



DATA SHEET

Polycom® RealPresence® Group 700

Extreme video collaboration performance and flexibility for rooms where only the best will do

The Polycom® RealPresence® Group 700 solution is designed for larger meeting rooms, training rooms, classrooms, and other workspaces that have more complex requirements. Such rooms demand additional flexibility in video, audio and content collaboration, and often need to be closely coupled with other room components for a fully integrated experience.

Polycom® RealPresence® Group 700 is a top of the line collaboration platform, with a high-performance architecture that meets your most demanding needs today and into the future. Simultaneous 1080p60 video and content sharing is ideal for applications that demand no compromises in clarity and experience.

Multiple camera, content and audio inputs and outputs gives you the flexibility to design a solution to meet any application requirements. For example:

- Connect multiple cameras to capture both the students and lecturer in a large classroom
- Have multiple content sources available to be shared at a moment's notice during an important executive briefing
- Use multiple microphones to cover every seat in a large training room, or add Polycom® SoundStructure® for more complex audio requirements
- Connect up to three monitors so everyone in the room can see clearly, even in very large spaces

Flexible camera options ensure all participants can see and be seen, no matter where they are sitting.

- Polycom® EagleEye™ Producer uses innovative facial-tracking algorithms to accurately frame all room participants, eliminating the “bowling alley” view that is all too common in video calls
- For a more immersive experience, Polycom® EagleEye™ Director automatically zooms in on the person speaking, transmitting facial expressions and body language for higher impact and more productive video collaboration
- The Polycom® EagleEye™ IV camera offers brilliant visual clarity with a 4k sensor, and is available with 12x or 4x zoom and a wide-angle lens adapter, capturing everyone clearly even in odd-shaped rooms

Optional built-in multipoint can host video calls with up to 8 participants in HD quality. For midsize organizations, this makes RealPresence® Group 700 a great fit at a main headquarters location or board room, hosting multipoint calls with other groups, plus mobile and desktop users.

For more details on the benefits of the RealPresence® Group 700, please see the RealPresence® Group Series family brochure.



Benefits

- Bring high-impact video collaboration into larger rooms and workspaces that have unique requirements
- Deliver great experiences for every person in the room, ensuring that everyone is involved in all aspects of the conversation
- Flexible design, performance and camera options so you can build a solution for the specific application or use case rather than relying on a “one size fits all” approach
- High-performance architecture for the best in video, audio and content clarity now and into the future
- Integrate with Polycom® SoundStructure® for the ultimate audio experience in large meeting spaces



Product specifications

Package includes:

- RealPresence Group 700 codec
- RealPresence Group Microphone Array
- EagleEye IV camera
- Cable bundle
- Remote control
- Rack (19") mounting ears

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 HDCI
- 3 x HDMI 1.4
- 1 x YPbPr component
- 1 x dual RCA composite
- 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
 - HD (1920 x 1080i)
 - HD (1920 x 1080p)
 - WSXGA+ (1680 x 1050)
 - UXGA (1600 x 1200)
 - SXGA (1280 x 1024)
 - WXGA (1280 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 input ports (supporting a total of 4 microphone arrays)
- 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
- Polycom® NoiseBlock™ technology
- Polycom® Acoustic Fence™ technology
- 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
- H.235.6 support
- 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® RealPresence® Touch
- Polycom® EagleEye™ Producer
- Polycom® EagleEye™ Director with EagleEye III cameras
- Polycom® UC Board™
- Polycom® SoundStation® IP 7000 conference phone integration
- Polycom® SoundStructure® integration

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 at 720p30, or 4 sites at 1080p30

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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