

Polycom® HDX 8000™ Series

Flexible-high definition video, voice,
and content communication



High-definition visual communication solution for
conference rooms, classrooms and meeting places worldwide

For organizations migrating to high-definition video and audio communication, Polycom® HDX 8000™ Series systems provide a flexible and robust solution ideally suited for distance education, remote medical diagnosis, on-demand project collaboration and more.

Precisely Engineered for Superior Clarity

The clarity of Polycom HDX 8000 Series systems enables users to interact over video freely and naturally, and with the HDX 8000 Series systems' embedded multipoint and content-sharing capabilities, remote team members can quickly and easily be brought together collaborate on projects visually in this superior telepresence solution.

Designed to high-definition standards, Polycom HDX 8000 Series systems solutions utilize Polycom HD Voice™ technology to convey distortion-free voices and sounds, while Polycom StereoSurround audio technology separates room sounds into left and right channels, giving an immediate sense of the physical location of opposite-end participants.

Rich-Media Presentations Made Easy

For media-rich group presentations, Polycom HDX 8000 Series systems enable users to display rich-media content and data easily, enhancing collaboration and audience participation. And utilizing Polycom HDX 8000 Series systems in tandem with Polycom's unique People On Content™ collaboration technology allows presenters to insert their video images into projected content to explain key elements more clearly.

Polycom HDX 8000 Series systems are a key element of the total Polycom visual communication solution, which includes seamless integration with the Polycom RMX 1000™ or RMX 2000™ conference platforms, Polycom Converged Management Application™ 5000 for management and scheduling, or the Polycom SoundStation® IP 7000 conference phone for an integrated voice and video experience.

Find Out More

Learn what the Polycom HDX 8000 series can do for your organization. Visit us at www.polycom.com or contact your Polycom representative.

Benefits

- ▶ High-definition video – Up to 1920 x 1080 (1080p) video resolution or 1280 x 720 (720p) resolution at 30 fps or 60 fps for excellent video quality at all data rates
- ▶ High-definition voice – Polycom Siren™ 22 and Polycom StereoSurround™ technology for powerful, superior room-filling audio performance
- ▶ High-definition content sharing – Clarity and ease of sharing multimedia content from video to slide presentations in crisp high-definition
- ▶ Flexible furniture solutions – Stunning high-definition displays, powerful audio output and stylish design available in optional packaged furniture solutions

Polycom HDX 8000 Specifications

Models

- Polycom HDX 8000 Package includes Polycom EagleEye™ or EagleEye 1080 (8006 only) camera, codec microphone array, cables and remote control
- XL Package includes Polycom People+Content™ and People on Content
- XLP Package includes content sharing, MPPlus and increased bandwidths

Video Standards & Protocols

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

People Video Resolution

- 720p, 30fps at 832 Kbps–4 Mbps
- 720p, 60fps at 1.2 Mbps–6 Mbps (8006)
- 1080p, 30fps at 1.7 Mbps–6 Mbps (8006)
- 4SIF (704 x 480)/4CIF (704 x 576) at 256 Kbps–784 Kbps
- SIF (352 x 240), CIF (352 x 288)
- QSIF (176 x 120), QCIF (176 x 144)
- HD Continuous Presence Multipoint

Content Video Resolution

- Up to 720p
- Input: WSXGA+ (1680x1050), SXGA (1280x1024), HD (1280x720) XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480)
- Output: 720p (1280x720), 1080 (1920x1080), XGA (1024x768), SVGA (800x600)

Camera

- Polycom EagleEye Camera
 - 1280 x 720p CCD imager
 - 12X optical zoom
 - 72deg FOV at min zoom
 - +/- 100 deg pan range
 - +20/-30 deg tilt range
 - Output formats:
 - SMPTE 296M 1280 x 720p, 50/60 FPS
- Polycom EagleEye 1080 Camera
 - 1/3 2 MP CMOS Imager
 - 10x optical zoom
 - 70 deg FOV at min zoom
 - +/- 100 deg pan range
 - +/- 25 deg tilt range
 - Output formats:
 - SMPTE 274M 1920 x 1080p 30/25 FPS
 - SMPTE 296M 1280 x 720p 60/50/30/25 FPS
 - SMPTE 292M 1920 x 1080i 50/60 FPS

Audio Standards & Protocols

- Polycom StereoSurround
- 22kHz bandwidth with Polycom Siren 22
- 14kHz 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
- Automatic Gain Control
- Automatic Noise Suppression
- Instant Adaptation Echo Cancellation
- Audio Error Concealment
- Keyboard Noise Reduction

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.239 dual stream
- H.231 in multipoint calls
- H.243 chair control
- H.460 NAT/firewall traversal
- BONDING, Mode 1

Network

- Interface
 - 2-port 10/100 auto NIC switch, RJ45 connectors
 - RJ11 analog phone connector
- H.323 up to 6 Mbps (8006 or optional), up to 4 Mbps (8004 or optional on 8002I), up to 2 Mbps (8002)
- SIP / H.323 Dual Stack
- H.320 (Optional)
 - ISDN Quad BRI
 - ISDN PRI T1 or E1
 - Serial (RS449, V.35, RS 530) up to 2 Mbps
- iPriority™ for QoS
- Reconfigurable MTU size
- Auto SPID detection and line number configuration
- Polycom Lost Packet Recovery™ (LPR™) for QoS
- CMA Enhancements
 - H.350
 - XMPP Presence
 - XML provisioning over HTTPS

User Interface

- Directory Services
- System Management
 - Web-based
 - SNMP
 - Polycom Converged Management Application™
- RSS 2000 integration with HDX remote control
- CDR
- API support
- International languages (17)

Security

- Secure Web
- Security Mode
- Embedded AES FIPS 197, H.235V3 and H.233/234

- Secure password authentication
- FIPS-140

Options

- Content Sharing
 - Polycom People+Content,
 - People+Content IP
 - People On Content
 - MPPlus software for up to 4 sites
- Network Interfaces Modules
- 4 Mbps line rate (Polycom HDX 8002 only)
- Additional video inputs and outputs (Polycom HDX 8002 only)
- IP 7000 speakerphone Integration
- HDX Media Center packaged solutions

Electrical

- Auto sensing power supply
- Typical operating voltage/power 189VA @ 115V @ 60 Hz @ .67 PF
- Typical operating voltage/power 192VA @ 230V @ 60 Hz @ .66 PF
- Typical operating voltage/power 196VA @ 230V @ 50 Hz @ .65 PF

These numbers were empirically collected under TYPICAL operating conditions. No attempt was made to force max power consumption. Voltages and currents are RMS. Power units are Volt-Amp.

Environmental Specification

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

Physical Characteristics

- Polycom 8000 Series Base Box with removable stand
 - 13.87" (H) x 5.08" (W) x 11" (D)

Warranty

- One-year return to factory parts and labor
- 90-day software warranty

Technical Documentation

- Award-winning documentation for setting up, maintaining, and using the system
- Available at www.polycom.com/videodocumentation

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