Cisco Room Kit EQX

Room preparation guidelines

This document outlines the basic guidelines for a successful installation and use of the *Cisco Room Kit EQX*.

In short, these guidelines deal with room considerations, screen sizes, wall preparation, and other considerations such as: table length and seating, microphones, acoustic room guidelines, and lighting.

Also, information that you need in order to prepare the room for the physical installation is included, such as system size and weight, how the system is fastened to the wall, and power and Ethernet requirements.

Table of contents

Part 1: Room considerations

2

Room design considerations

Room Kit EQX generation

The new *Room Kit EQX* is designed to make your video conferencing room more flexible. Depending on the room conditions the Room Kit EQX can be mounted directly on the wall with or without a stand. Or it can be placed freely in a room as a freestanding unit. Note that type of wall, room shape, etc. determine what type of mounting or stand is suitable. For more information on wall preparation, go to the "Wall Preparation" section.

Room Kit EQX can accommodate various screen sizes within the range of 65″ to 75″ (up to 3840×2160 at 60 fps per screen).

Wall Mount

Wall Stand

Floor Stand

Recommended room size

Room layout

Room Kit EQX supports a variety of room layouts; from medium size to large conference rooms. The system is designed to make your video conference versatile and flexible.

When planning your room layout, make sure the Room Kit EQX isn't subjected to direct sunlight. Recommended operating temperature and humidity is in the range 0°C to 35°C (32°F to 95°F) ambient temperature and 10% to 90% Relative Humidity (RH).
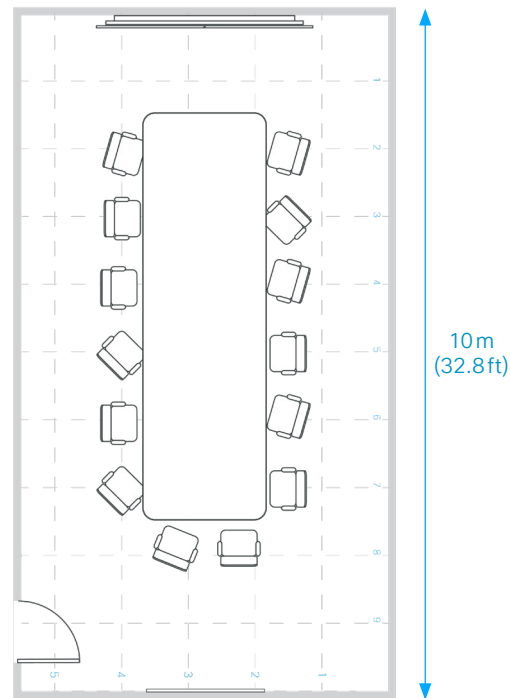
For in depth information on creating the best room layout for optimum experience, refer to "Display Recommendation" and "Tables" sections on the "Best Practices for Creating Effective Video-enabled Rooms" document.

Each customer is unique. It is important to involve the local workplace resources team and your system integrator to refine details of the set-up. Some customers may have special universal design and accessibility requirements. It is important to take into account the holistic integration and avoid combining our room elements in a way that compromise accessibility.
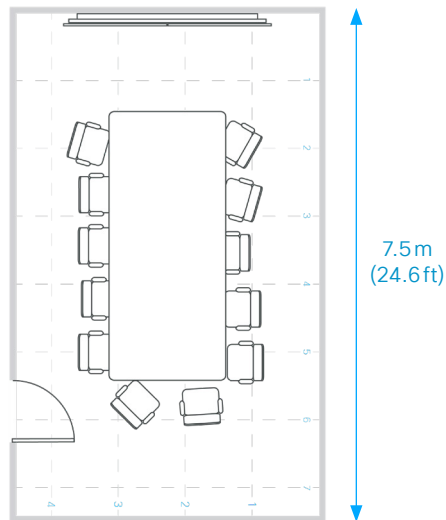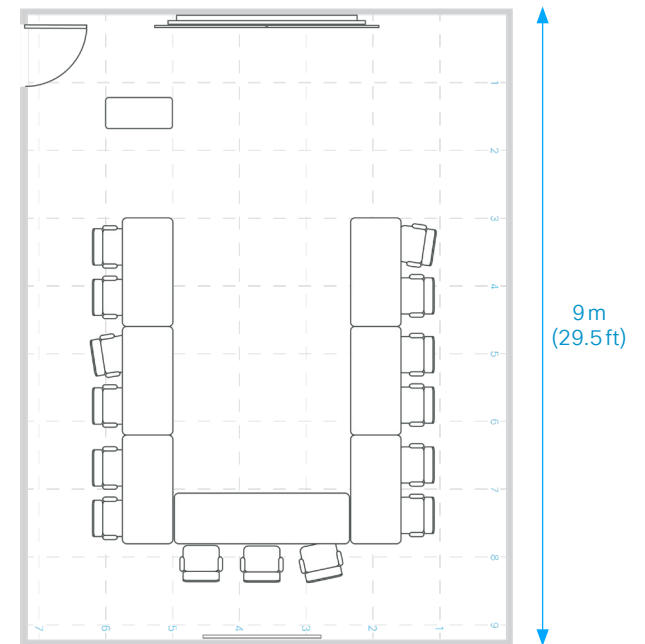

Medium meeting room

6–10 people

Large meeting room

8–14 people


Large meeting room

14–16 people

Part 2: Screen sizes

Recommended screen dimensions
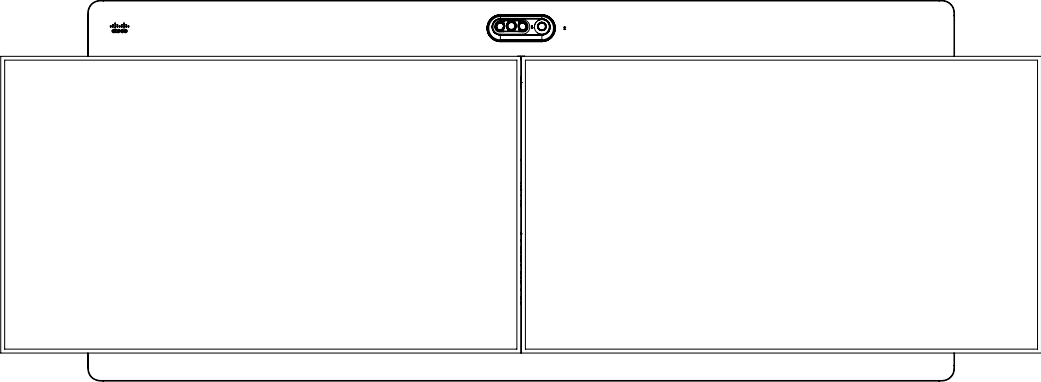
Screen sizes

Room Kit EQX supports screen sizes from 65″ up to 75″ (16:9 ratio). Choosing the right screen size is vital for the best meeting experience.

Screen size should be chosen based on the room layout and size, table shape and number of participants in the room. For more in depth information, refer to "Display Recommendation" and "Tables" sections on the "Best Practices for Creating Effective Video-enabled Rooms".

Note that when choosing screens for Room Kit EQX, the recommended maximum screen thickness and screen weight is very important. The following page provides more information regarding this.
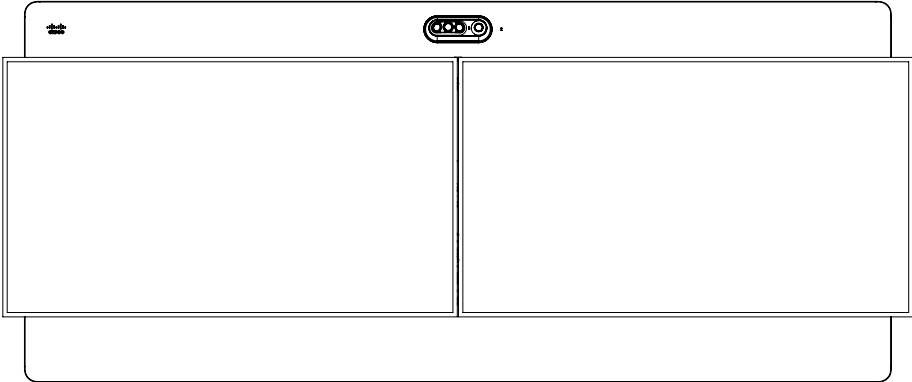
Wall Mount 65″

Wall Mount 75″

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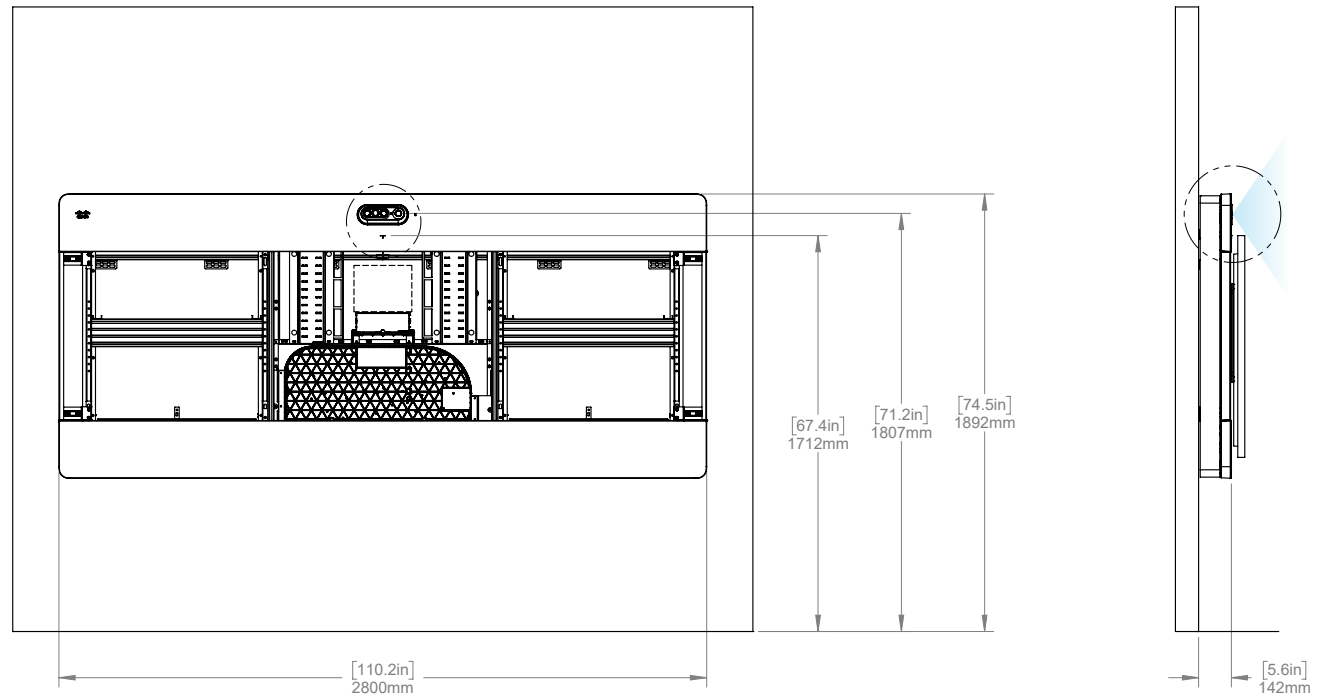
Recommended screen dimensions

FOV – Field of view

We recommend aligning top edge of the screens to the T alignment mark on the top grille regardless of screen size. This will ensure great visibility to content. More information on screen alignment can be found on the "Adjust the VESA rail position" section in the Installation Guide: https://www.cisco.com/go/room-kit-eqx-installation
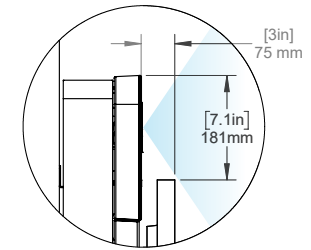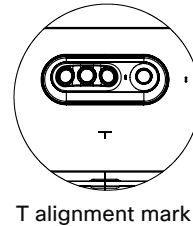
T alignment mark

Screen depth

The screens should not block the FOV of the camera. Total distance from the T alignment mark to the outer edge of the screen should not exceed 75 mm (2.95"). When the top edge of the screen is horizontally aligned to the T alignment mark, recommended maximum screen depth is 65 mm (2.56"). If your screen thickness exceeds 75 mm (2.95"), consider lowering your screen below the T alignment mark to not block the FOV of the camera. Cisco has made selecting screens easy for you through Cisco Collaboration Devices Certification Program and Cisco Verified Displays. Learn more here: https://help.webex.com/7sw4gab/

Screens operating temperature

Only use screens with a maximum room ambient rating of 40°C (104°F) or better.

Recommended screen dimensions
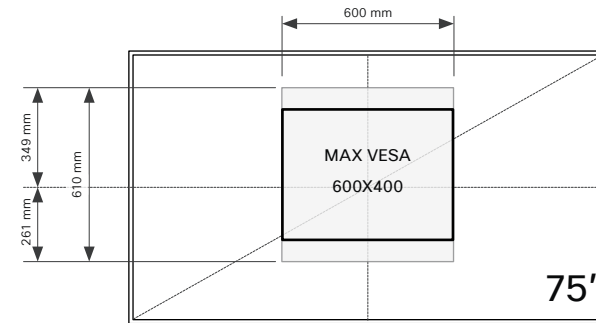
Screen weight

Recommended screen weight differs depending on Wall Mount & Wall Stand and Floor Stand:

Wall Mount and Wall Stand

- Maximum per screen is 50 kg (110 lb).

Floor Stand

- Maximum per screen is 42 kg (93 lb).

75"
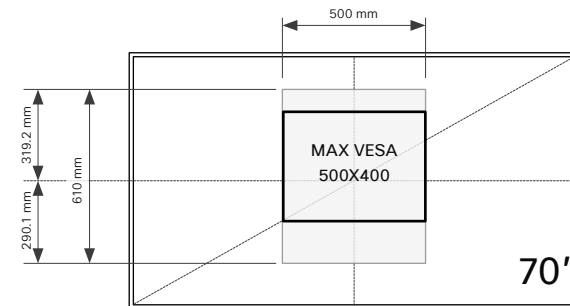600 mm · 349 mm · 261 mm · 610 mm · MAX VESA 600X400

VESA

Room Kit EQX supports the VESA MIS-F standard with the following limitations (minimum to maximum):

- 65": 400x200 to 400x400
- 70": 400x200 to 500x400
- 75": 400x200 to 600x400

See dimensions on the side for reference.

70"
500 mm · 319.2 mm · 290.1 mm · 610 mm · MAX VESA 500X400

Cisco Verified Displays

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CISCO
Verified
Collaboration Devices**

More information about Cisco Collaboration Devices Certification Program and Cisco Verified Displays can be found here: https://help.webex.com/7sw4gab/

For Room Kit EQX's dual-screen installations, some display models may require color adjustment or calibration.

General information

Screens with a separate box for connectivity (I/O, power supply, etc.) are not recommended.

It is recommended to use identical screens (make and model).

65"
400 mm · 289 mm · 321 mm · 610 mm · MAX VESA 400X400

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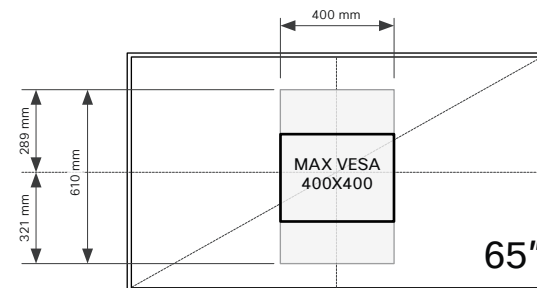
Part 3: Wall preparation

Preparing the wall (page 1 of 4)

Due to the size and weight of the Room Kit EQX, it must be installed by qualified personnel. The installer must determine whether the wall must be reinforced prior to the installation and calculate the number and type of screws required for a safe installation.

Wall mount

The product is fastened to the wall using a wall mount beam. The beam must be fastened by four (4) to six (6) wall brackets so that they safely support the product.

In total, Room Kit EQX with wall mount weighs up to 220 kg (485 lb), including screens with maximum weight of 50 kg (110 lb) each.

We recommend using all six brackets for a safe installation.
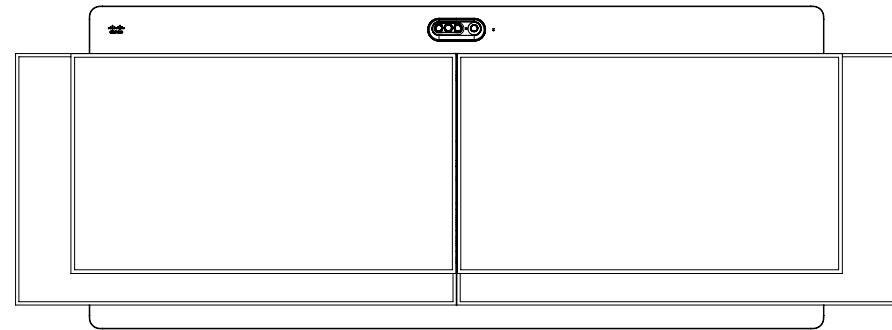
Wall stand

For walls and wall structures that are not able to support the full weight of the system, mounting the Room Kit EQX supported by wall stand is possible. The product is fastened to the wall using the beam. The beam must be fastened by four (4) to six (6) wall brackets so that they safely support the product.

In total, Room Kit EQX with wall stand weighs up to 235 kg (518 lb), including screens with maximum weight of 50 kg (110 lb) each.
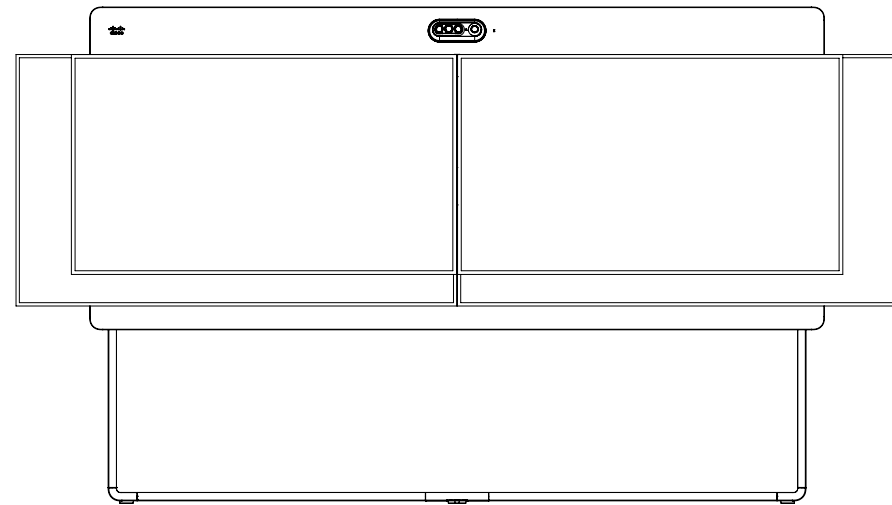
Floor stand

In addition, Room Kit EQX is available as a completely freestanding unit which is suitable if the wall doesn't support any type of mounting.

In total, Room Kit EQX with floor stand weighs up to 256 kg (565 lb), including screens with maximum weight of 42 kg (93 lb) each.

Wall Mount 65″ – 75″

Wall Stand 65″ – 75″

Preparing the wall

Power and Ethernet

Socket outlets (Electrical box area)

If you wish to have the power and Ethernet socket outlets installed behind the screens, a proposed area of 250 × 200 mm (9.8 × 7.9 in.) is shown in the drawing to the right, named "wall box area".

We have designed the system to be flexible. There is extra internal space for socket outlets on the wall behind the screens depending on screen size and VESA location.

Number of outlets

In total you need 3 power outlets, one for each screen and one for Room Kit EQX.
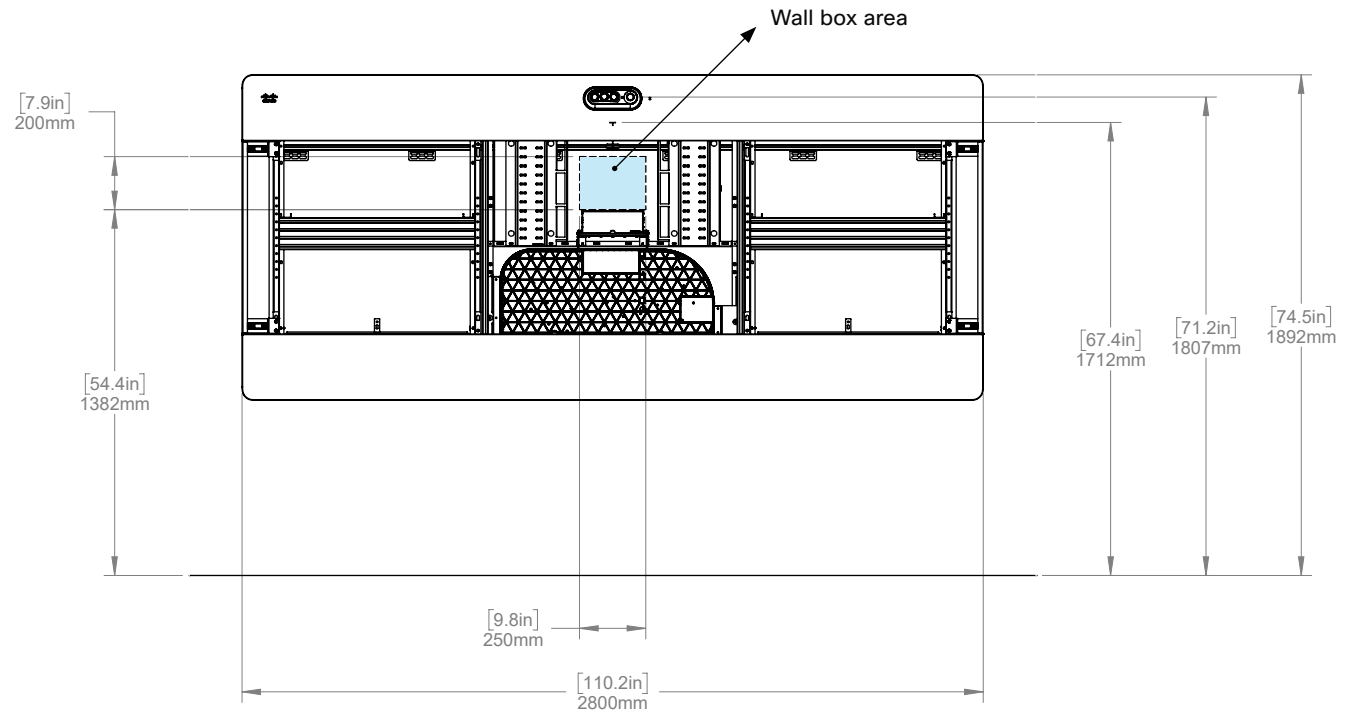
Maximum power consumption (without screens)

Room Kit EQX: 254 W

· At 100 V: max 2.59 A
· At 240 V: max 1.17 A

Definition of max is that all codec outputs are loaded at max according to rating.

LAN/Ethernet

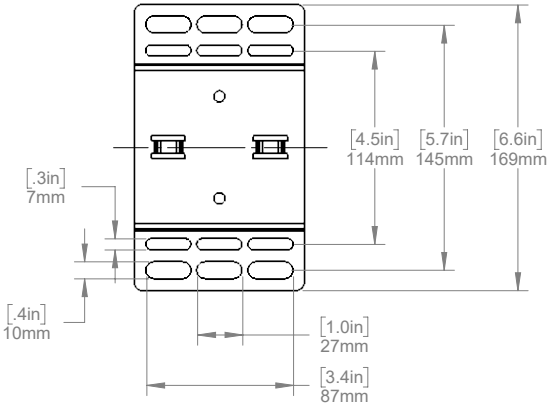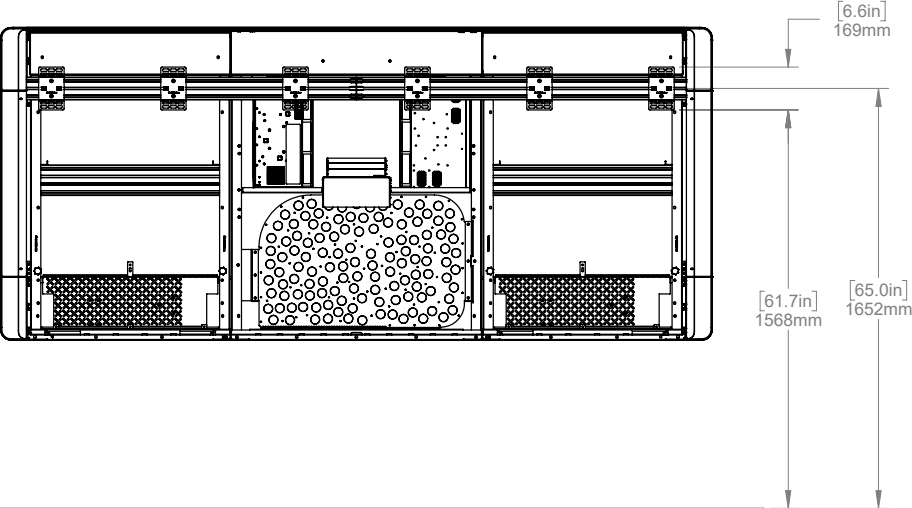You only need one LAN/Ethernet socket on the wall. Recommended Ethernet bandwidth is 20 Mbps.

Wall box area

[7.9in] 200mm

[54.4in] 1382mm

[67.4in] 1712mm

[71.2in] 1807mm

[74.5in] 1892mm

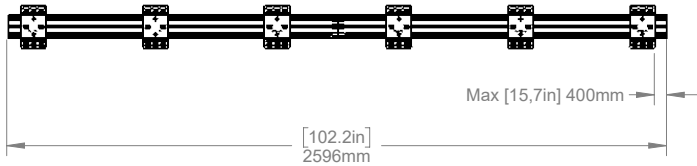[9.8in] 250mm

[110.2in] 2800mm

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Wall mount brackets and beam

Wall mount brackets allow Room Kit EQX to be assembled to the wall securely. For a successful setup, we recommend:

- The unit weighs up to 220 kg (485 lb), including screens with maximum weight of 50 kg (110 lb) each. The wall and chosen fasteners must support this.

- The wall brackets can slide on the beam so they can be positioned on studs in a wall.

- The brackets have multiple holes to ensure a good connection even if there is no stud available.

- The distance from the end bracket to the end of the beam should be maximum 400 mm to ensure a good weight distribution on the beam.

- A minimum number of 4 wall brackets should be used.

$\begin{bmatrix}6.6\text{in}\\169\text{mm}\end{bmatrix}$

$\begin{bmatrix}61.7\text{in}\\1568\text{mm}\end{bmatrix}$ $\begin{bmatrix}65.0\text{in}\\1652\text{mm}\end{bmatrix}$

$\begin{bmatrix}.3\text{in}\\7\text{mm}\end{bmatrix}$

$\begin{bmatrix}4.5\text{in}\\114\text{mm}\end{bmatrix}$ $\begin{bmatrix}5.7\text{in}\\145\text{mm}\end{bmatrix}$ $\begin{bmatrix}6.6\text{in}\\169\text{mm}\end{bmatrix}$

$\begin{bmatrix}.4\text{in}\\10\text{mm}\end{bmatrix}$

$\begin{bmatrix}1.0\text{in}\\27\text{mm}\end{bmatrix}$

$\begin{bmatrix}3.4\text{in}\\87\text{mm}\end{bmatrix}$

Wall mount bracket

Max [15,7in] 400mm

$\begin{bmatrix}102.2\text{in}\\2596\text{mm}\end{bmatrix}$

Beam with wall brackets

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# Preparing the wall (page 4 of 4)

Wall stand brackets and beam

Wall stand brackets allows Room Kit EQX to be assembled to the wall securely. For a successful setup, we recommend:

- The unit weighs up to 235 kg (518 lb), including screens with max weight of 50 kg (110 lb) each. This load will be carried by the wall stand legs.

- The pop out mechanisms of the screens will put a horizontal force on wall anchors. In general, it is advisable for any installation to use as many wall anchors as possible, with the best case being four or more anchors/screws per wall stand bracket.

- The wall stand brackets can slide on the beam so they can be positioned on studs in a wall.

- The brackets have multiple holes to ensure a good connection even if there is no stud available.

- Distance from the edge of the end bracket to the end of the beam should be maximum 400 mm to ensure a good weight distribution on the beam.

- You should use all the provided brackets: 4 for the upper beam and 2 for the lower bar.
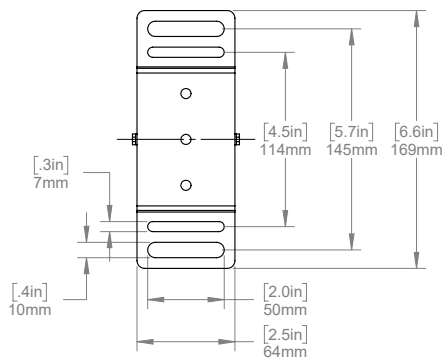
Wall stand bracket
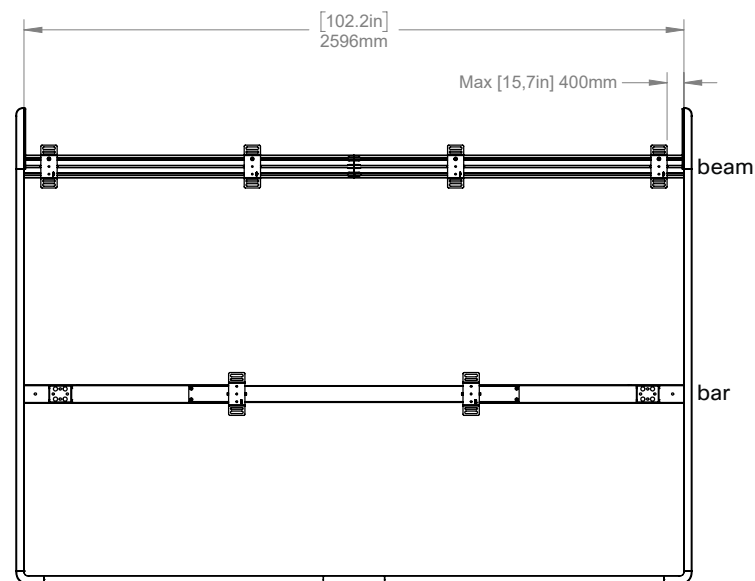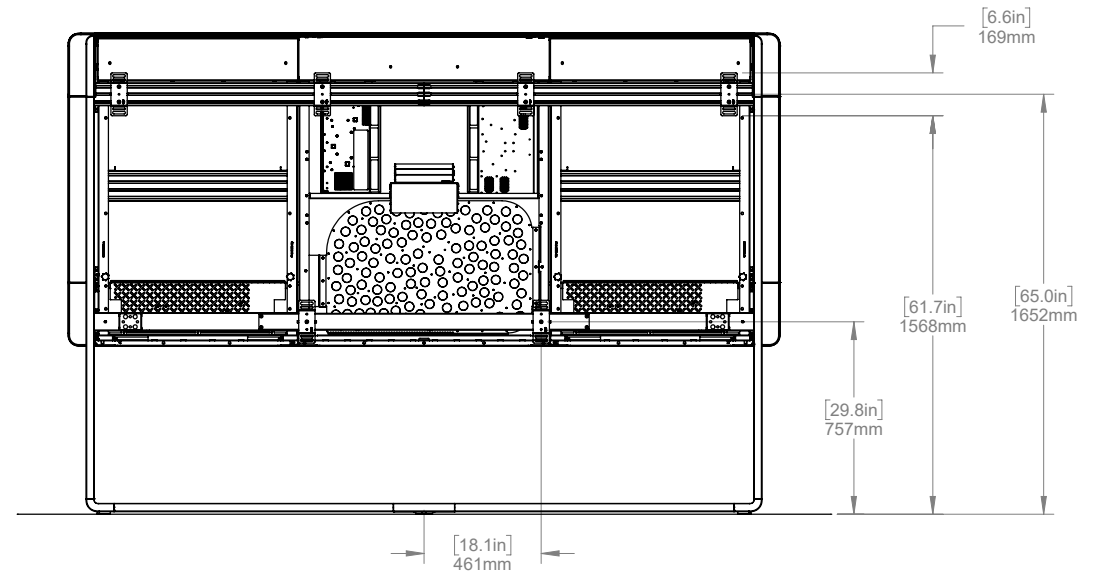
Beam with wall stand brackets

Part 4: Other considerations

Other considerations

Table length and seating

The table shape and seating setup play an important role in the product experience. With Room Kit EQX we wanted to create an experience that works with a variety of table setups.

Make sure the length of the table and number of participants is suitable for the room length with enough space between the Room Kit EQX and the table, as well as enough space for chairs.

Refer to the "Best Practices for Creating Effective Video-enabled Rooms" to find more information about tables in relation to the room size and FOV of the camera system.

Microphones

IP microphones

Room Kit EQX has 1 available port for IP microphones. To enable more microphones, we recommend connecting a compatible switch like the CBS240, CBS350 or C1200. If there is need for more, we recommend the switches covered in the "Configuration of Cisco CBS250, CBS350, and C1200 switches for use with Cisco video collaboration devices https://www.cisco.com/c/dam/en/us/td/docs/telepresence/endpoint/room-series/installation-guide/CBS250-CBS350-switch-configuration-for-collaboration-devices.pdf

Ceiling microphones

Many modern ceiling microphones are beamformers. Beamforming microphones utilize an array of microphone elements to increase directivity of sound pick up directly towards participants, thereby reducing how much noise and reverberation the microphone picks up. The AES67 interoperability feature is available via the AV Integrator license, and it makes it easier to integrate beamforming ceiling microphones via their Dante interface. For more information on AV integrator licenses, refer to https://help.webex.com/k35sdq/

Refer to the "Best Practices for Creating Effective Video-enabled Rooms" to find more information about microphones.

Acoustics

The acoustic conditions of your room play an important role for both video calls and local meetings.

Refer to the "Best Practices for Creating Effective Video-enabled Rooms" to find more information about Acoustic Room Guidelines.

Lighting

Lighting is essential when building great meeting rooms, supporting both local and remote telepresence meetings. Following are some general recommendations for how to create the best light conditions. To make meeting participants have the best appearance, they should be lit with key light, fill light and back light. The Key light is the main light source illuminating the subject. Fill light is added to avoid dark shadows over participants eyes, and a lack of it may cause the whites of the eyes to be lost along with any possibility of eye contact. And the back light makes the subjects stand out from the background and gives depth to the scene.

Refer to the "Best Practices for Creating Effective Video-enabled Rooms" to find more information about lighting.

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