POLYCOM®

A POLYCOM DATA SHEET

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 a customer's 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.

Find Out More

Learn what the Polycom HDX 9000 series can do for your organization. Visit us at www.polycom.com or contact your Polycom representative.



Benefits

- High-definition video – Up to1920 x 1080 (1080p) video resolution or 1280 x 720 (720p) resolution up to 60 fps for excellent video quality at all 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

Polycom HDX 9000 Series Specifications

Package Includes

- Codec, HDX Microphone Array, 6 Mbps point-to-point, Polycom People+Content™, People+Content IP, People on Content™, 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 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: 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: 30 fps

Camera (optional)

- Polycom EagleEye camera
  - 1280 x 720p CCD imager
  - 12X optical zoom, 72° FOV
- Polycom EagleEye II camera
  - 1920 x 1080 CMOS imager
  - 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 Standards and Protocols

- Polycom StereoSurround™
- 22 kHz bandwidth with Polycom Siren™ 22
- 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
- Automatic gain control
- Automatic noise suppression
- Keyboard noise reduction
- Live Music Mode
- Instant adaptation echo cancellation
- Audio error concealment

Other ITU-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

Network

- Polycom iPriority™ for QoS
- Interfaces
  - 2-port 10/100 auto NIC switch (RJ45)
- H.323 and/or SIP up to 6 Mbps
- Polycom Lost Packet Recovery™ (LPR™)
- 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

User Interface

- Directory services
- System management
  - Web-based
  - SNMP
  - Polycom Converged Management Application™ (CMA™)
- International languages (17)
- Wildcard language tool
- Polycom Translation 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

- 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

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

Warranty

- One-year return to factory parts and labor

** Only available through Polycom Channel Partners in certain geographic regions.*

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