

## Polycom<sup>®</sup> HDX<sup>®</sup> 9000 Series

### Premier video conferencing systems for high impact visual experiences

Raising the bar for performance and flexibility, Polycom<sup>®</sup> HDX<sup>®</sup> 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 flexibility 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<sup>™</sup> 22 and Polycom StereoSurround<sup>™</sup> 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.



#### 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<sup>™</sup> 22 and Polycom StereoSurround<sup>™</sup> 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

#### Package includes

- Codec, 6 Mbps point-to-point, 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
- H.263 & H.264 Video Error Concealment

#### Video input

- 2 x EagleEye HD camera
- 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 S-Video

#### 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
- Content Sharing: People+Content™ and People+Content IP

#### Camera (optional)

- Polycom EagleEye III Camera
- SMPTE 296M 1280 x 720p60
- SMPTE274M 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

- 2 HDX microphone arrays supported
- 1 x Line-level stereo mini (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 technology
- 14 kHz bandwidth with Polycom Siren 14 technology, 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, H224/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 4 Mbps
- Polycom Lost Packet Recovery™ (LPR™) technology
- Reconfigurable MTU size (IP only)
- SIP Firewall Traversal (Acme Packet)
- 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 Covered Management Applications™ (CMA™) technology
- 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](http://www.polycom.com/govcerts)
- Secure password authentication

#### Options

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

#### Electrical

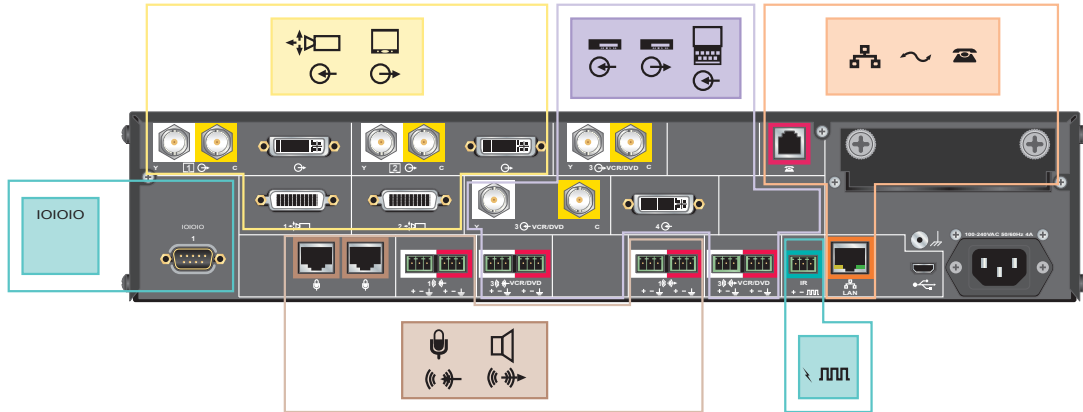
- Auto sensing power supply
- Typical operating voltage/power
  - 189VA @ 115V @ 60 Hz @ .67 PF
  - 192VA @ 230V @ 60 Hz @ .66 PF
  - 196VA @ 230V @ 50 Hz @ .65 PF

#### 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
- HDX 9000 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



Polycom® HDX® 9000 Series Rear Panel

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[www.polycom.com/polycom-capital](http://www.polycom.com/polycom-capital)

## 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](http://www.polycom.com) or connect with Polycom on Twitter, Facebook, and LinkedIn.

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