

# 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 MCU password
- 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 MPPlus
- 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 (15)

### Security

- Secure web
- Secure Telnet, FTP
- 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, YPrPb output

- People On Content™
- MPPlus 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

### Electrical

- Auto sensing power supply
- Operating voltage/power 85-264 VAC, 47-63 Hz/72 Watts
- Max 52 VA@115v60Hz, 69 VA@220v50Hz
- Max Heat Dissipation; 246 BTU/hour

### Environmental Specification

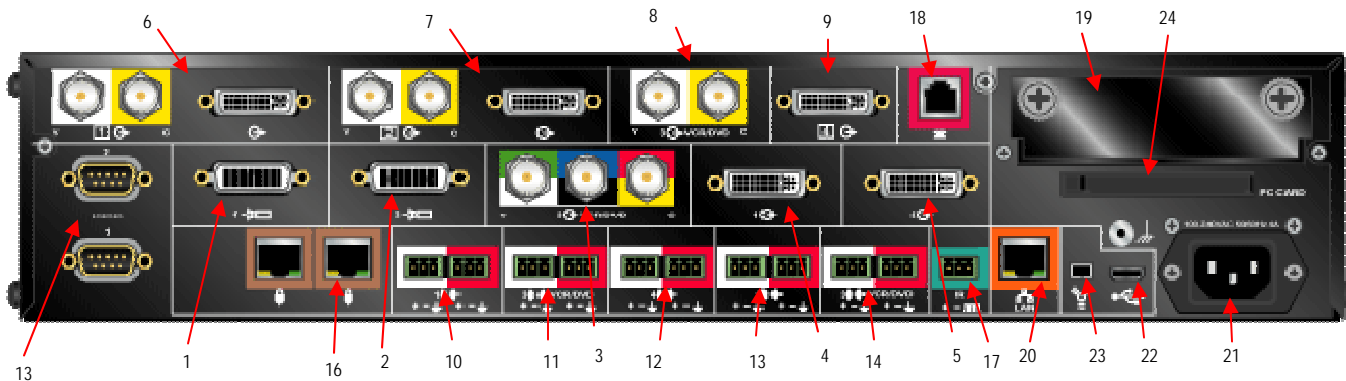
- Operating Temperature: 0-40°C
- Operating Humidity: 10-80%
- Non-Operating Humidity: -40-70° C
- Non-Operating Humidity (Non-condensing): 10-90%
- Maximum altitude is 10,000 feet

### 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 lbs; 9.07 kg

### Warranty

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



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|--|---|--|
| 1. Video input 1: HDCI (Composite, SVideo, YPrPb)                          | 10. Audio input 1: Phoenix, stereo (main audio)                           | 17. IR receiver                            |
| 2. Video input 2: HDCI (Composite, SVideo, YPrPb)                          | 11. Audio input 2: Phoenix, stereo (VCR audio, assoc with vid input 3)    | 18. POTS phone connection                  |
| 3. Video input 3: 3-BNC (Composite, SVideo, YPrPb)                         | 12. Audio input 3: Phoenix, stereo (PC audio, assoc with vid 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 (SVideo, Composite) DVI-I (VGA, DVI, HDMI, YPrPb) | 15. RS-232 ports for control  | 22. USB port (inactive first release)      |
| 7. Video output 2: 2-BNC (SVideo, Composite) DVI-I (VGA, DVI, HDMI, YPrPb) | 16. C-Link II connector for HDX Microphone Arrays (up to 4 daisy-chained) | 23. 1394 Firewire (inactive first release) |
| 8. Video output 3: 2-BNC (Svideo, Composite)                               |   | 24. PCMCIA slot (inactive first release)   |
| 9. Video output 4: DVI-I (VGA, DVI, HDMI, YPrPb)                           |   |  |