Polycom® EagleEye™ Digital Breakout Adapter for Camera and Group Series Codec

Supplemental User Guide

December 2014 | 1725-68907-001/A

Product Description

Polycom® EagleEye™ Digital Breakout Adapter - Camera

The Polycom EagleEye Digital Breakout Adapter (DBA) - Camera, is a breakout adapter that allows the digital cameras, the Polycom EagleEye IV, and the Polycom EagleEye Acoustic, to be broken out into HDMI and Serial (DB9) signals.

Polycom® EagleEye™ Digital Breakout Adapter - Codec

The Polycom EagleEye Digital Breakout Adapter (DBA) - Codec, allows the input of HDMI and Serial for control into an HDCI input on the RealPresence Group Series codecs.

The two EagleEye Digital Breakout Adapters can be used together to extend the distance from EagleEye IV cameras to the Group Series codecs.

Best Practices and Safe Use

EagleEye Digital Breakout Adapter - Camera:

- Use the supplied Polycom power supply (part number 1465-52748-040).
- Verify the polarity of the power supply as shown on the DBA next to the power supply input.
- Use with HDCI Polycom EagleEye IV Camera Cable. Either 2457-64356-001 (3m), 2457-64356-100 (1m), or 2457-64356-018 (457mm).
- Use with certified HDMI compliant cable.
- Use with certified EIA/TIA-RS-232 cable. Use straight-through type, not crossover.
- Do not hot plug the serial cable. Disconnecting or connecting the RS-232 cable during operation may cause unexpected system behavior. If this happens, cycle the power to the codec or camera to eliminate this issue.
- The signal quality is dependent on the quality of the HDMI and serial signals at the output of the DBA and associated cables, if the mating device has an equalizer, and the electrical noise in the installed environment.
- To ensure proper operation with all devices, the HDMI and EIA/TIA-RS-232 specs should be met at the input to all mating devices.

EagleEye Digital Breakout Adapter - Codec:

- Use with HDCI Polycom EagleEye IV Camera Cable. Either 2457-64356-001 (3m), 2457-64356-100 (1m), or 2457-64356-018 (457mm).
- Use with certified HDMI compliant cable.
- Use with certified EIA/TIA-RS-232 cable. Use straight-through type, not crossover.
- Do not hot plug the serial cable. Disconnecting or connecting the RS-232 cable during operation may cause unexpected system behavior. If this happens, cycle the power to the codec or camera to eliminate this issue.
- Polycom tested with cables less than 3 meters in a normal environment. The maximum cable length possible depends on the signal quality of the HDMI and serial signals at the output of the DBA and associated cables, if the mating device has an equalizer, and the electrical noise in the installed environment. To ensure proper operation with all devices, the HDMI and EIA/TIA-RS-232 specs should be met at the input to all mating devices.
- The following HDMI features are not provided: DDC for EDID support, HDCP, and CEC.
- Without EDID support, digital (HDMI) sources connected to the system must have a mechanism for bypassing EDID detection, for setting up the video resolution manually, or using a fixed video resolution. Refer to the Video Format Resolutions table below for supported resolutions.
- The signal quality is dependent on the quality of the HDMI and serial signals at the output of the DBA and associated cables, if the mating device has an equalizer, and the electrical noise in the installed environment. To ensure proper operation with all devices, the HDMI and EIA/TIA-RS-232 specs should be met at the input to all mating devices.

Supported Video Format Resolutions

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<th>Mode</th>
<th>Active Pixels</th>
<th>Active Lines</th>
<th>Vertical Refresh Hz</th>
<th>Pixel Clock MHz</th>
<th>Video Standard</th>
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<td>480</td>
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<td>148.50</td>
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<td>59.94</td>
<td>480.00</td>
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<td>4305.20</td>
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</table>

Parameters and Interfaces

EagleEye Digital Breakout Adapter - Camera:
- Includes its own power supply (part number 1465-52748-040). Verify the polarity of the power supply as shown on the Digital Breakout Adapter next to the power supply input.
- Operating ambient conditions: Operating temperature 0°C to 40°C, Relative Humidity: 35% to 90% non-condensing @ 40°C.

EagleEye Digital Breakout Adapter - Codec:
- No active components. Operating ambient conditions: Operating temperature 0°C to 40°C, Relative Humidity: 35% to 90% non-condensing @ 40°C.
- European EMC Immunity standard (EN55024:2010) testing was performed using cables less than 3 meters in length.

Installation Requirements

Installation must be performed in accordance with all relevant national wiring rules. The outlet to which this apparatus is connected must be installed near the equipment and must always be readily accessible. The user is cautioned that any changes or modifications not expressly approved by Polycom, Inc. could void the user’s authority to operate the equipment. This product is only for use in commercial, and light industrial areas.

Safety Considerations for Storage and Transportation

- The EagleEye Digital Breakout Adapter has a seven year period of life. The EagleEye Digital Breakout Adapter has a seven year period of storage.
- The EagleEye Digital Breakout Adapter has a -30°C to 60°C (-22°F to 140°F), 35% to 90% non-condensing @ 40°C storage & transportation requirement.
Recycling End-of-Life Products

Polycom encourages you to recycle your end-of-life Polycom products in an environmentally considerate way. In accordance with the requirements of the European Waste Electronic and Electrical Equipment (WEEE) Directive, all Polycom products are marked with the crossed wheelie bin symbol. Products that carry this symbol should not be disposed of in the household or general waste stream. Detail of the options open to you and the guidance on the requirements for the recycling and environmentally considerate disposal of your end of life Polycom products can be found at Polycom Global Sustainability. Specific take back and recycling information can be found at Takeback & Recycle Program.

Troubleshooting

This section provides information about actions required if the product does not work correctly.

- Under Documents and Downloads, select Telepresence and Video > RealPresence Group Packaged Solutions, and then search for the document you want.
- Use the Knowledge Base: For more troubleshooting information, search the Knowledge Base at http://support.polycom.com/PolycomService/support/us/support/video/index.html.

Product Support Product Manufacturing Information

This section includes manufacturing information for Polycom EagleEye Cameras Digital Breakout Adapter.

Country of Manufacture: The country of manufacture is Thailand

Sales Terms and Conditions: Sales terms and conditions are stated in the agreements with authorized distributors.

Product Manufacture Date: Manufacturing date is included on the serial number label in the following format: YYYYMMDD.

Product Manufacture Date and Description

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
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<tbody>
<tr>
<td>YYYY</td>
<td>Production year. This is the year during which the unit was manufactured.</td>
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<tr>
<td>MM</td>
<td>Production month. There are twelve months in a year, therefore these two digits will lie in the range between 01-12.</td>
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<tr>
<td>DD</td>
<td>Production day. There are up to thirty one days in a month, therefore these two digits will lie in the range between 01-31.</td>
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CU Approval Information

CU Approval Additional Information / Дополнительная информация

1. List the TRs against which the approval was done – to add TR’s clause when approval complete.
2. Additional more detailed info is available on the site www.polycom.com.
3. Polycom has a right to change the current UG without any notification.

Translation provided from Russia:

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- Unauthorized use of common carrier communication services accessed through the product.
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- Acts of third parties, acts of God, accident, fire, lightning, power surges or outages, or other hazards.

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