

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 to be integrated into 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.

RealPresence Group Series is the only standards-based group video conferencing system that is certified with Skype for Business on-premises and online (connection to Microsoft Teams requires RealConnect for Microsoft Teams service). The Skype interface is instantly familiar for an intuitive experience that needs no training. And because RealPresence Group is also standards-based, it's easy to connect with customers, partners, and others outside your organization.

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.

For advanced content collaboration, connect to Polycom Pano for easy wireless sharing from up to 4 users at the same time plus annotation and whiteboarding when using a touch display.

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
- 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, or focus on the person speaking—whichever you prefer, eliminating the “bowling alley” view that is all too common in video calls
- For a more immersive feel, Polycom EagleEye Director II offers the highest performance speaker tracking experience, transmitting facial expressions and body language for higher impact and more productive video collaboration

Benefits

- Bring high-impact video collaboration into larger rooms and workspaces that have unique requirements
- Simple to use, with one-touch dial from the integrated calendar and the Skype for Business interface on the optional RealPresence Touch
- 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
- Built-in interoperability unlocks access to popular cloud video services while delivering Polycom’s unmatched group collaboration experience
- Host calls with other groups, plus mobile and desktop users, with optional 8-way HD multipoint



Product specifications

Package includes:

- RealPresence Group 700 codec
- RealPresence Group Microphone Array
- Polycom 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
- 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) (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
 - Polycom People+Content IP and Polycom Pano app support
 - VbSS content in Microsoft environments

Audio input

- 2 x RealPresence Group microphone array input ports (supporting a total of 4 microphone arrays)
- USB headset support
- 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)
- USB headset support
- 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), G.719 (Live Music Mode)
- 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 technology
- Polycom StereoSurround technology
- Active Lip Synchronization

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
- Web Proxy support—Basic, Digest and NTLM
- Simple Certificate Enrollment Protocol (SCEP)

Interoperability

- Microsoft Lync and Skype for Business certification, including Skype for Business Online
- IBM Sametime support
- Zoom Meetings interoperability
- BlueJeans Cloud Services Interoperability
- Microsoft Office Communications Server integration
- Microsoft ICE 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 Pano
- Polycom RealPresence Touch
- Polycom EagleEye Producer
- Polycom EagleEye Director II
- Polycom SoundStation IP 7000 conference phone integration
- Polycom SoundStructure integration

Software options

- Skype for Business and Lync Integration (including Skype for Business Online)
- 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

Learn more

To learn more about RealPresence Group Series, visit

www.polycom.com/groupseries