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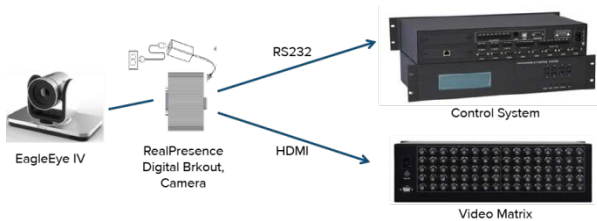# Polycom® RealPresence Digital Brkout, Camera and RealPresence Digital Brkout, Codec
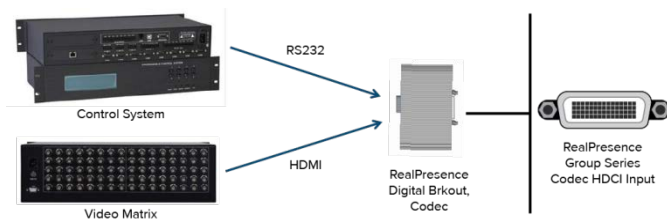# Quick User Guide

Product Description

Polycom® RealPresence Digital Brkout, Camera- Adapter for Videoconferencing Equipment

The Polycom RealPresence Digital Brkout, 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.
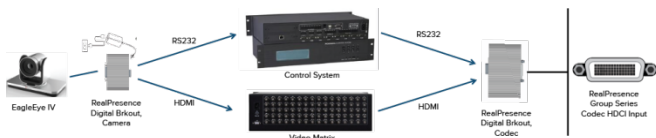

Polycom® RealPresence Digital Brkout, Codec - Adapter for Videoconferencing Equipment
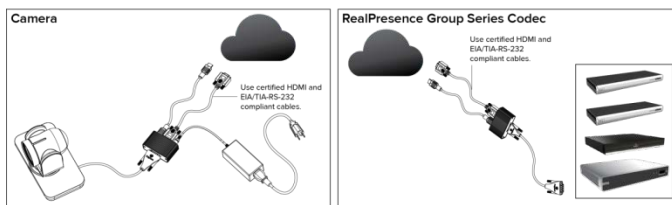
The Polycom RealPresence Digital Brkout, Codec, allows the input of HDMI and Serial for control into an HDCI input on the RealPresence Group Series codecs.

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

Setting up the Polycom® EagleEye™ Digital Breakout Adapter

RealPresence Digital Brkout, Camera
To connect the equipment with HDMI and RS-232, use compliant cables.

RealPresence Digital Brkout, Codec
To connect the equipment with HDMI and RS-232, use compliant cables.

Package Contents and Optional Accessories

Package Contents of RealPresence Digital Brkout, Camera adapter for Videoconferencing Equipment consists of:
- RealPresence Digital Brkout, Camera adapter,
- power supply (optional). Use only the approved power supply from Polycom (1465-52748-040). This product is rated 12VDC, 3A. This power rating should not be exceeded. Verify the polarity of the power supply. Optional Accessories: cables – not included.

Package Contents of RealPresence Digital Brkout, Codec adapter for Videoconferencing Equipment consists of:
- RealPresence Digital Brkout, Codec adapter.
Optional Accessories: cables – not included.

Best Practices and Safe Use

RealPresence Digital Brkout, Camera**:**
- Use the supplied Polycom power supply (part number 8200-23390-040).
- 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.

RealPresence Digital Brkout, 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

Mode	Active Pixels	Active Lines	Vertical Refresh Hz	Pixel Clock MHz	Video Standard
480i	720	480	59.94	27	CEA-861-D:6
576i	720	576	50	27	CEA-861-D:21
480p60	720	480	59.94	27	CEA-861-D:2
576p50	720	576	50	27	CEA-861-D:17
720p50	1280	720	50	74.25	CEA-861-D:19
720p60	1280	720	59.94	74.25/(1.001)	CEA-861-D:4
1080i50	1920	1080	50	74.25	CEA-861-D:39
1080i60	1920	1080	59.94	74.25/(1.001)	CEA-861-D:5
1080p50	1920	1080	50	148.50	CEA-861-D:31
1080p60	1920	1080	59.94	148.50/(1.001)	CEA-861-D:16

Parameters and Interfaces

RealPresence Digital Brkout, Camera:
- Includes its own power supply (part number 1465-52748-040 100-240VAC, 1.3A, 50/60Hz; 12VDC at 3.3A. 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.

RealPresence Digital Brkout, Codec:
- Has 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 RealPresence Digital Brkout, Camera has a seven year period of life. The EagleEye Digital Breakout Adapter has a seven year period of storage.
- The RealPresence Digital Brkout, Codec has a -30°C to 60°C (-22°F to 140°F), 35% to 90% non-condensing @ 40°C storage & transportation requirement.

Sales Terms and Conditions

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

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 be 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.
- Search for Answers in the Product Documentation: You can find Polycom product documentation at http://support.polycom.com/PolycomService/support/us/support/video/index.html
  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
- Access Polycom Technical Support: Contact your local Polycom distributor or Polycom Technical Support. To contact Polycom Technical Support, go to http://support.polycom.com/PolycomService/support/us/support/video/index.html

Product Support Product Manufacturing Information

This section includes manufacturing information.

Country of Manufacture: The country of manufacture is Thailand

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

Field	Description
YYYY	Production year. This is the year during which the unit was manufactured.
MM	Production month. There are twelve months in a year, therefore these two digits will line in the range between 01-12.
DD	Production day. There are up to thirty one days in a month, therefore these two digits will lie in the range between 01-31.

Additional information

- The product conforms to requirements of Technical regulations of the Customs union "Electromagnetic compatibility of technical equipment" (TR CU 020/2011) and compliance has been confirmed. Declaration of compliance of RealPresence Digital Brkout, Camera: ТС № RU Д-US.АЛ55.В.00150. It is valid from 17.03.2015 till 16.03.2020 inclusive. Declaration of compliance of RealPresence Digital Brkout, Codec: ТС № RU Д-US.АЛ55.В.00151. It is valid from 17.03.2015 till 16.03.2020 inclusive.
- Additional, more detailed info is available on the site www.polycom.com.
- Polycom Inc. has a right to change the current UG without any notification.

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CUSTOMER SUPPORT

To request assistance, visit Polycom *Support Portal Assistance*.