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DATA SHEET

Polycom® RealPresence® Group 700

Extreme video collaboration performance and flexibility for large groups—when only the best will do

Video collaboration is mission-critical for productive and efficient meetings when everyone can't be in the same location. In many environments getting the most out of video meetings requires multiple displays, flexible audio configurations, and the ability to easily switch between many content sources. The Polycom® RealPresence® Group 700 series is the ideal solution for meetings that require the best performance and flexibility, from boardrooms to large lecture halls.

Best-in-class experiences

The Polycom® RealPresence® Group Series sets a new standard for ease of use in video collaboration. The breakthrough user experience is easy for even first time users with no need for training. Backed by years of customer research, Polycom's new user interface speeds up the adoption of video communications and reduces support costs for IT administrators. Plus, breakthrough Polycom® SmartPairing™ technology makes it simple to use your own mobile device to start and manage video calls.

Drive increased adoption and cut expenses by delivering a video collaboration experience that is so life-like and enjoyable your teams will prefer it over traveling for in-person meetings. Up to 1080p60 video resolution adds a new level of clarity and realism to your business communications. This results in active users who eagerly look to add video to their daily communications, driving rapid and higher adoption, increasing team productivity, and speeding return on investment (ROI). Up to 1080p60 content quality removes limitations when sharing videos, design animations, or any other type of content that requires both high resolution and natural movement. The advantage you gain in being able to see both people and content in 1080p60 quality at the same time makes video collaboration a more productive and enjoyable experience.

Unmatched interoperability

The RealPresence Group 700 solution is fully standards-based; able to connect to millions of other standards-based video systems in use today. Native interoperability with leading unified communications (UC) platforms—such as Microsoft Lync 2013 and 2010—means that video now easily integrates with the way you already communicate without adding expensive and complex gateways. The RealPresence Group Series also offers Telepresence Interoperability Protocol (TIP) support for direct connection to non-standards-based Cisco environments. Polycom's unique interoperable SVC architecture is the first to provide video calling between both existing video systems and new SVC systems. This unique approach delivers unmatched investment protection and avoids "video islands" that lock you into only calling other like systems.



Benefits

- Polycom® VisualBoard™ technology for simple, real-time content annotation
- Breakthrough simple user interface and Polycom® SmartPairing™ so your employees can start collaborating instantly with their mobile device
- 1080p60 video and content collaboration heightens realism and speeds adoption
- Interoperable SVC delivers a great experience even on bandwidth-limited networks
- Design unique, customized experiences for nearly any application or environment with multiple displays, cameras, and content sources
- Enable more people to join calls without requiring a separate bridge with 8-way multipoint
- High-performance architecture meets your most demanding needs today and into the future

Lowest total cost of ownership

Polycom continues to lower the total cost of ownership of video collaboration by extending the benefits of H.264 High Profile to 1080p60 people and content. You experience whole new levels of realism with up to 50 percent less bandwidth. For existing Polycom customers, Polycom RealPresence Group

Series allows you to leverage previous investments in Polycom technology, including select cameras, microphones, and UC innovations such as Polycom® EagleEye™ Director and Polycom® Touch Control.



Product specifications

Package includes

- Polycom® EagleEye™ IV camera, codec, Polycom® RealPresence® Group Microphone Array, cables, and remote control

Video standards and protocols

- H.261, H.263, H.264 AVC, H.264 High Profile, H.264 SVC, RTV
- H.239/Polycom® People+Content™
- H.263 & H.264 Video error concealment

Video input

- 2 x Polycom® EagleEye™ HD camera (HDCI)
- 3 x HDMI 1.4
- 1 x YPbPr
- 1 x VGA

Video out

- 3 x HDMI 1.3
- 3 x VGA

People video resolution

- 1080p, 60 fps from 1740 Kbps
- 1080p, 30 fps from 1024 Kbps
- 720p, 60 fps from 832 Kbps
- 720p, 30 fps from 512 Kbps
- 4SIF/4CIF, 60 fps from 512 Kbps
- 4SIF/4CIF, 30 fps from 128 Kbps
- SIF (352 x 240), CIF (352 x 288) from 64 Kbps
- QSIF (176 x 120), QCIF (176 x 144) from 64 Kbps
- w288p from 128 Kbps
- w448p from 384 Kbps
- w576p from 512 Kbps

Content video resolution

- Input
 - WUXGA (1920 x 1200)
 - HD (1920 x 1080i)
 - HD (1920 x 1080p)
 - WSXGA+ (1680 x 1050)
 - UXGA (1600 x 1200)
 - SXGA (1280 x 1024)
 - WXGA (1280 x 768) (1024 x 768)
 - SVGA (800 x 600)
- Output
 - WUXGA (1920 x 1200)
 - HD (1920 x 1080)
 - WSXGA+ (1680 x 1050)
 - SXGA+ (1400 x 1050)
 - SXGA (1280 x 1024)
 - HD (1280 x 720)
 - XGA (1024 x 768)
 - VGA (640 x 480)
- Content Frame Rate
 - 5–60 fps (up to 1080p resolution at 60 fps)
- Content Sharing: People+Content™ and People+Content™ IP

Audio input

- 2 x RealPresence Group microphone array
- 2 x HDCI (camera)
- 3 x HDMI
- 2 x RCA line-in

Audio output

- 1 x HDMI (to in-room audio system)
- 1 x HDMI (to conference recording device)
- 1 x RCA pair stereo line-out

Other interfaces

- 2 x USB 3.0 (back)
- 1 x USB 2.0 (front)
- 1 x RS-232 DB9

Audio standards and protocols

- 22 kHz bandwidth with Polycom® Siren™ 22 technology, AAC-LD (TIP calls)
- 14 kHz bandwidth with Polycom® Siren™ 14 technology, 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

Polycom® Constant Clarity™ technology

- Automatic gain control
- Automatic noise suppression
- Keyboard noise reduction
- Live music mode
- Instant adaptation echo cancellation
- Audio error concealment
- Polycom® Siren™ Lost Packet Recovery™ (LPR™) technology
- Polycom® StereoSurround™ technology

Other supported standards

- H.224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460
- BFCP (RFC 4582)
- TIP

Network

- IPv4 and IPv6 support
- 2 x 10/100/1G Ethernet Switch
- Auto-MDIX
- H.323 and/or SIP up to 6 Mbps
- Polycom® Lost Packet Recovery™ (LPR™) technology

- Reconfigurable MTU size
- RS232 with API support
- Microsoft® Office Communications Server integration
- Microsoft® ICE support
- Microsoft® Lync® support
- IBM® Sametime™ support

Security

- US DoD UC APL Certified (see the *Polycom US Federal Government Accreditation site* for details)
- Media Encryption (H.323, SIP): AES-128, AES-256
- Authenticated access to admin menus, web interface, and telnet API
- FIPS 140-2 Validated Cryptography (Validation Certificate #1747)
- PKI/Certificate Management:
 - SSL 3.0, TLS 1.0, 1.1, 1.2
 - Self-signed and CA-signed certificate support
 - CRL and OCSP-based certificate revocation checking

- Network intrusion detection system
- Local account password policy configuration
- Security profiles
- Web UI/SNMP Whitelists
- Local account and login port lockout

Options

- Polycom® Touch Control
- Polycom® EagleEye™ Director with EagleEye III cameras
- Polycom® UC Board™
- Polycom® SoundStation® IP 7000 conference phone integration
- Polycom® SoundStructure® integration through a digital interface

Software options

- Lync 2010 and 2013 interoperability
- TIP interoperability
- 1080p license, providing up to 1080p60 for people and content
- Multipoint license for up to 8 sites

Electrical

- Auto sensing power supply

Typical operating voltage/power

- 85VA @ 120V @ 60 Hz
- 85VA @ 230V @ 50/60 Hz
- Typical BTU/h: 280

Environmental specification

- Operating temperature: 0 to 40 °C
- Operating humidity: 15 to 80%
- Non-operating temperature: -40 to 70 °C
- Non-operating humidity (non-condensing): 5 to 95%
- Maximum altitude: 10,000 ft

Physical characteristics

- RealPresence Group 700 base box
 - 17.2" H x 2.6" W x 12.8" D
 - 11.45 lbs

Warranty

- One-year return to factory parts and labor

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About Polycom

Polycom helps organizations unleash the power of human collaboration. More than 400,000 companies and institutions worldwide defy distance with video, voice and content solutions from Polycom. Polycom and its global partner ecosystem provide flexible collaboration solutions for any environment that deliver the best user experience and unmatched investment protection.

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