

Polycom® HDX 9004

Technical Specifications



Video Standards & Protocols

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

People Video Resolution

- 720p, 30fps at 1Mbps–4Mbps
- 4SIF (704 x 480)/4CIF (704 x 576) at 256Kbps–1Mbps
- SIF (352 x 240), CIF (352 x 288)
- QSIF (176 x 120), QCIF (176 x 144)
- Choice of native 4:3 or 16:9 display aspect ratios

Content Video Resolution

- Up to 720p, 30fps
- Input: SXGA (1280x1024), XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480)
- Output: XGA (1024x768), SVGA (800x600)

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

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

- Interfaces
 - 10/100/1000 auto NIC, RJ45 connector
 - RJ11 analog phone connector
- H.323 up to 4Mbps pt-to-pt, 6Mbps total with MPPPlus
- SIP up to 4Mbps
- H.320
 - ISDN Quad BRI
 - ISDN PRI T1 or E1
 - Serial (RS449, V.35, RS 530) up to 2Mbps
- iPriority for QoS
- Reconfigurable MTU size
- Auto SPID detection and line number configuration

User Interface

- COD (PathNavigator Conference on Demand)
- Directory Services
- System Management
 - Web based
 - SNMP
 - GMS
- CDR
- API support
- International languages (16)

Security

- Secure web
- Secure Telnet
- Security mode
- Embedded AES FIPS 197, H.235V3 and H.233/234
- Secure password authentication

Options

- Polycom EagleEye HD 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
 - Component, YPbPr output
- People On Content™

- MPPPlus software for up to 4 or 8 sites
 - ISDN, IP transcoding
 - Audio transcoding
 - Video transcoding (line rate & speed)
 - StereoSurround and Siren 22 audio
 - Dual monitor emulation
 - People+Content supported
 - Voice activated switching
 - Continuous presence
- HDX Microphone Array
- Upgrade to 6Mbps line rate (to be used only when using the internal MCU)

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

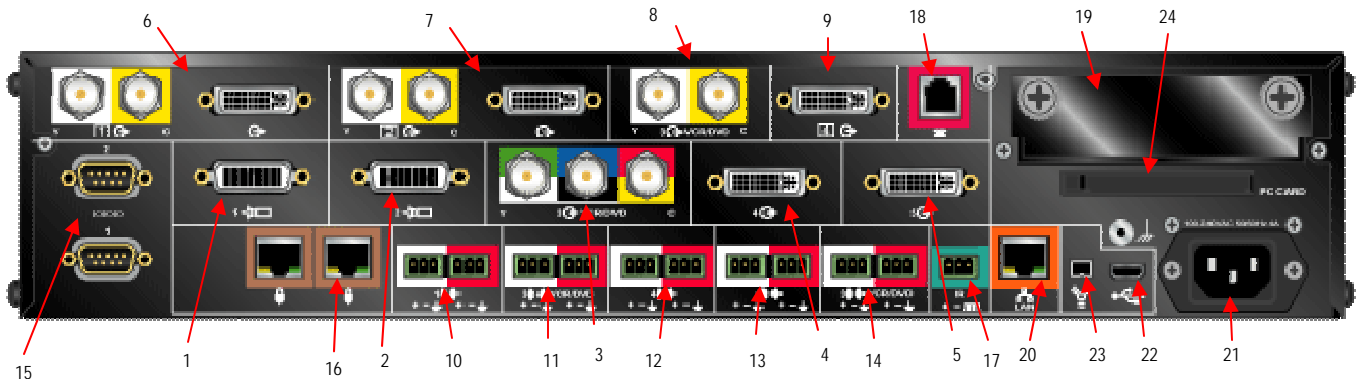
- Operating Temperature: 0-40°C
- Operating Humidity: 10-80%
- Non-Operating Temperature: -40° -70° C
- Non-Operating Humidity (Non-condensing): 10-90%
- Maximum altitude is 10,000 feet

Physical Characteristics

- Video Base Unit (W/H/D): 17.2"x3.44"x14.5"; 436.88 mm / 87.38 mm / 368.3 mm
- Video Base Unit Weight: 20.5 lbs; 9.3 kg

Warranty

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



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| 1. Video input 1: HDCI (Composite, S-Video, YPbPr) | 10. Audio input 1: Phoenix, stereo (main audio) | 17. IR receiver |
| 2. Video input 2: HDCI (Composite, S-Video, YPbPr) | 11. Audio input 2: Phoenix, stereo (VCR audio, assoc with video input 3) | 18. POTS phone connection |
| 3. Video input 3: 3-BNC (Composite, S-Video, YPbPr) | 12. Audio input 3: Phoenix, stereo (PC audio, assoc with video input 4) | 19. H.320 network interface bay |
| 4. Video input 4: DVI-I (VGA, DVI) | 13. Audio output 1: Phoenix, stereo (main audio) | 20. LAN/NIC, 10/100/1000 auto sensing |
| 5. Video input 5: DVI-I (VGA, DVI) | 14. Audio output 2: Phoenix, stereo (VCR audio) | 21. EIA electrical input |
| 6. Video output 1: 2-BNC (S-Video, Composite) DVI-I (VGA, DVI, YPbPr) | 15. RS-232 ports for control | 22. USB port (inactive first release) |
| 7. Video output 2: 2-BNC (S-Video, Composite) DVI-I (VGA, DVI, YPbPr) | 16. Connector for HDX Microphone Arrays (up to 4 daisy-chained) | 23. 1394 Firewire (inactive first release) |
| 8. Video output 3: 2-BNC (S-Video, Composite) | | 24. PCMCIA slot (inactive first release) |
| 9. Video output 4: DVI-I (VGA, DVI, isYPbPr) | | |