

Cisco TelePresence System EX Series

Figure 1. Personal TelePresence with the Cisco TelePresence System EX90



Product Overview

The Cisco TelePresence™ System EX Series transforms the workplace by combining work, communications, and collaboration - all on the desktop with just the touch of a finger. Colleagues can instantly work together whether they are separated by a hallway, a street, or several time zones. As part of the EX Series, the Cisco TelePresence System EX90 (EX90) and Cisco TelePresence System EX60 (EX60) support vivid, lifelike 1080p30 video, natural collaboration, and the simplicity of a touch screen interface for a complete solution that helps ensure conversations are more productive.

The Cisco TelePresence System EX Series is an all-in-one tool that streamlines the desktop so you can fluidly move from individual work on your laptop to a quick video call with a colleague, to problem-solving over shared spreadsheets. The EX90 is designed for the team leader or manager for immediate presence with customers, partners, and employees. With the EX60, you can share the power of telepresence throughout the organization, designed especially for the knowledge worker or individual contributor.

The Cisco TelePresence System EX60 is part of the broad portfolio of Cisco TelePresence systems offering immersive, multipurpose, and personal endpoints to meet the needs of organizations of all sizes. Cisco TelePresence technology powers the new way of working where everyone, everywhere can be more productive through face-to-face collaboration.

Figure 2. Personal TelePresence with Cisco TelePresence System EX60



Features and Benefits

- Video resolutions of 1080p30 and 720p60 bring the Cisco TelePresence experience to the desk.
- A high-quality PC screen with clear high definition resolution enables a transparent, one-tool device to work, meet, and collaborate.
- The 8-inch Cisco TelePresence touch screen interface allows for simple control.
- Collaboration is natural with high definition content sharing, transparent one-touch sharing of high-definition (HD) content, and a built-in document camera feature.
- A Cisco TelePresence PrecisionHD camera enables video clarity and optimal F1.7, 45-65° or 50° field of view.
- H.323 and Session Initiation Protocol (SIP) with bandwidth up to 6 Mbps point-to-point provide the possibility to establish calls with very high quality.
- Dual front speakers provide for superior audio, even including an integrated subwoofer on the EX90
- A wideband handset is included; you also can add a headset input for privacy.
- The EX60 is wall-mountable with select VESA brackets.
- The EX90 supports embedded MultiSite which brings together up to four locations into one call. Dual display capability (HDMI out) is also available on the EX90 to enable a second display that can be dedicated to content.
- The system is standards-based for immediate connectivity to anyone regardless of system, from PC video to immersive telepresence, to a meeting room around the globe.

Product Specifications

Table 1 lists the physical specifications; Table 2 gives video and audio specifications; and Table 3 gives network, security, and management specifications of the Cisco TelePresence System EX Series.

Table 1. Product Specifications

Product compatibility	Fully compatible with standards-compliant telepresence and video systems
Software	Cisco TelePresence Software Version TC4.0 or later

compatibility		
Components	Fully integrated unit including: <ul style="list-style-type: none"> • Codec • Display • Camera • Microphone and loudspeakers • Cables including: DVI-I-to-VGA cable, DVI-D cable, 3.5-mm jack audio cable, LAN cable, power adapter, and power cable 	
Display	<ul style="list-style-type: none"> • EX90 • 24-in. LCD monitor • Resolution: 1920 x 1200 (16:9) • Contrast ratio: 1000:1 • Viewing angle: 160° • Response time: 5 ms • Brightness: 300cd/m2 • 5°- 15° tilt 	<ul style="list-style-type: none"> • EX60 • 21.5-in. LCD monitor (with LED backlight) • Resolution: 1920 x 1080 (16:9) • Contrast ratio: 1000:1 • Viewing angle: 170° • Response time: 5 ms • Brightness: 225cd/m2
PC and second-source video input	DVI-I EX90: HDMI In.	
Supported PC input resolutions	EX90: SVGA (800 x 600) to WUXGA (1920 x 1200) EX60: SVGA (800 x 600) to 1080p (1920 x 1080)	
Camera	<ul style="list-style-type: none"> • Cisco TelePresence PrecisionHD design • Resolutions: 1080p30 and 720p60 • Auto focus • Integrated privacy shutter • Document camera mode • Multicoated all-glass optics • 1/3-in., 2.1 megapixel CMOS sensor 	EX90 <ul style="list-style-type: none"> • Horizontal field of view: 45°-65° • Vertical field of view: 40°-27° • Focus distance 0.3-infinity • Optical, motorized zoom EX60 <ul style="list-style-type: none"> • Horizontal field of view: 50° • Vertical field of view: 29° • Focus distance 0.1-infinity
Audio system	<ul style="list-style-type: none"> • Two stereo front speakers • Integrated full-range microphone • One 3.5-mm line-in jack for PC or other audio source • Two 3.5-mm jack for headset • Wideband handset • Bluetooth-ready 	<ul style="list-style-type: none"> • Integrated subwoofer (EX90 only) • Support for Performance Mic 20 (EX90 only) • HDMI audio input/output (EX90 only)
User interface	Cisco TelePresence touch screen <ul style="list-style-type: none"> • Eight-inch projected capacitive touch screen • Resolution: 480 x 800 	
Language support	English	
Physical dimensions (H x L x D)	Cisco TelePresence System EX90 main unit: 21.4 x 22.3 x 6.8 in. (54.5 x 56.7 x 17.3 cm) Cisco TelePresence System EX60 main unit: 20.0 x 20.5 x 5.4 in. (50.8 x 52 x 13.8 cm)	<ul style="list-style-type: none"> • Cisco TelePresence touch screen: 1.7 x 9.0 x 5.7 in. (4.4 x 22.8 x 14.5 cm) • Cisco TelePresence touch screen with headset: 3.0 x 11.4 x 7.4 in. (4.4 x 22.8 x 14.5 cm) • Cable length: 47 in. (120 cm)
Weight	Cisco TelePresence System EX90 main unit: 24.2 lb (11.0 kg) Cisco TelePresence System EX60 main unit: 12.9 lb (5.85 kg)	<ul style="list-style-type: none"> • Cisco TelePresence touch screen: 1.4 lb (0.64). • Cisco TelePresence touch screen with handset: 2.1 lb (0.94 kg)
Power	Autosensing power supply 100-240 VAC, 50/60 Hz EX90: 150 watts max EX60: 75 watts max	
Temperature range	Operating temperature and humidity: <ul style="list-style-type: none"> • Ambient temperature: 32 to 95°F (0 to 35°C) • Relative humidity (RH): 10 to 90% • Storage and transport temperature at RH 10-90% (noncondensing): -4 to 140°F (-20 to 60°C) 	

Approvals and compliance	<ul style="list-style-type: none"> • Directive 2006/95/EC (Low-Voltage Directive) - Standard EN 60950-1 • Directive 2004/108/EC (EMC Directive) - Standard EN 55022, Class A - Standard EN 55024 - Standard EN 61000-3-2/-3-3 • Approved according to UL 60950-1 and CSA 60950-1-07 • Complies with FCC15B Class A
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Table 2. Video and Audio Specifications

Bandwidth	H.323/SIP up to 6 Mbps point-to-point	
Video standards	<ul style="list-style-type: none"> • H.261 • H.263 • H.263+ • H.264 	
Video features	<ul style="list-style-type: none"> • Widescreen: 16:9 • Advanced screen layouts • Intelligent video management • Local auto layout 	
Live video resolutions (encode/decode)	<ul style="list-style-type: none"> • 176 x 144@30 fps (QCIF) • 352 x 288@30 fps (CIF) • 512 x 288@30 fps (w288p) • 576 x 448@30 fps (448p) • 768 x 448@30 fps (w448p) • 704 x 576@30 fps (4CIF) • 1024 x 576@30 fps (w576p) • 640 x 480@30 fps (VGA) • 800 x 600@30 fps (SVGA) • 1024 x 768@30 fps (XGA) • 1280 x 1024@30 fps (SXGA) • 1280 x 720@30 fps (720p30) 	<ul style="list-style-type: none"> • 1280 x 768@30 fps (WXGA) • 1920 x 1080@30 fps (1080p30)* • 1440 x 900@30 fps (WXGA+)* • 1680 x 1050@30 fps (WSXGA+)* • 1600 x 1200@30 fps (UXGA)* • 512 x 288@60 fps (w288p60)* • 768 x 448@60 fps (w448p60)* • 1024x576@60 fps (w576p60)* • 1280x720@60 fps (720p60) <p>* Requires premium resolution option</p>
Audio standards	<ul style="list-style-type: none"> • G.711 • G.722 • G.722.1 • 64/128 kbps MPEG4 AAC-LD • AAC-LD stereo 	
Audio features	<ul style="list-style-type: none"> • CD-quality 20-kHz stereo • Acoustic echo canceling • Automatic gain control • Automatic noise reduction • Active lip synchronization 	
Dual stream	<ul style="list-style-type: none"> • H.239 (H.323) dual stream • BFCP (SIP) dual stream • EX90 supports resolutions up to 1080p in both main stream and dual stream simultaneously • EX60 supports resolutions up to 720p in both main stream and dual stream simultaneously 	

Table 3. Network, Security and Management Specifications

Protocols	<ul style="list-style-type: none"> • H.323 • SIP
Network interfaces	<ul style="list-style-type: none"> • Internal 2-port Ethernet switch • One LAN/Ethernet (RJ-45) 10/100/1000 Mbps for PC • One LAN/Ethernet (RJ-45) 10/100/1000 Mbps for LAN
Other interfaces	<ul style="list-style-type: none"> • Bluetooth for future applications • Two USB device for future applications (EX90) • One USB device for future applications (EX60)
IP network features	<ul style="list-style-type: none"> • Domain Name System (DNS) lookup for service configuration • Differentiated Services (QoS) • IP adaptive bandwidth management (including flow control) • Auto gatekeeper discovery • Dynamic playout and lip-sync buffering

	<ul style="list-style-type: none"> • H.245 DTMF tones in H.323 • Date and time support with Network Time Protocol (NTP) • Packet loss-based downspeeding • DNS-based URI dialing • TCP/IP • Dynamic Host Configuration Protocol (DHCP) • IEEE 802.1x network authentication • IEEE 802.1q VLAN
Firewall traversal	<ul style="list-style-type: none"> • Cisco TelePresence Expressway Technology • H.460.18 and H.460.19 Firewall Traversal
Embedded encryption	<ul style="list-style-type: none"> • H.323/SIP point-to-point • Standards-based: H.235 v2 and v3 and Advanced Encryption Standard (AES) • Automatic key generation and exchange • Supported in dual stream
Security features	<ul style="list-style-type: none"> • Management via Secure HTTP (HTTPS) and Secure Shell (SSH) Protocol • IP administration password • Menu administration password • Disable IP services • Network settings protection
MultiSite	<p>EX90 only</p> <ul style="list-style-type: none"> • 4-way 720p30 Continuous Presence (CP) MultiSite • Full individual audio and video transcoding • Individual layouts for each participant (CP layout without self view) • H.323/SIP/VoIP in the same conference • Best Impression (Automatic CP layouts) • H.264, encryption and dual stream from any site • IP downspeeding • Dial In/Dial out
System management	<ul style="list-style-type: none"> • Support for the Cisco TelePresence Management Suite • Total management through embedded Simple Network Management Protocol (SNMP), Telnet, SSH, XML, and Simple Object Access Protocol (SOAP) • Remote software upload: Through web server, Secure Copy Protocol, HTTP, and HTTPS
Directory services	<ul style="list-style-type: none"> • Support for local directories (My Contacts) • Corporate directory • Unlimited entries using server directory supporting • Lightweight Directory Access Protocol (LDAP) and H.350 • Unlimited number for corporate directory (available with Cisco TelePresence Management Suite Local directory: 200 numbers) • Received calls • Placed calls • Missed calls with date and time

Ordering Information

To place an order, please contact your Cisco Representative.

Table 4. Ordering Information

Product Name	Part Number
Cisco TelePresence System EX90	117500
EX90 Dual Display Option	117505DD
EX90 MultiSite Option	117505MS
EX90 Premium Resolution Option	117505PR
Cisco TelePresence System EX60	119300
EX60 Premium Resolution Option	140142PR

Cisco Service and Support

Cisco and our partners provide a broad portfolio of smart, personalized services and support that can help you realize the full business value of your Cisco TelePresence investment by increasing business agility and network availability. This portfolio of services accelerates business innovation by harnessing the network as a powerful business platform. For more information about these services, visit: <http://www.cisco.com/go/telepresenceservices>.

For More Information

For more information about the Cisco TelePresence System EX Series, visit <http://www.cisco.com/go/telepresence> or contact your local Cisco account representative.



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