CHRISTIE

Christie Interactivity Kit Mounting Frame Installation Instructions

The Christie Interactivity Kit Mounting Frame provides a method of positioning and mounting the Interactivity Kit around any display surface including tiled LCD flat panels such as the Christie FHD551-XG. When installed as part of the Multi-Touch Video Wall solution, the Christie Interactivity Kit Mounting Frame can be wall mounted or used with the Christie Floor Mount. The Mounting Frame can be adjusted for optimal positioning of the touch plane relative to the display, and swings out to provide front service access to the Interactivity Kit components.

The Mounting Frame can be ordered on its own and mounted directly to a wall or other structure. When ordered as part of the Multi-Touch Video Wall solution, which is a turnkey high resolution touchscreen featuring the Christie Interactivity Kit and 4 Christie FHD551-XG LCD flat panels, the size of the frame is 7 sensor bars wide x 4 light bars high.

Use the following instructions to install the Christie Interactivity Kit with a 4 x 1 configuration of Christie FHD551-XG LCD flat panels.

Tools Required

- Torx T8 driver
- #2 Phillips™ screwdriver
- 2mm, 2.5mm, 4mm, 5mm, 6mm hex drivers
- Level
- 24mm spanner

Components

The Interactivity Kit Mounting Frame can be either wall mounted (Christie FHD551-XG-B1W) or floor mounted (Christie FHD551-XG-B1F). Each variant includes the appropriate components as listed below.

Wall Mount (Christie FHD551-XG-B1W)

- Interactive sub-frame (includes top, bottom and side c-channel frame pieces, 4 corner brackets, 2 retaining blocks, hardware)
- Setup Kit (includes 1mm, 2mm and 3mm shims, screws, USB cable, 3 hinges, 3 wall brackets, 3 foot plates, 3 top support brackets, power cord)

- Interactivity Kit components (includes master controller, light bar connectors, sensor bar connectors, top and bottom corner connectors (no electronics), top, bottom, and side light bars, hardware)
- FHD551-XG panels and panel mounts

Floor Mount (Christie FHD551-XG-B1F)

- Interactive sub-frame (includes floor stand, adjustable foot assembly, center skin, security brackets, top, bottom and side c-channel frame pieces, hardware)
- Setup Kit (includes 1mm, 2mm and 3mm shims, screws, USB cable, 3 hinges, 3 wall brackets, 3 foot plates, 3 top support brackets, power cord)
- Interactivity Kit components (includes master controller, light bar connectors, sensor bar connectors, top and bottom corner connectors (no electronics), top, bottom, and side light bars, hardware)
- FHD551-XG panels and panel mounts

Additional Resources

- MP10 LCD Video Wall Mount Instruction Sheet (P/N: 020-100726-xx)
- Christie Interactivity Kit User Manual (P/N: 020-100856-03)

Instructions

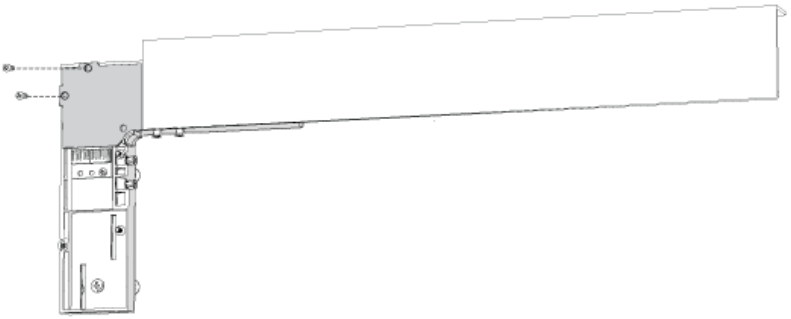
Remove Brackets from Sensor Bar Connectors and Light Bar Connectors

The corners, sensor bar connectors, light bar connectors, and master controller are shipped with metal brackets that must be removed before the bars are installed onto the frame.

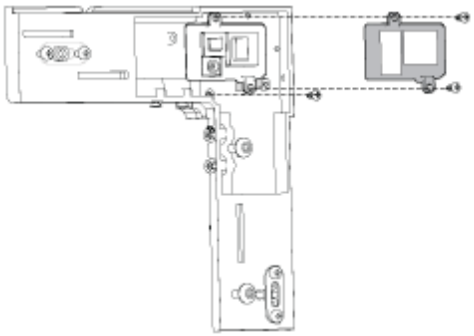
1. Remove the brackets from the top and bottom corners, and from the sensor bar connectors and light bar connectors.
    a. Using a 2.5mm hex driver, remove the 2 screws attaching the two metal brackets on each of the corners.
    b. Remove the screws attaching the metal brackets on each of the light bar connectors and sensor bar connectors.
2. Remove the 2 brackets from the master controller.
    a. Using the 2.5mm hex driver, remove the screws attaching the corner cover on the master controller.

Set the corner cover and screws aside.

b. Remove the 2 screws from the corner of the sensor board.

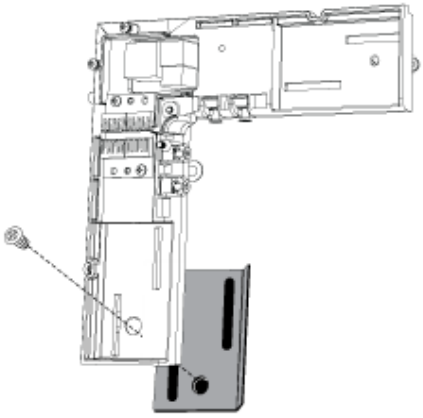


c. On the back of the master controller, remove the 2 screws from the plastic cover around the USB port, ethernet port, and power connection and the 1 screw beside the ports.



d. Separate the corner from the master controller board.

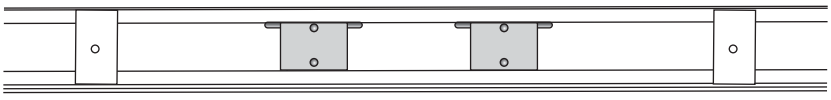
e. Remove the screw attaching the metal bracket from the master controller.



f. After removing the metal bracket, reinsert the corner piece into the master controller sensor board and reassemble the master controller by following these steps in reverse order.

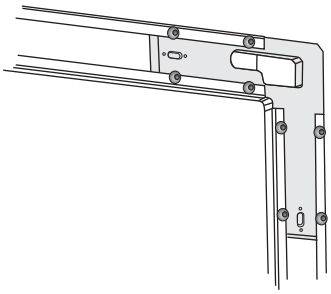
Assemble Interactive Sub-Frame

1. Slide 2 retaining blocks into the c-channel of the top bar. Loosely fasten them near the center with 2 M4 screws each.



NOTICE Install the corner bracket equipped with USB, power, and Ethernet connectors in the top right corner.

2. Secure the top bar to the left and right sides using the corner brackets. Slide the brackets into the c-channel and secure with 4 M3 screws.
3. Use remaining corner brackets to secure the bottom bar.

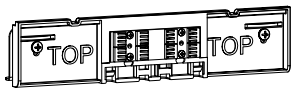


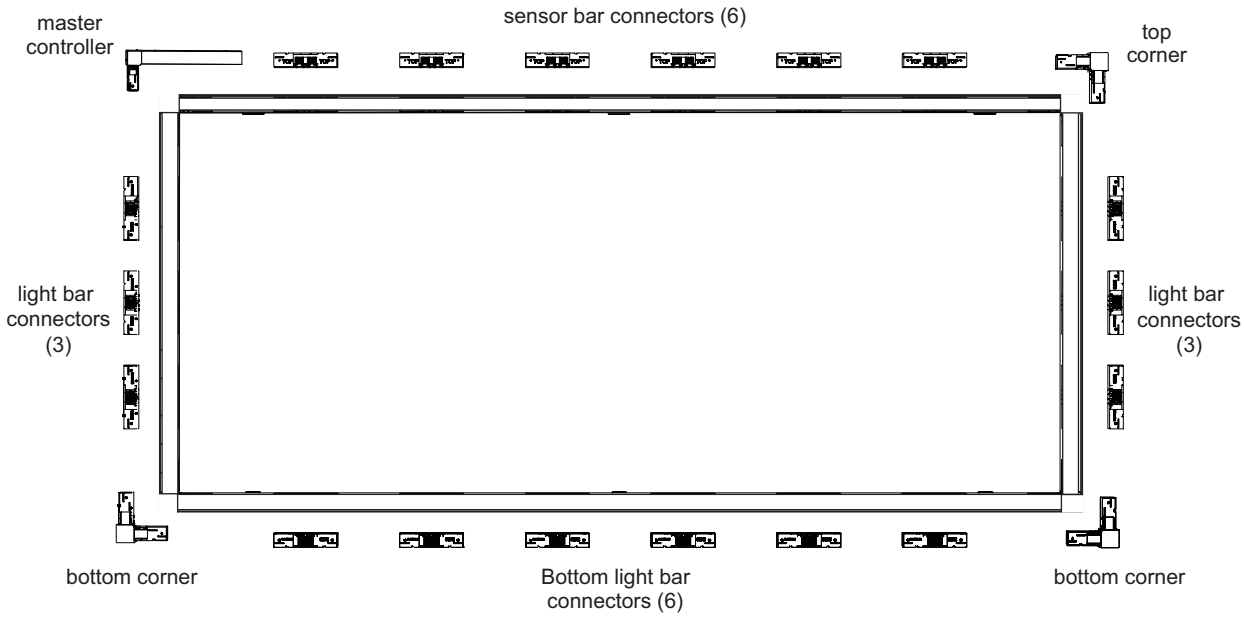
Install Connector Bars

NOTICE

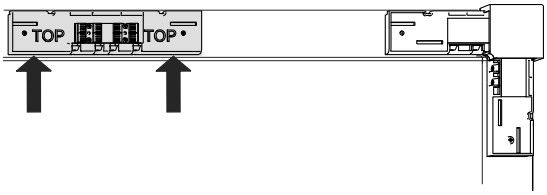
Do not use power tools to install the connector bars.

Each connector bar is marked to indicate where it should be installed on the sub-frame.

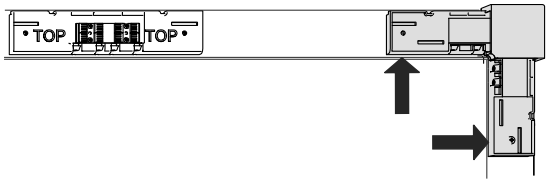




1. Starting at one side, begin installing connector bars to the front side of the interactive sub-frame. Fasten with 2 screws each.



2. Secure the top and bottom corners using 2 screws each.

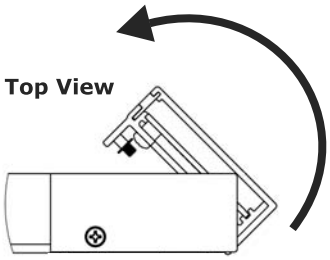


Install Sensor and Light Bars

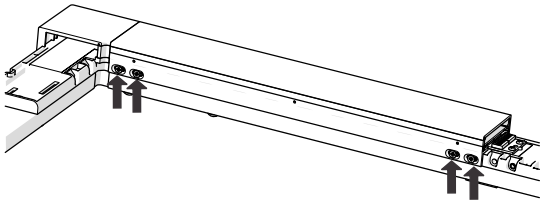
Install sensor bars along the top of the sub-frame, working from left to right. Side light bars are slightly shorter than bottom light bars.

NOTICE Do not slide the sensor bars onto the connectors or force a connection, this could damage the contacts. Failure to comply may result in equipment damage.

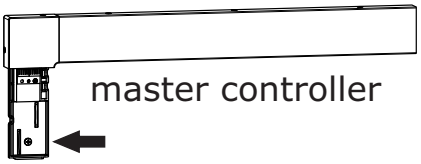
1. Holding the sensor bar at a 45º angle to the connector, hook it onto the outer back edge of the connector bar then slowly rotate it forward into position. If you fail to make a connection with the contacts on the connector bar, remove the sensor bar and try again. Do not slide the sensor bar onto the connector bar or try to force a connection.



2. Once the sensor bar is installed, adjust the connector bar slightly to center its captive screws with the slots on the bottom of the sensor bar. Loosely tighten screws at this point to allow for later adjustments once all the sensor bars are installed.



NOTICE Each sensor connector bar and light connector bar is connected with two screws. The master connector is attached with only one screw.



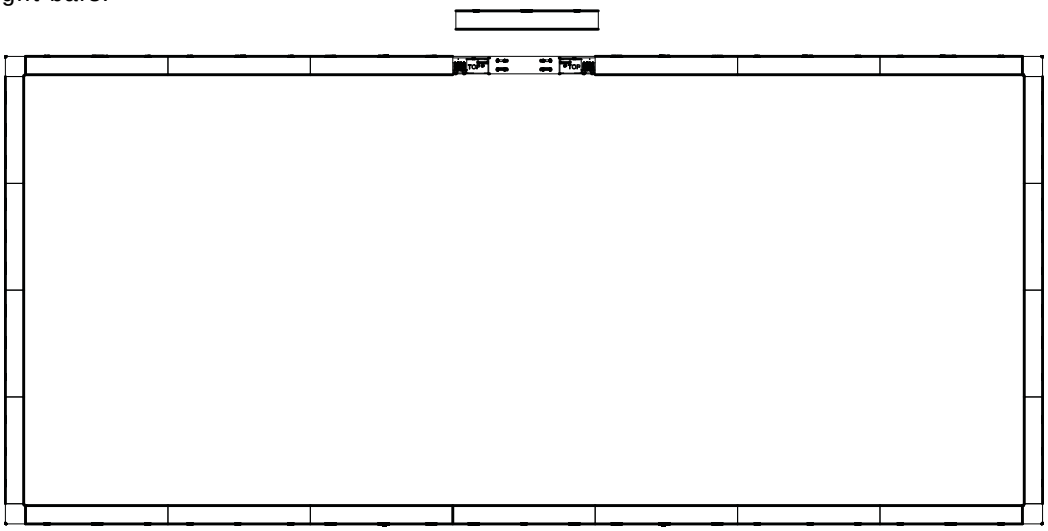
3. Repeat step 1 and 2 to mount all sensor bars except the top middle sensor bar.

   The sensor bar in the middle of the assembly must be mounted after the entire assembly is hung on the hinge and with the pins from the hinge retainer engaged with the hinge, and hinge retainer is fastened to the sub frame. See *Hang the Completed Assembly* on page 8.

4. Install light bars along the sides and bottom of the sub-frame in the same manner as the sensor bars.

   Side light bars are slightly shorter than bottom light bars.

5. Manually adjust the bars as you are installing them to minimize the gaps between them.
6. When everything is installed and gaps are evenly spaced, tighten the screws on the sensor and light bars.

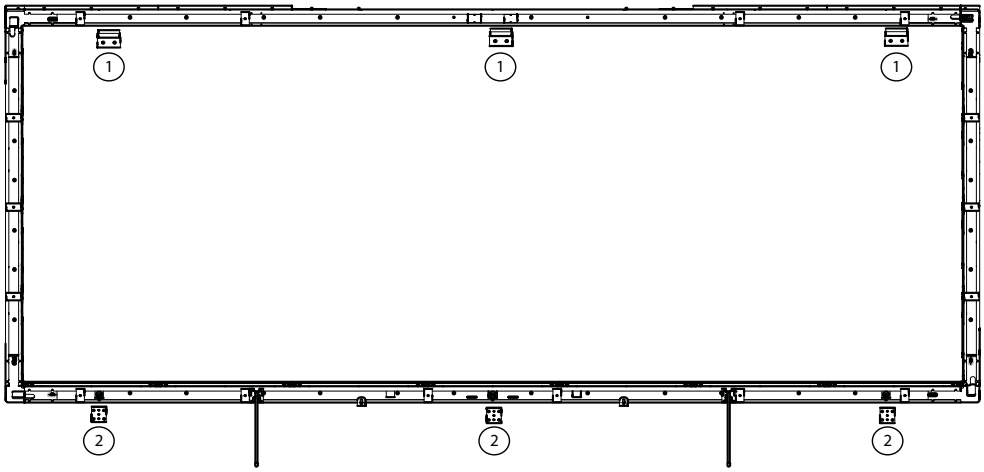


Wall Mount

Install Wall Mounted Components

The interactive sub-frame gets mounted directly to the wall using 3 top hinges and 3 bottom steel mounting brackets. Use the mechanical drawings provided to determine the exact location for these in relation to your LCD panels.

1. Secure 3 hinges to the wall above the LCD panels with 2 screws each.

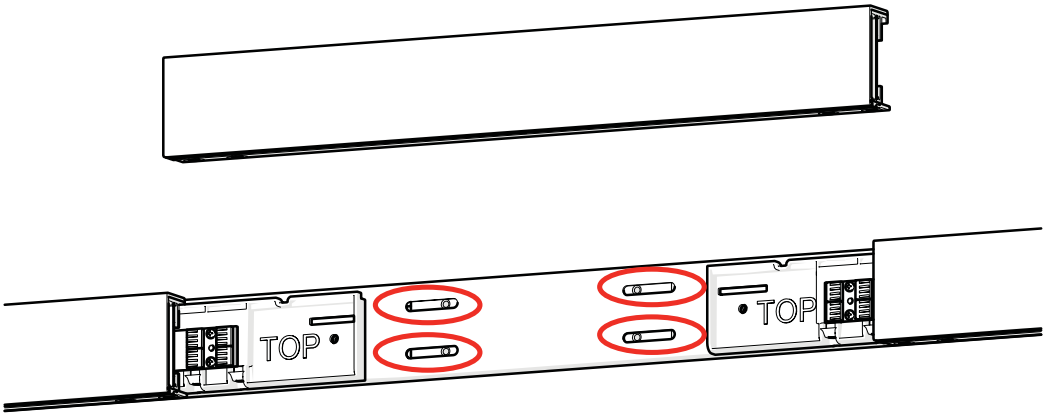


2. Secure 3 brackets to the wall below the LCD panels using 4 screws in the corner holes only. The 3 holes that run vertically down the center of the bracket are used to engage the threaded rod on the bottom frame which allows for adjustment.

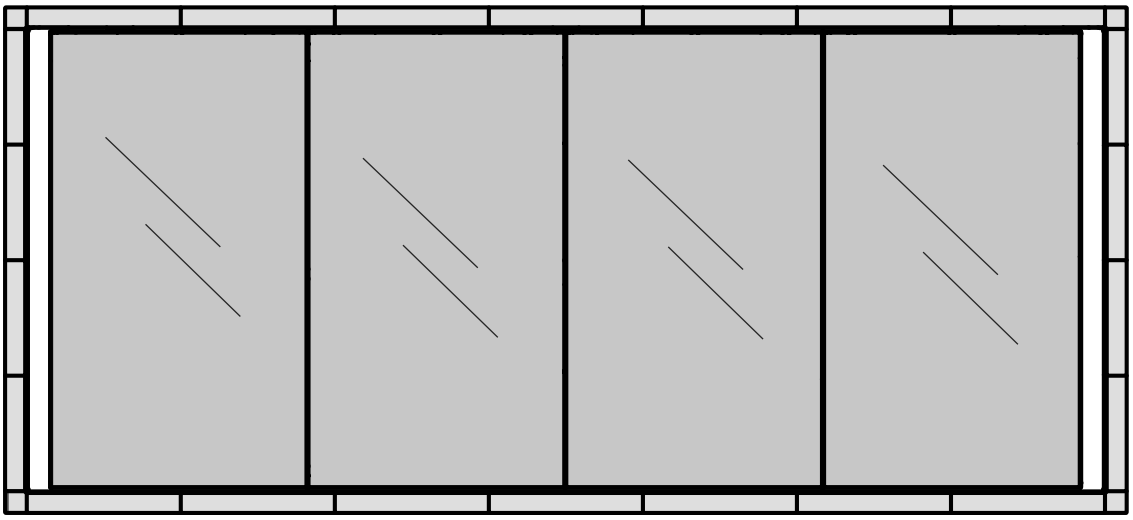
Hang the Completed Assembly

1. Hang the completed interactive assembly by hooking the wall hinges into the frame's top c-channel. Slide the retaining blocks so that it engages the center hinge and fasten the 4 M4x10mm phillips screws.

To access the 4 screws, the middle sensor bar on top must be removed. Alternatively, do not install the middle bar until after the frame has been attached to the wall. Shims are provided in the event the frame is not sitting against the wall evenly.

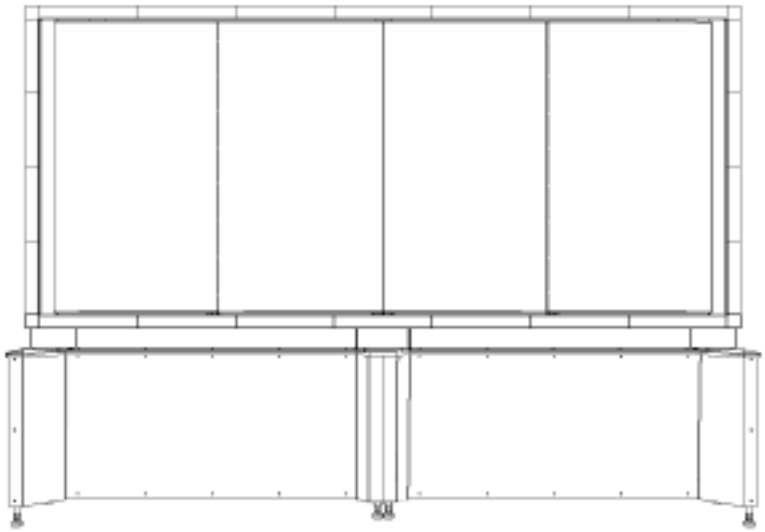


2. Insert the 3 threaded rods located on the bottom of the frame into the center hole of the bottom wall brackets.
3. To ensure optimum functionality of the Interactivity kit, the distance between the light sensor bars to the glass surface of the LCD flat panel must be 13 ± 3mm. You can move the plane back and forth by adjusting the three threaded rods on the bottom frame or by adjusting the carriage mount and by adding or removing shims to the rear surface of the hinge bracket.



4. To prevent accidentally removing the sensor frame assembly, fasten the security bottom bracket to the bottom C-Channel at two places.

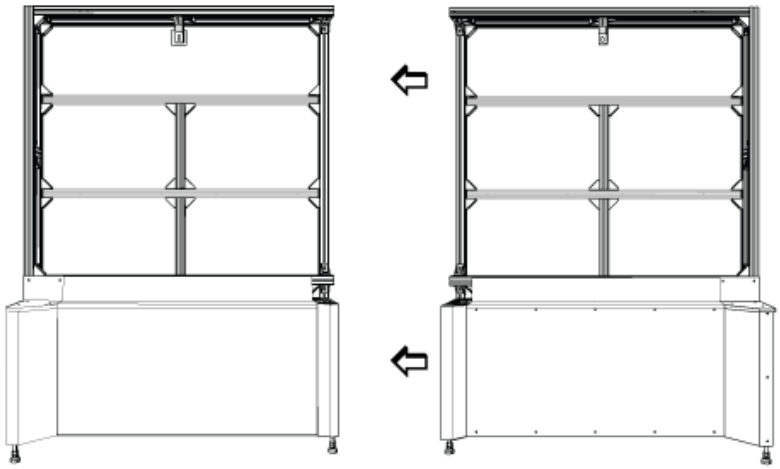
Floor Mount



The floor mount is an alternative method for mounting the FHD551-XG panels of a Multi-Touch Video Wall with the Interactivity kit. It is shipped as two separate halves that get fastened together. The LCD flat panels and the interactive frame gets mounted directly to the floor mount.

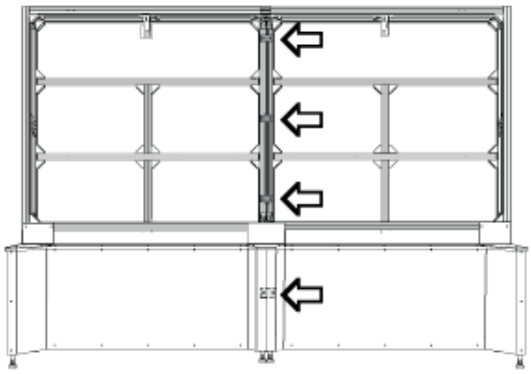
1. Determine site location.
2. Secure the two sides of the floor mount together using M8X110mm bolts.

   This ensures that the two halves are more or less level and plum, but fine tuning must be done.



3. Install a center skin piece with 4 button head screws to the front of the base to complete look of the floor mount.
4. Adjust the feet as needed to ensure the floor mount sits sturdy on the floor and is level and plum.

5. Install 4 plates across the back and 1 plate in the front with 2 M6 screws each to prevent the 2 sides of the mount from shifting.



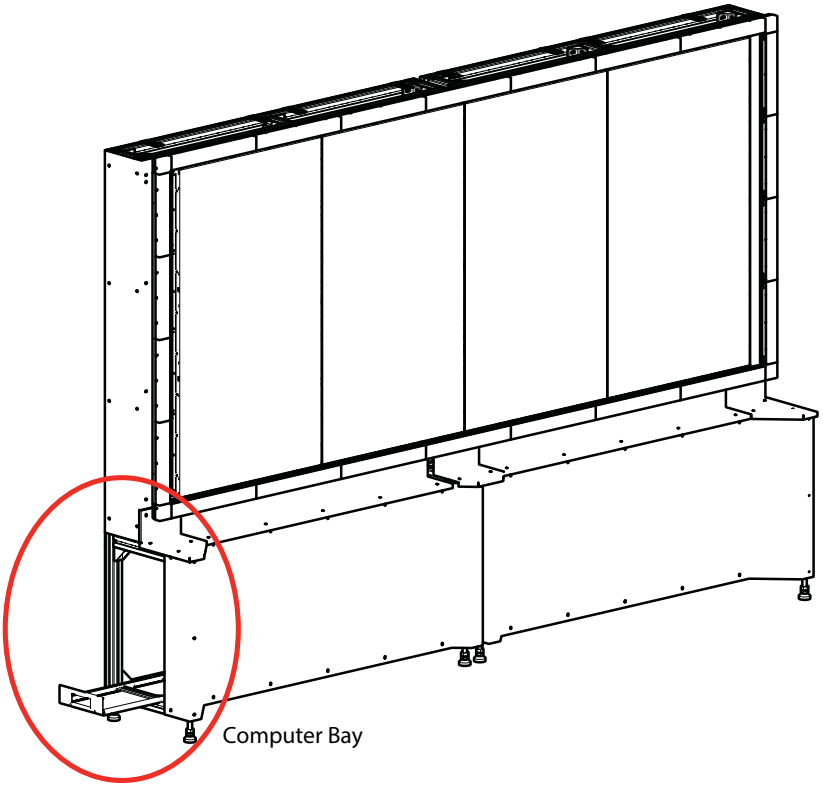
6. Tether the entire floor mount assembly to a wall or floor for added safety.

   The method in which this is done should be determined by a qualified installer.

7. Install the MP10 LCD Video Wall Mount to each FHD551-XG panel as indicated in the MP10 LCD Video Wall Mount Instruction Sheet (020-100726-xx).
8. Mount 4 display carriages to the floor mount using the 4 pre-installed M6 screws on the centered bars.
9. Install 2 tethers to the top of Service Pull lever of each display carriage. Route the tether out the top through the slots in the tether retainer.
10. Install 3 wall hinges with 2 M6 screws each to the top c-channel of the floor mount frame - 2 screws each.
11. Install 3 brackets with 2 M6 screws each to the bottom c-channel of the floor mount frame - 4 screws each.
12. Hang the interactive assembly to the floor mount and ensure the pins of the two center retaining blocks engage the center hinge on the floor mount frame, and tighten the 4 M4 screws to secure the retaining block.
13. Insert the 3 threaded rods located at the bottom of the interactive sub-frame into the center hole of the bottom brackets installed in step 11.
14. To ensure optimum functionality of the Interactivity kit, the distance between the light sensor bars to the glass surface of the LCD flat panel must be 13 ± 3mm. You can move the plane back and forth by adjusting the three threaded rods on the bottom frame or by adjusting the carriage mount and by adding or removing shims to the rear surface of the hinge bracket.
15. To prevent accidentally removing the sensor frame assembly, using the Torx screw fasten the security bottom bracket to the bottom C-Channel at two places.

⚠CAUTION Do not extend more than two panels at a time from the floor mount for servicing. Failure to comply could result in minor or moderate injury.

16. On the right-side of the Interactivity Kit, remove the bottom side panel and install the computer or media player in the computer bay area.



Enable Power

Use an approved power supply with a 12Vdc, 2.5A minimum rated power source.

1. Connect the 12V power cable using the DC jack in the top right corner of the frame. When powered on, LEDs in the top right corner begin to flash and the LEDs on the light bars and sensor bars illuminate green.
2. Connect the USB cable provided to a Windows® 7 computer. When the USB cable is connected, the top right corner LED is illuminated and the all other LEDs dim. Typically, Windows® 7 takes a few seconds to recognize the multi-touch input device after the USB cable is connected.
3. When powered up and connected, the Interactivity kit performs a brief self-calibration during which time you should not touch the screen.

NOTICE

If an LED fails to illuminate, it indicates communication is lost. This may mean that either a light bar, sensor bar or a connector bar is damaged. Locate where the connection is broken and have the part replaced. Contact Christie Technical Support at tech-support@christiedigital.com