



**ROOM PREPARATION GUIDE**

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# **Poly G7500**

## **GETTING HELP**

For more information about installing, configuring, and administering Poly/Polycom products or services, go to Polycom Support

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# Introduction

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This guide can help you plan and prepare a video-conferencing room prior to installing the Poly G7500 system. The user of this guide should have:

- Familiarity with video conferencing technology.
- Prior knowledge and experience with audio/video (AV) cable installation and management.

## Installation Prerequisites

Before installers arrive onsite, install any cabling inside floors, walls, and ceilings/installation of any ceiling/wall mounted brackets used to support Poly and non-Poly equipment. This includes displays, projectors, microphones, speakers, projection screens, and cameras. If you are using an installer, they can install the system, test, and show the system working in a temporary position leaving you to then unplug and route cables as you wish.

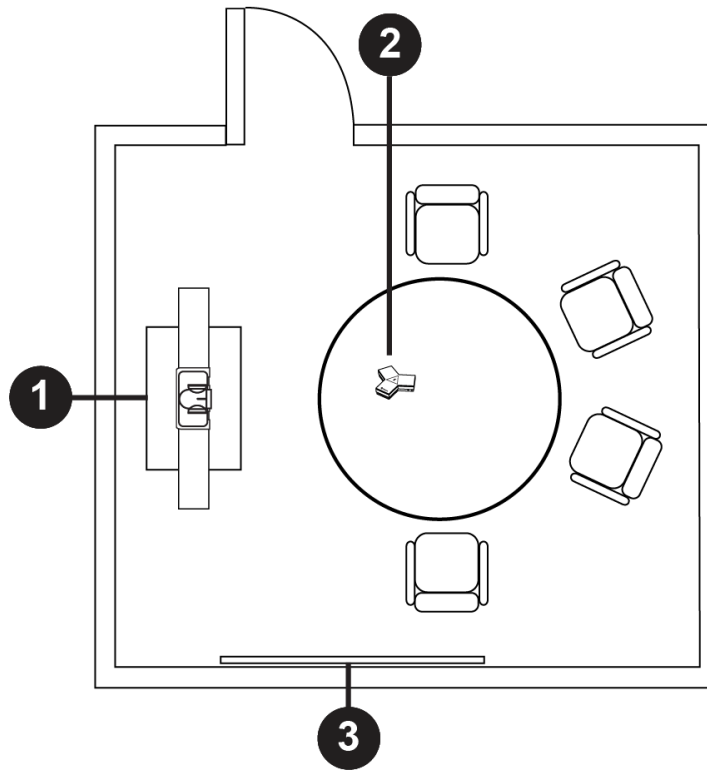
## Room Layout Examples

This section provides information about how to set up a room for video conferencing using the Poly G7500 systems and other Poly products.

## Layout Diagrams

Use the following diagrams as examples for setting up a conference room with Poly G7500 systems. Poly recommends that you contract an experienced contractor to ensure all the components operate as a single cohesive system.

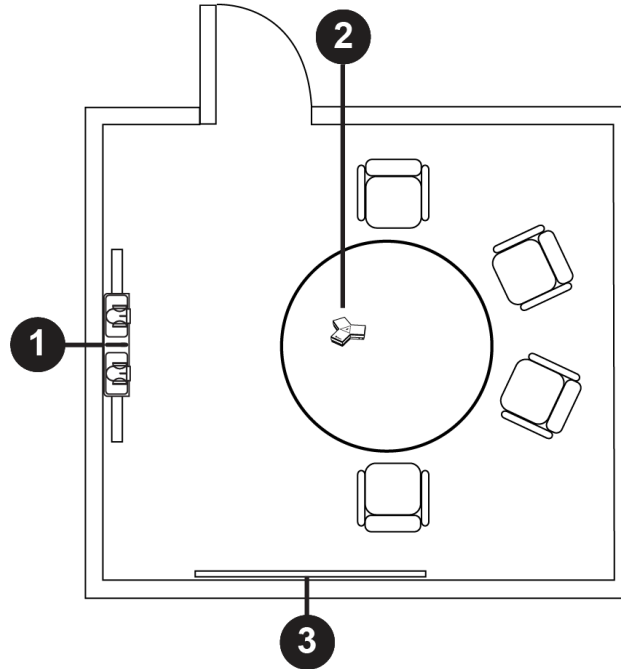
## Small Conference Room



### Small Conference Room

Number	Description
1	Poly G7500 System with single display and EagleEye IV camera
2	Poly IP Table Microphone
3	Physical whiteboard

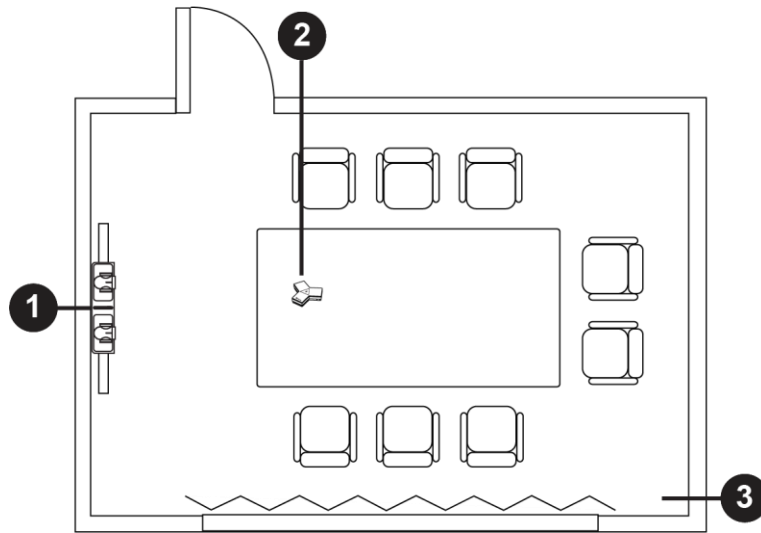
## Small Conference Room with Poly Medialign



### Small Conference Room with Poly Medialign

Number	Description
1	Poly G7500 system with Poly Medialign 75" display and EagleEye Director II camera
2	Poly IP Table Microphone
3	Physical whiteboard

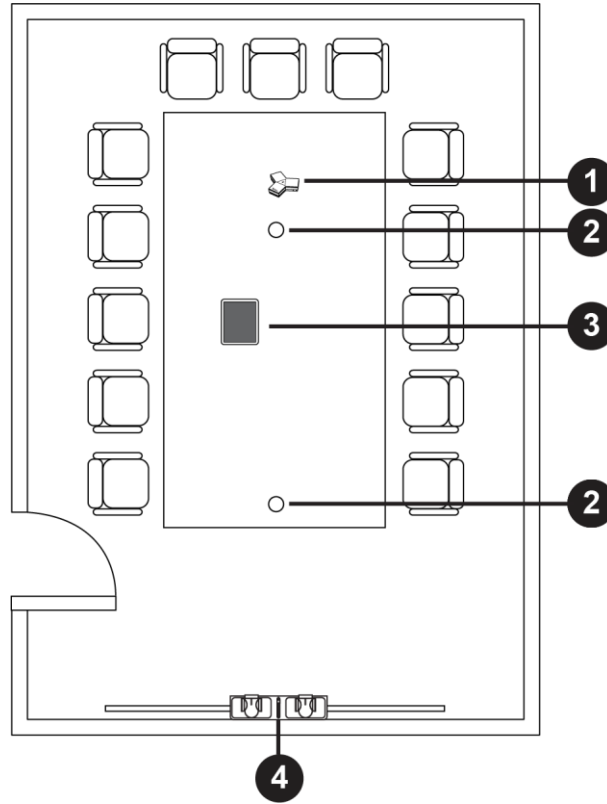
## Medium Conference Room



### Medium Conference Room

Number	Description
1	Poly G7500 system with dual displays and EagleEye IV, EagleEye Producer, or EagleEye Director II camera Or a Poly G7500 system with Poly Medialign 75" display and EagleEye Director II camera
2	Poly IP Table Microphone
3	Acoustic-quality drapes

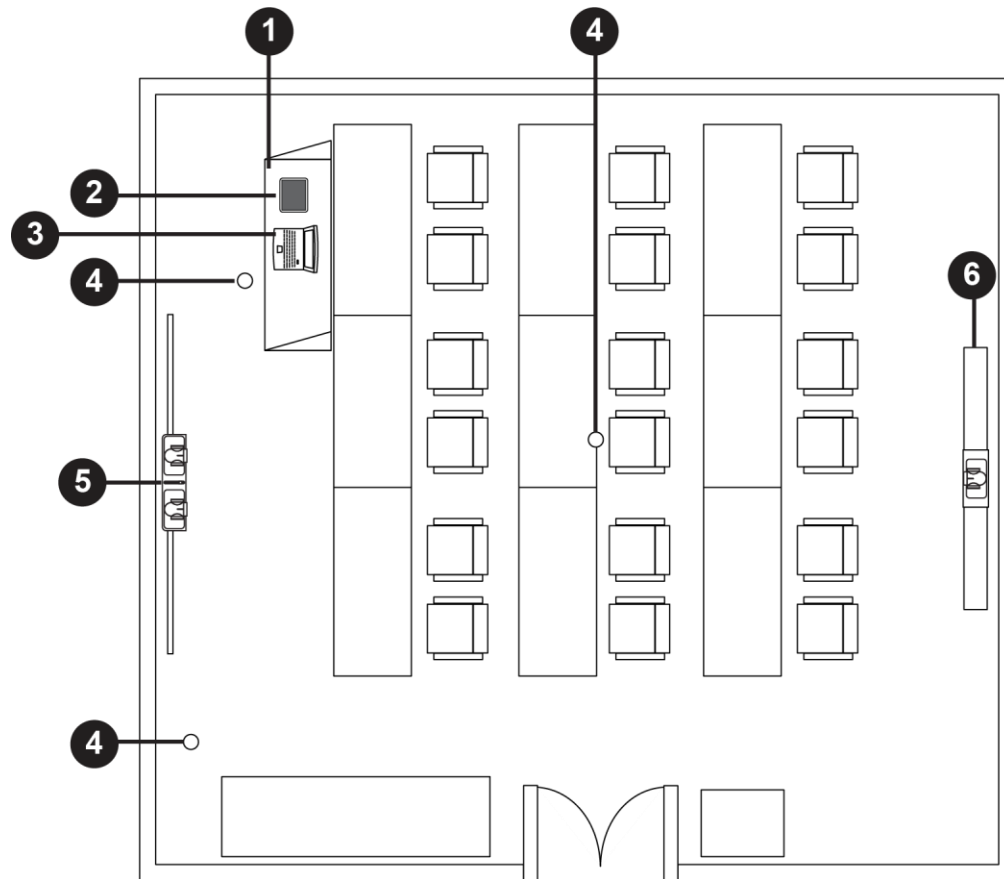
## Large Conference Room



### Large Conference Room

Number	Description
1	Poly IP Table Microphone
2	Poly IP Ceiling Microphone
3	Touch-enabled controller
4	Poly G7500 system with dual displays and EagleEye IV, EagleEye Producer, or EagleEye Director II camera Or a Poly G7500 system with Poly Medialign dual 75" displays and EagleEye Director II camera

## Classroom



### Classroom

Number	Description
1	Teacher's podium
2	Touch-enabled controller
3	Computer
4	Poly IP Microphone or Poly SoundStructure with a direct analog (3.5 mm) connection to the G7500 system
5	Poly G7500 system with dual displays and an EagleEye Producer or EagleEye Director II camera Or a Poly G7500 system with Poly Medialign dual 75" displays (which includes an EagleEye Director II camera)
6	Cascaded EagleEye Director II camera



## Monitor Options

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The Poly G7500 system can be set in single- or dual-monitor configurations. We recommend that you set up the system in the dual-monitor configuration. Monitors can be touch enabled for an enhanced experience.

If you've purchased a Poly video conferencing system, consider the following prior to the installation visit:

- Display and audio connections
- Codec placement
- Camera placement

## Codec Placement

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Measure your space before installation and make a plan for placing the codec. Place the codec within the standard cable lengths to ensure cables reach the desired equipment. Additional cables or connectors are required if you place equipment outside of the standard cable lengths.

Cable lengths for basic setup:

- **Screen** – Supplied HDMI cable (2) length: 1.83 m (6 ft)
- **Camera** – Supplied HDCI cable length: 3 m (9.8 ft)
- **Poly IP Table Microphone** – Supplied shielded LAN cable length: 7.6 m (25 ft)
- **LAN connection** – Supplied codec network cable length: 3.6 m (12 ft)
- **Power supply** – Approximately 3 m (9.8 ft) supplied for the codec. (The display and other devices associated with the system may require additional outlets.)
- **Poly EagleEye Cube USB camera** – Supplied with camera cable length: 2 m (6.6 ft)

Place your codec in an area that provides ventilation around the codec. A minimum distance of 35 mm (1.3 inches) on each side of the codec is recommended. Covering the ventilation opening can result in overheating and system instability.

You should also take note of the important safeguards mentioned in the Safety and Regulatory Notices on the [Polycom Support](#) site.

## Cables

Supplied cables and connection options are outlined below. If your chosen display does not support the supplied input, you must purchase the appropriate cables or adapters prior to installation. Compliance information is provided for the Restriction of certain Hazardous Substances Directive (RoHS) in the G7500 Safety and Regulatory Notice on the [Polycom Support](#) site.

Audio is provided digitally through HDMI. Your display must have internal amplification and speakers; otherwise, you need to provide external amplification.

You can view cable drawings on the [Polycom Community](#) web page.

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**Note:** Figures and part number are provided for reference only.

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## Network Cables

This section includes information about the network cables you can use with your G7500 system.

### ***CAT 5e LAN Cable***

This cable connects the G7500 system to the LAN. It has orange RJ-45 connectors on both ends. It meets category 5e requirements and is wired according to EIA/TIA-568B. The maximum approved length for this cable is 100 m (328 ft) on an 802 network.

#### **Cat 5e LAN Cables**

Length	Part Number	RoHS Compliant
3.6 m (12 ft)	2457-23537-001	Yes

## Video and Camera Cables

This section includes information about the video and camera cables you can use with your G7500 system.

### ***Poly EagleEye Cube USB Camera Cable***

This cable connects the Poly EagleEye Cube USB camera to the G7500 system. It is male USB-C to male USB-A.

#### **EagleEye Cube USB Camera Cable**

Length	Part Number	RoHS Compliant
2 m (6.6 ft)	—	Yes

## ***HDMI Monitor Cable***

This cable connects the G7500 system HDMI output to an HDMI monitor. It is male HDMI to male HDMI.

### **HDMI Monitor Cable**

<b>Length</b>	<b>Part Number</b>	<b>RoHS Compliant</b>
1.8 m (6 ft)	2457-28808-004	Yes

## ***HDCI Polycom EagleEye IV Digital Camera Cable***

This cable, also referred to as a mini-HDCI, is a male HDCI to male mini HDCI. It connects a system to a Polycom EagleEye IV camera, It also connects an EagleEye Producer that is used with an EagleEye IV camera or an EagleEye Digital Extender to a system.

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**Note:** The 10 m (32.8 ft) HDCI Polycom EagleEye Digital IV camera cable is not supported. Use the EagleEye Digital Extender for cable runs longer than 3 m (9.8 ft).

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### **HDCI EagleEye IV Digital Camera Cables**

<b>Length</b>	<b>Part Number</b>	<b>RoHS Compliant</b>
0.3 m (1 ft)	2457-28808-004	Yes
0.457 m (1.5 ft)	2457-64359-018	Yes
1 m (3.28 ft)	2457-64356-100	Yes
3 m (9.84 ft)	2457-64356-001	Yes

## ***Mini-HDCI Cable Applications***

This list provides guidelines for what cable, device, and peripheral connections are supported with G7500 systems and mini-HDCI cables.

The following connections are supported with all G7500 Systems and mini-HDCI cables (0.3 m/1ft; 0.457 m/1.5 ft; 1 m/3.28 ft; 3 m/9.84 ft):

- EagleEye IV to codec
- EagleEye IV to EagleEye Digital Extender
- Codec to EagleEye Digital Extender
- EagleEye Producer to codec
- EagleEye Director II to codec
- EagleEye Director II to EagleEye Digital Extender
- EagleEye Producer to EagleEye Digital Extender
- EagleEye IV to codec

- EagleEye IV to EagleEye Digital Extender

## ***HDCI Polycom EagleEye IV Camera to Polycom EagleEye Producer Digital Cable***

This cable connects a Polycom EagleEye Producer to a Polycom EagleEye IV camera, It is male HDCI to male mini HDCI.

### **Polycom EagleEye IV Camera to Polycom Producer Digital Cable**

<b>Length</b>	<b>Part Number</b>	<b>RoHS Compliant</b>
0.3 m (1 ft)	2457-64356-030	Yes

## ***HDCI Polycom EagleEye Producer Camera Digital Cable Adapter***

This cable connects the HDCI output of the Polycom EagleEye Producer to an EagleEye IV Digital Camera cable. It is male HDCI to male mini HDCI.

### **Polycom EagleEye Producer Camera Digital Cable Adapter**

<b>Length</b>	<b>Part Number</b>	<b>RoHS Compliant</b>
0.2 m (0.7 ft)	2457-69794-001	Yes

## ***HDCI Adapter for Polycom EagleEye Director II***

This adapter connects a camera's mini-HDCI output to the mini-HDCI input on the base of the EagleEye Director II. This connection must be secured before a camera can be mounted to the EagleEye Director II.

### **HDCI EagleEye Director II Adapter**

<b>Length</b>	<b>Part Number</b>	<b>RoHS Compliant</b>
—	1696-69473-001	Yes

## **Audio Cables**

This section includes information about the audio cables you can use with your G7500 system. IP microphones don't need special audio cables and connect directly to the G7500 system with LAN cables. Use audio cables to connect non-IP microphones to a Polycom Microphone IP Adapter. Use a LAN cable to connect the microphone adapter to the G7500 system.

## ***Poly IP Ceiling Microphone Array Drop Cable***

Use this extended length drop cable for connecting a spherical ceiling microphone array element to an electronics interface. It is 6-pin mini-DIN to 6-pin mini-DIN.

### **Ceiling Microphone Array Drop Cable**

Length	Part Number	RoHS Compliant
0.6 m (2 ft)	2457-85785-024	Yes

## ***Polycom Shielded Plenum Crossover Cable***

Use this shielded plenum crossover cable between the electronics enclosure and codec or between the electronics closure and the wall plate. It is male RJ-45 to male RJ-45.

### **Shielded Plenum Crossover Cable**

Length	Part Number	RoHS Compliant
15.2 m (50 ft)	2457-85361-001	Yes

## ***Poly IP Table Microphone Cable***

Use this cable to connect a table microphone to a G7500 system. It is male RJ-45 to male RJ-45.

### **Table Microphone Cable**

Length	Part Number	RoHS Compliant
7.62 m (25 ft)	2457-17977-001	Yes

## ***RealPresence Group Microphone Array Walta-Walta Cable***

Use this cable to connect non-IP microphones to a Polycom Microphone IP Adapter. This cable can also be used to connect non-IP microphones to each other. This cable is male Walta to male Walta.

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**Warning:** Verify the plug orientation when plugging in the microphone array. If while plugging in the connector you feel undue pressure that you need to “force” the cable for it to connect, the cable is likely being inserted incorrectly. Improper connection causes the current to flow in reverse polarity leading to high current that can result in severe damage to the Polycom Microphone IP Adapter.

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### **Group Microphone Array Walta-Walta Cable**

Length	Part Number	RoHS Compliant
4.6 m (15 ft)	2457-23215-001	Yes
7.6 m (25 ft)	2457-23216-001	Yes

7.6 m (25 ft)	2457-23216-002	Yes
3 m (10 ft)	2457-28978-001	Yes
15.24 m (50 ft)	2457-29051-001	Yes

## ***Polycom EagleEye Director II RCA Audio Breakout Cable***

Use this cable to connect a G7500 system to the Polycom EagleEye Director II camera and the room audio playback system. It is dual male RCA connectors (used with the EagleEye Director II dual stereo adapter for the G7500 codec) a 3.5 mm male connector (for the EagleEye Director II) and dual female RCA connectors (for the room audio playback system).

### **EagleEye Director II RCA Audio Breakout Cable**

Length	Part Number	RoHS Compliant
3 m (9.8 ft)	2457-69476-001	Yes

## ***Polycom EagleEye Director II Dual Stereo Audio Adapter***

Use this 3.5 mm adapter with a Polycom EagleEye Director II RCA Audio Breakout Cable (part number 2457-69476-001) to convert the 3.5 mm line out connection on a G7500 system to RCA.

### **EagleEye Director II Dual Stereo Audio Adapter**

Length	Part Number	RoHS Compliant
—	1517-09350-001	Yes

## **Serial Cables**

This section includes information about the serial cables you can use with your G7500 system.

### ***Polycom Serial Cable***

Use this cable to connect a G7500 system to a serial device. It is 8-pin mini-DIN to DB-9.

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**Note:** The 8-pin mini-DIN RS232 connection is wired per Poly RS-232 and does not follow VISCA pinout convention. Don't try to use a cable meant to support VISCA in this application as it doesn't work correctly.

Don't use this adapter directly connected to multi-purpose AMX serial ports. AMX systems support both RS-232 AND RS-422. Therefore, for the most reliable RS-232 support with this adapter, use an additional null modern cross-over cable in-line that only carries pins 2, 3, and 5, with pins 2 and 3 crossed.

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**RealPresence Group Series Serial Cable**

Length	Part Number	RoHS Compliant
3 m (9.8 ft)	2457-63542-001	Yes

***Straight-Through Cable***

Use this cable to connect a G7500 system to a serial device. It has a DB-9 connector on each end. The maximum approved length is 30 m (100 ft).

**Recommendation for Use**

Poly does not recommend using this straight-through serial cable for RS-232 communication from a computer, Creston system, or AMX device. For RS-232 communication, use a cross-over cable with pin 2 wired to pin 3, pin 3 wired to pin 2, and pin 5 wired to pin 5. The other pins are not used.

**Straight-Through Cable**

Length	Part Number	RoHS Compliant
7.6 m (25 ft)	2457-09172-001	Yes