

# VIDEOCONFERENCING EQUIPMENT

(Used by the New Jersey Department of Corrections)

## **POLYCOM VSX 5000 (H.320 ISDN)**



### Video Standards & Protocols

- H.261
- H.263++
- H.264
- People+Content / H.239
- H.263 and H.264 Video Error Concealment

### People Video Resolution

- Receives Polycom Pro-Motion 60/50 fields per second (full screen video for NTSC/PAL Applications)
- NTSC 30 fps at 56Kbps-768Kbps
- PAL 24fps at 56Kbps-768Kbps
- 4SIF (704 x 480), 4CIF (704 x 576) \*2<sup>nd</sup> video only
- 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 resolution

- XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480) for single monitor VGA or when using VGA as 2<sup>nd</sup> monitor

### Audio Standards & Protocols

- 14kHz bandwidth with Polycom Siren 14, G.722.1 Annex C
- 7kHz bandwidth with G.722, G.722.1
- 3.4 kHz bandwidth with G.711, G.728, G.729A
- Polycom StereoSurround
- Automatic Gain Control
- Automatic Noise Suppression
- Instant Adaptation Echo Cancellation
- Audio Error Concealment

### 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.241, H.331
- H.231 in multipoint calls
- H.243 chair control
- H.460.18/.19 NAT/firewall traversal
- BONDING, Mode 1

### Network

- H.320 - ISDN Quad BRI up to 512 Kbps
- H.323 up to 768 Kbps
- SIP up to 768 Kbps
- SCCP up to 768 Kbps
- IPriority to QoS

### User Interface

- COD (PathNavigator Conference on Demand)
- Embedded AES FIPS 197, H.235V3 and H.233/234
- Directory Services
- System Management
  - Web based
  - SNMP
  - GMS
- CDR
- API Support
- Auto SPID detection and line number configuration
- International languages (15)

### Security

- FIPS 140-2 (Pre-validation List)
  - Secure web (HTTPS)
  - Secure TLS in Web, Telnet, FTP
  - Security mode
- Secure password authentication
- Embedded AES FIPS 197, H.235V3 and H.233/234

### Electrical

- Auto sensing power supply
- Operating voltage/power 90-260 VAC, 47-63 Hz/80 Watts
- Max 75 VA@115v60Hz, 85VA@220v50Hz
- Max Heat Dissipation; 273 BTU/hour

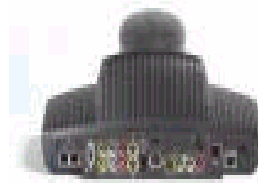
### Environmental Specification

- Operating Temperature: 0-40C
- Operating Humidity: 15-80%
- Non-Operating Temperature: -40-70C
- Non-Operating Humidity (Non-condensing): 10-90%
- Maximum altitude is 10,000 feet

### Physical Characteristics

- Video Base Unit (W/H/D): 11.83"/ 5.25"/ 10.02"; 300.3 mm / 133.26 mm / 254.5 mm
- Video Base Unit Weight: 4.4 lbs: 1.94 kg

## POLYCOM VIEWSTATION SP384 (H.320 ISDN)



### Standards Supported

- ITU-T H.320 (px64), H.323

### Video Standards

- H.261, Annex D
- H.263+, Annexes L, F, T, I

### Other ITU Supported Standards

- H.221 Communication
- BONDING, Mode 1
- H.281 Far end camera control

### Video Resolution

- FCIF; QCIF

### Graphics Resolution

#### Slide Transmission Format

- H.261 Mode: 4 x FCIF

### Graphic Image Capture

- JPEG via web browser

### Frame Rate

- H.320 Calls: 15 fps @56-320 Kbps
- H.320 Calls: 30 fps @336-768 Kbps
- H.323 Calls: 15 fps @56-320 Kbps
- H.323 Calls: 30 fps @384-768 Kbps

### Transmission Speed (data rates)

- H.320: 64-384 Kbps
- H.323: 64-768 Kbps

### Video Inputs (NTSC or PAL)

#### Main Camera / Document Camera or VCR

- S-Video or Composite

### Video Outputs (NTSC or PAL)

#### Main Monitor

- S-Video or Composite

### Main Monitor Auto-PIP System

- Auto-on, Auto-Swap, Auto-Off

### Integrated Main Camera

#### Image Sensor

- 1/3 in IT CCD

### Lens

- 12 x Zoom; f=5.4 to 64.8 mm
- F=1.8 to 2.7 mm: Auto Focus

### White Balance

- Automatic

### Camera Presets

- 10 Presets local camera / far-end camera

### Tracking Technique

- Voice tracking or track to presets

### Audio Standards

- G.728, G.722, G.711
- Polycom Acoustic Plus 716

### Full Duplex Digital Audio

- Instant adaptation echo cancellation
- Automatic gain control
- Automatic noise suppression

### Audio Inputs/Outputs

#### Digital Microphone

- Headset microphone (Optional)
- Main monitor left and right audio-out
- Headset speaker

#### Digital Microphone Pod

- Coverage 360 degrees
- Microphones have 3 hypercardioid elements
- Omni-directional coverage

### Remote Management

- Extensive diagnostics and software upgrades via PC, LAN or video call
- Supports Polycom Global Management System and Global Address Book

### Ethernet/Internet/Intranet Connectivity

- Supports TCPI/IP, DNS, WINS, SNMP, DHCP, ARP, WWW, ftp, Telnet
- 10/100 Mbps, Ethernet port
- T.120 Interface with Showstation IP, Webstation and Microsoft NetMeeting

### Webconferencing

- Integrated presentation system supports Microsoft Powerpoint and NetMeeting
- Polycom SNAP - for high resolution graphics capture
- VGA In with optional scan converter

### Network Interface

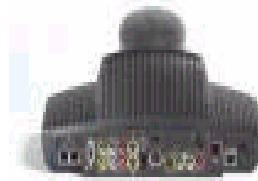
#### ISDN Protocols

- NI-1, 5ESS, DMS100, ETSI
- Auto Network Setup
- Auto-SPID and switch detection

### Electrical

- Auto-sense power supply
- Operating voltage/power
- 90-260 VAC, 47-63Hz/ 40 watt

## POLYCOM VIEWSTATION EX (H.320 ISDN)



### Bandwidth

- Max data rate H.320; up to 512 Kbps
- Max data rate H.323; up to 768 Kbps

### Video Standards

- H.261, Annex D
- H.263+, Annexes L, F, T, IJ, U, u
- H.263++, Annex D
- ITU 60 Fields per second letterbox

### Other ITU Supported Standards

- ITU H.323 and H.320 compliant
- Cisco AAVID certified

### Video Features

- Automatic VCR recording of all endpoints based on the person who is talking.
- Automatic picture-in-picture (PIP).
- NTSC, PAL, XGA, SVGA and VGA formats.

### Video Inputs

- Integrated main camera
- 1 x MiniDin S-Video (document camera)
- 1 x RCA/Phono, composite (VCR)

### Video Outputs (5 Outputs)

- 2 x MiniDin S-Video (support for 4 independent monitors)
- 1 x RCA/Phono, composite (Monitor)
- 1 x RCA/Phono, composite (VCR)
- 1 x XGA (Projector)

### Audio Standards

- 7 kHz G.722, G.722.1
- 3.4 kHz with G.711, G.728

### Audio Features

- Instant adaptation echo cancellation
- Automatic gain control (AGC)- Voice activated
- Automatic noise suppression (ANS)
- Built-in speaker tonal test
- Audio level meter
- Audio mixer
- Telephone POTS support
- Ability to talk over VCR audio

### Audio Inputs (4 inputs)

- RJ-9 to microphone (daisy chain up to 2 microphone pods)
- 2 x RCA / phono line level (VCR)
- 1 x RCA / phono line level (VCR)

### Audio Outputs (4 inputs)

- 2 x RCA / phono line level (Main audio)

- 2 x RCA / phono line level (VCR)

### Frame Rates (Point-to-Point)

- H.320 Calls: 15 fps @56-320 Kbps
- H.320 Calls: 30 fps @336-768 Kbps
- H.323 Calls: 15 fps @56-320 Kbps
- H.323 Calls: 30 fps @384-768 Kbps
- Automatic IP and ISDN downspeeding
- Continuous presence or voice-switched

### Network features

- Automatic H.320/H.323 calling
- Downspeeding over ISDN and IP
- Maximum call length timer
- Auto SPID detection and configuration
- NATO standard KG-194/KIV-7 encryptor support with on-screen and address book dialing
- Software upgradeable Inverse Multiplexer (IMUX)
- Dial ISDN lines separately or simultaneously

### Security Features

- Independently tested for endpoint security
- Enhanced integration for independently certified corporate and classified encryption devices
- Secure password authentication
- Unique factory default passwords
- Administrator password
- Dial-in meeting password
- Select which menu screens to password protect
- SNMP security alerts for failed and successful password authentication attempts
- Option to disable remote interfaces
- Option to disable mixed protocol Multipoint Plus calls

### Ethernet/Internet/Intranet Connectivity

- Supports TCPI/IP, DNS, HTTP, WINS, SNMP, DHCP, ARP, FTP, Telnet
- T.120 Interface for Microsoft NetMeeting
- Internal live video unicast or multicast stream to Apple Quicktime, Cisco IP/TV

### System Management

- SNMP management
- Software upgrades via PC, IP or ISDN video call
- Web server for remote management and MS Powerpoint presentations
- Remote administrator video only monitoring rooms or calls from integrated web server
- Administrator configurable dialing speeds

### Electrical

- Auto-sense power supply
- Operating voltage/power
- 90-260 VAC, 47-63Hz/ 40 watts