

Polycom® HDX® 9000 Series

Premier Video Conferencing Systems for High Impact Visual Experiences

The ultimate high definition integrator's codec, designed to be the heart of your telepresence solution

Raising the bar for performance and flexibility, Polycom® HDX® 9000 series video conferencing systems deliver high-definition collaboration experiences to conference rooms, lecture halls, executive suites and more.

High-Performance Architectures Radically Boost Visual Communication

Polycom HDX 9000 series systems powerfully and seamlessly integrate with rich-media tools to enhance any presentation or meeting environment. Through integration of Polycom HDX 9000 series systems' powerful set of APIs and abundant video and audio connectors, customers can create and customize conferencing solutions for simple to advanced applications, including auditoriums utilizing multiple cameras, projectors and displays; executive boardrooms with touch-panel displays, recessed lighting and individual participant monitors; and training facilities with high-definition lecture recording systems and HD document cameras. Polycom HDX 9000 series systems also offer greater conferencing flexibly with the optional embedded multipoint feature, which allows multiple sites to be brought online quickly and easily.

High-Quality, Natural Interaction

Life-like conference audio for Polycom HDX 9000 series systems environments is driven by Polycom Siren™ 22 and Polycom StereoSurround™ technologies, enabling attendees to hear remote participants' voices in stereo through left and right dual-mode speakers within a single microphone array. Polycom HDX 9000 series systems are powerful enough to discern the subtlest of sounds and transmit them to others in the conference, enabling clearer and less ambiguous communications and more efficient meetings.

About Polycom

Polycom is the global leader in standards-based unified communications (UC) solutions for telepresence, video, and voice powered by the Polycom® RealPresence® Platform. The RealPresence Platform interoperates with the broadest range of business, mobile, and social applications and devices. More than 400,000 organizations trust Polycom solutions to collaborate and meet face-to-face from any location for more productive and effective engagement with colleagues, partners, customers, specialists, and prospects. Polycom, together with its broad partner ecosystem, provides customers with the best TCO, scalability, and security for video collaboration, whether on-premises, hosted, or cloud-delivered. Visit www.polycom.com or connect with Polycom on Twitter, Facebook, and LinkedIn.



Benefits

- **High-definition video conferencing** – Natural communications up to 1920 x 1080 at 30 fps (1080p), with exceptional resolution even at lower data rates
- **High-definition voice** – Polycom Siren™ 22 and Polycom StereoSurround™ technologies for powerful, superior room-filling audio performance
- **High-definition content sharing** – Polycom collaboration technology for sharing graphics, presentations and rich-media content with HD and non-HD systems
- **Flexible, simplified integration** – 2U design, flexible video and audio inputs and outputs for integration into many types of rooms and environments, with complete system remote control



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Polycom HDX 9000 Series Specifications

Package Includes

- Codec, 6 Mbps point-to-point, Polycom People+Content™, People+Content IP, People on Content™ technologies, cables and remote control

Video Standards and Protocols

- H.264, H.264 High Profile IP, H.263+, H.261
- H.239 / Polycom People+Content technology
- H.263 & H.264 Video Error Concealment

Video Input

- 2 x Polycom EagleEye III HD cameras
- 1 x Component (main camera #1)
- 1 x Component (VCR/DVD)
- 1 x DVI-I

Video Out

- 2 x DVI-I HD video out
- 1 x BNC (S-Video/Composite) VCR

People Video Resolution

- 720p, 30 fps from 512 Kbps
- 720p, 60 fps from 832 Kbps
- 1080p, 30 fps from 1024 Kbps
- 4SIF/4CIF, 30 fps from 128 Kbps
- 4SIF/4CIF, 60 fps from 512 Kbps
- SIF (352 x 240), CIF (352 x 288)
- QSIF (176 x 120), QCIF (176 x 144)

Content Video Resolution

- Resolutions supported: HD (1920 x 1080) WSXGA+ (1680 x 1050), SXGA (1280 x 1024), HD (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480)
- Output: 720p (1280 x 720), 1080 (1920 x 1080), XGA (1024 x 768), SVGA (800 x 600)
- Content Frame Rate: 5 - 30 fps

Camera (optional)

- Polycom EagleEye III Camera
 - SMPTE 296M 1280 x 720p60 SMPTE 274M 1920 x 1080p, 60/50
 - 12x optical zoom
 - 72° FOV min
- Polycom EagleEye View camera
 - 1920 x 1080 EPTZ camera
 - 4X digital zoom, 55° FOV min
 - Internal stereo microphones

Audio Input

- 4 HDX microphone arrays supported
- 1 x Line-level stereo in (Phoenix)
- 1 x PC audio in (Phoenix)
- 1 x VCR / DVD stereo audio-in (Phoenix)

Audio Output

- 1 x stereo output (Phoenix)
- 1 x VCR / DVD stereo audio-out (Phoenix)

Audio Standards and Protocols

- Polycom StereoSurround™
- 22 kHz bandwidth with Polycom Siren™ 22

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- 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

Polycom Constant Clarity™

- Automatic gain control
- Automatic noise suppression
- Keyboard noise reduction
- Live Music Mode
- Instant adaptation echo cancellation
- Audio error concealment
- Siren™ Lost Packet Recovery™ (LPR™) technology

Other Supported Standards

- H.221, H.224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.331, H.239, H.231, H.243, H.460, BONDING, Mode 1
- BFCP (RFC 4562)

Network

- Polycom iPriority™ for QoS
 - 10/100 auto NIC (RJ45)
 - Auto-MDIX
 - H.323 and/or SIP up to 6 Mbps
 - Polycom Lost Packet Recovery™ (LPR™) technology
 - Reconfigurable MTU size (IP only)
 - 2 x RS232 (camera control on both)
Second RS232 port includes:
 - Data pass-through
 - Audio mixer control
 - Full serial API support
 - H.320 (optional)
 - ISDN Quad BRI, PRI T1 or E1
 - Serial (RS449, V.35 RS530 with RS366 dialing)
 - Auto SPID detection and line number configuration
 - 1 x Analog phone interface (POTS)
 - Microsoft® Office Communications Server integration
 - Microsoft® ICE support
 - Microsoft® Lync™ support
 - IBM® Sametime™ support
- ## User Interface
- Directory services
 - System management
 - Web-based
 - SNMP

- Polycom Converged Management Application™ (CMA™) solution

- International languages (16)
- Wildcard language tool
- USB software update

Security

- Secure Web
- Security mode
- AES FIPS 197, H.235V3 and H.233/234
- FIPS 140-2 Validation Certificate (#918)
- IPv6 (DISA)
- www.polycom.com/govcerts
- Secure password authentication

Options

- Polycom Touch Control
- Polycom UC Board
- Polycom EagleEye Director
- EagleEye Cameras
- HDX microphone array
- Ceiling microphones
- Extension cables
- MPPlus software for up to 4 sites (HDCP)
- Network interfaces modules
- IP 7000 speakerphone integration
- Polycom HDX Media Center options
- IR remote receiver
- RTV/C CCP
- TIP

Electrical

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

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

- Video base unit
 - 17.2" x 3.4" x 14.5" (H/W/D standing)
 - 20 lbs (9.1 kg)

Warranty

- One-year return to factory parts and labor

