

# Polycom<sup>®</sup> VSX<sup>™</sup> 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<sup>™</sup> audio, delivering unprecedented audio clarity, in stereo. The slim-design VSX 8800 and 8400 systems deliver advanced video with H.264 and Pro-Motion<sup>™</sup> 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<sup>™</sup> collaboration, voice tracking PowerCam<sup>™</sup> 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<sup>TM</sup> 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.



Connect. Any Way You Want.

#### 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
- Video Standards & Protocols H 261 Annex D
- H.263+ Annexes: F, I, J, L, N, T
- H.263++ Annexes: W H 264
- ITU 60-fps full screen Pro-Motion
- Frame Bates (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)

### Serial Data Port: 2 Connector

- 2 x DB9 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 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)

Video Formats

NTSC/PAL Graphics: XGA, SVGA, VGA

## ple Video Resolutio

- Pro-Motion 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)
- 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 pri-
- mary 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 Standards & Protocols 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
- Audio Features 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
- 2 x RCA/Phono, line level input for VCR, DVD player or audio mixe

👯 POLYCOM<sup>®</sup>

www.polycom.com

2 x Phoenix connectors; balanced line level or direct

Closed captioning support

suitable with QuickTime® players

Language Support (12 languages)

Portuguese, Russian, Spanish

Environmental Specifications Operating Temperature: 0-40° C

Operating Humidity: 15-80% Non-Operating Temperature: -40-70° C

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

microphones enables pointing to presets

Zoom range: 10x Auto focus/white balance/brightness/iris

om Digital Tableton Micr

omni microphone Three cardioid elements per microphon

Integrated mute button Can be mounted to ceiling or walls

People+Content Suppor

Direct VGA-in connectivity

ernal Multipoint Features

People+Content IP

ImageShare™ II

Silent, motorized pan-tilt-zoom camera with imbedded

Total Field of View: 265" Horizontal resolution: 460 (PAL)/470 (NTSC) TV lines

Standards-based, far-end camera control (FECC)

360° voice pick up, 4.8 dB less reverberant than

Flotation feet reduce transmission of tabletop noise

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)

Password protection for incoming calls Supports IP telephones

Supports People+Content from any endpoint

Voice Activated Switching – view current speaker Continuous Presence – see all locations

Automatic Presentation - switch between presenter

Cascading for up to 10 conference participants (mix of

speaker stands Subwoofer: 150 watts ouptut power; bass response to

Includes subwoofer, (2) high-fidelity speakers and

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)

Zoom range: 10x Auto focus/white balance/brightness/iris

Polycom Digital Tabletop Microphones (2)

Automatic IP/ISDN down sneeding

and continuous presence mode MP key installation while in a call

IP/ISDN/Serial Video and ISDN Audio)

(Not just the host site)

Audio add-in over ISDN

Steren Sneaker Ki

VSX 8400 Includes

See details above

eople+Content Support See details above

Tilt Range: +/- 25° (Up/Down) Pan Range: +/- 100° (Left/Right) Horizontal field of view: 65°

35 Hz

.

am™ Plus Camora

Tilt Range: +/- 25° (Up/Down) Pan Range: +/- 100° (Left/Right)

Horizontal field of view: 65

72 Watts

Warranty

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al Ch

VSX 8800 Includes

Web Streaming in and out of a call. RTP based.

Chinese (Simplified), Chinese (Traditional), English, French, German, Italian, Japanese, Korean, Norwegian,

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/

Non-Operating Humidity (Non-condensing): 10-90%

Video Base Unit (W/H/D): 17.25"/1.73"/9.68";

User-friendly graphical interface Customizable home screen and color themes Kiosk mode with scrolling marquee

User-selectable camera icons and ring tones

Persistent Preview (Far-site PIP) on all screens Picture-In-Picture (PIP) (On/Off, Moveable)

Limitless multipoint entries Live address book with Polycom Global Directory

Live address book with Polycom Global Directory

Polycom Global Directory Services integrates with

Directory Server backup in the event Polycom Global

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-

Place a call from VSX Web Language independence between set-top interface and

System configuration from VSX Web Recent Calls Log – Records last 99 incoming and outgo-

Call Detail Record (CDR) – Reports all incoming and out-

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

Services automatically and quickly updates directory with address changes or new endpoints

Services automatically and quickly removes endpoints from directory if they are turned off

Up to (99) user defined camera presi

Numerical menu navigation (Similar to

Calendar and Conference scheduling

Speed Dial List on home page

Date Time Server accessibility

Do Not Disturb (On/Off) VSX Web for remote monitoring

4,000+ number global directory

1,000+ number local directory

Active Directory/LDAP

Directory is not accessible

stem Management

Automatic ISDN localization of calls

SNMP for enterprise management

point for security) Out-of-box setup from VSX Web

bound calls along with call statistics

purposes Administrator-configurable dialing speeds

Complete support for The Polycom OfficeTM

Polycom Global Management System

- Polycom OneDial - Polycom PathNavigator

Audio Error Concealment Universal Plug and Play (UPnP)

Dynamic Bandwidth Allocation Proactive Network Monitoring

Packet and iitter control

Lip synchronization Echo cancellation nization

Collabo People+Content™ IP

nection

play resolutions

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Zoom control

- Polycom Vortex

IP Precedence (ToS)

Polycom Conference Suite

Polycom MGC
Polycom SoundStation VTX 1000

Quality of Service and Experience – iPriority™ Video Error Concealment

Configurable video/audio/FECC service value DiffServ (DSCP) (COS)

Network Address Translation (NAT) support Automatic NAT discovery

Asymmetric speed control Alternate Gatekeeper support TCP/UDP fixed-port firewall support

Echo suppression Auto gatekeeper discovery Automatic gateway dialing profiles

Specify outbound call routing for gateway/ISDN

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-

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Supports Windows 2000 and Windows XP PC Utility available for unimited download

(required for each presenter's laptop/PC)

VSX Web

ing calls

including:

Alert Signal on home page

Dual-Monitor Emulation

mobile phone)

Directory Service

- 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
  - Interfaces Supported
  - 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
- T1/F1 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 if needed
- Polycom PathNavigator support for easy call placement
- and network cost optimization . TCP/IP, UDP/IP, RTP, DNS, WINS, DHCP, ARP, HTTP, FTP,
- Telnet
- SIP Support (Session Initiation Protocol) Chair control through API command or Integrated
- Web Interface Software Upgradeable Inverse Multiplexer (IMUX)
- Conference on Demano
- 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 oper-

ate 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

Dial-in meeting password Encrypted password for VSX Web access

Auto-Answer (On/Off) Allow access to user settings (On/Off)

Advanced Encryption Standard (AES)

to 2 Mbps Standards-based H.235V3 (IP)

Supported in People+Content

network calls

Polycom Headquarters:

Polycom Asia Pacific:

Polycom EMEA:

Ability to disable remote interfaces (FTP, Telnet

Ability to disable mixed protocol multipoint calls

FIPS validated by National Institute of Standards & Technology (NIST) certified agency 128-bit key length

Standards-based H.233/H.234 (ISDN/Serial) Automatic key generation and exchange

Supported in Point-to-Point IP, ISDN and mixed

AES software encryption on ISDN, IP and Serial/V.35 up

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Administrator password

HTTP, SNMP)

Embedded Encryption