Cisco MX300 G2 and MX200 G2

Product Overview

From box to video in 10 minutes. It doesn't get much easier. You can bring customers, colleagues, and business partners from around the world to work together face-to-face in just about any room or space and at a moment's notice. The Cisco MX300 G2 (MX300 G2) and MX200 G2 (MX200 G2) make it easy to put high-definition video conferencing within reach for everyone at your organization. They deliver ready-to-use simplicity and high-quality performance at value pricing so you can make decisions faster and be more productive and innovative. The systems support cloud registration to Cisco Webex for even faster and more cost effective deployment[1].

The MX300 G2 and MX200 G2 are value products within the MX Series of room-based video conferencing devices. They feature a sleek, streamlined industrial design that blends aesthetics, functionality and ease of use at a great value (Figure 1). New features such as dual display and an embedded four-way MultiSite conferencing option deliver more power and flexibility. The Cisco Touch 10 control unit offers a larger screen size and a user-friendly experience. Rich 1080p60 High-Definition (HD) video and a high-end speaker system optimized for voice encourage people to 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.

Figure 1.　Cisco MX300 G2 and MX200 G2

Cisco MX300 G2 and MX200 G2 systems are as easy to install as a television and can be set up in about 10 minutes. They're priced for large-scale deployment, so you can quickly and easily transform any meeting space into a video-enabled team room. The MX300 G2 with a 55-inch screen is ideal for medium size rooms. The MX200 G2 has a 42-inch screen that makes it ideal for small-to-medium rooms as it has a wide field of view for tight spaces. Both products are easy to use and affordable enough to make video collaboration possible throughout your organization.

Figure 2. Cisco MX300 G2 on Floor Stand

The MX300 G2 and MX200 G2 are part of a complete collaboration ecosystem that offers high-quality, easy-to-use video experiences that you have come to expect from Cisco. This is combined with rapid global service and price-performance, making broad deployment easier and more affordable than ever. Whether you are just getting started with video communications or are planning to video-enable your entire organization, the MX300 G2 and MX200 G2 can meet your needs.

Features and Benefits

Table 1 lists the features and benefits of the Cisco MX300 G2 and MX200 G2.

Table 1. Features and Benefits of Cisco MX300 G2 and MX200 G2

Feature	Benefits
Design features	• Installs in minutes: The MX300 G2 and MX200 G2 are as easy to install as a TV, with a one-piece unit plus install configuration (floor stand, wheel base, and VESA wall mount. MX200 G2 also has a table-stand option). • Setup 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 PrecisionHD Camera with pan, tilt, and zoom helps ensure optimal framing and video clarity. Dedicated presets provide flexibility and easy viewing for any type of meeting. • Provides touch control: The Touch 10 control unit offers simple, intuitive control. Easy "One-Button-To-Push" (OBTP) calling integrates with common calendaring programs. • Offers crisp, clear video: High-quality 55-inch or 42-inch displays deliver video resolutions of up to 1080p60 to let you bring the Cisco video conferencing experience to any team meeting room or corner office. • Provides high-fidelity stereo sound: Front speakers provide superior, optimized audio, and receive spatial audio from a Cisco TelePresence Server. • Allows you to meet with anyone, anywhere: The standards-based MX300 G2 and MX200 G2 lets you collaborate with anyone regardless of system - from PC to immersive video systems around the globe. • Offers ability to connect and share: Collaborate naturally with 1080p content sharing with a touch of your finger. • Works the way you want: 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.

Feature	Benefits
Application features	• Share multimedia and presentations at the touch of a button. • Receive on-screen notification of shared white board content; participate in white boarding sessions from Cisco Webex Teams app[2]. • Simplified meeting-join experience with One Button to Push (OBTP) for scheduled devices in Cisco Webex meetings, whether registered on-prem or to the cloud. • Supports Cisco Intelligent Proximity for content sharing to mobile devices and wireless sharing from Macs and PCs[3]. • Supports Switched Conferencing (SVC) for enhanced layouts and enabling video on both screens of dual screen endpoints[3]. • Easily control room peripherals such as lights, room dividers, curtains, directly from the Cisco Touch 10 through customizable API[4] (requires external third-party control system processor). • The dual-display feature allows another screen to be added for content sharing. • High-definition content sharing up to 1080p30 resolution is possible.
Performance features	• The systems offer 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. • The MX300 G2 and MX200 G2 take advantage of the Cisco TelePresence Total Solution approach, including Cisco recording and streaming, and firewall traversal services. • The systems are 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 MX300 G2 and MX200 G2.

Table 2.   Product Specifications

Product compatibility	Fully compatible with standards-compliant telepresence and video systems	
Software compatibility	Cisco MX300 G2 Cisco TelePresence Software Version TC 7.0 or later Cisco Collaboration Endpoint Software Version 8.0 or later	Cisco MX200 G2 Cisco TelePresence Software Version TC 7.2 or later Cisco Collaboration Endpoint Software Version 8.0 or later

Components	• Fully integrated unit including:
	  ◦ Codec
	  ◦ Display
	  ◦ Camera
	  ◦ Integrated microphone and loudspeakers
	• Cisco Table Microphone 20
	  (as default, two microphones are shipped with the MX300 G2, and one with the MX200 G2)
	• Cisco Touch 10 control unit with cable
	• Cables: HDMI presentation cable, LAN cable, and power cable	

Display	Cisco MX300 G2: • 55-in. (1.4m) LCD monitor, edge LED backlight • Resolution: 1920 x 1080 (16:9) • Contrast ratio: Typical 4000:1 • Viewing angle: +/-178 deg • Response time: Typical 8 ms • Brightness: Typical 450 cd/m2	Cisco MX200 G2 • 42-inch LCD monitor, edge LED backlight • Resolution: 1920 x 1080 (16:9) • Contrast ratio: Typical 1300 • Viewing angle: +/- 178 deg • Response time: Typical 8 ms • Brightness: 450 cd/m2
PC and second-source video input	• DVI-I • Two HDMI	
Supported PC input resolutions	SVGA (800 x 600) to 1080p (1920 x 1080)	

Camera overview	Cisco 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	Cisco MX200 G2: • 2.5x optical zoom (5x with digital*) • Motorized +5°/-25° tilt, +/- 30° pan • 83° horizontal field of view • 51.5° vertical field of view • Resolutions: 1080p60 and 720p60 • F 2.0
	• 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 and bass speakers • Integrated full-range microphone • Support for two Cisco Table Microphone 20 microphones • Mini jack PC audio input • Mini jack audio output	
User interface	Cisco Touch 10 control unit • 10-inch projected capacitive touch screen • Resolution: 1280 x 800	
Language support	English, Arabic, Catalan, Czech, Danish, Dutch, Finnish, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese-Brazilian, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish; depends on software version	

Physical dimensions (H x W x D)	Cisco MX300 G2 main unit with:
	• Floor stand: 59.8 x 50.3 x 26.4 in.
	  (1518 x 1278 x 671 mm)
	• Wall mount: 37.3 x 50.3 x 7.9 in.
	  (948 x 1278 x 200 mm)
	• Wheel base: 63.2 x 50.3 x 29.7 in.
	  (1605 x 1278 x 755 mm)
		Cisco MX200 G2 main unit with:
		• Floor stand: 55 x 39.2 x 23.7 in.
		  (1397 x 995 x 602 mm)
		• Table stand: 30.7 x 39.2 x 10.2 in.
		  (781 x 995 x 259 mm)
		• Wall-mount: 26.4 x 39.2 x 5.7 in.
		  (671 x 995 x 146 mm)
		• Wheel base: 58.3 x 995 x 711 in.
		  (1480 x 39.2 x 28 mm)

Weight	Cisco MX300 G2 main unit with (all weight without packaging): • Floor stand: 108.7 lb (49.3 kg) • Wall mount: 84.9 lb (38.5 kg) • Wheel base: 96.1 lb (43.6 kg) • Main unit only: 77.2 lb (35 kg)	Cisco MX200 G2 main unit with (all weight without packaging): • Floor stand: 108.7 lb (36.3 kg) • Table stand: 56.2 lb (25.5 kg) • Wall mount: 56.2 lb (25.5 kg) • Wheel base: 73 lb (33.1kg) • Main unit only: 52.9 lb (24 kg)
Physical dimensions and weight of packaging (H x W x D)	Cisco MX300 G2: Consolidated package size: 48.9 x 57.9 x 25 in. (1241 x 1470 x 635 mm) Shipping weight with: • Floor stand: 200.6 lb (91.2 kg) • Wall mount: 176.4 lb (80.0 kg) • Wheel base: 180.8 lb (82.8 kg)	Cisco MX200 G2: Consolidated package size: 42.6 x 53.5 x 28.2 in. (1081 x 1360 x 716 mm) Shipping weight with: • Floor stand: 149.9 lb (68.0 kg) • Wall mount: 127.9 lb (58.2 kg) • Wheel base: 143.3 lb (65.4 kg) • Table stand: 134.5 lb (61.2 kg)
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°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	• 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 • Directive 2011/65/EU (RoHS) • Approved according to UL 60950-1 and CNA/CSA C22.2 No. 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.263 • H.263+ • H.264
Video features	• Advanced screen layouts • Local auto-layout
Video inputs (three inputs)	Two HDMI and one DVI-I (analog and digital) inputs Supports formats up to maximum 1920 x 1080 @ 60 fps (HD1080p60), including: • 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 High-definition inputs use progressive video formats Extended Display Identification Data (EDID)
Video outputs (one output)	One HDMI output Supports formats up to maximum 1920 x 1080 @ 60 fps (HD1080p60), including: • 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/decode)	Supports encode/decode video formats up to maximum 1920 x 1080@60 fps (HD1080p60), including: • 176 x 144 @ 30 fps (QCIF) (decode only) • 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+) • 512 x 288 @ 60 fps (w288p60) • 768 x 448 @ 60 fps (w448p60) • 1024 x 576 @ 60 fps (w576p60) • 1280 x 720 @ 60 fps (720p60)
Audio standards	• 64- and 128-kbps AAC-LD • G.722 • G.722.1 • G.711 • G.729 AB • OPUS	
Audio features	• High-quality 20 kHz stereo audio • Three 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 • Supports resolutions up to 1080p (1920 x 1080)	
Multipoint support	• Four-way embedded SIP/H.323 Multipoint (reference MultiSite) • Adhoc conferencing • Switched Conferencing (SVC)[2]	
MultiSite features (embedded multipoint)	• Adaptive SIP/H.323 MultiSite • 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	

[1] Requires Collaboration Endpoint Software 8.2 or later

[2] Supported on cloud-registered devices only

[3] Requires Collaboration Endpoint Software 8.0 or later

[4] Requires Collaboration Endpoint Software 8.1 or later

Table 4.   Network, Security, and Management Specifications

Protocols	• H.323 • SIP
Network interfaces	• One Ethernet (RJ-45) auto-sensing Gigabit (10/100/1000) LAN port • One Fast Ethernet (10/100) PoE port for Touch 10
Other interfaces	• Micro USB 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
IPv6 network support	• Dual stack (IPv4 and IPv6) for H.323 and SIP • Dual stack (IPv4 and IPv6) for DHCP, SSH, HTTP, HTTPS, DNS, and DiffServ • Support for static IP address assignment, stateless autoconfiguration, and DHCPv6
Firewall traversal	• Cisco TelePresence Expressway technology • H.460.18 and H.460.19 Firewall Traversal • SIP ICE (Interactive Connectivity Establishment)
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 • Password protected Administration menu • Disable IP services • Network settings protection
Certificate management	• Certificate Authority Proxy Function (CAPF) support for additional security • Manufacturer-Installed Certificates (MIC) • Locally Significant Certificates (LSC) • X.509 Digital Certificates (DER encoded binary); both DER and Base-64 formats are acceptable for the client and server certificates; certificates with a key size of 1024, 2048, and 4096 are supported
System management	• Support for the Cisco TelePresence Management Suite (TMS) • Total management through embedded Simple Network Management Protocol (SNMP), Telnet, SSH, XML, and Simple Object Access Protocol (SOAP) • Remote software upload: Through web server, HTTP, and HTTPS
Directory services	• Support for local directories (My Contacts) • Corporate directory (through Cisco UCM and Cisco TMS) • Server directory supporting LDAP and H.350 (requires Cisco TelePresence Management Suite) • Call History with received, placed, and 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	Compliance Model Number
Cisco MX300 G2	CTS-MX300-K9	TTC60-19
MX300 G2 MultiSite Option	LIC-MX300-MS	
Cisco MX200 G2	CTS-MX200-K9	TTC60-20
MX200 G2 MultiSite Option	LIC-MX200-MS	

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https://www.cisco.com/go/telepresenceservices.

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