

Polycom® VSX™ 8400/8800

A powerful video conferencing system with innovative packaging and superior sound

Benefits

Sophisticated Styling – Thin, clean lines, sharp, clear plasma displays and a small footprint wrapped around the industry's most powerful video conferencing system

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 a 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 StereoSurround™ 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 Polycom StereoSurround 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 to access the power of Polycom unified collaborative communications solutions.

With the greatest breadth and depth of integrated video, voice, and Web solutions, only Polycom delivers the ultimate communications experience. Our market-leading conferencing and collaboration technologies, supported by world-class service, enable people and organizations to maximize their effectiveness and productivity. Add to that the most experience and proven best-practices in the industry, and it's clear why Polycom has become the smart choice for organizations seeking a strategic advantage in a real-time world..



Polycom VSX 8400/8800 Specifications

ITU H.323 and H.320 compliant

- Maximum Data Rate IP and Serial/V.35:
- Up to 2 Mbps Maximum Data Rate ISDN: Up to 2 Mbps

- H 261 Annex D
- H.263+ Annexes: F, I, J, L, N, T
- H.263++ Annexes: W
- ITU 60-fps full screen Pro-Motion

Frame Rates (Point-to-Point)

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

Video Inputs: 4 Connecto 1 x S-Video; Professional Y/C BNCs (main

- video 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 or DVD player)
- 1 x VGA (Content input from laptop)

- 2 x DB9
- Control port for custom integration with remote devices such as Crestron and AMX control systems
- Integration with Polycom Vortex® Installed
- Communication port for transmission of serial data (i.e. medical devices) over ISDN calls
- Auxiliary camera control

Video Outputs: 4 Connector

- 1 x S-Video; Professional Y/C BNCs (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 (Content display)

- NTSC/PAL Graphics: XGA, SVGA, VGA

- Pro-Motion interlaced video (60/50 fields full-screen video for NTSC/PAL)
- 4CIF (704 x 576)
- SIF (352 x 240)
- CIF (352 x 288)
- Choice of 4:3 or 16:9 display aspect ratios Display People on VGA Second Monitor

- XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480) for Content on 2nd VGA Displays (when used with primary NTSC/PAL display)
 People video support for 4CIF and SIF on 2nd VGA
- display
- Single monitor graphics display (800 x 600) Up to 4CIF for Content on NTSC/PAL displays

Audio Standards & Protocols

- Audio Standaros & Protocois
 Polycom StereoSurround ready
 14 kHz bandwidth with Siren™ 14 on IP, ISDN, and
- IP/ISDN mixed calls 7 kHz bandwidth with G.722, G.722.1
- 3.4 kHz bandwidth with G.711, G.728, G.729A

- Seamless integration with Polycom Vortex Installed Voice Products
- Audio add-in using SoundStation VTX 1000
- conference phone Audio add-in over ISDN
- Audio add-in over 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 for local and far-end microphones
- Microphone and VCR input audio mixing Ability to talk over VCR audio
- Ability to turn off Echo Cancellation when external audio equipment is used

Audio Inputs: 6 Connectors

- 1 x Conference link
- Supports up to (3) microphones
- Supports SoundStation VTX 1000 conference phone

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- 2 x RCA/Phono, line level input for VCR, DVD player

- 2 x Phoenix connectors; balanced line level or direct
- microphone inputs with 24 V Phantom powe 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

olycom Digital Tabletop Microphon

- 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.331
- H.239 People+Content H.231 in multipoint calls
- H 243 MCU password
- H.233, H.234, H.235V3 encryption standards
- Bonding, Mode 1

- IP (LAN, DSL, cable modem)
 Single 10/100 Ethernet port (10 bps/100Mbps/Auto)
- Optional ISDN QBRI (Basic Rate Interface) Module Optional ISDN PRI (Primary Rate Interface) Module
- Optional Serial Module (V.35/RS-530/RS-449 with RS-366 dialing)

Network Feat

- 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
- Polycom PathNavigator support for easy call placement
- and network cost optimization TCP/IP, UDP/IP, RTP, DNS, WINS, DHCP, ARP, HTTP, FTP,
- SIP Support (Session Initiation Protocol) Chair control through API command or Integrated
- Web Interface
- Software Upgradeable Inverse Multiplexer (IMUX)
- 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

- 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
- 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-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 presi
- 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
- 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

- 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 end-
- point 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 outgo-
- ing 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™
 - 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)
- Configurable video/audio/FECC service value
 DiffServ (DSCP) (COS)
- Dynamic Bandwidth Allocation Proactive Network Monitoring Packet and iitter control
- Network Address Translation (NAT) support Automatic NAT discovery
- 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

People+Content™ IP

play resolutions

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

- Show content from laptop/PC over IP network con-
- No resolution adjustment required on presenter's laptop/PC Supports CIF. SIF. 4CIF. 4SIF. VGA. SVGA. XGA dis-
- Zoom control Supports Windows 2000 and Windows XP PC Utility available for unimited download (required for each presenter's laptop/PC)

- 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

- Auto sensing power supply Operating voltage/power 85-264 VAC, 47-63 Hz/

72 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%

- 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

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

- Silent, motorized pan-tilt-zoom camera with imbedded
- Tilt Range: +/- 25° (Up/Down) Pan Range: +/- 100° (Left/Right)
- Total Field of View: 265* Horizontal resolution: 460 (PAL)/470 (NTSC) TV lines
- Zoom range: 10x Auto focus/white balance/brightness/iris
- om Digital Tableton Micr

- Flotation feet reduce transmission of tabletop noise
- People+Content Suppor
- Direct VGA-in connectivity
- Mixed protocol dialing connects a total of four end-points (IP/ISDN/Serial) through the internal MCU
- Dial-in/Dial-out Calling (IP/ISDN/Serial)
- Automatic IP/ISDN down speeding
- Supports People+Content from any endpoint
- Voice Activated Switching view current speaker Continuous Presence see all locations
- and continuous presence mode
 MP key installation while in a call
- IP/ISDN/Serial Video and ISDN Audio)
- Includes subwoofer, (2) high-fidelity speakers and speaker stands
 Subwoofer: 150 watts ouptut power; bass response to
- Speakers: frequency range 100 Hz to 22 KHz
- Ultra-quiet, ultra-fast action pan-tilt-zoom (PTZ)
 - Total Field of View: 265* Horizontal resolution: 460 (PAL)/470 (NTSC) TV lines
- Standards-based, far-end camera control (FECC)
- See details above
- See details above

- VSX 8800 Includes
 - microphones enables pointing to presets
 - Horizontal field of view: 65°

 - Standards-based, far-end camera control (FECC)
 - 360° voice pick up, 4.8 dB less reverberant than
 - omni microphone
 Three cardioid elements per microphon
 - Integrated mute button
 Can be mounted to ceiling or walls
 - People+Content IP ImageShare™ II
 - ernal Multipoint Features

 - Password protection for incoming calls Supports IP telephones
 - (Not just the host site)
 - Automatic Presentation switch between presenter
 - Audin add-in over ISDN Cascading for up to 10 conference participants (mix of

- VSX 8400 Includes
- Tilt Range: +/- 25° (Up/Down)
 Pan Range: +/- 100° (Left/Right)
 Horizontal field of view: 65°
- Zoom range: 10x Auto focus/white balance/brightness/iris

Polycom Digital Tabletop Microphones (2)

eople+Content Support

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