kHz)
Audio features	Cisco Dynamic Echo Cancellation for spatial audio
Cisco TelePresence High-Definition Camera	<ul style="list-style-type: none"> • CMOS 2/3-inch sensor • C-mount lens • 1080p 30 • Minimum illumination 300 lux • Manual focus

Table 5. Additional Specifications

Specification	Description
Firmware upgrades	Downloadable from Cisco Unified Communications Manager
Video network features	Intelligent packet loss recovery of video transmission
Network interface	<ul style="list-style-type: none"> • 1 LAN or Ethernet (RJ-45); 100/1000 Mbps • Internal 4-port Ethernet switch with 2 PoE (IEEE 802.3af) ports on codec

Table 6. Temperature Ratings

Temperature	Description
Conference-room operating temperature	41 to 86°F (5 to 30°C)
Relative humidity	10 to 95% (noncondensing)

Regulatory Compliance

- CE marking
- UL/CSA/IEC/EN/AS/NZS/ 60950
- FCC Part 15 Class A
- CISPR22/EN55022 Class A
- EN55024

Ordering Information

To place an order, visit the [Cisco Ordering Home Page](#) and refer to Table 7.

Table 7. Ordering Information

Product Name	Part Number
Cisco TelePresence System 3210	CTS-3210
Ordering Options for the CTS-3210	
Power Cords	Select the appropriate power cord option to plug into the wall outlets in the country where the TelePresence system will be deployed.

Laptop Connectivity Modules	Select the appropriate connectivity modules based on the country where the TelePresence system will be deployed. These modules allow participants to plug their laptop PCs or other portable electronic devices into power outlets integrated into the system table legs.
Presentation Codec	CTS-HFR-COLLAB This is a chargeable option to add a dedicated presentation codec to enable high frame rate Auto Collaboration.

Service and Support

Cisco and our partners provide a broad portfolio of intelligent, personalized services and support that can help you realize the full value of your Cisco TelePresence investment by increasing business agility and network availability. This portfolio of services accelerates business innovation through a network-based collaboration platform that enables businesses to collaborate anywhere, any time. For more information about these services, visit:

<http://www.cisco.com/go/telepresenceservices>.



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