Cisco TelePresence MX300 G2

Product Overview

Bring customers, colleagues, and business partners from around the world to work together face-to-face in just about any room or space. The Cisco TelePresence® MX300 G2 (MX300 G2) makes it easy to put high-definition video collaboration within reach for everyone at your organization. It delivers ready-to-use simplicity and high quality - at value pricing. Part of the second generation of MX Series multipurpose endpoints, the MX300 G2 brings collaborative teams together at a moment's notice. So, you can save money on travel, make decisions faster, and be more productive and innovative.

The MX300 G2 features a sleek, new design that blends aesthetics, functionality and ease of use (Figure 1). New features such as dual display and an embedded four-way MultiSite conferencing option deliver more power and flexibility. A new Cisco TelePresence Touch 10 user interface offers a larger screen size and the most user-friendly experience to date. Rich 1080p60 high-definition (HD) performance lets people interact as naturally as if they were in the same room. It's a great way to enable your extended teams to work together whenever and wherever they want.

Cisco MX300 G2 systems are as easy to install as a television, and can be set up in about 8 minutes. They're priced for large-scale deployment, so you can quickly and easily transform any meeting space into a telepresence-enabled team room. Whether you are just getting started with video communications or are planning to video-enable your entire organization, the MX300 G2 can meet your needs.

Figure 1.   Cisco TelePresence MX300 G2 on Floor Stand

The Cisco TelePresence MX300 G2 reinvents the team meeting room experience. It offers the high-quality, easy-to-use telepresence experience that you have come to expect from Cisco, together with global service and price-performance that make broad deployment easier and more affordable than ever.

The Cisco TelePresence portfolio creates an in-person experience over the network - bridging time and space to enable team collaboration like never before. Through a powerful combination of technologies and design innovations, the Cisco TelePresence experience lets you and remote participants feel like you are all in the same room. And it gives you an opportunity to transform your business with productivity gains and process improvements. Many organizations are already using Cisco TelePresence systems to control costs, improve customer intimacy, scale scarce resources, and speed products to market.

Features and Benefits

Table 1 lists the features and benefits of the Cisco TelePresence MX300 G2.

Table 1.   Features and Benefits of Cisco TelePresence MX300 G2

Feature	Benefits
Design features	• Installs in minutes: The MX300 G2 is as easy to install as a TV, with a one-piece unit plus install configuration (floor stand, wheel base, and VESA wall mount). • Set-up is simple: The MX300 G2 self-configures with Cisco® Unified Communications Manager (UCM), Cisco TelePresence Video Communication Server (VCS), or Cisco WebEx Telepresence provisioning. Just authenticate your endpoint to the network to complete the setup. • Offers flexible camera features: Cisco TelePresence PrecisionHD Camera with pan, tilt, and zoom helps ensure optimal framing and video clarity. Its dedicated presets provide flexibility and easy viewing for any type of meeting. • Provides touch control: A 10-inch Cisco TelePresence Touch interface offers simple, intuitive control. Easy "one-button-to-push" (OBTP) calling integrates with common calendaring programs. • Offers crisp, clear video: High-quality 55-inch (1.4m) display delivers video resolutions of up to 1080p60 to let you bring the Cisco TelePresence experience to any team meeting room or corner office. • Provides high-fidelity sound: Front speakers provide superior, optimized audio. • Allows you to meet with anyone, anywhere: The standards-based MX300 G2 lets you collaborate with anyone regardless of system - from PC video, to immersive telepresence, to a meeting room around the globe. • Offers ability to connect and share: Collaborate naturally with 1080p PC content sharing with a touch of your finger. • Works the way you do: Search for your contacts in directories; create and store your own favorites; or manually dial out to other Cisco Unified Communications devices. You can connect through the network or through firewalls to any device (video or voice) or protocol.
Application features	• Share multimedia and presentations at the touch of a button. • The dual-display feature allows another screen to be added for content sharing. • High-definition content sharing up to 1080p30 resolution is possible. • You can start a meeting with the OBTP feature.
Performance features	• The system offers optimal definition up to 1080p60. • You can make H.323/Session Initiation Protocol (SIP) calls up to 6 Mbps. • Built-in individually transcoded multipoint conferencing lets you add three additional participants. • Provisioning and self-configuration are easy with Cisco UCM, Cisco TelePresence VCS, or Cisco WebEx® Telepresence. • The MX300 G2 takes advantage of the Cisco TelePresence Total Solution approach, including Cisco TelePresence Multiway features, recording and streaming, and firewall traversal services. • System is natively supported by Cisco UCM version 8.6 or later.

Product Specifications

Table 2 lists the product specifications; Table 3 gives video and audio specifications; Table 4 gives network, security, and management specifications; and Table 5 gives ordering information for the Cisco TelePresence MX300 G2.

Table 2.   Product Specifications

Product compatibility	Fully compatible with standards-compliant telepresence and video systems
Software compatibility	Cisco TelePresence MX300 G2 Cisco TelePresence Software Version TC 7.0 or later
Components	Fully integrated unit including: ● Codec ● Display ● Camera ● Integrated microphone and loudspeakers ● Cisco TelePresence Table Microphone 20 (two microphones are shipped with the MX300 G2) ● Cables including DVI-I-to-VGA cable, 3.5-mm jack audio cable, LAN cable, and power cable
Display	Cisco TelePresence MX300 G2: ● 55-in. (1.4m) LCD monitor ● Resolution: 1920 x 1080 (16:9) ● Contrast ratio: Typical 4000 ● Viewing angle: +/-178 deg ● Response time: Typical 8 ms ● Brightness: Typical 450 cd/m2
PC and second-source video input	● DVI-I ● HDMIx2
Supported PC input resolutions	SVGA (800 x 600) to 1080p (1920 x 1080)
Camera overview	Cisco TelePresence MX300 G2: ● 4x optical zoom (8x with digital[*]) ● Motorized +15°/-25° tilt, +/-90° pan ● 72° horizontal field of view ● 43.5° vertical field of view ● Resolutions: 1080p60 and 720p60 ● F 1.7 ● 1920 x 1080 pixels progressive @ 60 frames per second (fps) ● Automatic or manual focus, brightness, and white balance ● Far-end camera control ● Focus distance 0.98 ft (0.3m) to infinity
Audio system	● Integrated full-range speaker and base ● Integrated full-range microphone ● Support for two Cisco TelePresence Table Microphone 20 ● Mini jack PC audio input ● Mini jack audio output
User interface	Cisco TelePresence Touch 10 interface ● Projected capacitive touch screen ● Resolution: 1280 x 800
Language support	English

Physical dimensions (H x W x D)	Cisco TelePresence MX300 G2 main unit with: • Floor stand: 59.8 x 50.3 x 37.3 in. (1518 x 1278 x 761 mm) • Wall-mount: 37.3 x 50.3 x 8.5 in. (948 x 1278 x 180 mm) • Wheel base: 63.2 x 50.3 x 29.7in. (1605 x 1287 x 755 mm)
Weight	Cisco TelePresence MX300 G2 main unit with (all weight without packaging): • Floor stand: 108.7 lb (49.3kg) • Wall-mount: 84.9 lb (38.5 kg) • Wheel base: 96.1 lb (43.6kg) • Main unit only: 77.2 lb (35 kg)
Physical dimensions and weight of packaging (H x W x D)	Cisco TelePresence MX300 G2: • Main unit: 43 x 56 x 10in (1080 x 1430 x 260mm), 43.3kg • Floor stand: 31 x 43 x 10in (800 x 1080 x 260mm), 19.4kg • Floor stand, Back Cover: 56 x 9 x 5in 4lb, (1430 x 220 x 120mm, 2kg) • Wall mount Packaging: 11 x 12 x 33in 9lb, (290 x 310 x 840mm, 4kg) • Wheel base Packaging: 36 x 11 x 33in, 22ib, (920 x 270 x 830mm, 10kg)
Power	Autosensing power supply 100-240 VAC, 50-60 Hz Rated: 300W maximum Power consumption: 235W at maximum standardized configuration
Temperature range	Operating temperature and humidity: • Ambient temperature: 32 to 95℉ (0 to 35℃) • Relative humidity (RH): 10 to 90% • Storage and transport temperature at RH 10-90% (noncondensing): -4 to 140℉ (-20 to 60℃)
Approvals and compliance	• 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 • Compliance with FCC15B Class A

Table 3.   Video and Audio Specifications

Bandwidth	H.323 and SIP up to 6 Mbps point-to-point
Minimum bandwidth for resolution and frame rate	• 720p30 from 768 kbps • 720p60 from 1152 kbps • 1080p30 from 1472 kbps • 1080p60 from 2560 kbps
Video standards	• H.261 • H.263 • H.263+ • H.264
Video features	• Widescreen: 16:9 • Advanced screen layouts • Intelligent video management • Local auto-layout
Video inputs (two inputs)	One HDMI and one DVI-I (analog and digital): Supported formats: • 640 x 480 • 720 x 480 • 720 x 576 • 800 x 600 • 848 x 480 • 1024 x 768 • 1152 x 864 • 1280 x 720 • 1280 x 1024 • 1280 x 768

	• 1280 x 800 • 1280 x 960 • 1360 x 768 • 1366 x 768 • 1400 x 1050 • 1440 x 900 • 1680 x 1050 • 1920 x 1080 Extended Display Identification Data (EDID)	
Video outputs (one output)	One HDMI • 1920 x 1080 @ 60 fps (1080p60) • 1920 x 1080 @ 50 fps (1080p50) • 1280 x 720 @ 60 fps (720p60) • 1280 x 720 @ 50 fps (720p50) • 1366 x 768 @ 60 fps (WXGA) • 1360 x 768 @ 60 fps (WXGA) • 1280 x 768 @ 60 fps (WXGA) VESA Monitor Power Management EDID Live video resolutions (encode and decode): • 176 x 144 @ 30 or 60 fps (QCIF) (decode only) • 352 x 288 @ 30 or 60 fps (CIF) • 512 x 288 @ 30 or 60 fps (w288p) • 576 x 448 @ 30 or 60 fps (448p) • 768 x 448 @ 30 or 60 fps (w448p) • 704 x 576 @ 30 or 60 fps (4CIF) • 1024 x 576 @ 30 or 60 fps (w576p) • 640 x 480 @ 30 or 60 fps (VGA) • 800 x 600 @ 30 or 60 fps (SVGA) • 1024 x 768 @ 30 or 60 fps (XGA) • 1280 x 768 @ 30 or 60 fps (WXGA) • 1280 x 720 @ 30 or 60 fps (HD720p) • 1920 x 1080 @ 30 or 60 fps (HD1080p)	
Live video resolutions (encode/decode)	• 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)	• 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)[*] • 1024 x 576 @ 60 fps (w576p60)[*] • 1280 x 720 @ 60 fps (720p60) [*] Requires premium resolution option
Audio standards	• G.711 • G.722 • G.722.1 • 64- and 128-kbps AAC-LD	
Audio features	• CD-quality 20-KHz mono • Two acoustic echo cancellers • Automatic Gain Control (AGC) • Automatic noise reduction • Active lip synchronization	

Dual stream	• H.239 (H.323) dual stream
	• Binary Floor Control Protocol (BFCP) (SIP) dual stream
	• Support resolutions up to 1080p (1920 x 1080)
Multipoint support	• Four-way embedded SIP/H.323 multipoint reference MultiSite
	• Cisco TelePresence MultiWay support [requires Cisco VCS and Cisco TelePresence Multipoint Control Unit (MCU)]
	• Ability to natively join multipoint conferences hosted on Cisco TelePresence Multipoint Switch
Multisite features (embedded multipoint)	• Adaptive SIP/H.323 MultiSite; resolution up to 576p30
	• Three-way resolution up to 720p30
	• Four-way resolution up to 576p30
	• Full individual audio and video transcoding
	• Individual layouts in multisite continuous presence
	• H.323/SIP and voice over IP (VoIP) in the same conference
	• Support for presentation (H.239 and BFCP) from any participant at resolutions up to 1080p30/SXGA
	• Best impression (automatic continuous presence layouts)
	• H.264, encryption, and dual stream from any site
	• IP Downspeeding
	• Dial in and dial out
	• Conference rates up to 6 Mbps

Table 4.   Network, Security, and Management Specifications

Protocols	• H.323
	• SIP
Network interfaces	• One LAN or Ethernet (RJ-45) 10-/100-/1000-Mbps for LAN
Other interfaces	• Bluetooth for future applications
	• RJ-45 for service
IP network features	• Domain Name System (DNS) lookup for service configuration
	• Differentiated Services (quality of service [QoS])
	• IP adaptive bandwidth management (including flow control)
	• Auto-gatekeeper discovery
	• Dynamic playout and lip-sync buffering
	• H.245 dual-tone multifrequency (DTMF) tones in H.323
	• Date and time support with Network Time Protocol (NTP)
	• Packet-loss-based downspeeding
	• DNS-based Uniform Resource Identifier (URI) dialing
	• TCP/IP
	• Dynamic Host Configuration Protocol (DHCP)
	• IEEE 802.1x network authentication
	• IEEE 802.1q VLAN
	• IEEE 802.1p (QoS and class of service [CoS])
	• Cisco ClearPath
	• Medianet: Mediatrace and metadata
Firewall traversal	• Cisco TelePresence Expressway technology
	• H.460.18 and H.460.19 Firewall Traversal
Embedded encryption	• H.323 and SIP point-to-point
	• Standards-based: H.235v3 and Advanced Encryption Standard (AES)
	• Automatic key generation and exchange
	• Support in dual stream
Security features	• Management through Secure HTTP (HTTPS) and Secure Shell (SSH) Protocol
	• IP administration password
	• Menu administration password
	• Disable IP services
	• Network settings protection

Cisco TelePresence MultiWay	• MultiWay conferencing, which enables video endpoint users to introduce a third party into an existing call using a Cisco TelePresence MCU
System management	• Support for the Cisco TelePresence Management Suite (TMS) and Cisco TelePresence Multipoint Switch (with software Release TC 5.0 or later) • 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 (SCP), HTTP, and HTTPS
Directory services	• 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 local Cisco representative and refer to Table 5.

Table 5.   Ordering Information

Product Name	Part Number
Cisco TelePresence MX300 G2	CTS-MX300-K9
MX300 G2 Premium Resolution Option	LIC-MX300-PR
MX300 G2 MultiSite Option	LIC-MX300-MS

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, please visit:
http://www.cisco.com/go/telepresenceservices.

For More Information

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

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