



Polycom® VSX™ 8000 Performance Solutions

Performance solutions that combine innovative packaging with superior video and sound



Benefits

Superior, natural sound – Polycom StereoSurround™ delivers crisp, natural motion and sharp, clear images. Supports Pro-Motion™ H.264 for the highest quality images and TV-like motion handling

Outstanding video – Premium quality video at any bandwidth with smooth natural motion and sharp, clear images. Supports Pro-Motion™ H.264 for the highest quality images and TV-like motion handling

Multimedia made easy – Show high-res images or presentations in your meetings while in a video call. And, you can share content from your PC by connecting to the VSX 8000 directly, using ImageShare II, or by using People+Content™ for cable-free data sharing

Flexible connections – Supports multiple connections for input sources including up to three PTZ cameras, high resolution document cameras, DVD and VCRs for playback and recording, computer inputs for video and audio. Display configurations include VGA/XGA single monitor and dual mixed display types.

Simplified dialing and enhanced performance – Integrate the SoundStation VTX 1000 to launch video calls, capture soft voices clearly from across the entire room in StereoSurround and eliminate the need for microphones

Complete solution packages – Combine the VSX 8000 with any of Polycom's attractive furniture display options to create a total meeting room solution

The Polycom Solution – Everything you need to deploy and manage a complete video conferencing network with Polycom ReadiManager SE200, 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 highest quality, performance group video conferencing system available today, the Polycom VSX 8000 performance systems offer multiple solutions. The solutions include the VSX 8400 Presenter, the VSX 8400 Presenter Voice-Tracker and the VSX 8800 Presenter MP. Any VSX 8000 packages can be enhanced by incorporating the SoundStation VTX 1000 conference phone as the dialing mechanism and the microphone, providing excellent audio and reducing the clutter on the conference table.

The Polycom VSX 8000 family features Polycom StereoSurround™ which separates and sends multiple voices, allowing for true conversational stereo – audio quality that is as natural as being there. The VSX 8000 delivers advanced video with Pro-Motion™ H.264 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.

The VSX 8400 Presenter Voice-Tracker and the VSX 8800 Presenter MP include the PowerCam™ Plus voice tracking camera, with the most advanced camera tracking technology available today. By intelligently filtering out background noises such as papers, items being moved, or doors opening and closing, the PowerCam Plus will track to voices or to presets.

Additionally, all VSX 8000 performance solutions come standard with Polycom's unique People+Content™ IP application, which lets participants share PC content cable-free with the other local and far end conference attendees. Alternatively, you can connect a laptop or PC directly to the VSX 8000, or with the ImageShare™ II device, to share PC content; perfect for visitors who need to share data during a conference using a PC that is not on the same network.

The different configurations of the VSX 8000 are designed to give you a high degree of flexibility when designing your conferencing solution. In addition to the packaged solutions, you can create a custom conferencing system by building up multiple options which are available on the VSX 8000. Options include a stereo speaker and subwoofer kit, integration with the SoundStation VTX 1000®, ceiling microphone arrays, Vortex® devices for audio video mixing and peripherals such as electronic whiteboards, document cameras and custom furniture. Whether the meeting area is a classroom, boardroom or surgical room, the VSX 8000 performance solutions allow you to effortlessly add the crucial dimension of video to each interaction.

In today's Internet driven world, the ability to conduct real time communication and collaboration has become critical to an organization's survival. As the market leader in voice, video, data and Web solutions, our award-winning conference technology makes it easy for people to interact and maximize productivity – over any network, in numerous environments, anywhere around the globe. That's why more organizations worldwide prefer using Polycom conferencing solutions. Because when people work together, great things happen. To learn more, please visit the Polycom Experience Center at www.polycom.com/experience



Video Voice Data Web

Polycom VSX 8000 Performance Solutions Specifications

H.323, SIP and H.320 compliant

VSX 8000 Bundled Solutions

- VSX 8400 Presenter: VSX 8000, PowerCam, 2 microphone arrays, ImageShare II, People+Content IP
- VSX 8400 Presenter VTX: VSX 8400 Presenter with SoundStation VTX 1000 integration instead of microphone arrays
- VSX 8400 Presenter Voice-Tracker: VSX 8000, PowerCam Plus, 2 microphone arrays, ImageShare II, People+Content IP, 6-way MPPlus
- VSX 8400 Presenter Voice-Tracker VTX: VSX 8400 Presenter Voice-Tracker with SoundStation VTX 1000 integration instead of microphone arrays
- VSX 8800 Presenter MP: VSX 8000, PowerCam Plus, 2 microphone arrays, ImageShare II, People+Content IP, 6-way MPPlus
- VSX 8800 Presenter MP VTX: VSX 8800 Presenter MP with SoundStation VTX 1000 integration instead of microphone arrays

Bandwidth

- Maximum IP Data Rate: 2 Mbps
- Maximum ISDN/V.35 Data Rate: 2 Mbps

Video Standards & Protocols

- H.261
- H.263+ Annexes: F, I, J, L, N, T
- H.263++ Annexes: W
- H.264
- ITU 50/60-fps full screen – Pro-Motion

Frame Rates (Point-to-Point)

- Intelligently selects frame rate for best performance video
- 30 fps from 56 kbps up to 2 Mbps
- 60 fields per second from 256 Kbps to 2 Mbps

Video Inputs: 4 Connectors

- Professional BNC connections (white Y-signal luminance, yellow C-signal chrominance) for main camera
- 1 x DB15; PowerCam and PowerCam Plus power, PTZ control, IR, mic input
- 1 x S-Video; 4-pin mini DIN (second camera with PTZ control)
- 1 x S-Video; 4-pin mini DIN (VCR, DVD player, 3rd PTZ camera)
- 1 x VGA HD-15 (Content input from laptop)

Serial Data Port: 2 DB9 Connectors

- Control port for custom integration with remote devices such as Crestron® and AMX® control systems
- Integration with Polycom Vortex Installed Voice Products
- Communication port for transmission of serial data (i.e. medical devices) over ISDN calls
- Auxiliary camera control

Video Outputs: 4 Connectors

- Professional BNC connections (white Y-signal luminance, yellow C-signal chrominance) for main display
- 1 x S-Video; 4-pin mini DIN (second display)
- 1 x S-Video; 4-pin mini DIN (VCR or DVD player)
- 1 x VGA HD-15 (content or video display)

Video Formats

- NTSC/PAL
- XGA, SVGA, VGA

People Video Resolution

- Pro-Motion 264 interlaced video (60/50 fields full-screen video for NTSC/PAL)
- 4SIF (704 x 480), 4CIF (704 x 576)
- SIF (352 x 240), CIF (352 x 288)
- QSIF (176 x 120), QCIF (176 x 144)
- Choice of 4:3 or 16:9 display aspect ratios

Content Video Output Resolution

- XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480) for single monitor VGA or when using VGA as 2nd monitor for Content
- Up to 4CIF/4SIF on NTSC/PAL displays for People or Content

Audio Standards & Protocols

- Polycom StereoSurround
- 14 kHz bandwidth with Polycom Siren 14 (G.722.1 Annex C)
- 7 kHz bandwidth with G.722, G.722.1
- 3.4 kHz bandwidth with G.711, G.728, G.729A

Audio Features

- Seamless integration with Polycom Vortex Installed Voice Products
- Audio add-in using SoundStation VTX 1000 conference phone
- Audio add-in over ISDN, IP or POTS
- Full-duplex digital audio
- Instant Adaptation Echo Cancellation
- Automatic Gain Control (AGC) – Voice activated
- Automatic Noise Suppression (ANS)
- Audio Mixer (Mic, VCR, line-in)
- Built-in tonal speaker test
- Real-time audio level meter
- Microphone and VCR input audio mixing
- Ability to talk over VCR audio

Audio Inputs: 6 Connectors

- 1 x Conference link
 - Supports up to (3) microphones
 - Supports SoundStation VTX 1000 conference phone
- 2 x RCA/Phono, line level input for (VCR/DVD)
- 2 x Phoenix connectors; balanced line level or direct microphone inputs with 48 V Phantom power
- 1 x RJ-11 for analog 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

PowerCam Camera

- 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: 12x
- Auto focus/white balance/brightness/iris

- Standards-based, far-end camera control (FECC)
- PowerCam Plus Camera adds the ability to track voices or presets

Polycom VSX Microphone Array

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

SIP Support (Sessions Initiation Protocol)

- Register and authenticate with:
 - Microsoft LCS
 - Nortel MCS
 - Standards-based SIP servers
- FECC
- H.261, H.263, H.264
- G.711, G.722, G.722.1, G.728, G.729A, Siren 14 (G.722.1 Annex C)
- Microsoft LCS contact list support
- Microsoft LCS presence support
- Interoperable with Microsoft Office Communicator

Network Interfaces Supported

- Single 10/100 Ethernet port (10 bps/100Mbps/Auto)
- Optional ISDN QBRI (Basic Rate Interface) Module
- Optional ISDN PRI (Primary Rate Interface) Module T1/E1
- Optional Serial Module with appropriate cables

Encryption and Security

- FIPS 140-2 (Pre-validation List)
 - Secure web (HTTPS)
 - Secure Telnet, FTP
 - Security mode
- FIPS 197 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 full bandwidth
- Standards-based H.235V3 (IP)
- Standards-based H.233/H.234 (ISDN/Serial)
- Automatic key generation and exchange

Directory Services

- 4,000+ number global directory
- 1,000+ number local directory for single or multipoint entries
- Live address book with Polycom Global Directory Services automatically and quickly updates directory with address changes or new endpoints
- 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

Internal Multipoint Features (Optional)

- Siren 14 audio
- StereoSurround
- H.264. (limited to 4 sites)
- Dual Monitor Emulation
- 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, IP or POTS
- Cascading for up to 10 conference participants (mix of IP/ISDN/Serial Video and ISDN Audio)

Collaboration Solutions

- People and Content (PC, VCR/DVD, Doc cam) are always displayed simultaneously
- People+Content IP
 - Show content from laptop/PC over IP network connection
 - Content shown in native resolution
 - Supports Windows® 2000 and Windows XP
- QSX (Optional)
 - Connect to VGA port to show content from laptop/PC
 - Content shown in native resolution
 - Up to 10 voice participants can view content being shared
- Adjustable bandwidth for content
 - 10% Content, 90% People
 - 50% Content, 50% People
 - 90% Content, 10% People
- Web Streaming in and out of a call, RTP based, suitable with QuickTime® players

Language Support (15 languages)

- Chinese (Simplified), Chinese (Traditional), English (American), English (British), French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish
- Translated items include:
 - Documentation (no Hungarian/Polish)
 - User interface
 - Audio dialing confirmation
 - VSX web
 - Remote controls (no Hungarian/Polish)

Warranty

- One-year return to factory parts and labor
- 90-day Software Warranty

For a complete list of VSX 8000 specifications, see the VSX 8000 datasheet.

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www.polycom.com

Polycom Headquarters:

4750 Willow Road, Pleasanton, CA 94588 (T) 1.800.POLYCOM (765.9266) for North America only. For North America, Latin America and Caribbean (T) +1.925.924.6000, (F) +1.925.924.6100

Polycom EMEA:

270 Bath Road, Slough, Berkshire SL1 4DX, (T) +44 (0)1753 723000, (F) +44 (0)1753 723010

Polycom Asia Pacific:

Polycom Hong Kong Ltd., Rm 1101 MassMutual Tower, 38 Gloucester Road, Wanchai, Hong Kong, (T) +852.2861.3113, (F)+852.2866.8028

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