

Cisco TelePresence SX20 Quick Set

Product Overview

The Cisco TelePresence® SX20 Quick Set (SX20 Quick Set) can transform any flat panel display into a sleek and powerful video conferencing system. The SX20 Quick Set is designed to deliver high definition video and multiparty conferencing with the flexibility to accommodate various room size and configurations - all at a value price. The SX20 Quick Set supports optional embedded multipoint support with Cisco® TelePresence MultiSite technology, enabling users to add three additional participants to a video call.

SX20 Quick Set combines a powerful codec, premium resolution of 1080p, three camera choices, and a dual-display feature in an easy-to-deploy and easy-to-use solution. Whether you're a small business just getting started with telepresence or a large enterprise looking to expand your existing deployment, the SX20 Quick Set delivers the performance you would expect from more expensive systems - in a compact, feature-rich and affordable package. Cisco TelePresence SX20 Quick Set is designed to truly extend the power of in-person to everyone, everywhere.

Figure 1. Cisco TelePresence SX20 Quick Set in a Small Meeting Room Environment



Figure 2. Cisco TelePresence SX20 Quick Set with PrecisionHD 4x Camera, Table Microphone, and Remote Control



Features and Benefits

Table 1 summarizes the primary features for the Cisco TelePresence SX20 Quick Set.

Table 1. Cisco TelePresence SX20 Quick Set Feature Summary

| Feature Summary | |
|-----------------------------|--|
| Design Features | <ul style="list-style-type: none"> • Transforms a flat panel display into a 1080p high-definition meeting space • Intuitive connections make setup as easy as connecting a DVD player • Provides up to 1080p60 resolution - compatible with standards-based video without loss of features • Sleek, compact design |
| Application Features | <ul style="list-style-type: none"> • Multimedia and presentations can be shared at the touch of a button • Supports Cisco Intelligent Proximity for content sharing to mobile devices and wireless sharing from Macs and PCs¹ • Supports Switched Conferencing (SVC) for enhanced layouts and enabling video on both screens of dual screen endpoints¹ • Basic API available over IP (Telnet or Secure Shell Protocol [SSH]) • Dual-display • High-definition content sharing up to 1080p15 resolution • One button to push (OBTP) to start a meeting |
| Performance Features | <ul style="list-style-type: none"> • Premium resolution (1080p60) • H.323/SIP calls up to 6 Mbps • Built-in individually transcoded multipoint conferencing (optional) offers ability to add three additional participants • Easy provisioning and self-configuration with Cisco Unified Communications Manager (CUCM), Cisco TelePresence Video Communications Server (VCS), or Cisco WebEx TelePresence • Takes advantage of the Cisco TelePresence Total Solution approach, including Cisco TelePresence ad-hoc conferencing features, recording and streaming, and firewall traversal services • Cisco Unified Communications Manager native support (requires Cisco Unified Communications Manager Version 8.6 or higher) |

Figure 3. Cisco TelePresence SX20 Quick Set on Wall Mount



Product Specifications

Table 2 lists the product capability specifications for the Cisco TelePresence SX20 Quick Set.



Table 2. Product Specifications

| Specification | Description |
|--|--|
| Software compatibility | Cisco TelePresence Software Version TC 7.1 or later Cisco Collaboration Endpoint Software Version 8.0 or later (requires Touch 10 or TRC5 remote control) |
| Default components in SX20 Quickset | <ul style="list-style-type: none"> • SX20 Codec, Cisco TelePresence Precision Camera (option of 2.5x, 4x and 12x cameras), Cisco TelePresence Table Microphone 20, remote control, cables, and power supply |
| Optional hardware components | <ul style="list-style-type: none"> • Cisco TelePresence Touch 10 • Wall mount kit • Additional microphone |
| Bandwidth | <ul style="list-style-type: none"> • H.323 and SIP up to 6 Mbps |
| Minimum bandwidth for resolution/frame rate | <ul style="list-style-type: none"> • 720p30 from 768 kbps • 720p60 from 1152 kbps • 1080p30 from 1472 kbps • 1080p60 from 2560 kbps |
| Firewall Traversal | <ul style="list-style-type: none"> • Cisco TelePresence Expressway Technology • H.460.18, H.460.19 firewall traversal |
| Video Standards | <ul style="list-style-type: none"> • H.263, H.263+, H.264 |
| Video Features | <ul style="list-style-type: none"> • Native 16:9 widescreen • Advanced screen layouts • Intelligent video management • Local auto-layout |

| Specification | Description |
|------------------------------------|--|
| Video Inputs (Two Inputs) | <p>One HDMI and One DVI-I (Analog and Digital); supports formats up to maximum 1920x1080 @ 60 fps (HD1080p60), including:</p> <ul style="list-style-type: none"> • 640x480 • 720x480 • 720x576 • 800x600 • 848x480 • 1024x768 • 1152x864 • 1280x720 • 1280x1024 • 1280x768 • 1280x800 • 1280x960 • 1360x768 • 1366x768 • 1400x1050 • 1440x900 • 1680x1050 • 1920x1080 <p>Extended Display Identification Data (EDID)</p> |
| Video Outputs (Two Outputs) | <p>Two HDMI Outputs Supported Formats:</p> <ul style="list-style-type: none"> • 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) • 1280 x 1024@60 fps¹ • 1024 x 768@60 fps¹ <p>VESA Monitor Power Management EDID</p> <p>Live Video Resolutions (Encode and Decode):</p> <ul style="list-style-type: none"> • 176 x 144@30, 60 fps (QCIF) (Decode only) • 352 x 288@30, 60 fps (CIF) • 512 x 288@30, 60 fps (w288p) • 576 x 448@30, 60 fps (448p) • 768 x 448@30, 60 fps (w448p) • 704 x 576@30, 60 fps (4CIF) • 1024 x 576@30, 60 fps (w576p) • 640 x 480@30, 60 fps (VGA) • 800 x 600@30, 60 fps (SVGA) • 1024 x 768@30, 60 fps (XGA) • 1280 x 768@30, 60 fps (WXGA) • 1280 x 720@30, 60 fps (HD720p) • 1920 x 1080@30, 60 fps (HD1080p) |
| Audio Standards | <ul style="list-style-type: none"> • G.711, G.722, G.722.1, G.728, G.729, AAC-LD and OPUS |
| Audio Features | <ul style="list-style-type: none"> • High quality 20 KHz stereo • Two acoustic echo cancellers • Automatic Gain Control (AGC) • Automatic noise reduction • Active lip synchronization |

| Specification | Description |
|--|---|
| Audio Inputs (Four Inputs) | <ul style="list-style-type: none"> • Two microphones, 4-pin minijack • One minijack for line-in (stereo) • One audio in from camera (HDMI) |
| Audio Outputs (Two Outputs) | <ul style="list-style-type: none"> • One minijack for line out (stereo) • One HDMI, (digital main audio) |
| Dual Stream | <ul style="list-style-type: none"> • H.239 (H.323) dual stream • BFCP (SIP) dual stream • Support resolutions up to 1080p (1920 x 1080) |
| Multipoint Support | <ul style="list-style-type: none"> • Four-way embedded SIP/H.323 conferencing capability with MultiSite option • Ad-hoc conferencing supported through: <ul style="list-style-type: none"> ◦ Unified Communications Manager Media Resource Group (requires a Cisco TelePresence MCU) ◦ Cisco TelePresence Multiway [requires Cisco TelePresence Video Communication Server (Cisco VCS) and a Cisco TelePresence MCU] • Ability to natively join multipoint conferences hosted on Cisco Telepresence Multipoint Switch (CTMS) • Switched conferencing (SVC)¹ |
| MultiSite Features (Embedded Multipoint) (Optional upgrade) | <ul style="list-style-type: none"> • Adaptive SIP/H.323 MultiSite; resolution up to 720p30 <ul style="list-style-type: none"> ◦ 3-way resolution up to 720p30 ◦ 4-way resolution up to 576p30 • 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 1080p30 • Best Impression (automatic continuous presence layouts) • H.264, encryption and dual stream from any site • IP downspeeding • Participants can be added by dialing in or host can dial out • Conference rates up to 6 Mbps |
| Protocols | <ul style="list-style-type: none"> • H.323 • SIP • ISDN (requires Cisco TelePresence ISDN Link) |
| Embedded Encryption | <ul style="list-style-type: none"> • H.323 and SIP point-to-point • Standards-based: H.235 v3 and Advanced Encryption Standard (AES) • Automatic key generation and exchange • Supported in dual stream |
| IP Network Features | <ul style="list-style-type: none"> • DNS lookup for service configuration • Differentiated services (quality of service [QoS]) • IP-adaptive bandwidth management (including flow control) • Automatic gatekeeper discovery • Dynamic playout and lip-sync buffering • H.245 Dual Tone Multi-frequency (DTMF) tones in H.323 • Date and time support using Network Time Protocol (NTP) • Packet loss-based down speeding • Uniform resource identifier (URI) dialing • TCP/IP • DHCP • 802.1x network authentication • 802.1Q Virtual LAN • 802.1p (QoS and class of service [QoS]) • ClearPath |

| Specification | Description |
|--|--|
| Cisco Unified Communications Manager (Requires Cisco Unified Communications Manager Version 8.6 or Later) | <ul style="list-style-type: none"> • Native registration with Cisco Unified Communications Manager • Basic Cisco Unified Communications Manager provisioning • Software upgrade from Cisco Unified Communications Manager • Cisco Discovery Protocol and DHCP option 150 support • Basic telephony features such as hold/resume/transfer and Corporate Directory lookup |
| IPv6 Network Support | <ul style="list-style-type: none"> • Single call stack support for both H323 and SIP • Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ • Support for both Static and Automatic IP configuration (stateless address auto configuration) |
| Security Features | <ul style="list-style-type: none"> • Management using HTTPS and SSH • IP administration password • Menu administration password • Disable IP services • Network settings protection |
| Network Interfaces | <ul style="list-style-type: none"> • One LAN and Ethernet (RJ-45) 10/100/1000 Mbit |
| Other Interfaces | <ul style="list-style-type: none"> • Two USB ports can be used for serial control |
| System management | <ul style="list-style-type: none"> • Support for the Cisco TelePresence Management Suite • Total management using embedded SNMP, Telnet, SSH, XML, SOAP • Remote software upload: using web server, secure copy (SCP), HTTP, HTTPS • Cisco TelePresence Touch 10 (optional) • Remote control and on-screen menu system |
| Directory Services | <ul style="list-style-type: none"> • Support for local directories (My Contacts) • Corporate directory • Unlimited entries using server directory supporting LDAP and H.350 (requires Cisco TelePresence Management Suite) • Unlimited number for corporate directory (through Cisco TelePresence Management Suite) • Received calls with date and time • Placed calls with date and time • Missed calls with date and time |
| Power | <ul style="list-style-type: none"> • Auto-sensing power supply • 100 - 240 VAC, 50/60 Hz • Maximum 40 watts for codec and main camera |
| Operating Temperature and Humidity | <ul style="list-style-type: none"> • 0°C to 40°C (32°F to 104°F) ambient temperature • 10% to 90% Relative Humidity (RH) |
| Storage and Transport Temperature | <ul style="list-style-type: none"> • -20°C to 60°C (-4°F to 140°F) at RH 10% - 90% (non -condensing) |
| SX20 Codec Dimensions | <ul style="list-style-type: none"> • Width: 11.8 inches (30.0 cm) • Height: 1.4 inches (3.4 cm) • Depth: 7.1 inches (18.0 cm) • Weight: 3.1 pounds (1.4 kg) |

| Camera Overview Part Number | | |
|---|---|---|
|  |  |  |
| PrecisionHD 2.5x Camera | PrecisionHD 4x Camera | PrecisionHD 12x Camera |
| 5x zoom (2.5x optical plus digital ¹) | 8x zoom (4x optical plus digital ¹) | 12x optical zoom |
| Motorized +5°/-25°tilt, +/- 30°pan | Motorized +15°/-25°tilt, +/- 90°pan | Motorized +15°/-25°tilt, +/- 90°pan |
| 51.5° vertical field of view | 43.5° vertical field of view | 43.5° vertical field of view |

| Camera Overview Part Number | | |
|--|---|---|
| 83° horizontal field of view | 70° horizontal field of view | 72° horizontal field of view |
| F 2.0 | F 1.7 | F 1.7 |
| 1920 x 1080 pixels progressive @ 60 fps | | |
| Automatic or manual focus, brightness, and white balance | | |
| Far-end camera control | | |
| Dual HDMI/Camera Control and USB output | Dual HDMI/Camera control | HDMI, HD-SDI output, and daisy chain |
| Upside-down mounting, picture flips automatically | Upside-down mounting, manual picture flip | Upside-down mounting, picture flips automatically |
| Focus distance 0.3 m - infinity | | |

* Available from TC7.1

¹ Requires Collaboration Endpoint Software Version 8.0 or later

Regulatory Compliance

- Directive 2006/95/EC (Low-Voltage Directive) - Standard IEC/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 CAN/CSA-C22.2 No. 60950-1-07
- Complies with FCC CFR 47 Part 15 Class A

Ordering Information

To place an order, please contact your local Cisco representative and refer to Table 3.

Table 3. Ordering Information

| Product Name | Part Number | Compliance Model Number |
|--|--|---|
| Cisco TelePresence SX20 Quick Set with PrecisionHD 2.5x Camera | CTS-SX20PHD2.5X-K9 | TTC7-21 (SX20 Codec) TTC8-06 (2.5x Camera) |
| Cisco TelePresence SX20 Quick Set with PrecisionHD 4x Camera | CTS-SX20-PHD4X-K9 | TTC7-21 (SX20 Codec) TTC8-05 (4x Camera) |
| Cisco TelePresence SX20 Quick Set with PrecisionHD 12x Camera | CTS-SX20-PHD12X-K9 | TTC7-21 (SX20 Codec) TTC8-02 (12x camera) |
| Cisco TelePresence SX20 MultiSite option | LIC-SX20-MS L-SX20-MS (through L-SX-SERIES-PAK) | |
| Cisco TelePresence Touch 10 Control Device | CTS-CTRL-DVX-10 | TTC5-09 |
| Cisco TelePresence Touch 10 PoE power injector | CTS-PWR-AIR-INJ5= | |
| Cisco TelePresence Remote Control 5 | CTS-RMT-TRC5= | |
| Cisco TelePresence Table Microphone 20 | CTS-QSC20-MIC | |
| Wall Mount Kit for SX20 | CTS-SX20-QS-WMK | |
| Camera Break Out Cable to RJ45 and HDMI (both female) | CAB-PHD4XS2-SPLIT | |
| Extension Cable for the Table Microphone 20 | CAB-MIC20-EXT | |

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

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For More Information

For more information about the Cisco TelePresence SX20 Quick Set, <http://www.cisco.com/go/telepresence> or contact your local account representative.



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