



# Polycom® HDX 9000 Series

## Features and Benefits

### Audio

Polycom StereoSurround™	<ul style="list-style-type: none"> <li>• 2 channels of 22 kHz crystal clear audio</li> <li>• Superb clarity to hear the subtleties of every word</li> <li>• Easily decipher multiple, simultaneous conversations</li> <li>• Distinguish which side of the room people are talking from, just like in a real meeting</li> </ul>
Polycom HDX Microphone Array	<ul style="list-style-type: none"> <li>• 360° audio pickup</li> <li>• Padded feet filter out table-top noise</li> <li>• Sensitive enough to pick up whispers, smart enough to eliminate unwanted background noise</li> <li>• Versatile and attractive design for table top, wall or ceiling mount</li> <li>• Only one HDX microphone array needed to support StereoSurround</li> <li>• Gated enhanced stereo pickup</li> <li>• Four (4) microphone arrays supported</li> </ul>
Audio Error Concealment	<ul style="list-style-type: none"> <li>• Reduced audio drop-out on noisy networks</li> <li>• Smooth, consistent verbal communications without interruptions</li> <li>• Corrects audio from any system seamlessly</li> <li>• Activates automatically, only when needed</li> <li>• Keyboard noise reduction eliminates annoyance of keyboard typing</li> </ul>

### Video

True High Definition Video (HDX 9002 & 9004)	<ul style="list-style-type: none"> <li>• True High Definition video with 720p (1280 x 720) video resolution at 30 fps at data rates from 1Mbps and above</li> <li>• Experience superb video at any data rate, including 4CIF from 256Kbps – 768Kbps</li> <li>• See every nuance, every color and every facial expression in high definition – taking video meetings to a new level of productivity</li> </ul>
Standard Definition Video (HDX 9001)	<ul style="list-style-type: none"> <li>• 4CIF video resolution at 30 fps</li> <li>• Experience four times the video quality at any bandwidth compared to non-HD video conferencing systems</li> </ul>
Polycom Eagle-Eye Camera	<ul style="list-style-type: none"> <li>• Crisp, clear color</li> <li>• Natural motion handling and smooth camera movement</li> <li>• See every person, image and even clear writing on a white board with 12x zoom</li> <li>• Capture 20% more of the room with a natural 16:9 aspect ratio</li> </ul>
Video Error Concealment	<ul style="list-style-type: none"> <li>• Reduced video drop-out on busy IP networks</li> <li>• Smooth, continuous video without interruptions</li> <li>• Maintain active face-to-face contact</li> <li>• Accomplish meeting objectives without worrying about the video integrity</li> <li>• Activates automatically, only when needed</li> </ul>
Lost Packet Recover (LPR) and Dynamic Bandwidth Allocation	<ul style="list-style-type: none"> <li>• The best Quality of Service (QoS) for IP conferencing, making packet loss on IP networks virtually undetectable by the user</li> <li>• Dynamic Bandwidth Allocation optimizes bandwidth in every call</li> <li>• Applies to the video, voice and content in any HDX call bringing the user an exceptional picture even on “dirty” networks</li> </ul>

## Content Sharing

People+Content™, H.239	<ul style="list-style-type: none"><li>• People and Content both shared in High Definition at supported bandwidths (HDX 9002 &amp; 9004)</li><li>• Polycom People+Content or standards based H.239 ensures interoperability in the industry</li><li>• Dual images allows the far end to see the presentation and the speaker at the same time</li></ul>
People+Content IP	<ul style="list-style-type: none"><li>• Simply input the IP address of your HDX 9000 into a small utility and PC content is easily shown to all conference participants</li><li>• This feature can be used by anyone in the conference, even voice-only participants!</li></ul>
People On Content™	<ul style="list-style-type: none"><li>• Optional feature allows for users to become part of their presentations</li><li>• Using chroma key technology, users can place themselves in front of any HDX video input source.</li><li>• Become part of your presentation and engage your audience like never before!</li></ul>
Adjustable Bandwidth for Content	<ul style="list-style-type: none"><li>• Choose the amount of bandwidth to dedicate to Content or People</li><li>• Options include 90% Content/ 10% People; 50% Content/ 50% People; 10% Content/ 90% People</li><li>• User adjustable setting can be accessed both during a call and outside of a call</li></ul>
Dedicated VCR/DVD Connection	<ul style="list-style-type: none"><li>• Ability to use line level inputs for other devices</li><li>• Easily play VCR/DVD movies/images during a video conference</li><li>• Adds another dimension to the conference, making it like “being there”</li><li>• By setting it to content input you can see both the speaker and the DVD/VCR image</li></ul>
Multiple HD Content Sources	<ul style="list-style-type: none"><li>• Multiple video inputs can be selected as “Content” sources. These sources are also HD capable.</li></ul>

## User Interface

Support for API Control Commands	<ul style="list-style-type: none"><li>• Custom control touch panel integration including AMX® or Crestron® is made easy with extensive support for API command set</li><li>• Integrator’s Reference Manual for HDX Series details over 200 commands for special applications</li><li>• Sample control templates are available for touch panel integration that provides basic functionality right out of the box</li></ul>
Dual Monitor Emulation	<ul style="list-style-type: none"><li>• Use Dual Monitor Emulation for the most efficient use of a single display</li><li>• View near and far video windows at the same time</li><li>• Alternate layout views supporting near end, far end and content</li></ul>
User Selectable Camera Icons	<ul style="list-style-type: none"><li>• Use icons that represent your industry</li><li>• Intuitive icons match the input device</li><li>• Custom name gives the icon clear meaning</li><li>• Selection – 5 libraries to choose from</li><li>• Decreases learning curve</li></ul>
Display Configuration Choices	<ul style="list-style-type: none"><li>• Allows you to configure displays for your application</li><li>• 4 display support (9004) or 3 display support (9001 &amp; 9002)</li><li>• HD, XGA or NTSC / PAL</li><li>• Decide what shows on each display, near end, far end, or content</li></ul>

## Platform Versatility

Supports up to 4 HDX Microphone Arrays	<ul style="list-style-type: none"> <li>• Maximum coverage for extended rooms</li> <li>• Polycom StereoSurround support makes installing stereo even easier</li> <li>• Great audio pickup from every corner of the room</li> <li>• Each participant is near a microphone</li> <li>• Pin-point accuracy on the active speaker with multiple microphone arrays</li> </ul>
Internal Multipoint Software	<ul style="list-style-type: none"> <li>• Optional upgrade easily done with a software key</li> <li>• Conduct meetings beyond just point-to-point</li> <li>• Increase productivity by including key people on the call</li> <li>• Adding sites during a call can lead to quick decision making</li> <li>• Supports up to 4 or 8 (HDX 9004) video calls in a single conference</li> <li>• High definition continuous presence supported on HDX 9002/4</li> </ul>
Secure FTP, Telnet and Web	<ul style="list-style-type: none"> <li>• Polycom video systems are the most secure video conferencing solutions in the industry</li> <li>• All access to the HDX system can be secured including accessing the HDX system via web-browser as well as secure telnet and ftp access via SSH for secure system administration and application connectivity</li> </ul>
Advanced Encryption Standard (AES)	<ul style="list-style-type: none"> <li>• Communications are confidential and secure</li> <li>• Authentication by the National Institutes of Standards means it's credible</li> <li>• Built-in, no extra hardware required</li> </ul>
H.460 NAT/Firewall Traversal	<ul style="list-style-type: none"> <li>• Standards compliance for traversing NATs and Firewalls</li> <li>• Session border controller (V2IU) is only needed at the central location and all VSX systems with H.460 can communicate through the single V2IU</li> <li>• Uses H.460.18 for signaling traversal and call establishment and H.460.19 for media traversal</li> </ul>
IP (H.323, SIP), ISDN or Serial Connectivity	<ul style="list-style-type: none"> <li>• IP is standard and you choose the H.320 interface best for your application</li> <li>• Choose the right option for your specific network connection</li> <li>• Supports UPnP and NAT for automatic setup of conferences conducted through firewalls</li> <li>• Wide range of IP QoS services to insure call quality and integrity</li> <li>• Optional H.320 interfaces include Quad BRI, PRI, V.35, RS-449 and RS-530</li> </ul>
Multiple Use RS-232 Port	<ul style="list-style-type: none"> <li>• RS-232 port (2 ports on HDX 9004)</li> <li>• Integrate easily with control panels.</li> </ul>
E-Mail dialing format when dialing across IP security boundaries	<ul style="list-style-type: none"> <li>• Easy and intuitive E-mail video dialing</li> <li>• Operates with Polycom's V2IU™ Firewall Traversal Appliance</li> <li>• Deployable to wide range of customers, suppliers and partners</li> </ul>

## Interoperability

Part of Polycom's Unified Collaborative Communications	<ul style="list-style-type: none"> <li>• Remote management, scheduling and gatekeeping functionality available with ReadManager SE200</li> <li>• Expand the audience over audio and video with an RMX™ bridge</li> <li>• RMX Click &amp; View™ offers a variety of layout templates for multipoint call right from the system's handheld remote</li> <li>• Video recording, streaming and archiving with the Polycom RSS 2000™ and VMC 1000</li> </ul>
Standards-based	<ul style="list-style-type: none"> <li>• Solid, reliable platform</li> <li>• Qualified by independent test labs</li> <li>• Interoperates with other vendor's systems</li> <li>• Easy to install even in a multi-vendor environment</li> </ul>
Baseline Mode	<ul style="list-style-type: none"> <li>• Set your system to baseline mode, H.261 and G.711, for maximum interoperability with legacy video conferencing systems</li> <li>• Accessible via web, FTP or on-screen UI for easy access by the network administrator</li> <li>• Can be turned on and off as needed</li> </ul>