Polycom® VSX™ 7000e

Award-winning mainstream video conferencing system offers you more flexibility than ever before

Introducing the Polycom VSX 7000e, a split video conferencing solution for medium to large-sized conference rooms.

Designed for flexibility, the Polycom VSX 7000e split systems are ideal for medium to large conference rooms where there is a requirement to have the camera and video system separated; for instance, configurations that include plasma or LCD displays or projection screens. The VSX 7000e configurations include a wide range of options that will match the needs of most meeting rooms, options such as data sharing, multiple cameras and video bridging capability.

Like the other award-winning products in the VSX line, the VSX 7000e includes Polycom StereoSurround™ for the best audio in the market, as well as Polycom Pro-Motion™ for optimal motion handling and video resolution. VSX 7000e customers can combine the SoundStation VTX1000® conference phone with their system, allowing them to make video calls through their conference phone and to use it as their stereo microphone, eliminating clutter and wires on the conference table. Take your choice of how you want to call – IP, SIP or ISDN – and be assured that your video conference is secure with the most up-to-date encryption standards.

The VSX 7000e makes it easy to get started by giving you the option of connecting either a VGA or TV display as your main display. For applications that require content sharing, connect both a TV (for People) and a VGA (for Content). The VSX 7000e is designed for maximum flexibility combined with easy installation and setup – allowing any user to quickly and easily configure their VSX 7000e system for immediate video conferencing.

The different connection options, all of which are plug-and-play, allow you to connect a VCR for record and playback, a second camera (document camera or another video source), and attach a PC to display content from the Web or from a local or network directory. Once these other video and content sources are connected, users can easily show a movie file, PowerPoint® presentation, pictures, live video feeds, as well as play audio files – all while participating in a video conference. And the other participants in the video conference can always see the people speaking as well as the content being shown, imitating the environment of everyone being in the same room.

Your single platform choice for conference management and scheduling to access the power of Polycom's 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.

Benefits

Sleek video component design – 1U height rack-mountable system plus PowerCam™ camera including a microphone array and remote control

Superior, natural sound – Polycom StereoSurround™ delivers crisp, natural voice clarity - even when multiples 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 viewing

Multimedia made easy – Show high-res images, movies or presentations in your meetings while also sharing video. And, you can connect your PC directly to the VSX 7000e or share content cable-free using Polycom's unique People+Content™ IP technology

Flexible connections – Supports multiple camera and displays including single XGA monitors, high resolution document camera, DVD and VCR for playback and record

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 and wires

Complete solution packages – Combine the VSX 7000e 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 Global Management System™, Polycom PathNavigator™, Polycom Conference Suite™ and the Polycom MGC™

POLYCOM®

ITU H.323 and H.320 compliant

Bandwidth
- 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 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 Connectors
- 1 x S-Video Main Camera or
- PowerCam™ 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 Connectors
- 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 or IP calls
  - Auxiliary camera control

Video Outputs: 4 Connectors
- 1 x S-Video (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 (Main or content display)

Video Formats
- NTSC/PAL
- Graphics: XGA, SVGA, VGA

People Video Resolution
- 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

Content Video Resolution
- XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480) for or 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 (1024 X 768)
- Up to 4CIF for Content on NTSC/PAL displays

Audio Standards & Protocols
- Polycom Siren 14 StereoSurround
- 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)
- Ability to turn off Echo Cancellation when external audio equipment is used
- 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

Audio Inputs: 4 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 mixer
- 2 x RCA stereo
- 1 x RJ-11 for analog speaker telephone

Audio Outputs: 4 Connectors
- 2 x RCA Phono connectors; balanced line level output
- 2 x RCA/Phono, Line Level output for VCR record
- 2 x RCA/Phono, Line Level output for speakers

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.241, 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

Network 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/E1
- Optional Serial Module (V.35/RS-530/RS-449 with RS-366 dialing)

Network Features
- SIP Support (Session Initiation Protocol)
- Integration with Cisco Systems® CallManager Version 4.0
- 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
- Chair control through API command or Integrated Web Interface
- Software Upgradeable Inverse Multiplexer (IMUX) Conference on Demand
- Initiates unscheduled MGC calls from the end-point
- Utilizes Polycom Office™ (PathNavigator & 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
- Customizeable 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
- Speed dial list displaying video buddy list
- Limitless 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

System Management
- SNMP for enterprise management
- Baseline mode setting for legacy system interoperability
- 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)
  - Configurable video/audio/FECC service value
- DiffServ (DSCP) (COS)
- RSVP
- Dynamic Bandwidth Allocation
- Proactive Network Monitoring
- Packet and jitter 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

Collaboration Solutions
- People and Content (PC, VCR/DVD, Doc cam) are always displayed simultaneously
- Direct VGA-in connectivity
- People+Content IP
- Show content from laptop/PC over IP network connection
- No resolution adjustment required on presenter's laptop/PC
- Supports CIF, SIF, 4CIF, 4SIF, VGA, SVGA, XGA display resolutions
- Zoom control
- Supports Windows® 2000 and Windows XP
- Adjustable bandwidth for content
  - 10% Content, 90% People
  - 50% Content, 50% People
  - 90% Content, 10% People
- 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 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%

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

POLYCOM®

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