



Система видеоконференцсвязи Cisco TelePresence CTS-SX20N- 12X-K9

CTS-SX20N-12X-K9

Описание

В комплект входит:

кодек SX20 (TTC7-21) - 1 шт

камера TTC8-02 (12x Camera) - 1 шт

микрофон Cisco Table Microphone 20 (CTS-MIC-TABL20) - 1 шт

пульт управления (TRC6) - 1 шт

HDMI кабель - 1 шт

кабель для подключения камеры - 1 шт

блок питания AC - 1 шт

Cisco SX20 Quick Set (SX20 Quick Set) может превратить любой плоский дисплей в элегантную и мощную систему видеоконференцсвязи.

Разработан для предоставления видео высокой четкости и многосторонних конференций с гибкостью, позволяющей приспособить помещения различного размера и конфигурации - и все это по разумной цене!

SX20 Quick Set поддерживает дополнительную встроенную поддержку многоточечной связи с технологией Cisco® MultiSite, что позволяет пользователям добавлять трех дополнительных участников к видеовызову.

Система включает в себя мощный кодек с превосходным разрешением 1080p, два варианта камер, настольный микрофон и пульт управления. Имеет функцию двойного дисплея.

SX20 Quick Set поддерживает облачную регистрацию в Cisco Webex для еще более быстрого и экономичного развертывания. Cisco SX20 Quick Set призван по-настоящему расширить возможности личного общения для всех и везде.

Product specifications

Software compatibility



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- Cisco TelePresence Software Version TC 5.1 or later
- Cisco Collaboration Endpoint Software Version 8.0 or later (requires Touch 10 or TRC6 remote control)

Product delivered with

- SX20 Codec
- Cisco Precision Camera (choice of Precision 40 or 12X)

Cisco Table Microphone 20

- TRC6 remote control
- Cables and power supply

Optional hardware components

- Cisco Touch 10 control unit
- Wall mount kit
- Additional microphone
- Presentation cable (VGA or HDMI)
- Camera mount bracket for P40 or 12X
- Spare: TRC5 remote control to be used with TC 7.3 software can be acquired as spare

Bandwidth

- H.323 and SIP up to 6 Mbps

Minimum bandwidth for resolution/frame rate

- 720p30 from 768 kbps
- 720p60 from 1152 kbps
- 1080p30 from 1472 kbps
- 1080p60 from 2560 kbps

Firewall Traversal

- Cisco TelePresence Expressway Technology
- H.460.18, H.460.19 firewall traversal

Video Standards

- H.263, H.263+, H.264

Video Features

- Native 16:9 widescreen
- Advanced screen layouts



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● Local auto-layout

Video Inputs

(Two Inputs)

One HDMI and One DVI-I (Analog and Digital); supports formats up to maximum 1920x1080 @ 60 fps (HD1080p60), including:

- 640x480
- 720x480
- 720x576
- 800x600
- 848x480
- 1024x768
- 1152x864
- 1280x720
- 1280x1024
- 1280x768
- 1280x800
- 1280x960
- 1360x768
- 1366x768
- 1400x1050
- 1440x900
- 1680x1050
- 1920x1080

Extended Display Identification Data (EDID)

Video Outputs

(Two Outputs)

Two HDMI Outputs Supported Formats:

- 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)[4]



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- 1360 x 768@60 fps(WXGA)4
- 1280 x 768@60 fps (WXGA)4
- 1280 x 1024@60 fps4
- 1024 x 768@60 fps4

VESA Monitor Power Management (DPM)

CEC Power Management supported on HDMI output

EDID

Live Video Resolutions (Encode and Decode):

- 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

- G.711, G.722, G.722.1, G.728, G.729, AAC-LD and OPUS

Audio Features

- High quality 20 KHz stereo
- Two acoustic echo cancellers
- Automatic Gain Control (AGC)
- Integration with third-party audio systems
- Automatic noise reduction
- Active lip synchronization

Audio Inputs



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(Four Inputs)

- Two microphones, 4-pin minijack
- One minijack for line-in (stereo)
- One audio in from camera (HDMI)

Audio Outputs

(Two Outputs)

- One minijack for line out (stereo)
- One HDMI, (digital main audio)

Dual Stream

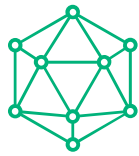
- H.239 (H.323) dual stream
- BFCP (SIP) dual stream
- Support resolutions up to 1080p) at 30 frames per second

Multipoint Support

- Four-way embedded SIP/H.323 conferencing capability with MultiSite option
- Ad-hoc conferencing supported through:
 - 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] 4
- Ability to natively join multipoint conferences hosted on Cisco Telepresence Multipoint Switch (CTMS)3
- Switched conferencing (SVC)2

MultiSite Features (Embedded Multipoint) (Optional upgrade)

- Adaptive SIP/H.323 MultiSite; resolution up to 720p30
 - 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 1080p15
- 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



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Protocols

- H.323
- SIP
- ISDN (requires Cisco ISDN Link)

Embedded Encryption

- 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

- 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
- RFC 4733 DTMF tones in SIP
- 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

Cisco Unified Communications Manager (requires Cisco Unified Communications Manager Version 8.6 or later)

- 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

Cisco Video Communication Server



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- Recommend latest software

IPv6 Network Support

- 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

- Management using HTTPS and SSH
- IP administration password
- Menu administration password
- 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

Network Interfaces

- One LAN and Ethernet (RJ-45) 10/100/1000 Mbit

Other Interfaces

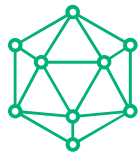
- Two USB ports can be used for serial control

System Management

- 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 Touch 10 control unit (optional)
- Remote control and on-screen menu system

Directory Services

- Support for local directories (My Contacts)
- Unlimited entries using server directory supporting LDAP and H.350 (requires Cisco TelePresence Management Suite)



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- 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

- Auto-sensing power supply
- 100 - 240 VAC, 50/60 Hz
- Maximum 40 watts for codec and main camera

Operating Temperature and Humidity

- 0°C to 40°C (32°F to 104°F) ambient temperature
- 10% to 90% Relative Humidity (RH)

Storage and Transport Temperature

- -20°C to 60°C (-4°F to 140°F) at RH 10% - 90% (non -condensing)

SX20 Codec Dimensions

- 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)

Камера

Zoom	12
Тип zoom-а	Цифровой; Оптический
Разрешение видео	1080p
Горизонтальный угол обзора,°	70°
Вертикальный угол обзора,°	43.5°
Угол поворота	+/- 90°
Угол наклона	+15°/-25°

Микрофоны

Микрофон	внешний
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Кодеки и настройки голоса



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Видео кодеки

H.264; H.263+; H.263

Интерфейсы

USB

2xUSB2.0

HDMI выход

2 x HDMI 1920x1080 @ 60 fps (HD1080p60)

Сеть

Поддержка сетевого подключения

да

Скорость и дуплекс

10/100/1000 Мбит/с

Протоколы

Протокол VoIP

H.323; SIP