



Polycom VSX 8800

A powerful video conferencing system with innovative packaging and superior sound



Polycom VSX 8800 Benefits

Sensible Solutions – Everything included in a single solution to minimize your effort and maximize your time where it counts

Extraordinary Audio & Video – Smooth motion, high resolution video combined with crystal clear *stereo* audio makes you forget you're in a video conference

Effortless Usability – Dial calls with the remote control or an integrated touch panel, even with a SoundStation VTX 1000 conference phone! Share laptop content with the push of a single button

Additional Features – Calls are always secure with industry approved AES encryption. Stream your conferences for viewing at a later time. Add multiple sites over audio or video to a single call

The Polycom Solution– Everything you need to deploy and manage a complete video conferencing network with Polycom Global Management System™, Polycom PathNavigator™, Polycom Conference Suite and the Polycom MGC™

Sophisticated styling, extraordinary audio/video and effortless usability make these products the ultimate in innovative video conferencing technology.

For customers that desire the greatest quality, performance group video conferencing system available today, the Polycom VSX 8800 and VSX 8400 offer multiple possibilities. With ideal, convenient packaging, the highest quality audio/video and unparalleled ease of use, these systems are excellent choices for large format conferencing environments.

Both the Polycom VSX 8800 and 8400 models feature the new patent pending Polycom Siren 14 Stereo Audio, delivering unprecedented audio clarity, in stereo. The slim-design VSX 8800 and 8400 systems deliver advanced video with H.264 and Pro-Motion for television-like video, and an extraordinarily easy to use interface. Together, these features produce a meeting environment so real you can't help but focus on the business at hand.

For maximum performance in a high-end video conferencing system, choose the VSX 8800. Included are tools to enable the addition of multiple participants in a single video conference, People+Content™ collaboration, voice tracking PowerCam™ Plus camera and Siren 14 Stereo with high-fidelity speakers. The VSX 8800 can also be paired with Polycom's state-of-the-art display solution, the Executive Collection. Dual flat panel displays show off the high-quality video and high-resolution presentation material while the technology behind the scenes is hidden in a thin profile cabinet.

The VSX 8400 is ideal for use in an instructor or presenter environment. With the standard People+Content feature and PowerCam camera, the instructor and the presentation are the focus of the video conference. The system is so flexible you can connect multiple peripherals such as a DVD or VCR player, a document camera or a projector for added presentation impact. For convenient integrated conferencing, Polycom offers a combination VSX 8400 and SoundStation VTX 1000™ conference phone bundle. In this configuration, both audio and video participants can be added to the same conference by simply using the VTX 1000 keypad, making video conferencing truly as easy as using a telephone.

The ultimate choice for video conferencing. The power of Polycom conferencing and collaboration solutions. With integrated video, voice, data, and Web capabilities, only Polycom solutions let you connect, conference, and collaborate anytime, anywhere and any way you want. It's our commitment to making distance communications as natural and interactive as being there. Work faster, smarter, and more efficiently with Polycom VSX 8000 series and other Polycom conferencing and collaboration solutions.



Connect. Any Way You Want.

Polycom VSX 8800 Specifications

and H.320 compliant
ID Certified

width
imum Data Rate IP and Serial/V.35:
2 Mbps
imum Data Rate ISDN: Up to 2 Mbps

Standards & Protocols
Annex D
+ Annexes: F, I, J, L, N, T
++ Annexes: W

0-fps full screen – Pro-Motion
Frame Rates (Point-to-Point)
gently selects frame rate for best
mance video
at 56 kbps up to 2 Mbps
ids per second up to 2 Mbps

Inputs: 4 Connectors
Video; Professional Y/C BNCs (main
camera)
x DB15; PowerCam and PowerCam Plus power,
TZ control, IR, mic input
Video; 4-pin mini DIN
nd camera with PTZ control)
Video; 4-pin mini DIN (VCR or DVD player)
SA (Content input from laptop)

Data Port: 2 Connectors
39
ol port for custom integration with remote
es such as Crestron and AMX control systems
ation with Polycom Vortex® Installed
Products
munication port for transmission of serial data
medical devices) over ISDN calls
ary camera control

Outputs: 4 Connectors
Video; Professional Y/C BNCs (main display)
Video; 4-pin mini DIN (second display)
Video; 4-pin mini DIN (VCR or DVD player)
SA (Content display)

Formats
PAL
ics: XGA, SVGA, VGA

Video Resolution
lotion interlaced video (60/50 fields full-screen
for NTSC/PAL)
704 x 480
704 x 576
52 x 240
52 x 288)
e of 4:3 or 16:9 display aspect ratios
y People on VGA Second Monitor

Content Video Resolution
1024 x 768), SVGA (800 x 600), VGA (640 x 480)
ntent on VGA displays
e video support for 4CIF and SIF on
Display
4CIF for Content on NTSC/PAL displays

Standards & Protocols
om Siren 14 Stereo ready
z bandwidth with Siren™ 14 on IP, ISDN, and
DN mixed calls
bandwidth with G.722, G.722.1
z bandwidth with G.711, G.728, G.729A

Features
less integration with Polycom Vortex Installed
Products
add-in using SoundStation VTX 1000
rence phone
add-in over ISDN
add-in over POTS
mplex digital audio
at Adaptation Echo Cancellation
matic Gain Control (AGC) – Voice activated
matic Noise Suppression (ANS)
Mixer (Mic, VCR, line-in)
n tonal speaker test
ime audio level meter for local and far-end
phones
phone and VCR input audio mixing
to talk over VCR audio
to turn off Echo Cancellation when external
equipment is used

Inputs: 6 Connectors
ference link
upports up to (3) microphones
upports SoundStation VTX 1000
ference phone
A/Phono, line level input for VCR, DVD player
dio mixer

- 2 x Phoenix connectors; balanced line level or direct microphone inputs with 24 V Phantom power
 - 1 x RJ-11 for analog speaker telephone
- Audio Outputs: 6 Connectors**
- 2 x Phoenix connectors; balanced line level output
 - 2 x RCA/Phono, Line Level output for VCR record
 - 2 x RCA/Phono, Line Level output for speakers
- Polycom Digital Tabletop Microphone**
- 360° voice pick up, 4.8 dB less reverberant than omni microphone
 - Three cardioid elements per microphone
 - Flotation feet reduce transmission of tabletop noise
 - Integrated mute button
 - Can be mounted to ceiling or walls
- Other ITU-Supported Standards**
- H.221 communications
 - H.224/H.281 far-end camera control
 - Annex Q standard for FECC in H.323 calls
 - H.225, H.245, H.239, H.241
 - H.231 in multipoint calls
 - H.243 MCU password
 - H.233, H.234, H.235V3 encryption standards
 - Bonding, Mode 1
- Network Interfaces Supported**
- IP (LAN, DSL, cable modem)
 - Single 10/100 Ethernet port (10 bps/100Mbps/Auto)
 - Optional ISDN QBR1 (Basic Rate Interface) Module
 - Optional ISDN PRI (Primary Rate Interface) Module T1/E1
 - Optional Serial Module (V.35/RS-530/RS-449 with RS-366 dialing)
- Network Features**
- Integration with Cisco Systems' CallManager Version 4.0
 - Automatic IP/ISDN calling
 - Down speeding over IP and ISDN
 - Audio & Video Error Concealment over IP and ISDN, mixed calls
 - IP address conflict warning
 - Fast Connect IP for quick video connections
 - Maximum call length digital timer
 - Auto SPID detection and line number configuration
 - MGC™ Click&View™ for individual screen layouts
 - Polycom OneDial™ intelligent call management attempts call on preferred network (IP or ISDN) and automatically rolls over to secondary network if needed
 - Polycom PathNavigator support for easy call placement and network cost optimization
 - TCP/IP, DNS, WINS, DHCP, ARP, HTTP, FTP, Telnet
 - Basic SIP* (Session Initiation Protocol) implementation
 - Chair control through API command or Integrated Web Interface
 - Software Upgradeable Inverse Multiplexer (IMUX)
- Conference on Demand**
- Initiates unscheduled MGC calls from the endpoint
 - Utilizes Polycom Office (PathNavigator and MGC)
 - Auto selects either the internal or external bridge
 - Dials all participants simultaneously
- Security**
- COMSEC tested by Titan Systems, Information Security Systems Division, and independently validated to operate with approved government encryption technologies
 - KG-194/KIV-7 encryptor support with on screen and address book dialing
 - Enhanced integration for independently certified, classified encryption devices
 - Account validation number entry
 - Secure password authentication
 - Unique factory default passwords
 - Administrator password
 - Dial-in meeting password
 - Encrypted password for VSX Web access
 - Ability to disable remote interfaces (FTP, Telnet, HTTP, SNMP)
 - Ability to disable mixed protocol multipoint calls
 - Auto-Answer (On/Off)
 - Allow access to user settings (On/Off)
- Embedded Encryption**
- Advanced Encryption Standard (AES)
 - FIPS validated by National Institute of Standards & Technology (NIST) certified agency
 - 128-bit key length
 - AES software encryption on ISDN, IP and Serial/V.35 up to 2 Mbps
 - Standards-based H.235V3 (IP)
 - Standards-based H.233/H.234 (ISDN/Serial)
 - Automatic key generation and exchange
 - Supported in People+Content

- Supported in Point-to-Point IP, ISDN and mixed network calls
- User Interface**
- User-friendly graphical interface
 - Customizable home screen and color themes
 - Kiosk mode with scrolling marquee
 - User-selectable camera icons and ring tones
 - Up to (99) user defined camera presets
 - Speed Dial List on home page
 - Persistent Preview (Far-site PIP) on all screens
 - Picture-In-Picture (PIP) (On/Off, Moveable)
 - Dual-Monitor Emulation
 - Numerical menu navigation (Similar to mobile phone)
 - Date, Time Server accessibility
 - Calendar and Conference scheduling
 - Alert Signal on home page
 - Do Not Disturb (On/Off)
 - VSX Web for remote monitoring
- Directory Services**
- 4,000+ number global directory
 - 1,000+ number local directory
 - Limitless multipoint entries
 - Live address book with Polycom Global Directory Services automatically and quickly updates directory with address changes or new endpoints
 - Live address book with Polycom Global Directory Services automatically and quickly removes endpoints from directory if they are turned off
 - Polycom Global Directory Services integrates with Active Directory/LDAP
 - Directory Server backup in the event Polycom Global Directory is not accessible
 - Automatic ISDN localization of calls
- System Management**
- SNMP for enterprise management
 - Diagnostics and software upgrades via PC, LAN
 - Integrated VSX Web management tool
 - Web Director: Remote administrator video monitoring and control from VSX Web (enabled/disabled from endpoint for security)
 - Out-of-box setup from VSX Web
 - Place a call from VSX Web
 - Language independence between set-top interface and VSX Web
 - System configuration from VSX Web
 - Recent Calls Log – Records last 99 incoming and outgoing calls
 - Call Detail Record (CDR) – Reports all incoming and outbound calls along with call statistics
 - CDR Feature On/Off
 - Downloadable CDR data for processing requires no external management system
 - Account number validation at call initiation integrated with Polycom Global Management System™ for billing purposes
 - Administrator-configurable dialing speeds
 - Complete support for The Polycom Office™ including:
 - Polycom Global Management System
 - Polycom OneDial
 - Polycom PathNavigator
 - Polycom Conference Suite
 - Polycom MGC
 - Polycom SoundStation VTX 1000
 - Polycom Vortex
- Quality of Service and Experience – iPriority™**
- Video Error Concealment
 - Audio Error Concealment
 - Universal Plug and Play (UPnP)
 - IP Precedence (ToS)
 - DiffServ (DSCP) (COS)
 - Dynamic Bandwidth Allocation
 - Proactive Network Monitoring
 - Packet and jitter control
 - Network Address Translation (NAT) support
 - Automatic NAT discovery
 - Configurable video/audio/FECC service value
 - Asymmetric speed control
 - Alternate Gatekeeper support
 - TCP/UDP fixed-port firewall support
 - Lip synchronization
 - Echo cancellation
 - Echo suppression
 - Auto gatekeeper discovery
 - Automatic gateway dialing profiles
 - Specify outbound call routing for gateway/ISDN
- Collaboration Solutions**
- Closed captioning support
 - Web Streaming in and out of a call, RTP based, suitable with QuickTime players

Language Support (12 languages)
Chinese (Simplified), Chinese (Traditional), English, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, Russian, Spanish
- Documentation translations in all languages
- User interface translations in all languages
- Keypad audio dialing confirmation in all languages
- VSX Web translations in all languages
- Remote controls labeled in all languages

- Electrical**
- Auto sensing power supply
 - Operating voltage/power 90-250 VAC, 47-63 Hz/ 80 watts
- Environmental Specifications**
- Operating Temperature: 0-40° C
 - Operating Humidity: 15-80%
 - Non-Operating Temperature: -40-70° C
 - Non-Operating Humidity (Non-condensing): 10-90%

Physical Characteristics

- Video Base Unit (W/H/D): 17.25"/1.73"/9.68"; 438.15 mm/43.83 mm/245.85 mm
- Video Base Unit Weight: 8.4 lbs; 3.8 kg

Warranty

- One-year return to factory parts and labor
- One-year software updates and upgrades

* SIP video extensions are in the process of being standards ratified.

VSX 8800 Includes

PowerCam™ Plus Camera
Silent, motorized pan-tilt-zoom camera with imbedded microphones enables pointing to presets

- Tilt Range: +/- 25° (Up/Down)
- Pan Range: +/- 100° (Left/Right)
- Horizontal field of view: 65°
- Total Field of View: 265°
- Horizontal resolution: 460 (PAL)/470 (NTSC) TV lines
- Zoom range: 10x
- Auto focus/white balance/brightness/iris
- Standards-based, far-end camera control (FECC)

Polycom Digital Tabletop Microphones (2)

- 360° voice pick up, 4.8 dB less reverberant than omni microphone
- Three cardioid elements per microphone
- Flotation feet reduce transmission of tabletop noise
- Integrated mute button
- Can be mounted to ceiling or walls

People+Content

- Using ImageShare™ II
- Laptop PC/Macintosh® connectivity device

Internal Multipoint Features

- Mixed protocol dialing connects a total of four endpoints (IP/ISDN/Serial) through the internal MCU
- Dial-in/Dial-out Calling (IP/ISDN/Serial)
- Password protection for incoming calls
- Supports IP telephones
- Automatic IP/ISDN down speeding
- Supports People+Content from any endpoint (Not just the host site)
- Voice Activated Switching – view current speaker
- Continuous Presence – see all locations
- Automatic Presentation – switch between presenter and continuous presence mode
- MP key installation while in a call
- Audio add-in over ISDN
- Cascading for up to 10 conference participants (mix of IP/ISDN/Serial Video and ISDN Audio)

Stereo Speaker Kit

- Includes subwoofer, (2) high-fidelity speakers and speaker stands

VSX 8400 Includes

PowerCam Camera

- Ultra-quiet, ultra-fast action pan-tilt-zoom (PTZ)
- Tilt Range: +/- 25° (Up/Down)
- Pan Range: +/- 100° (Left/Right)
- Horizontal field of view: 65°
- Total Field of View: 265°
- Horizontal resolution: 460 (PAL)/470 (NTSC) TV lines
- Zoom range: 10x
- Auto focus/white balance/brightness/iris
- Standards-based, far-end camera control (FECC)

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- See details above

People+Content

- See details above

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