# Polycom® HDX® 4000 Series
## Premier Personal Telepresence

### State-of-the-Art HD Video Conferencing for Desktops and Personal Meeting Environments

Performance-engineered to deliver life-like collaboration, the Polycom® HDX® 4000 solution combines extraordinary visual and audio capabilities with practical everyday functionality for bringing video to desktops and personal meeting environments.

The HDX 4000 series leverages the H.264 High Profile video compression standard to use up to half the bandwidth of alternative telepresence solutions, making it ideal for offices within enterprises as well as remote sites, branch offices, and teleworking environments. In addition, the exclusive Polycom Lost Packet Recovery™ quality of service technology helps ensure sustained high-quality interactions, even over congested networks.

#### Personal Communication Like You've Never Experienced

The Polycom HDX 4000 solution combines a series of unique innovations to deliver powerful rich-media communication. Built to high-definition-television (HDTV) industry standards, the HDX 4000 LCD display provides vibrant colors and smooth movement control. Using Polycom HD Voice™ technology and dual, built-in microphones, users are able to hear remote participants in full stereo, while advanced four-way speakers deliver astonishingly life-like audio. As a result, interactions with colleagues and partners, across campus or around the globe, are more natural than ever.

Polycom HDX 4000 series systems offer great flexibility for group video conferencing, with an optional embedded multipoint feature that allows multiple locations to be brought into conferences quickly and easily. Polycom HDX 4000 series systems also include powerful tools for content sharing, with presentations, graphics, spreadsheets and multimedia files incorporated into visual communication to facilitate better collaboration .

Additionally, with Polycom People On Content™ embedded chroma key technology, the user's image can be inserted into the foreground of the content and appear to be part of the presentation. With a modern, streamlined design, the HDX 4000 series combines professional-level visual communication with full PC and Mac monitor functionality.

#### 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 or connect with Polycom on Twitter, Facebook, and LinkedIn.



HDX 4500



HDX 4002

#### Benefits

- **Natural communication experiences** – HD video up to 1920x1080 30 fps

- **Clear understanding of all participants** – High-definition voice and Polycom Siren™ 22 technology deliver high-fidelity stereo sound

- **Improved information sharing** – Sharing graphics, presentations, and rich-media content across HD and non-HD systems

- **Life-like interactions** – Two HD display options (24" for HDX 4500, 20.1" for HDX 4002) deliver ultra-realistic, face-to-face communication

# Polycom HDX 4000 Series Specifications

## Package Includes
- Polycom HDX 4500
  - People+Content™, People+Content IP™, People on Content™, control pad and cables
- Polycom HDX 4002
  - People+Content™, People+Content IP™, People on Content™ and cables

## Video Standards & Protocols
- H.264, H.264 High Profile IP, H.263++, H.261
- H.239/Polycom People+Content
- H.263 & H.264 Video Error Concealment

## People Video Resolution
- 1080p 30 fps from 1024 Kbps (HDX 4500)
- 720p, 60 fps from 832 Kbps (HDX 4500)
- 720p, 30 fps from 512 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)

## Supported PC Input Resolutions
- 1920 x 1080, 1680 x1050, 1280 x 1024, 1280 x 720, 1024 x 768, 800 x 600

## Display – HDX 4500
- 24" Widescreen LCD display
- 1920 x 1080 native resolution
- 16:9 aspect ratio
- 2nd monitor output (DVI)
  - Supports up to 1080p display

## Display – HDX 4002
- 20.1" Widescreen LCD display
- 1680 x 1050 Native resolution
- 16:9 Aspect ratio

## Camera
- 1920x1080 video capture resolution (HDX 4500)
- 1280 x 720 video capture resolution (HDX 4002)
- 2X digital zoom
- EPTZ camera control
- Privacy shutter

## Speakers
- Frequency range: 100 Hz – 20 kHz
- Four built-in speakers (HDX 4002)
- Two built-in speakers (HDX 4500)
- Headset input for privacy

## Audio Standards and Protocols
- Polycom StereoSurround
- 22 kHz bandwidth with Polycom Siren™ 22
- 14 kHz bandwidth with Polycom Siren 14
- 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

## Polycom Constant Clarity™
- Automatic gain control
- Automatic noise suppression
- Keyboard noise reduction
- Live music mode
- Instant adaptation echo cancellation
- Audio error concealment
- Siren™ LPR

## Other 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
- BFCP (RFC 4562)
- TIP

## User Interface
- Directory services
- System management
  - Polycom Converged Management Application™ (CMA®)
  - Web-based UI
  - SNMP
- CDR
- International languages (16)
- Wildcard language tool
- USB software update

## Network
- Interfaces – 2-port 10/100 auto NIC switch, RJ45 connectors
  - Auto-MDIX
  - RJ11 analog phone connector (HDX 4002)
- H.323 and/or SIP up to 4 Mbps
- RS232
  - Data pass-through
  - Closed caption

- H.320 (optional) (HDX 4002 only)
- Polycom Lost Packet Recovery™ (LPR™)
- Reconfigurable MTU size (IP only)
- Microsoft® ICE support
- Microsoft® Lync™ support
- Microsoft® Office Communications Server integration

## 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
- MPPlus internal multipoint software for up to 4 sites
- Polycom Touch Control (HDX 4500 only)
- Polycom HDX 4500 Remote Control
- RTV/CCCP
- TIP

## Environmental Specification
- Operating temperature: 0—40℃
- Operating humidity: 10—80%
- Non-operating temperature: -40°—70℃
- Non-operating humidity (non-condensing): 10—90%
- Maximum altitude: 10,000 feet

## 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

## Physical Characteristics
- HDX 4500
  - 20.5" (H) x 29.13" (W) x 8.22" (D)
- HDX 4002 LCD with stand:
  - Display: 20.1" (H) x 21.9" (W) x 9.3" (D)
  - Base Box with removable stand:
  - 13.87" (H) x 5.08" (W) x 11" (D)

## Warranty
- One-year return to factory parts and labor

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