

# Refurbished CISCO CTS-MX800D-2CAM-K9 Datasheet

CISCO &gt; COLLABORATION-ENDPOINTS

## Cisco TelePresence MX Series

### Feature Summary

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<b>Design features</b>	<p>One of the most powerful and feature-rich video systems available with the ultimate in video and audio quality</p> <p>The next generation HD video collaboration codec</p> <p>The next generation HD PTZ camera</p> <p>Everything you need in one unit (screens, speakers, codec, camera, user interface, microphones, mounting)</p> <p>Wallmount or floorstand (2 floorstand options included: freestand and wall-secured floorstand)</p> <p>Industry first built-in speaker tracking system as option</p>
<b>Application features</b>	<p>Supports Cisco Intelligent Proximity for content sharing to mobile devices and wireless sharing from Macs and PCs</p> <p>Supports Switched Conferencing (SVC) for enhanced layouts and enabling video on both screens of dual screen endpoints</p> <p>Easily control room peripherals such as lights, room dividers, curtains, directly from the Cisco Touch 10 control unit through customizable API (requires external third-party control system processor)</p> <p>1080p30 HD embedded Cisco MultiSite with individual transcoding</p> <p>Collaborate with four simultaneous video inputs</p> <p>Receive notification of shared white board content on the Touch 10; participate in white boarding sessions from Cisco Webex Teams app</p> <p>HD collaboration with 1080p60 main and 1080p30 content</p> <p>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</p> <p>Ideal for team-based collaboration, boardrooms, meeting rooms and video centric rooms</p> <p>Dual presentation outside of a call (increase usage of system outside of a call - use the MX700 dual screens to compare 2 presentations/documents)</p>
<b>Performance features</b>	<p>Optimal definition up to 1080p60</p> <p>H.323/SIP up to 10 Mbps point-to-point</p> <p>Up to 10 Mbps total MultiSite bandwidth</p> <p>Ability to connect up to four HD sources and 8 microphones directly to the codec</p> <p>Full duplex audio with high-quality stereo sound</p> <p>Full Application Programming Interface (APIs)</p> <p>Ability to take advantage of Cisco Total Solution Management, transcoded HD MultiSite, recording and streaming, Ad-hoc Conferencing, and firewall traversal</p> <p>Cisco ClearPath packet loss protection technology for optimal experience</p> <p>Cisco Unified Communications Manager native support (requires Cisco Unified Communications Manager version 8.6 or higher)</p>

### Product Specifications

#### Specification

<b>Product delivered complete with</b>	<p>One mounting option, single or dual camera option (MX800 Dual – is only available with dual camera), Cisco Touch 10, MX Codec, complete audio system, 2x Cisco Mic 60, 2 presentation cables</p>
<b>Bandwidth</b>	<p>H.323/SIP up to 10 Mbps point-to-point</p> <p>Up to 10 Mbps total MultiSite bandwidth</p>
<b>Minimum bandwidth for resolution/frame rate (H.264)</b>	<p>720p30 from 768 kbps</p> <p>720p60 from 1152 kbps</p> <p>1080p30 from 1472 kbps</p> <p>1080p60 from 2560 kbps</p>
<b>Firewall traversal</b>	<p>Cisco Expressway technology</p> <p>H.460.18 and H.460.19 firewall traversal</p>
<b>Video standards</b>	<p>H.261, H.263, H.263+, H.264 and H.265 (SIP only for H.265)</p>
<b>Video features</b>	<p>Advanced screen layouts</p>

Custom video layouts  
Local auto layout

### Video outputs (three outputs)

<b>Video outputs (three outputs)</b>	Two HDMI Outputs and one DVI-I Output; supported formats: 1920 x 1080@60 Hz (1080p60) 1920 x 1080@50 Hz (1080p50) 1280 x 720@60 Hz (720p60) 1280 x 720@50 Hz (720p50) 1920 x 1200@60 Hz (WUXGA) 1920 x 1200@50 Hz (WUXGA) MX700: HDMI output 1 & 2 are in use with the 2 screens MX800: HDMI output 1 is in use with the screen VESA Monitor Power Management Extended Display Identification Data (EDID)
<b>Live video resolutions (encode and decode)</b>	176 x 144@30 frames per second (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) 1280 x 720@30 fps (720p30) 1920 x 1080@30 fps (1080p30) 1920 x 1200@15fps (WUXGA) 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 768@30 fps (WXGA) 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) 1920 x 1080@60 fps (1080p60)
<b>Audio standards</b>	G.711, G.722, G.722.1, G.729AB, 64 kbps and 128 kbps MPEG4 AAC-LD mono and stereo, OPUS
<b>Audio features</b>	CD-quality 20 kHz mono and stereo Eight separate acoustic echo cancellers Eight-port audio mixer Automatic Gain Control (AGC) Automatic noise reduction Active lip synchronization
<b>Audio inputs (fifteen inputs)</b>	Eight microphones, 48V phantom powered, Euroblock connector, each with separate echo cancellers and noise reduction; all microphones can be set for balanced line level (2 Microphones included in base package) Four balanced line level inputs, Euroblock connector (one balanced line level input used when VGA-DVI presentation cable is used) Three HDMI, digital: stereo PC/DVD input (one HDMI audio input used when HDMI-HDMI presentation cable is used)
<b>Audio outputs (eight outputs)</b>	Six balanced line level outputs, Euroblock connector Two HDMI outputs (MX700: Both HDMI audio outputs are used for the 2 screens. MX800: One HDMI audio output is used for the screen)
<b>Dual stream</b>	H.239 (H.323) dual stream BFCP (SIP) dual stream Support for resolutions up to 1080p30/WUXGA, and independent of main stream resolution
<b>Multipoint support</b>	Five way embedded SIP/H.323 multipoint (reference MultiSite, available as an option) Cisco ad-hoc conferencing (requires CUCM, Cisco TelePresence Server and Conductor) Cisco Conferencing Active Control Switched conferencing (SVC)
<b>MultiSite features (embedded multipoint, available as option)</b>	Five way 720p30 High Definition, three or four way 1080p30 Full individual audio and video transcoding Individual layouts in MultiSite continuous presence H.323/SIP/VoIP in the same conference Support for Presentation (H.239/BFCP) from any participant at resolutions up to 1080p15 H.264, encryption, and dual stream from any site Additional telephone call (no license required) IP downspeeding Dial in and dial out Conference rates up to 10 Mbps
<b>Protocols</b>	H.323 SIP

	Dual call stack support, H323 and SIP registration ISDN (requires Cisco ISDN Link)
<b>Embedded encryption</b>	H.323/SIP point-to-point and MultiSite Standards-based: H.235 v3 and Advanced Encryption Standard (AES) Automatic key generation and exchange Supported in dual stream
<b>IP network features</b>	DNS lookup for service configuration Differentiated Services (QoS) IP adaptive bandwidth management (including flow control) Auto gatekeeper discovery Dynamic playout and lip-sync buffering H.245 DTMF tones in H.323 Date and Time support via NTP Packet Loss based downspeeding URI Dialing TCP/IP DHCP 802.1x Network authentication 802.1Q Virtual LAN 802.1p (QoS and class of service [CoS]) ClearPath
<b>Call control</b>	Cisco Unified Communications Manager (CUCM) Native registration with CUCM Requires CUCM Version 8.6(2) or later with device pack for MX700/MX800 Basic CUCM provisioning Firmware upgrade from CUCM Cisco Discovery Protocol and DHCP option 150 support Basic telephony features such as hold, resume, transfer, and corporate directory lookup Cisco Video Communication Server (VCS) Native registration with VCS Cisco Webex Third-party H.323 Gatekeepers and standards-based SIP proxies
<b>IPv6 network support</b>	Dual-stack IPv4 and IPv6 for DHCP, Secure Shell (SSH), HTTP, Secure HTTP (HTTPS), DNS, and Differentiated Services (DiffServ) Support for both static and autoconfiguration (stateless address auto configuration)
<b>Security features</b>	Management through HTTPS and SSH IP administration password Menu administration password Disable IP services Network settings protection
<b>Certificate management</b>	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
<b>Network interfaces</b>	One LAN/Ethernet (RJ-45) 10/100/1000 Mbit Two LAN/Ethernet (RJ-45) interfaces to be used for Cisco TelePresence Peripherals
<b>Other interfaces</b>	Two USB host for future usage GPIO

## The next steps...

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