



## DATA SHEET

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# Polycom® HDX® 9000 Series

## Premier video conferencing systems for high impact visual experiences

Raising the bar for performance and flexibility, Polycom® HDX® 9000 series room telepresence 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™ 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 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™ 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

## Product specifications

### Package includes

- Codec, 6 Mbps point-to-point, Polycom® People+Content™, Polycom® People+Content IP, Polycom® 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 Polycom® 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

- 4 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
- Polycom® MusicMode™
- Instant adaptation echo cancellation
- Audio error concealment
- Polycom® Siren™ Lost Packet Recovery

### 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

- Polycom® SmartPairing™ technology
- 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)
- Secure password authentication

### Collaboration

- Polycom® VisualBoard™ Technology
  - Touch monitor compatibility
  - Direct mouse integration
  - Multi-site collaboration
  - Polycom® UC Board™ (optional)

### Options

- Polycom® Touch Control
- Polycom® EagleEye™ Director
- Polycom® EagleEye™ cameras
- Polycom® 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 ft

**Physical characteristics**

- HDX 9000 base unit
- 17.2 x 3.4 x 14.5” (H x W x 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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**About Polycom**

Polycom is the global leader in open standards-based unified communications and collaboration (UC&C) solutions for voice and video collaboration, trusted by more than 415,000 customers around the world. Polycom solutions are powered by the Polycom® RealPresence® Platform, comprehensive software infrastructure and rich APIs that interoperate with the broadest set of communication, business, mobile and cloud applications and devices to deliver secure face-to-face video collaboration in any environment.

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