Polycom® VSX™ 3000

A full-featured, integrated video conferencing system for the executive office and remote offices

The Polycom VSX™ 3000 is a stylish and compact video conferencing system that provides excellent video and audio quality. Featuring an integrated LCD screen, the Polycom VSX 3000 is the perfect video conferencing solution for executive suites and remote offices. As a fully integrated video conferencing system, the Polycom VSX 3000 delivers powerful video and audio performance and can act as a PC display when not in a video call – saving valuable desk space.

The Polycom VSX 3000 addresses the needs of executives by enabling business-quality video conferencing directly from their office, eliminating the need to attend personal video conferences from a large meeting room. The Polycom VSX 3000 helps off-site professionals such as regional sales representatives communicate easily with the home office. Consultants are able to stay in touch with corporate headquarters for training, meetings or face-to-face contact without the investment or space required for a group video conferencing system, or the continuous cost of travel.

The Polycom VSX 3000 offers exceptional video with H.264 video technology, and near CD-quality audio with Polycom Siren 14 and Polycom StereoSurround™. PC based content can be added to a VSX 3000 conference call cable-free by using the People+Content™ IP software option. You can also add a document camera or VCR/DVD to display pictures or movie files during a conference. And no matter what kind of content is sent, the conference participants can see both the presenter and the content simultaneously with Polycom Dual Monitor Emulation.

In today's Internet driven world, the ability to conduct real time communication and collaboration has become critical to an organisation'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 maximise productivity – over any network, in numerous environments, anywhere around the globe. That's why more organisations worldwide prefer using Polycom conferencing solutions. Because when people work together, great things happen.

- Completely integrated – All-in-one video conferencing system includes camera, display, stereo speakers and stereo microphones

- Versatile display – Built-in 17" LCD flat screen with additional ability to perform as a high resolution PC desktop display

- Superior, natural sound – Polycom StereoSurround™ delivers crisp, natural voice clarity – even when multiple parties are speaking simultaneously – by using dual channel, Siren™ 14 technology

- Outstanding video – Premium quality video at any bandwidth with smooth natural motion and sharp, clear images. Employs standard-based H.264 compression and Pro-Motion™ video for optimal video performance

- Multimedia made easy – Easily share documents or presentations in your meetings while also sharing video, using Polycom's unique People+Content™ IP technology

- Secure Conferencing – Ensuring your video conferences are secure and private through embedded encryption via secure video, audio and data traffic; secure web management, protection against unauthorised access (web, telnet, FTP).

- Network friendly – Features include video and audio error concealment, UPnP, NAT, Closed Captioning support, embedded encryption, plus Web streaming

- The Polycom Solution – Everything you need to deploy and manage a complete video conferencing network with Polycom ReadiManager SE 200, Polycom Global Management System™, Polycom PathNavigator™, Polycom Conference Suite™ and the Polycom MGC™

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POLYCOM®

H.323, SIP and H.320 compliant

Bandwidth
• Maximum Data Rate IP: 2 Mbps
• Maximum Data Rate ISDN: 512 Kbps

Video Standards
• H.261, Annex D
• 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 56Kbps up to 2Mbps
• 60 fields per second from 512Kbps to 2Mbps

Video Inputs
• Integrated main camera
• 1 x Composite; RCA/Phono (Document camera, VCR or second camera)

Video Formats
• NTSC/PAL

Integrated Main Camera
• 60˚ field of view
• Focus adjustment control
• Automatic white balance
• Automatic exposure control

People Video Resolution
• Pro-Motion interlaced video (60/50 fields full-screen video for NTSC/PAL)
• SIF (352 x 240), CIF (352 x 288)
• QSIF (176 x 120), QCIF (176 x 144)
• 4SIF (704 x 480), 4CIF (704 x 576) – VCR/Doc cam only

Content Video Resolution
• Send SIF, CIF, 4CIF, 4SIF, VGA, SVGA, XGA resolutions with People+Content IP
• Display up to 4CIF resolution

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
• ISDN voice calls
• Full-duplex digital audio
• Instant Adaptation Echo Cancellation
• Mixed video conference and PC audio
• Automatic Gain Control (AGC) – Voice activated
• Automatic Noise Suppression (ANS)
• Built-in tonal speaker test microphones
• Ability to talk over VCR audio

Audio Inputs
• Built-in dual stereo microphones with wide coverage area
• 2X RCA stereo line level for VCR

Audio Outputs
• Built-in stereo speakers, with separate audio volume control on video conferencing and PC monitor functionalities
• Headphone in front panel (3.5 mm stereo mini jack)
• Auxiliary line-level on back panel (3.5 mm stereo mini jack)

Other ITU-Supported Standards
• H.221 communications
• H.224/H.281 far-end camera control
• H.323 Annex Q far-end camera control
• H.225, H.245, H.239, H.241
• H.231 in multipoint calls
• H.243 MCU password

• H.233, H.234, H.235V3 AES encryption standards
• H.460 NAT/firewall traversal
• Bonding, Mode 1

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 Mbps/100Mbps/Auto)
• Optional Integrated Quad BRI (Basic Rate Interface)
• Optional wireless LAN support via customer provided wireless bridge

Network Features
• Integration with Cisco Systems® Call Manager V4.0
• Down speeding over IP and ISDN
• 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
• Path Navigator support for easy call placement and network cost optimisation
• TCP/IP, UDP/IP, RTP, DNS, WINS, DHCP, ARP, HTTP, FTP, Telnet
• Software Upgradeable Inverse Multiplexer (IMUX)

Internal Multipoint (Optional)
• Mixed protocol dialling connects a total of four endpoints (IP/ISDN/Serial) through the internal MCU
• Siren 14 Audio
• StereoSurround
• DME
• Dial-in/Dial-out Calling (IP/ISDN)
• Password protection for incoming calls
• Supports IP telephones
• Automatic IP/ISDN down speeding
• Supports People+Content™ from any endpoint
• Voice Activated Switching - view current speaker
• Continuous Presence - see all locations
• Automatic Presentation - switch between presenter and continuous presence mode
• Audio add-in over ISDN or IP
• Cascading for up to 10 conference participants

Conference on Demand
• Initiates unscheduled MGC calls from the endpoint
• Utilises the Polycom Office™ (Polycom PathNavigator and MGC)
• Auto selects either the internal or external bridge
• Dials all participants simultaneously

Security
• Account validation number entry
• SNMP trap notification of all failed login attempts from HTTP, FTP or Telnet
• FIPS 140-2 (Pre-validation List)
  - Secure web (HTTPS)
  - Secure Telnet, FTP
  - Security mode

• Secure password authentication
• Administrator password – in-room and remote access
• Dial-in meeting password
• 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 197 validated by National Institute of Standards & Technology (NIST) certified agency
• 128-bit key length
• AES software encryption on ISDN, IP
• Standards-based H.235V3 (IP)
• Standards-based H.233/H.234 (ISDN)
• Automatic key generation and exchange
• Supported in People+Content™
• Supported in Point-to-Point IP & ISDN & mixed multipoint calls

User Interface
• User-friendly graphical interface
• Customisable home screen and colour themes
• Kiosk mode with scrolling marquee
• User-selectable camera icons and ring tones
• 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
• Calendar and Conference scheduling
• Alert Signal on home page
• Do Not Disturb (On/Off)
• Closed Caption support through Web Interface

Directory Services
• 4,000 number global directory
• 1,000+ number local directory for single or multipoint entries
• Speed dial list displaying video buddy list
• 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 localisation of calls

System Management
• SNMP for enterprise management
• Baseline mode setting for legacy system interoperability
• Diagnostics and software upgrades via PC, LAN
• Integrated VSX Web for remote management
• 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 – last 99 incoming and outgoing calls
• Call Detail Record (CDR) – Reports all calls made from the system 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 dialling speeds

iPriority™ – Quality of Service Features
• Video Error Concealment
• Audio Error Concealment
• Universal Plug and Play (UPnP)
• IP Precedence (ToS)
  - Configurable video/audio/FECC service value

• DiffServ (DSCP) (COS)
• RSVP
• Adjustable packet size
• NAT/firewall traversal (H.460)
• Dynamic Bandwidth Allocation
• Proactive Network Monitoring
• Packet and jitter control
• Network Address Translation (NAT) support
• Automatic NAT discovery
• Asymmetric speed control
• Alternate Gatekeeper
• TCP/UDP fixed-port firewall support
• Lip synchronisation
• Echo cancellation
• Echo suppression
• Auto gatekeeper discovery
• Automatic gateway dialling profiles
• Specify outbound call routing for gateway/ISDN

Collaboration Solutions
• People and Content (PC, VCR/DVD, Doc cam) are displayed simultaneously
• People+Content™ IP (Optional)
  - Show content from laptop/PC over IP network-connection
  - Content shown in native resolution
  - Supports Windows® 2000 and Windows XP
• 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 dialling confirmation
  - VSX web
  - Remote control (no Hungarian/Polish)

PC Monitor Functionality
• Alternative use of display as PC monitor
• VGA input (up to SXGA, 1280x1024)
• VGA output as pass-through of VGA input
• Built-in stereo speakers for PC audio, with separate audio volume control from video conferencing functionality
• Video call audible indication when incoming call during PC monitor use
• Mixed audio when switching between video conference and PC

Electrical
• Auto sensing power supply
• Operating voltage/power 90-260 VAC, 47-63 Hz
• Max 118 VA@115v60Hz, 132 VA@220v50Hz
• Max Heat Dissipation: 444 BTU/hour
• Main, codec, monitor power switches

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
• Dimensions (W/H/D): 431mm X 476mm X 177mm (17.0" X 18.75" X 7.00")
• Weight: 9.1kg (20.0 lbs.)

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

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