

Executive Summary Polycom Realpresence Group 500



EagleEye Acoustic Camera



EagleEye III Camera



CODEC Front view



CODEC Rear view



Remote Control



Microphone Array Pod

Manufacturer: Polycom

Model: RealPresence Group 500

Software Version: 4.1.1

Optional Features and Modifications: Advanced Video 1080p Multipoint MCU

Date of Test: 24 - 31 October 2013

The Polycom RealPresence Group 500 high-definition conferencing system is designed to be installed either in small to medium sized meeting rooms, teaching spaces, or as part of a roll-about unit.

The system supports a maximum image resolution of 1920x1080 pixels @50fps on the main video channel with the Polycom EagleEye III Pan and Tilt Camera and 1920x1080 pixels @25fps with the Polycom EagleEye Acoustic Camera. Presentation content may be transmitted and received up to 1920x1080 pixels @25fps. The system includes a high definition (HD) Polycom EagleEye III Pan and Tilt Camera; a microphone pod, an infra-red remote control and external power supply complete the package.

A number of options are available including:

- Advanced Video 1080p
- Polycom EagleEye Acoustic Camera
- Multipoint MCU

The maximum point to point connection speed is 6 Mbit/s. Compatibility with other H.323 CODECS is achieved across a range of resolutions from SIF (352x240) to 1080p (1920x1080) pixels. The quality of the conference is dependent upon the capability of the remote CODEC and the connection speed.

Pros:

- Compact Design and Simple Setup
- Simple remote control with graphic interface
- Very good interoperability with other CODECs

Cons:

- No adjustment for microphone input level
- System does not appear to deliver 1080p@50 H.239 images.
- Slight judder on 1080p@25 H.239 images

Feature Summary:

Video standards	H.261, H.263, H.264 AVC, H.264 High Profile, H.264 SVC
Supported video resolutions	<p>352 x 240 @ 25 fps (SIF)</p> <p>352 x 288 @ 25 fps (CIF)</p> <p>512 x 288 @ 25 fps (wCIF)</p> <p>704 x 480 @ 25, 50 fps (4SIF)</p> <p>704 x 576 @ 25, 50 fps (4CIF)</p> <p>1280 x 720 @ 25, 50 fps (HD720p)</p> <p>1920x1080 @ 25, 50 fps (HD1080p)</p> <p>1080p requires optional Advanced Video 1080p</p> <p>50fps requires EagleEye III Camera</p>
Communications	H.323 and SIP, 128Kbps ~ 6Mbps
Audio standards	G.711, G.722, G.722.1, G.722.1c, G.728, G729A, Siren 22, AACLD

Camera	<p>Eagle Eye III Camera, pan and tilt, 12x optical zoom, 72° Horizontal field of view.</p> <p>EagleEye Acoustic Camera, fixed focus, 2x digital zoom camera, 67° Horizontal field of view. Integral stereo microphone.</p>
Video inputs	One Camera Input, One HDMI or One VGA
Video outputs	Two HDMI
Audio inputs	Desk microphone pod, 3.5mm stereo auxiliary i/p
Audio outputs	HDMI, 3.5mm mini-jack
Auxiliary features	<p>H.239 second video channel up to 1080p @60fps.</p> <p>Far-end camera control.</p> <p>RS232 Control Connection</p>
Encryption	AES Encryption

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