



BEST PRACTICES

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Zoom Smart Gallery on Poly VideoOS Systems

**Poly G7500 with Poly Studio E70, Poly Studio X70, Poly Studio X50,
and Poly Studio X30**

GETTING HELP

For more information about installing, configuring, and administering Poly/Polycom products or services, go to the [Poly Online Support Center](#).

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Before You Begin

Use this guide to help you plan and prepare a video-conferencing room before using the Zoom Smart Gallery feature.

Audience, Purpose, and Required Skills

This document is intended for Poly partners, resellers, and installers who are planning to use the Zoom Rooms Smart Gallery feature on their Poly VideoOS system.

You must be familiar with the following concepts before beginning:

- Current telecommunications practices, protocols, and principles
- Telecommunication basics, video conferencing, and voice or data equipment
- Knowledge and experience with audio/video (A/V) cable installation and management

Privacy Policy

Poly products and services process customer data in a manner consistent with the [Poly Privacy Policy](#). Please direct comments or questions to privacy@poly.com.

Related Poly and Partner Resources

See the following sites for information related to this product.

- The [Poly Online Support Center](#) is the entry point to online product, service, and solution support information including Video Tutorials, Documents & Software, Knowledge Base, Community Discussions, Poly University, and additional services.
- The [Poly Document Library](#) provides support documentation for active products, services, and solutions. The documentation displays in responsive HTML5 format so that you can easily access and view installation, configuration, or administration content from any online device.
- The [Poly Community](#) provides access to the latest developer and support information. Create an account to access Poly support personnel and participate in developer and support forums. You can find the latest information on hardware, software, and partner solutions topics, share ideas, and solve problems with your colleagues.
- The [Poly Partner Network](#) is a program where resellers, distributors, solutions providers, and unified communications providers deliver high-value business solutions that meet critical customer needs, making it easy for you to communicate face-to-face using the applications and devices you use every day.
- The [Poly Services](#) help your business succeed and get the most out of your investment through the benefits of collaboration.

Zoom Smart Gallery Overview

Zoom Smart Gallery extracts images from regions of interest (for example, a person who is speaking) from the video stream of a camera into separate, individual video streams. It also displays a single video stream showing all call participants.

Poly VideoOS supports the Zoom Smart Gallery feature using the following systems:

- Poly G7500 with Poly Studio E70
- Poly Studio X70
- Poly Studio X50
- Poly Studio X30

Note: Don't connect other cameras to the system when you enable the Zoom Smart Gallery feature.

Zoom Rooms uses the term *logical camera* to describe a system's camera (for example, the Studio X50's built-in camera) and *virtual camera* to describe the region of interest extracted from the logical camera's image. When you enable Zoom Smart Gallery, the system creates up to two virtual cameras for the Zoom Rooms application to use. The Zoom Rooms application always sends the logical camera video to the Zoom meeting, but it creates the virtual cameras on an adhoc basis. The application starts or stops sending additional video streams to the meeting as it creates or deletes the virtual cameras.

For more information on supported Poly VideoOS software versions, supported cameras, and the maximum supported number of virtual cameras, see the *Poly VideoOS Release Notes* at the [Poly Online Support Center](#).

Poly's Implementation of Zoom Smart Gallery

When you enable Zoom Smart Gallery, your Poly system continuously determines multiple regions of interest based on current or previous active speakers found in the camera's view. When the system determines a region of interest exists, it centers the region of interest on the speaker and crops it from the overall camera image as tightly as possible.

The system determines a region of interest based on the following considerations:

- The ability of the system to automatically detect a face in the camera's view
- The ability of the system to automatically detect an actively speaking person in the camera's view
- The camera's resolution, field of view, and distance from the camera to the speaker

Tip: The system achieves the best results when speakers are directly facing the camera, their faces aren't obstructed by other people in the camera's view, and their faces are consistently in the camera's view.

As different individuals in the camera's view become the current active speaker, the regions of interest change. The system presents the regions of interest to the Zoom Rooms application on up to two virtual cameras based on the following priority:

- 1 The current speaker
- 2 The most recent active speakers in the camera's view

If there are no active speakers or the active speakers leave the camera's field of view, the virtual camera video streams stop.

Configuring Zoom Smart Gallery

You don't have to make any configuration changes to your Poly system to use the Zoom Smart Gallery feature, but Poly and Zoom recommend running the latest available software. Before you configure Zoom Smart Gallery on your Poly system, update your system to the following software versions:

- G7500 with Studio E70 or Studio X70 - Poly VideoOS 3.8 or later
- Studio X50 or Studio X30 - Poly VideoOS 3.5.1 or later
- Zoom Room application - 5.7.0 or later

Use the Zoom admin portal to enable the Zoom Smart Gallery feature. You can make it the default view account wide or enable it only for specific Zoom Rooms. You can also use the system's Zoom Room controller or a device running the Zoom Room Touch interface to manually enable the feature during a meeting.

For information on enabling this feature in the Zoom admin portal, see [Getting Started with Smart Gallery View](#).

Room Layout Recommendations

The ability of a system to properly determine regions of interest and tightly frame speakers in those regions of interest is highly dependent on multiple variables. The following room layouts provide best practices to leverage your video conferencing system's capabilities with the Zoom Rooms Smart Gallery feature.

Each figure shows seating layouts that position individuals to face and speak directly towards the system's camera. The camera in each layout example has a clear line of sight to every individual in the conference room across a wide field of view, without the potential for anyone to obstruct the speaker. The examples also show the meeting participants seated closely to the system's camera, so that the camera can best frame an active speaker.

Poly recommends following the room layout examples whenever possible. When it's not possible, you can adjust the existing room layout to enhance the Zoom Smart Gallery experience by doing one or more of the following:

- Move the displays and Poly video conferencing system to a new location.
- Change the orientation of the conference room table or use a different table.
- Limit the number of chairs around the table to encourage meeting participants to sit closer to the camera.

Recommended Room Dimensions

Poly recommends using the appropriate video conferencing system based on your conferencing room size. Using a video conferencing system in a room that is too large or small may lead to issues when using Zoom Smart Gallery.

Note: The Zoom Smart Gallery feature is designed for a landscape room orientation, which has a width that exceeds its depth, as shown in the room layout examples in the next section. The first number listed for the dimensions of each room in the table below is the maximum recommended depth.

Room Dimensions

Room Size	Dimensions	Recommended Poly System
Large	6 m (19.7 ft) × 9 m (29.5 ft)	G7500 with Studio E70 or Studio X70
Medium	4.5 m (14.8 ft) × 6 m (19.7 ft)	G7500 with Studio E70 or Studio X70
Small	3 m (9.8 ft) × 4.5 m (14.8 ft)	Studio X50
Huddle	3 m (9.8 ft) × 3 m (9.8 ft)	Studio X30

Room Layout Examples

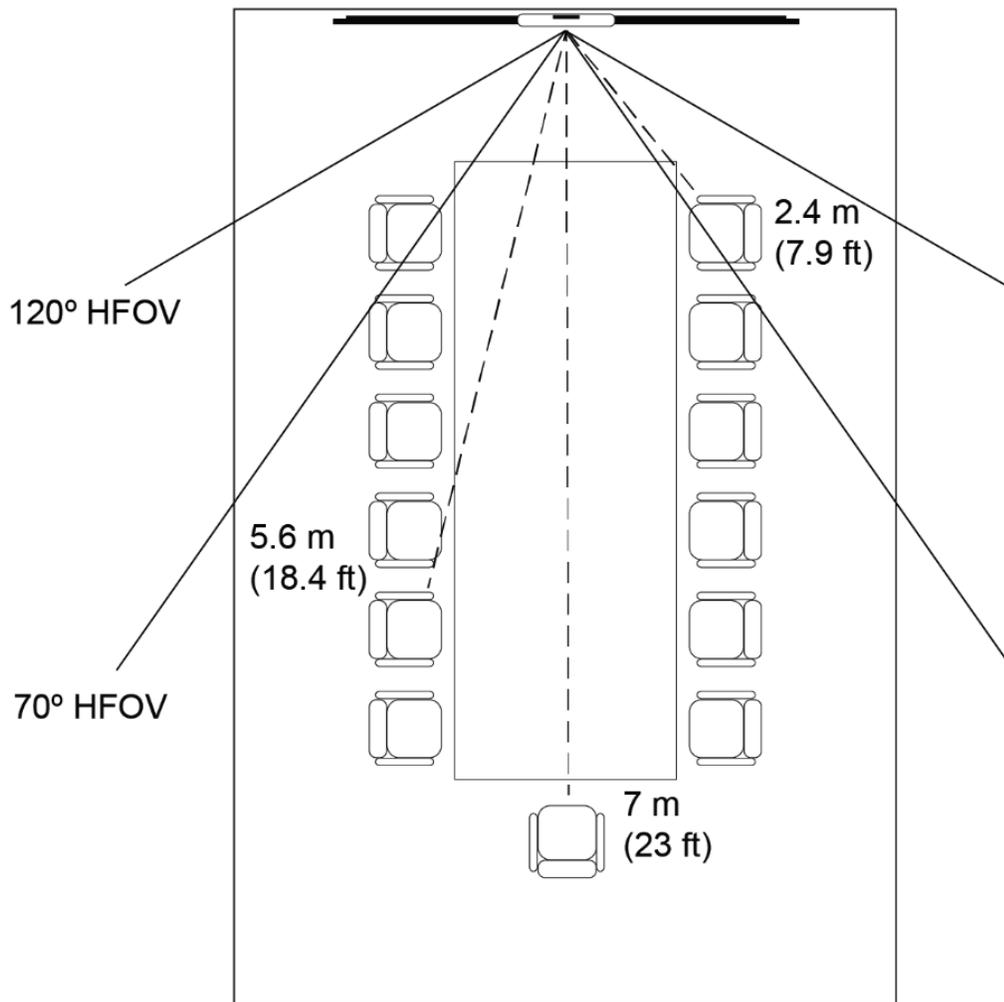
Use the following diagrams as examples for setting up a conference or huddle room with a Poly video system using Zoom Smart Gallery. Your specific setup may vary, depending on furniture size, door and window placement, or other decor in the room.

Note: The dashed lines and accompanying measurements in the diagrams indicate the estimated distances from the camera.

Large Conference Rooms

G7500 with Studio E70 and Studio X70 systems are designed for large-sized conference rooms. The field of view for these cameras enables Zoom Smart Gallery features for up to 13 conference participants in a single room.

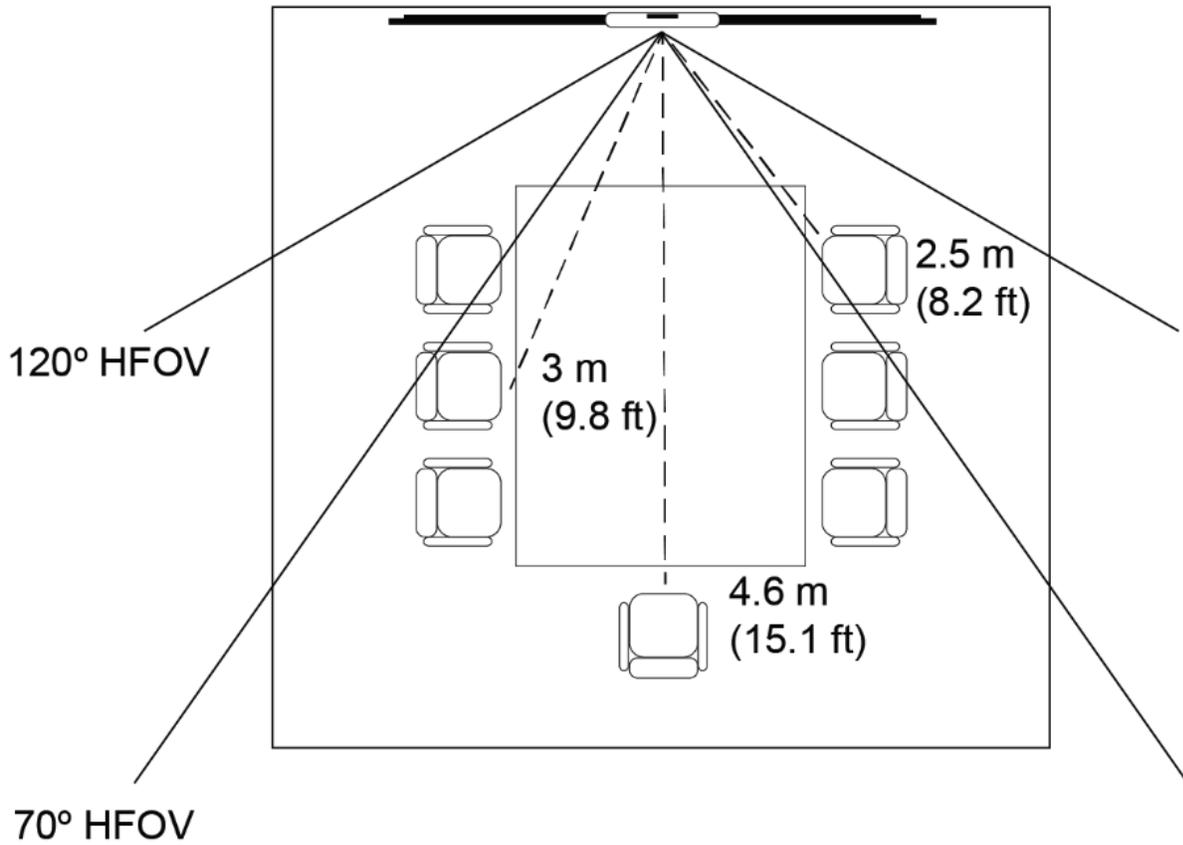
G7500 with Studio E70 or Studio X70 Large Conference Room Layout



Medium Conference Rooms

G7500 with Studio E70 and Studio X70 systems are designed for medium-sized conference rooms. The field of view for these cameras enables Zoom Smart Gallery features for up to 7 conference participants in a single room.

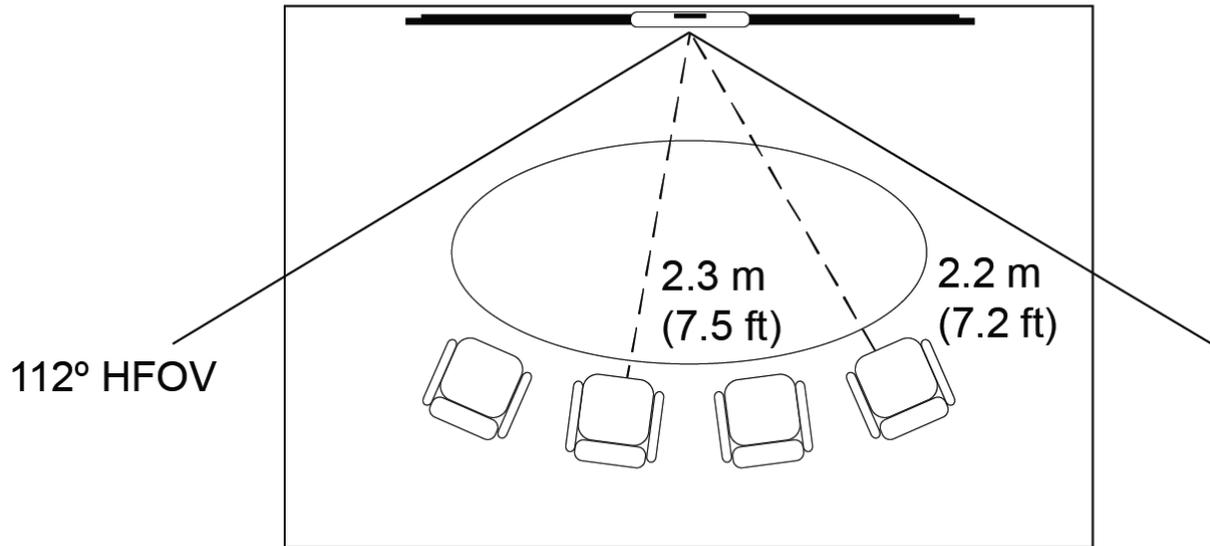
G7500 with Studio E70 or Studio X70 System Medium Conference Room Layout



Small Conference Rooms

Studio X50 systems are designed for small-sized conference rooms. The field of view on these cameras enables Zoom Smart Gallery features for up to 4 conference participants in a single room.

Studio X50 Small Conference Room Layout



Huddle Rooms

Studio X30 systems are also designed for huddle rooms. The field of view on these cameras enables Zoom Smart Gallery features for up to 4 conference participants in a single room.

Studio X30 Huddle Room Layout

