

Polycom® iPower™ 680 and 685

Superior platform for real-time conferencing and collaboration

HOWARD
TECHNOLOGY SOLUTIONS



Benefits

Most flexible design for all display

Environments – The unique package will adapt to practically any display. Installed as an all-in-one system, it fits conveniently on top of a typical monitor. By detaching the camera, its sleek camera/microphone module can be mounted easily on a flat-panel display, or on the wall next to a projector screen

Best audio and video quality – Siren™ 14 audio brings the highest audio fidelity for the most natural conferencing experience. Pro-Motion interlaced video delivers the most natural video

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 the full experience of the meeting to participants in nonvideo 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 the industry's best collaboration experience for up to 12 IP sites

*For more information visit
www.Howard.com or call us at
888.912.3151*

The iPower 680 and 685 offer a wide range of video and data collaboration functions and features for any application. Used for simple meetings, it delivers 14-kHz fidelity audio for natural and clear conversation. Used for richer, more collaborative efforts, its built-in PC dramatically increases productivity and effectiveness.

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. Its enhanced multimedia capabilities range from the industry's highest capacity internal multipoint (up to 12 sites), to Digital Conference Record – a feature that allows users to record conferences on or off a video call for future viewing from a Web browser.

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 color-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™.

High-quality video communications for The Polycom Office

With integrated video, voice, data, and Web capabilities, The Polycom Office is the only solution that offers you an easy way to connect, conference, and



collaborate any way you want. The Polycom Office is our commitment to making distance communications as natural and interactive as being there. Work faster, smarter, and better with the Polycom iPower 680/685 and The Polycom Office.



Video

Connect. Any Way You Want.

Polycom iPower 680 and 685 Technical Specifications

Audio, video and data specifications

ITU-T H.320 and H.323 compliant

Audio

- 14 kHz with Siren 14
- 7 kHz with G.722.1, G.722, PT716plus, PT724
- 3.4 kHz with G.711, G.723.1, G.728, G.729, G.719A
- Integrated Dynamic Echo Cancellation (IDEC)
- Automatic Gain Control (AGC)
- * Automatic noise suppression (ANS)

Video

- H.261, H.263, H.263+, H.263++

Data and control

- T.120, Integrated Microsoft NetMeeting
- H.281 far-end camera control for H.320
- H.323 Annex Q far-end camera control
- H.243 multipoint

People video resolution

- CIF (352x288 pixels)
- QCIF (176x144 pixels)
- 30 fps at 256 Kbps and above
- Pro-Motion™ interlaced video (352x480 pixels) at 336 Kbps and above
- SIF (352x240 pixels)

Content video resolution

- Native PC/high resolution
 - XGA (1024x768)
 - SVGA (800x600)
 - VGA (640x480)
- NTSC resolution
 - 4CIF (704x576 pixels)
 - CIF (352x288 pixels)

People+Content features

- Dual images (view 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 bandwidth allocation

System connections

Video input

- Optional alternate Limelight main camera (8-pin mini DIN) - People
- Video content (document camera, etc.) (4-pin mini DIN/s-video) - Content
- Direct connect laptop/ImageShare™ II (15-pin D sub) - Content
- VCR (RCA) - Content

Audio input

- 1 microphone input (PowerMic™), daisy-chained up to 4; or line-level (RCA) via adapter
- 1 audio input (3.5 mm) - headset jack
- 1 PC audio input (3.5 mm)
- 1 VCR input (RCA)

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 Right and Left (RCA)
- 1 audio out (3.5 mm) - headset jack
- VCR output (RCA)

Network interface

- IP (LAN, DSL, Cable Modem), Ethernet 10/100, up to 768 Kbps
- ISDN, single/quad BRI S/T (128 Kbps/512 Kbps)
- Voice-only and voice-add calls over ISDN and IP

System components

Computer system

- Celeron 566 MHz, 128 MB RAM, 10 GB hard disk
- 4 dedicated DSP chips for conferencing application
- Windows 2000 Professional
- Ethernet 10/100 port, 2 USB ports

Integrated detachable microphone/camera module

- Camera – motorized pan-tilt-zoom camera, with automatic camera pointing including "dialog mode"
- Tilt range: +15° to -30°, pan range: ±90°
- Horizontal field of view: 51°
- Total field of view: 231°
- Horizontal resolution: 430 HTVL
- Zoom range: 12x

Integrated microphone

Built-in superdirective microphone for effective voice pick-up

- Range: 15 ft, angle: ±60°
- Sophisticated array technology for eliminating extraneous noises

PowerMic™ (with iPower 685)

- 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 data collaboration

Remote control

- Infrared remote control for video conferencing functionality

ImageShare™ II (with iPower 685)

Laptop connectivity device

- Video input up to XGA (1024x768) (15-pin Dsub)
- Audio input (3.5 mm)

Optional Thin display adapter

- Enables microphone/camera module to be detached for flexible room layout and display integration
- Cable length 5 meters

Internal multipoint

Multipoint calling over IP/H.323 (option on iPower 680)

- Local site plus three (3) video sites at 768 Kbps each
- Full People+Content support
- Voice-activated or continuous-presence modes
- H.261, H.263, H.263+
- G.722, G.723.1, G.711
- Simultaneous voice-add over ISDN/IP
- T.120 data collaboration

Optional 12-site multipoint

- Optional local site plus eleven (11) video sites
- Same call specifications as above

Optional Meeting Tool Assistant

- Integrated control of select document cameras, projector and VCR devices

Supported devices

- VCR: JVC SR-S365U or JVC SR-S388E
- Document camera: ELMO EV-2000AF, ELMO EV-2500AF, Canon RE-350
- Projector: Infocus 350 and 5XX series, Sony PX/CX family

People+Content streaming

- View conference with content from any LAN with standard Web browser
- Support up to 5 direct viewings (Windows Media Player v7.0 and above)
- Support external Windows Media Server for larger audience
- Voice switch and view permanent site selection supported
- Content capture as JPEGs
- Support On-the-Call and Off-the-Call streaming

Optional Digital Conference Recording

- Save entire conference for archiving or transporting
- Voice switch and view permanent site selection supported
- Content store as JPEGs
- Support On-the-Call and Off-the-Call recording

Computer information sharing

- Plug in laptop or PC via ImageShare II
- Show iPower desktop
- Share applications running on iPower system

- Integrated Web collaboration
- Polycom WebOffice™ directly from the iPower system
- T.120 data sharing and collaboration
- Customizable shortcut for frequently used applications

IP and Quality of Service (QoS) features

- Differentiated Services (DiffServ)
- Resource Reservation Protocol (RSVP)
- IP Precedence
- Network Address Translation (NAT) support
- Virtual Private Network (VPN) support
- Auto gatekeeper discovery
- Configurable TCP/UDP port range
- Packet reordering and dejittering
- Asymmetric speed control
- Lip synchronization
- Multiple IP adapters

Network infrastructure

Browser-based management

Complete system management via Web browser, including:

- Call control
- Board diagnostics
- Usage statistics

Enterprise systems management

- Support for Polycom Global Management System, SNMP, and LDAP
- iPower Control Protocol
- RS-232 serial control
- Application interface (Active-X) for Visual Basic, Visual C++ software development
- Supports Crestron™ and AMX™ control systems

System diagnostics

- Built-in ISDN bit-error rate tester (BERT) application
- Board diagnostics
- Readiness monitoring
- Compatible with standard PC diagnostic tools

Display option

- 29" XGA monitor for content display
- 29" NTSC/PAL monitor for people display
- Roll-about cart

Electrical

- Auto-sensing power supply 110/220 Vac, 50/60 Hz

Languages

- User interface, on-line help, and documentation available in English, Japanese, German, French, Spanish, Portuguese, Italian and Simplified Chinese

Warranty

- Hardware
 - One year parts and labor (return to factory)

Software

- 90 days telephone support

Polycom video conferencing and collaboration systems support Polycom network infrastructure and management systems. With the Polycom MGC, Polycom video systems can participate in large multipoint conferences. Polycom PathNavigator™, among many other features, enables easy dialing from Polycom video systems with OneDial™. And video systems can be centrally managed and controlled with Polycom Global Management System™, and access the Global Address Book for easy access to directory services. Polycom video conferencing and collaboration deliver high quality video and integrated solutions for The Polycom Office.

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888.912.3151
601.399.5077 (fax)
www.Howard.com