Polycom® iPower™ 9800 and 9400

Ultimate multimedia collaboration systems

Benefits

Ultimate video and audio quality - Industry's first H.264 delivers sharpest video at low bandwidth while Pro-Motion™ continues to deliver most natural video at higher data rates. Siren™ 14 audio brings the highest audio fidelity for the most natural conversation.

Highest performance multimedia collaboration systems - Extended microphone pickup and intelligent automatic camera pointing technology makes this the ideal conferencing system for larger rooms. And unparalleled performance with speeds of up to 4 Mbps on IP allow you to go as fast as your network will take you.

Choice of single or dual high resolution displays - For a natural meeting environment. Coupled with the high fidelity audio system which delivers 270W of total power, with a powerful amplifier, subwoofer, and two (2) satellite speakers.

Maximum choice of controls - Familiar point-and-click user interface gives users quick start on video collaboration. Wireless pen-based tablet brings new levels of interaction to the conferencing experience.

Increased ROI with Off-the-Call usage - Improve productivity for every meeting whether in a video call or not. Access information from the system itself or simply plug in a laptop and share files.

Complete multimedia capabilities - People+Content™ streaming gives full experience of the meeting to participants in non-video equipped locations. Meetings can now be recorded and stored digitally for future viewing with Digital Conference Recording. For on-demand meetings, the internal multipoint offers industry's best collaboration experience for up to 12 IP sites.

Versatile, flexible and powerful, Polycom's iPower 9800 and 9400 provide an ideal platform for advanced multimedia presentations and meetings. iPower's superior video and audio quality and comprehensive collaboration features lead to increased use of the technology and faster ROI.

The iPower 9800 and 9400 offer the first implementation of the industry's new video compression standard H.264, providing a sharper picture than ever before. And with 14 kHz fidelity audio, the highest quality audio in the industry, iPower allows for natural and clear conversation.

The iPower 9800 and 9400 are available with the flexible Polycom Media Centre, which offers high-end performance, large matching displays and a 270W precision audio subsystem - create a quality video meeting environment, anywhere you need it, quickly and easily. Choose a single display to manage your entire videoconference experience from one display - including high resolution meeting content, or add a two display Media Centre solution for meeting content shown on one display and full screen remote video on the second display for a more natural meeting experience.

Audio and video conferencing are just the beginning. iPower offers a familiar user interface that can be accessed through a point-and-click wireless keyboard and remote controls for making presentations and accessing the Web, even when the system is not on a video call.

Polycom video conferencing and collaboration systems provide advanced technology specifically designed for video conferencing, including superior audio pickup with 360-degree microphone that enables meeting participants to be heard from anywhere in the room. Polycom’s user interface is easy to use, with on-screen graphics and easy to control with colour-coded remote controls. Going beyond face-to-face meetings, laptops can be quickly connected to Polycom video systems with dedicated devices that make sharing content as easy as pushing a button. These high-quality Polycom systems are all part of The Polycom Office™.

The quality of the iPower 9800 and 9400. The power of Polycom conferencing and collaboration solutions

With integrated video, voice, data, and Web capabilities, only Polycom solutions let you connect, conference, and collaborate any way you want. It's our commitment to making distance communications as natural and interactive as being there. Work faster, smarter, and more efficiently with the Polycom iPower 9800 and 9400 and other Polycom conferencing and collaboration solutions.
Polycom iPower 9800 and 9400 Technical Specifications

Audio, video and data specifications
ITU-T H.320 and H.323 compliant

Audio
• 3khz with Siren™ 14
• 7 kHz with G.722, G.722, PT116plus, PT724
• 3.4 kHz with G.711, G.711, G.728, G.729.
• Integrated Dynamic Echo Cancelation (DIEC™)
• Automatic Gain Control (AGC)
• Automatic Noise Suppression (ANS)

Video
• H.261, H.263, H.263+, H.264, H.264*

Data
• T.120, Integrated MicroSoft® NetMeeting
• H.281 far-end camera control for H.320
• H.323 Annex Q far-end camera control
• H.243 multi-point

People video resolution
• CIF (352x288 pixels)
• CIF (352x240 pixels)
• QCIF (176x144 pixels)

Audio input
• 15-pin - content
• 4-pin mini DIN - content

Video input
• Main camera: 4-pin mini DIN DB15 PTZ
• Auxiliary: 4-pin mini DIN DB15 PTZ
• Video content (document camera, etc.): 4-pin mini DIN - content
• PC/laptop direct input (or ImageShare™ II): 4-pin mini DIN DB15 - content

PowerCam™ Plus camera
(with iPower 9800)
• Silent, motorised pan-tilt-zoom camera, with limelite automatic camera pointing including “dialog mode”
• Tilt range: +27°, Pan range: ±100°
• Horizontal field of view: 65°
• Total field of view: 256°
• Horizontal resolution: 470 NTSC TV lines
• Zoom range: 10x
• Auto focus/ brightness/white balance/iris

PowerCam™ camera
(with iPower 9400/9400 PAL systems)
• Standard pan-tilt-zoom camera (also supported as optional auxiliary camera for all iPower 9000 Series)
• Tilt range: +90°, Pan range: ±100°
• Horizontal field of view: 66°
• Total field of view: 264°
• Horizontal resolution: 430 TV lines
• Zoom range: 12x
• Auto focus/ brightness/white balance/iris

iPower 70 camera
(with iPower 9400 PAL systems)
• Standard pan-tilt-zoom camera
• Tilt range: +110°, Pan range: ±100°
• Horizontal field of view: 66°
• Total field of view: 264°
• Horizontal resolution: 430 TV lines
• Zoom range: 12x
• Auto focus/ brightness/white balance/iris

PowerMic™
• Smart microphone, which electronically locates the person speaking, anywhere within a full 360° radius (one included, up to eight total)

Wireless keyboard
• Infrared wireless keyboard with trackball for point-and-click functionality and dedicated video conferencing hot keys

Remote control
• Infrared remote control including built-in mouse functionality

Share images (option on iPower 9400)

PowerMic™
• Smart microphone, which electronically locates the person speaking, anywhere within a full 360° radius (one included, up to eight total)

Wireless keyboard
• Infrared wireless keyboard with trackball for point-and-click functionality and dedicated video conferencing hot keys

Remote control
• Infrared remote control including built-in mouse functionality

Share images (option on iPower 9400)
• Laptop/PC connectivity device
• 15-pin D sub - Video input up to XGA (1024x768)
• 3.5 mm - Audio stereo input

Network interface
• IP (LAN, DSL, cable modem), Ethernet 10/100, up to 4 lines
• ISDN, Quad BRI S/T, up to 512 Kbps
• V.35/RS-449 with RS-366 dialing, up to 2 Mbps
• Voice-only and voice-added calls over ISDN and IP
• Optional wireless IP via USB or PCI

System components

Chassis
• Interi™ Pentium III, 256 MB RAM
• 4 dedicated DSP chips for conferencing application
• Windows® 2000 Professional
• DVD drive
• 40 GB hard disk
• Ethernet 10/100 interface
• 2 RS-232, 2 USB ports
• PCI slot, full length

PowerCam™ Plus camera
(with iPower 9800)
• Silent, motorised pan-tilt-zoom camera, with limelite automatic camera pointing including “dialog mode”
• Tilt range: +27°, Pan range: ±100°
• Horizontal field of view: 65°
• Total field of view: 256°
• Horizontal resolution: 470 NTSC TV lines
• Zoom range: 10x
• Auto focus/brightness/white balance/iris

PowerCam™ camera
(with iPower 9400/9400 PAL systems)
• Standard pan-tilt-zoom camera (also supported as optional auxiliary camera for all iPower 9000 Series)
• Tilt range: +90°, Pan range: ±100°
• Horizontal field of view: 65°
• Total field of view: 256°
• Horizontal resolution: 430 TV lines
• Zoom range: 10x
• Auto focus/ brightness/white balance/iris

iPower 70 camera
(with iPower 9400 PAL systems)
• Standard pan-tilt-zoom camera
• Tilt range: +110°, Pan range: ±100°
• Horizontal field of view: 66°
• Total field of view: 264°
• Horizontal resolution: 430 TV lines
• Zoom range: 12x
• Auto focus/ brightness/white balance/iris

PowerMic™
• Smart microphone, which electronically locates the person speaking, anywhere within a full 360° radius (one included, up to eight total)

Internal multipoint

Multipoint calling over IP (H.323)
• Local site plus three (3) video sites at 768 Kbps each
• Full People+Content support
• Voice-activated or content-based presence modes
• H.263, H.264, H.265+
• Pro-Motion interlaced video (352x480 pixels) at 336 Kbps and above
• G.722, G.723.1, G.711
• Simultaneous voice add over ISDN/IP
• T.120 data collaboration

Optional 12-site multipoint
• Local site plus eleven (11) video sites
• Same call specifications as above

Meeting Tool Assistant
(option on iPower 9400)
• Integrated control of document cameras, projector and VCR devices

Supported devices
• VCR: JVC SR-336SU or JVC SR-338E
• Document camera: ELMO SR-2200AF, ELMO EV-250AF, Canon RE-350
• Projector: InFocus 350 and 5XX series, Sony PX/CX family

People+Content Streaming
• View conference with content from any LAN using MicroSoft® Internet Explorer
• Support up to 5 direct views
• Windows Media® Player and MicroSoft® Player 6.0 or above
• Support external Mala Media Server for large number of participants
• Voice switch and view permanent site selection supported
• Content capture as JPEG
• On-the-Call and Off-the-Call streaming

Optional Digital Conference Recording
• Save entire conference for archiving or later viewing
• Voice switch and view permanent site selection supported
• Content stores as JPEGs
• Support On-The-Call and Off-The-Call recording

Optional AES software encryption on IP
• Standards-based H.235v3 (IP)
• 128 bit automatic key generation and exchange
• Support On-the-Call and Off-the-Call recording
• Content selection supported

Optional 12-site multipoint
• Support up to 5 direct viewings
• View conference with content from any LAN directly from the Polycom iPower system
• Projector: InFocus 350 and 5XX series, Sony PX/CX family

Polycom iPower 9800 and 9400 Technical Specifications

Audio, video and data specifications
ITU-T H.320 and H.323 compliant

Audio
• 3khz with Siren™ 14
• 7 kHz with G.722, G.722, PT116plus, PT724
• 3.4 kHz with G.711, G.711, G.728, G.729.
• Integrated Dynamic Echo Cancelation (DIEC™)
• Automatic Gain Control (AGC)
• Automatic Noise Suppression (ANS)

Video
• H.261, H.263, H.263+, H.264, H.264*

Data
• T.120, Integrated MicroSoft® NetMeeting
• H.281 far-end camera control for H.320
• H.323 Annex Q far-end camera control
• H.243 multi-point

People video resolution
• CIF (352x288 pixels)
• SIF (352x240 pixels)
• QCIF (176x144 pixels)

Audio input
• 2 microphone inputs (PowerMic™), daisy chains up to 8 microphones
• Line-level (RCA)
• 1 PC audio input (3.5 mm)
• 1 VCR input with a ducing RCA, left and right

Video output
• Main display/content display: SVGA or XGA
• 34” NTSC/PAL monitor for people display
• Compatible with standard PC diagnostic tools

Audio output
• Main audio left and right (RCA)
• VCR output (RCA, left and right)

Network interface
• IP (LAN, DSL, cable modem), Ethernet 10/100, up to 4 lines
• ISDN, Quad BRI S/T, up to 512 Kbps
• V.35/RS-449 with RS-366 dialing, up to 2 Mbps
• Voice-only and voice-added calls over ISDN and IP
• Optional wireless IP via USB or PCI

System components

Chassis
• Interl™ Pentium III, 256 MB RAM
• 4 dedicated DSP chips for conferencing application
• Windows® 2000 Professional
• DVD drive
• 40 GB hard disk
• Ethernet 10/100 interface

People+Content™ Features
• Dual Images (see people and high resolution content simultaneously)
• Synchronized content (“what you see, they see”)
• Persistent previews (video thumbnails)
• Customizable video source labels
• Auto-sensing inputs
• Dynamic band with allocation

System connections

Video input
• Main camera: 4-pin mini DIN DB15 (PTZ2)
• Auxiliary: 4-pin mini DIN DB15 (PTZ2)
• Video content (document camera, etc.): 4-pin mini DIN - content
• PC/laptop direct input (or ImageShare™ II): 15-pin - content
• VCR (RCA) - content

Audio input
• 2 microphone inputs (PowerMic™), daisy chains up to 8 microphones
• Line-level (RCA)
• 1 PC audio input (3.5 mm)
• 1 VCR input with a ducing RCA, left and right

Video output
• Main display/content display: SVGA or XGA (15-pin D sub)
• People display: NTSC or PAL (S-video, composite)
• VCR output (RCA)

Audio output
• Main audio left and right (RCA)
• VCR output (RCA, left and right)