



All-in-One LED Display

Quick Start Guide

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Applicable Models

This manual is applicable to the All-in-One LED display (Non-Touch).

Symbol Conventions

The symbols that may be found in this document are defined as follows.

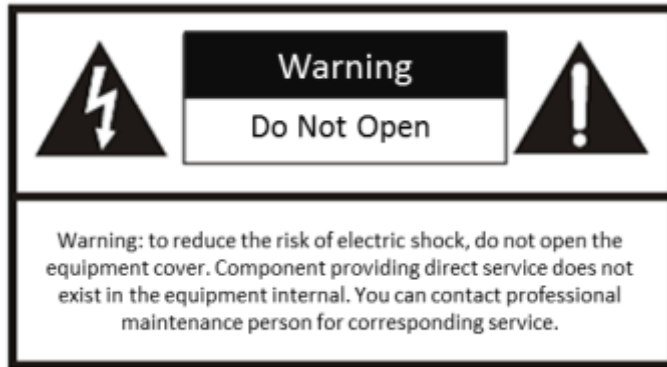
Symbol	Description
 Note	Provides additional information to emphasize or supplement important points of the main text.
 Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Danger	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Safety Instructions

Caution

- The device shall not be exposed to water dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the device.
- Provide a surge suppressor at the inlet opening of the device under special conditions such as the mountain top, iron tower, and forest.
- Ensure correct voltage and wiring of the terminals for connection to mains supply.
- + identifies the positive terminals of the device which is used with, or generates direct current, and - identifies the negative terminal(s) of the device which is used with, or generates direct current.
- No naked flame sources, such as lighted candles, should be placed on the device.
- This device is suitable for mounting on concrete or other non-combustible surface only to avoid fire hazard.
- Install the device according to the instructions in Quick Start Guide.
- To prevent injury, this device must be securely attached to the installation surface in accordance with the installation instructions.
- CAUTION: This bracket is intended for use only with LED display unit. Use with other equipment may result in instability causing injury.
- The interface varies with the models. Please refer to the product datasheet for details.

- If the device needs to be wired by yourself, select the corresponding wire to supply power according to the electric parameters labeled on the device. Strip off wire with a standard wire stripper at corresponding position. To avoid serious consequences, the length of stripped wire shall be appropriate, and conductors shall not be exposed.
- The device external wiring connected to the hazardous live terminals requires installation by an instructed person.
- Make sure that the power has been disconnected before you wire, install, or disassemble the device.
- If smoke, odor, or noise arises from the power supply or device, immediately turn off the power, unplug the power cable, and contact the service center.
- To reduce the risk of fire or electric shock, please do not expose the device to rain or humid environment.
- The device may generate radio interference in indoor environment. Necessary precautions may be required.
- Electric discharge may last for a short period of time after the power is shut down. Please wait two minutes after the power is shut down before operating the device.
- To avoid the risk of electric shock, please do not operate when the power is on.
- Please do not plug and unplug the power cable when the power is on.
- The device is only suitable for installation on the concrete or non-flammable surfaces, to prevent molten material from dripping to the bottom during fire caused by internal failure.
- Keep 90 degrees when moving and using the device.
- The power supply or device must be connected to an earthed mains socket-outlet.
- High voltage for the power supply. Do not disassemble it.
- Do not place anything containing liquid on the device to avoid the risk of fire or electric shock caused by liquid-splashing.
- Install the device no more than 5 mm away from the wall or other metal racks in case of lamp board drop resulting in electric shock.
- After installation, there should be no openings around the LED module. The bottom bracket under the wire outlet position should completely cover the bottom hole only to let the wire out, to prevent the molten material from dripping to the bottom during fire caused by internal failure.
- To ensure safety, the installation parts and the wall should support four times the weight of the device.



 **Warning**

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The device must be connected to an earthed mains socket-outlet.
- Do not touch the bare components (such as the metal contacts of the inlets) and wait for at least 5 minutes, since electricity may still exist after the device is powered off.
- An all-pole mains switch shall be incorporated in the electrical installation of the building.
- Never place the device in an unstable location. The device may fall, causing serious personal injury or death.
- The additional force shall be equal to three times the weight of the device but not less than 50 N. The device and its associated mounting means shall remain secure during the installation. After the installation, the device, including any associated mounting plate, shall not be damaged.
- The equipment has been designed, when required, modified for connection to an IT power distribution system.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the equipment.
- A readily accessible disconnect device shall be incorporated external to the equipment, rated 220/230/240 VAC, 6A for each device. A single device is recommended for AC 220 V/ 230 V/ 240 V, 6 A circuit breakers. When multiple devices are superimposed, a suitable circuit breaker should be selected according to the total rated current, but it must not exceed the building equipped circuit specifications.
- CAUTION: This device is for use only with LED bracket. Use with other (carts, stands, or carriers) may result in instability causing injury.
- The protective grounding of the device should be reliably connected to the building protective grounding.
- To reduce the risk of electric shock, install protective shield on the exposed connector after installing LED screen.
- Disconnect the power plug before installing the protective shield.
- Disconnect the power plug before maintenance.

- Make sure the power supply is well-grounded.
- The external wire connection between device and hazardous electronic terminals should be operated by professionals.
- To prevent injury, the device must be securely fixed to the ground, wall, ceiling, or steel frame. The all-in-one rack should be fixed to the ground with expansion screws.
- The supporting rack can only be used with the device. Using it with other devices may cause instability and injury.
- The device can only be used with the supporting rack. Using it with other equipment (such as a cart, shelf, or handling device) may cause instability and injury.
- This is a class A product and may cause radio interference in which case the user may be required to take adequate measures.

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Chapter 1 Introduction

1.1 Overview

Hikvision fine-pitch All-in-One LED display (hereinafter referred as the device) integrates multiple functionalities including projector, electronic whiteboard, audio system, high-definition television, and digital signage into a unified solution. This comprehensive system features writing/annotation capabilities, multi-screen interaction, and optional remote video conferencing functionality. It combines cutting-edge technologies such as ultra-HD visual presentation, human-machine interaction, multimedia information processing, and network transmission.

1.2 Structure

The device is primarily composed of two structural components: the bracket and cabinet, as shown in the following figure. (Take mobile installation as an example).

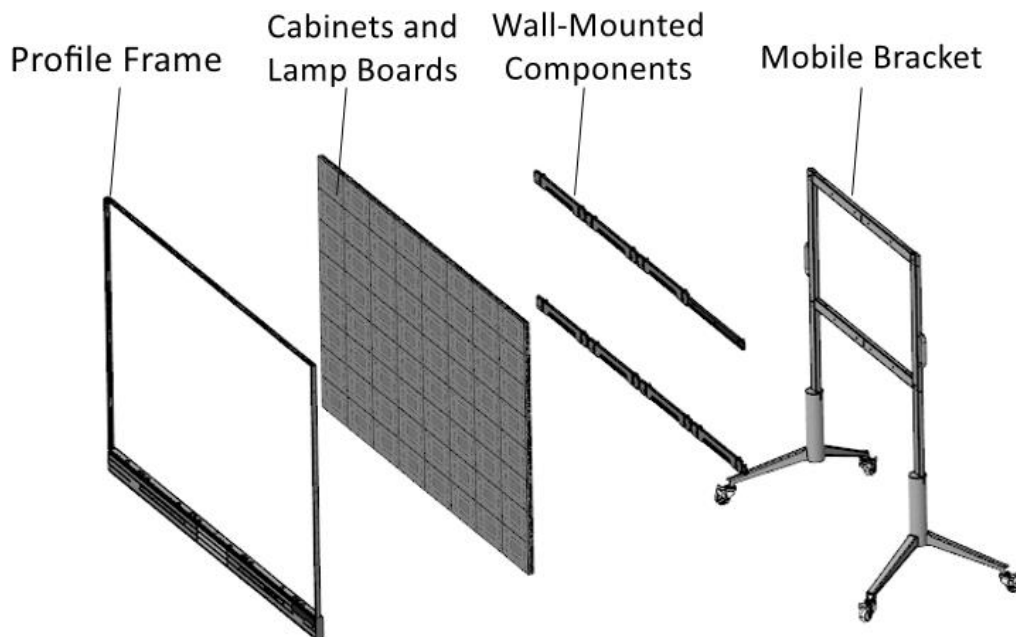


Figure 1-1 Structure of All-in-One LED Display

Bracket

The device can be installed with two kinds of brackets: a mobile bracket and a wall-mounted bracket.

Cabinet

A cabinet is a basic unit for LED engineering installation in which LED modules are neatly mounted on a metal sheet (cast aluminum) box, with a built-in independent receiving card and switching power supply, an engineering installation structure, and independent display.

Chapter 2 Bracket

There are two types of brackets for the device: the mobile bracket and the wall-mounted bracket.

Note

This manual provides general installation guidelines applicable to multiple device sizes. Specific installation procedures vary with actual dimensions and different conditions.

2.1 Precautions

- Installation personnel must wear protective gear.
- Take safety measures when working at heights.
- Make sure that the bracket is mounted vertically to the flat ground without tilting or twisting.
- Check that all structural parts and fasteners are fully mounted without missing.
- After all the accessories are mounted, clean all the metal debris in the bracket.

2.2 Install the Bracket

The mobile bracket can be used for installing front-maintenance cabinets and rear-maintenance cabinets.

Danger

When the device is installed on a mobile bracket, the tilt angle must not exceed 10 degrees to prevent tipping due to a shift in the center of gravity.

Step 1 Install the bracket support. Use a hexagon tool to loosen the round head screw at the bottom of the base to an appropriate position, insert the base support, and tighten the round head screw.

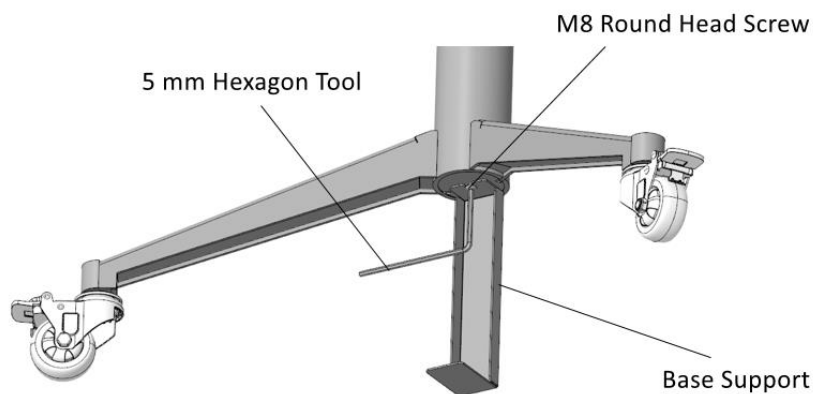


Figure 2-1 Install Bracket Support

Step 2 Repeat the above step to fix the other side of the bracket, and make sure it stands up stably, as shown below.

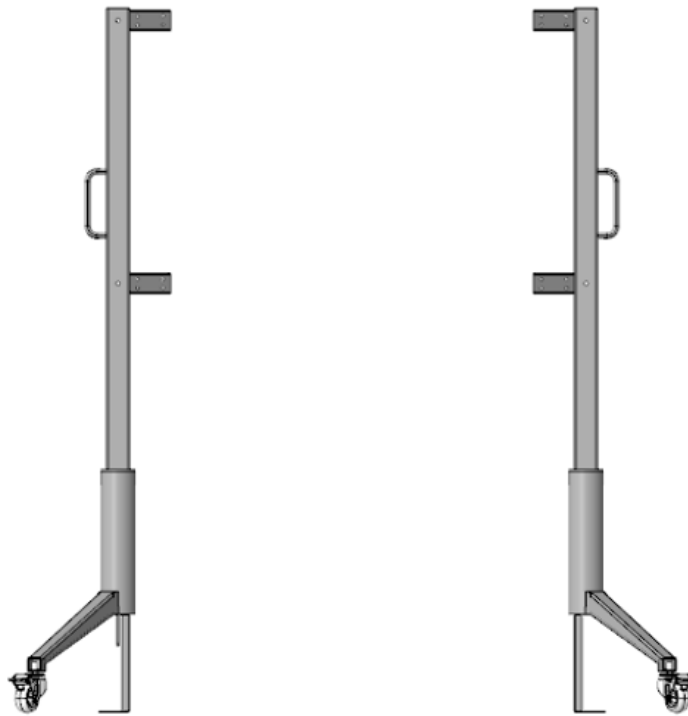


Figure 2-2 Installing Bracket Supports Completed

Step 3 Install horizontal poles. Place horizontal poles onto the bracket frame, and secure them with 16 M8 × 20 mm round head screws.

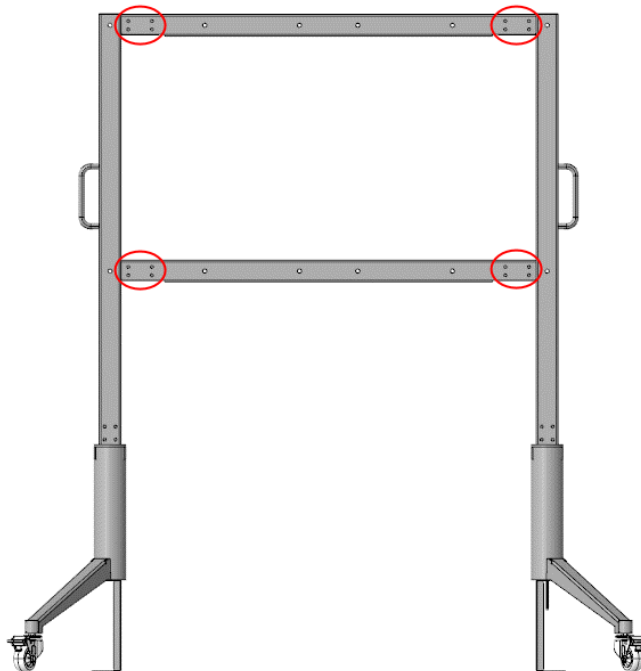


Figure 2-3 Install Horizontal Poles

Step 4 Use a hexagon tool to loosen the round-head screws of the base and remove the base support.

Step 5 Install the wall-mounted horizontal poles. Partially fix the screws close to the center (do not tighten them), hang the wall-mounted horizontal poles on the screws, and fix them with M8 × 20 round head screws.

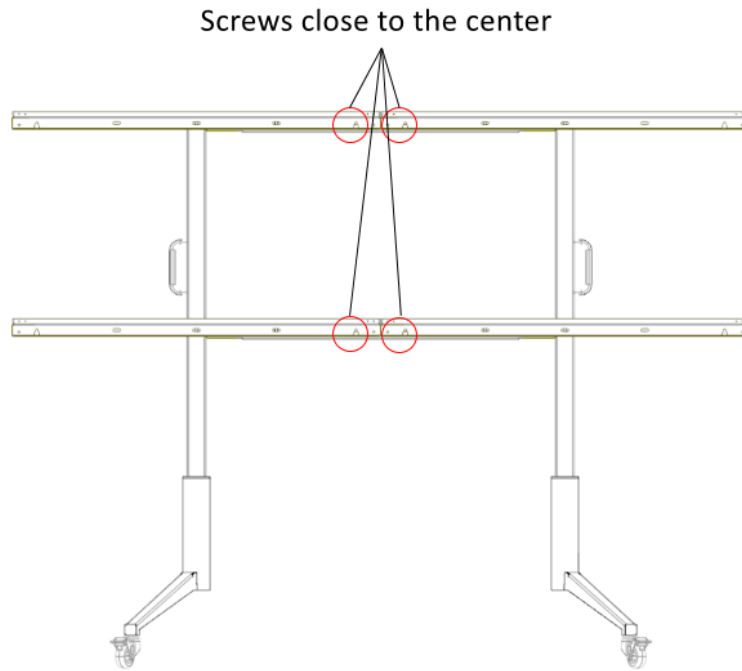


Figure 2-4 Installing Wall-Mounted Horizontal Poles Completed

Step 6 Verify that the mobile bracket is properly installed and fastened.

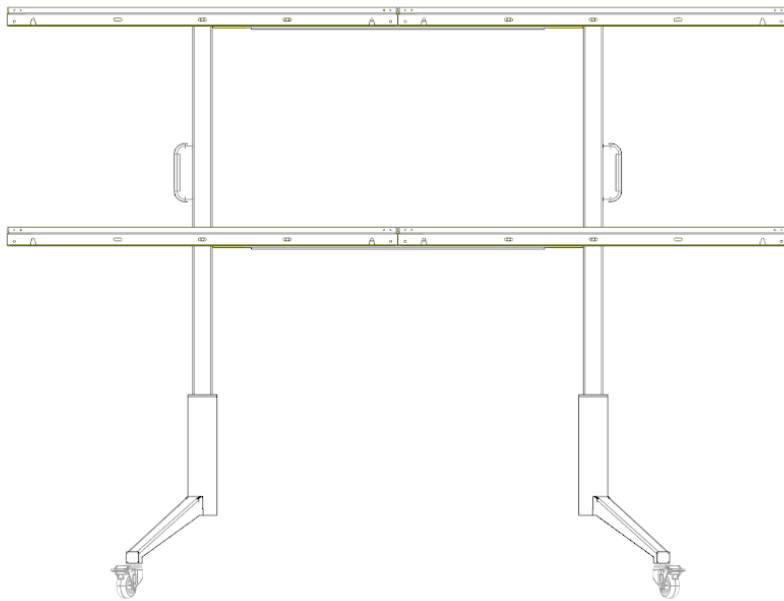


Figure 2-5 108-Inch Mobile Bracket

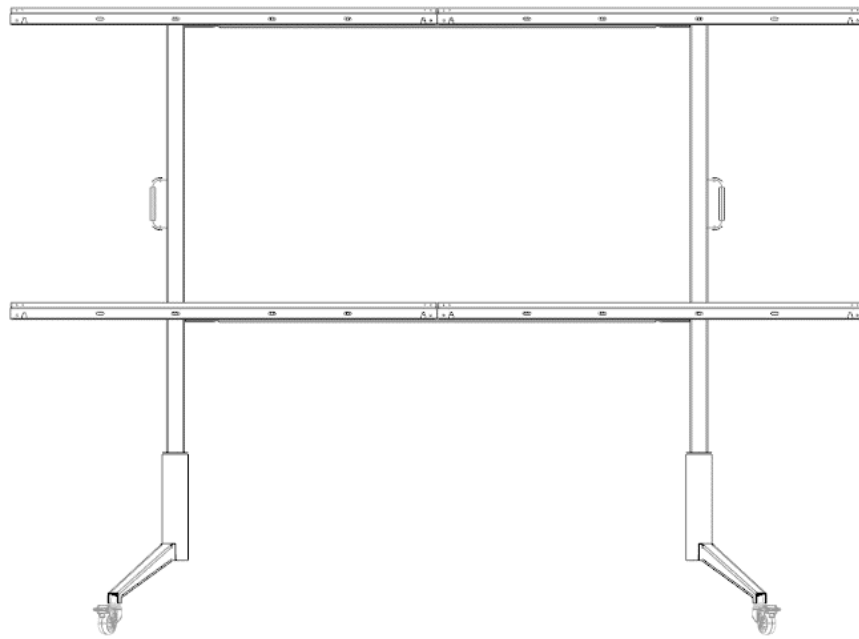


Figure 2-6 135-Inch Mobile Bracket

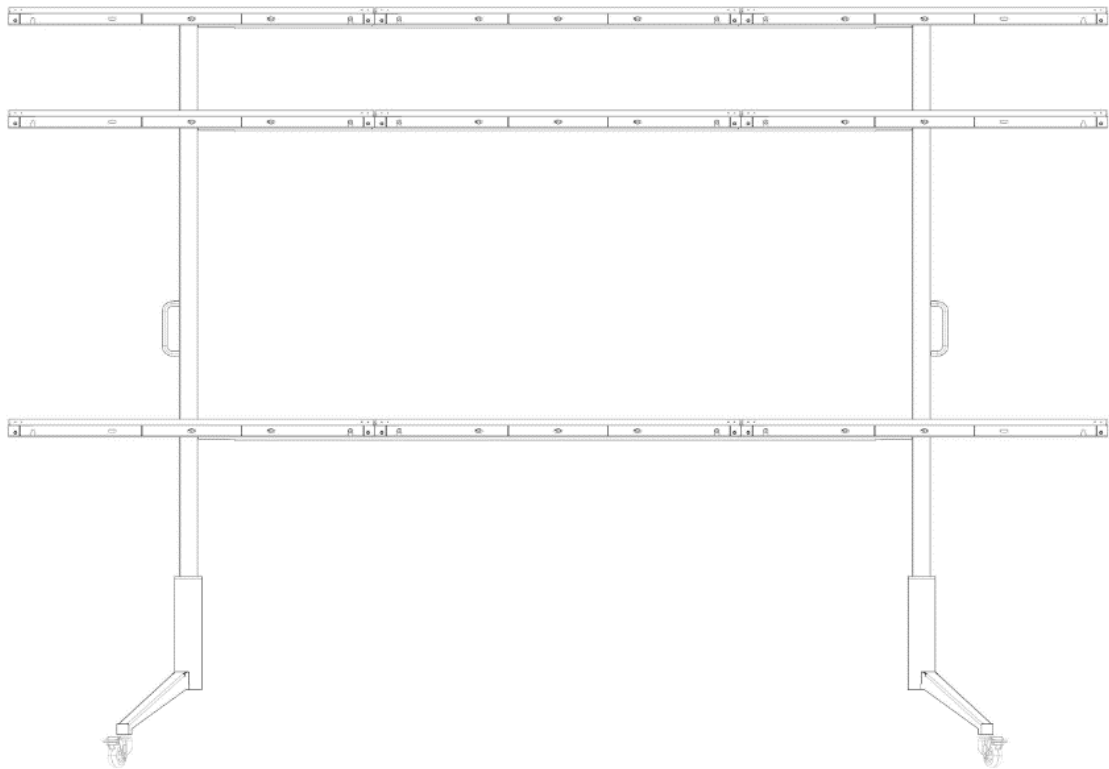


Figure 2-7 162-Inch Mobile Bracket

2.3 Install the Wall-Mounted Bracket

The wall-mounted bracket is used for installing front-maintenance cabinets only.

 **Caution**

- For wall-mounted installation, select the appropriate installation method according to the sizes of device models to reserve installation space.
- You should install the horizontal poles on a vertical load-bearing wall or steel frame.

Step 1 Select an appropriate wall and reserve enough installation space for the device. For in-ceiling mounting, it is recommended to reserve at least 5 cm above and on both sides of the device, and at least 8 cm below the device.

Step 2 Locate the installation holes for expansion screws. Pay attention to the space reserved on the top/bottom/left/right side of the installation holes. The positioning rod is used to check the spacing between horizontal poles. After fixing the poles, remove the positioning rod.

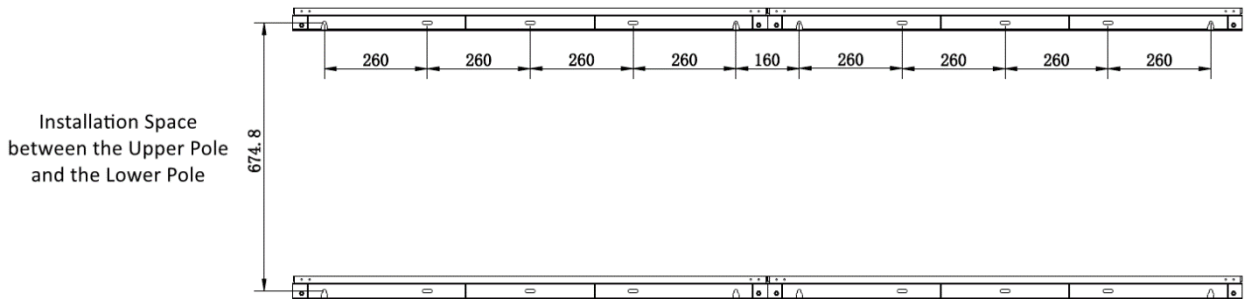


Figure 2-8 Wall-Mounted Bracket for 108-Inch Display

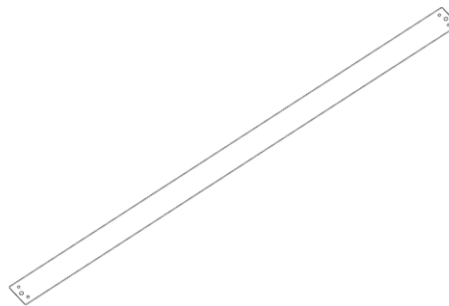


Figure 2-9 Positioning Rod

 **Caution**

For wall surfaces with insufficient flatness during installation, use metal plate to adjust the evenness of the wall-mounted surface.

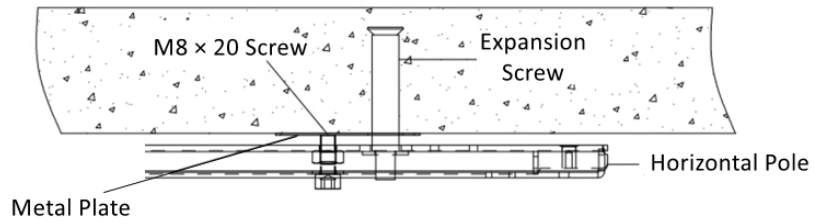


Figure 2-10 Install the Metal Plate (Top View)

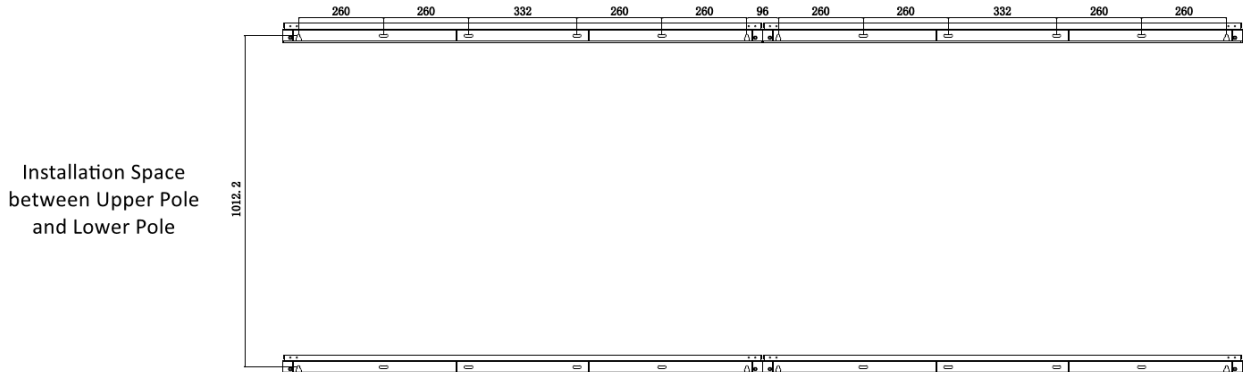


Figure 2-11 Wall-Mounted Bracket for 135-Inch Display

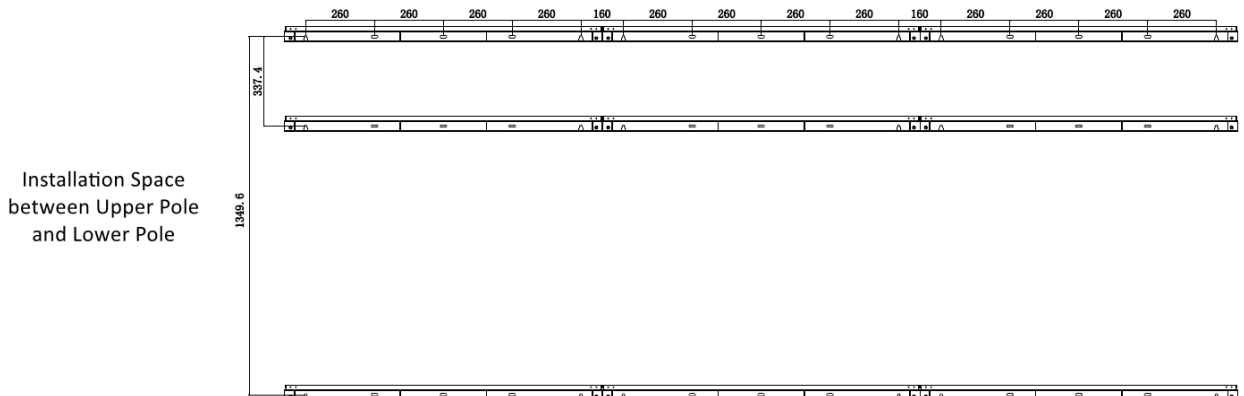


Figure 2-12 Wall-Mounted Bracket for 162-Inch Display

Caution

Device dimensions must strictly correspond to specified mounting measurements when drilling and installing expansion anchor bolts. Non-compliance with dimensional specifications may result in installation hazards.

Step 3 Install the horizontal poles on the wall-mounted bracket. Fix the whole bracket onto the wall with M8 × 80 mm expansion anchor bolts.

Step 4 Verify that the mobile bracket is properly installed and fastened.

Chapter 3 Cabinet

This manual is applicable to multiple sizes. Installation details are subject to the specific size.

The following description shows how to install the cabinets taking 108-inch device as an example.

3.1 Precautions

Read the following precautions before you install the device:

- Electric discharge may last for a short period of time after the power is shut down. Please wait two minutes after the power is shut down to operate the device.
- Only use the original power cord delivered with the device. Contact authorized dealer to purchase power cord with same specifications.
- Please do not frequently plug or unplug the power cord when the power is on.
- To reduce the risk of fire or electric shock, please do not expose the device to rain or humid environment.
- Avoid humid or high-PH environment to prevent damage to the LED lamps.

3.2 Install the Cabinets

3.2.1 Stitch the Cabinets

- 108-inch display:

The screen can be divided into 4 columns, and each column is composed of 1 column × 4 rows cabinets.

- 135-inch display:

The screen can be divided into 5 columns, and each column is composed of 1 column × 5 rows cabinets.

- 162-inch display:

The screen can be divided into 6 columns, and each column is composed of 1 column × 6 rows cabinets.

Steps

Step 1 Align the locating studs in the vertical direction of the two adjacent cabinet frames to the locating holes, and adjust the cabinet frames to the relative level.

Step 2 Insert two M6 hex screws into the adjacent installation holes from top to bottom.

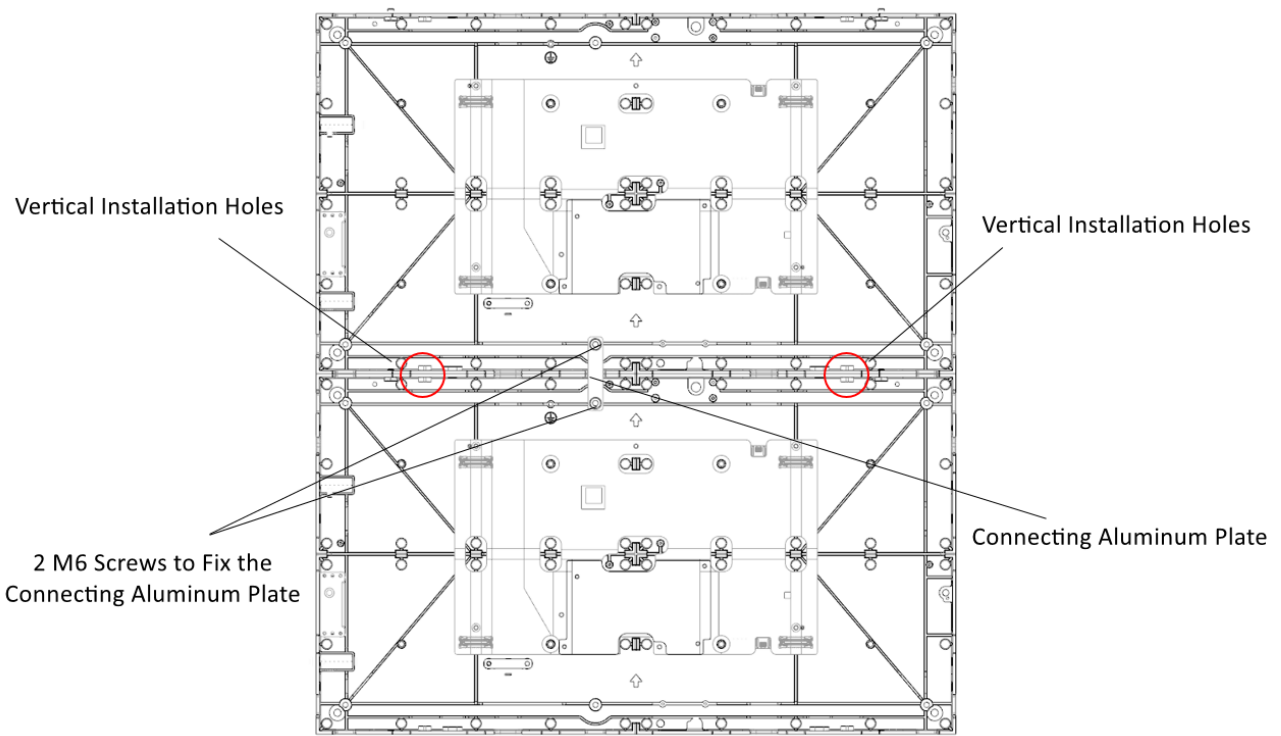


Figure 3-1 Stitch the Cabinets Vertically

Step 3 Repeat above steps to complete the vertical stitching of remaining cabinets in one column.

 **Note**

No vertical stitching is required for the 108-inch and 135-inch display. The figure below takes the 162-inch display as an example.

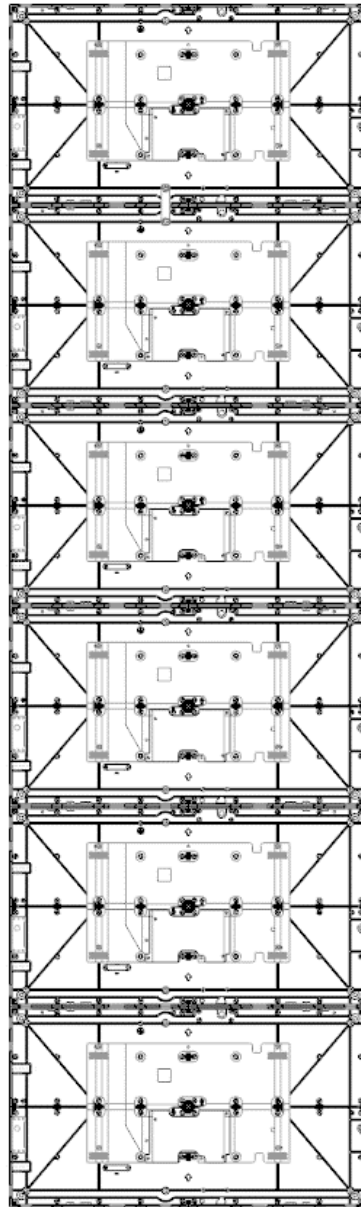


Figure 3-2 Remaining Cabinets Stitched Vertically

Step 4 Repeat above steps to complete the vertical stitching of cabinets of remaining columns.

 **Note**

The cabinet stitching methods and sequences vary with different device sizes. Actual situations prevails.

3.2.2 Install Cabinets onto the Bracket

Step 1 Check the hanging boards, which are already installed on cabinets by default.

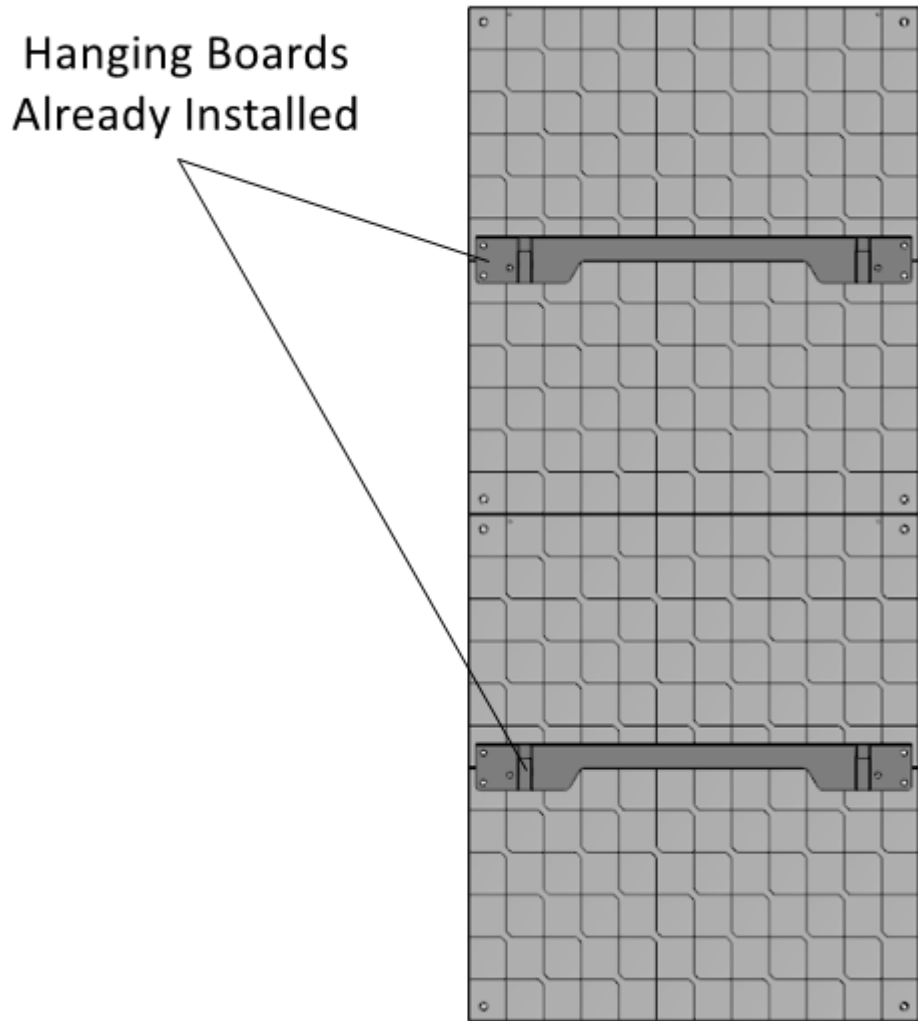


Figure 3-3 Install the Hanging Boards for 108-Inch Display

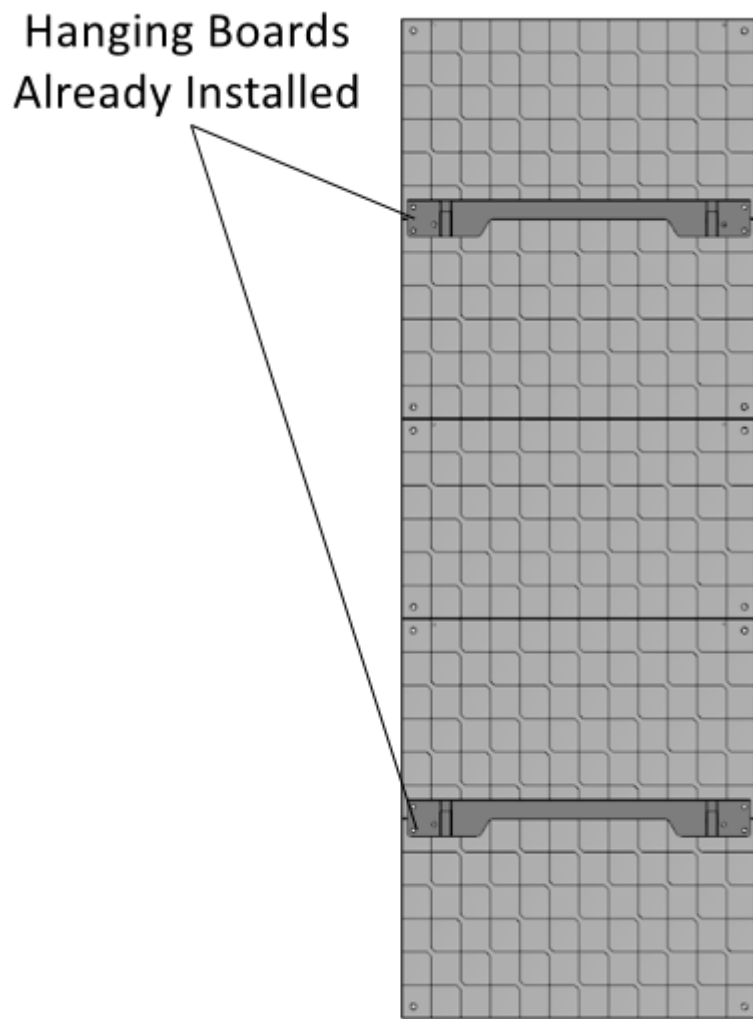


Figure 3-4 Install the Hanging Boards for 135- Inch Display

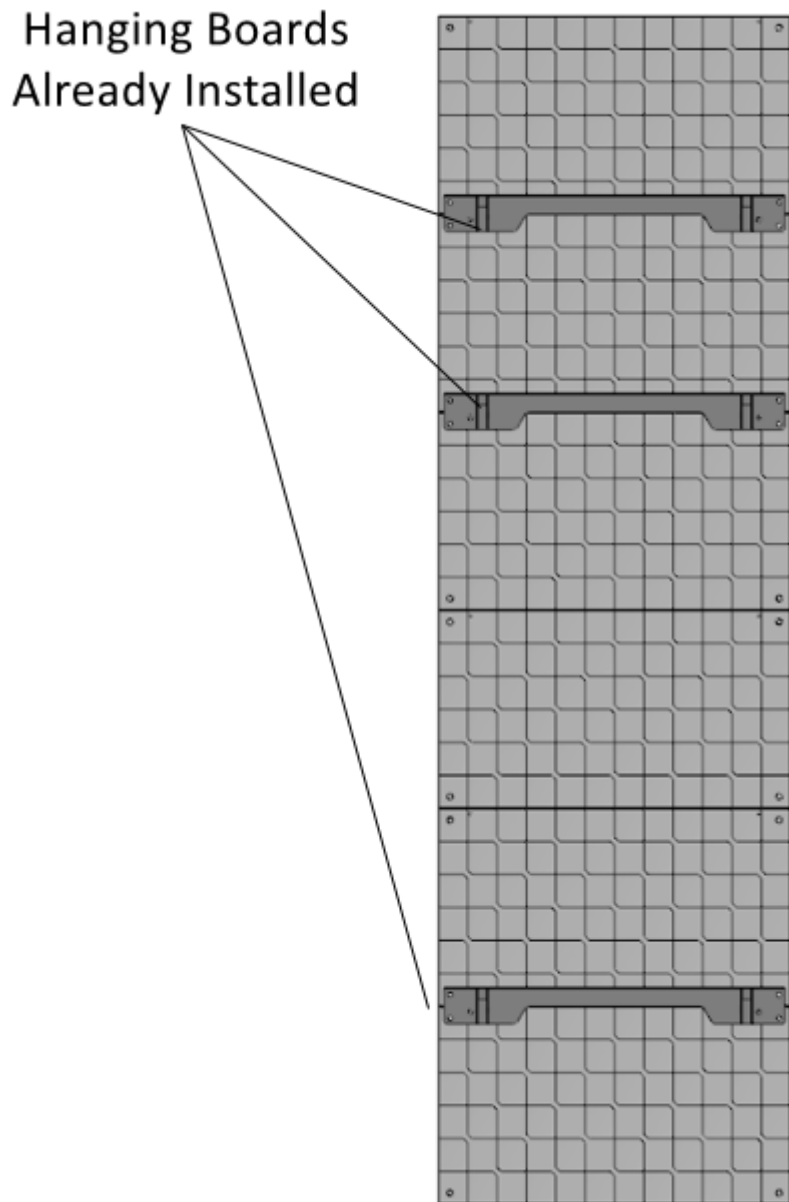


Figure 3-5 Install the Hanging Boards for 162- Inch Display

 **Caution**

Two columns of cabinets with profile frames need to be fixed on the left and right sides, while other columns have no requirements for position order.

Step 2 Finish the installation of remaining cabinets from inside to outside on both sides.

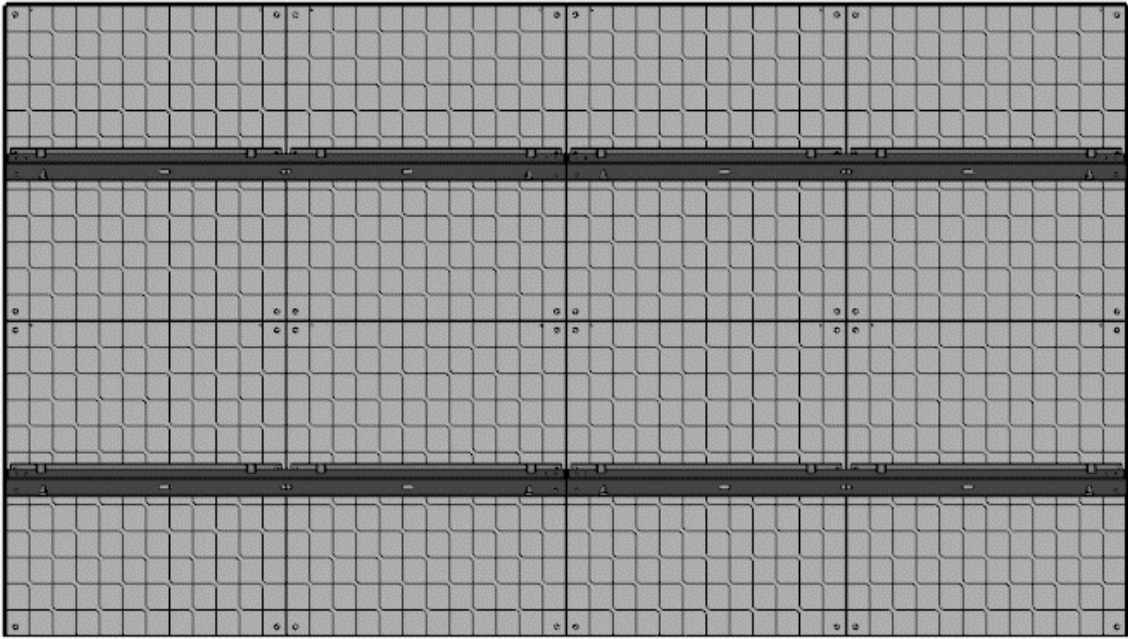


Figure 3-6 All Cabinets Installed

Step 3 After the installation is completed, adjust the flatness between adjacent cabinets. After adjusting the flatness, lock two columns of cabinets together by rotating the eccentric lock.

Use Hexagon Wrench Tool to Rotate the Eccentric Lock

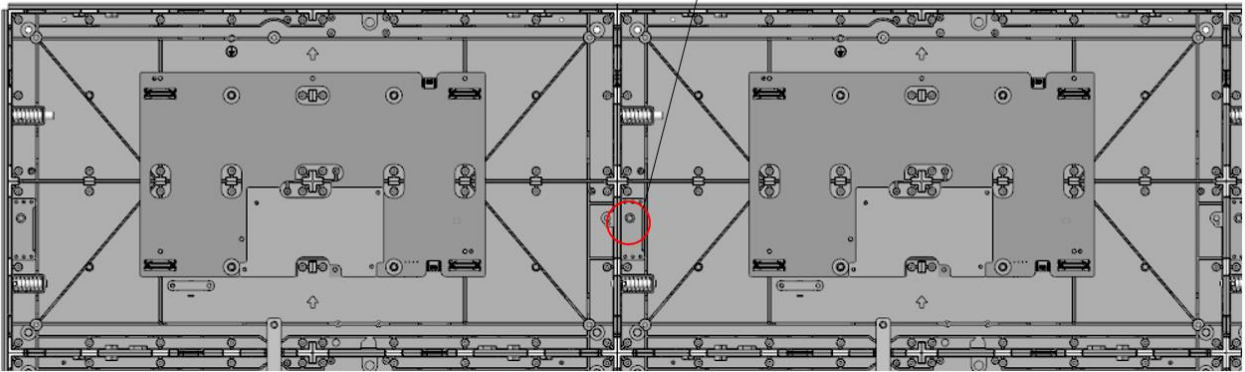


Figure 3-7 Stitch the Cabinets Horizontally

Step 4 Lock the extra cabinets by rotating the eccentric lock. The horizontal and vertical installation is finished.

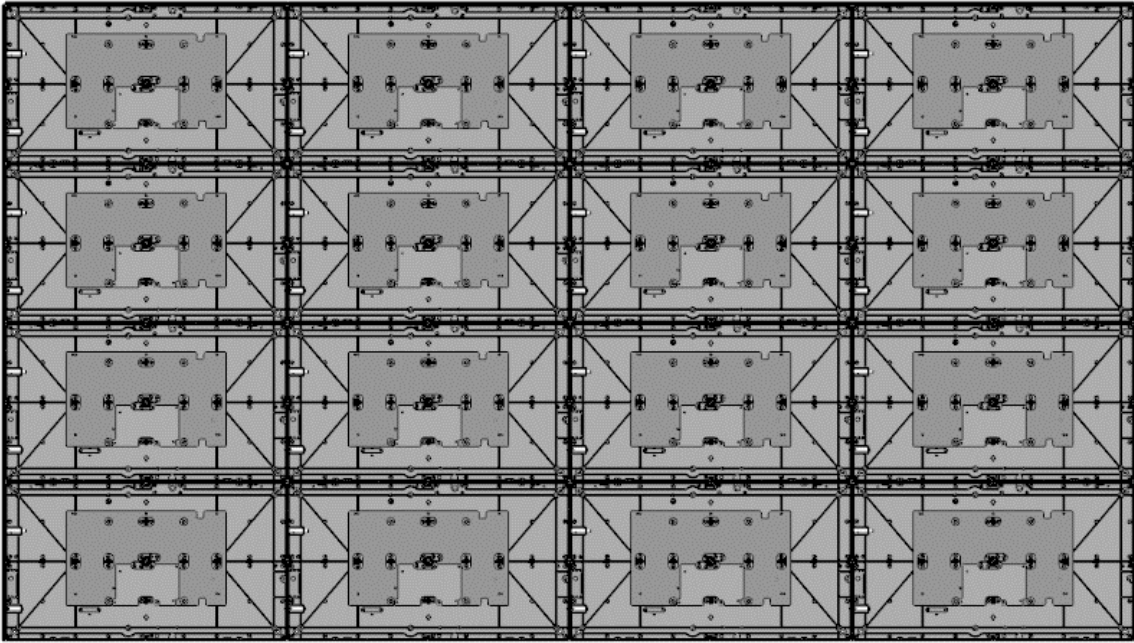


Figure 3-8 All Cabinets Locked Horizontally

3.3 Install Bottom Profiles

Install the bottom frames around the display.

Before you start

Ensure all cabinets are installed and wall-mounted.

Note

- The whole installation process requires two personnel.
- The number of eccentric locks varies with device sizes, but the installation method remains the same. The description below takes frames installation of the 108-inch device as an example.

Step 1 The top and side profiles are assembled by default. If there is obvious unevenness during splicing, loosen the inner screws, level them, and tighten the screws. Only the bottom profiles need to be assembled on site, and then use connectors to splice the left and right profiles into one piece.

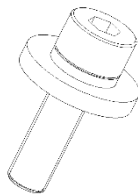


Figure 3-9 M4 × 16 Screws

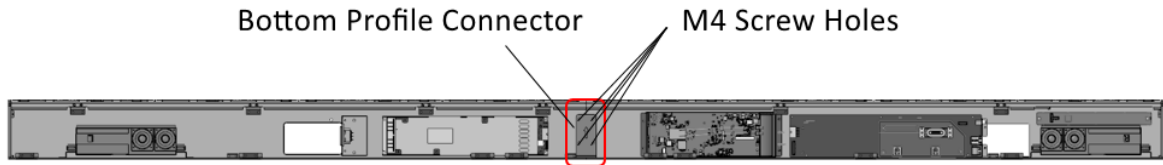
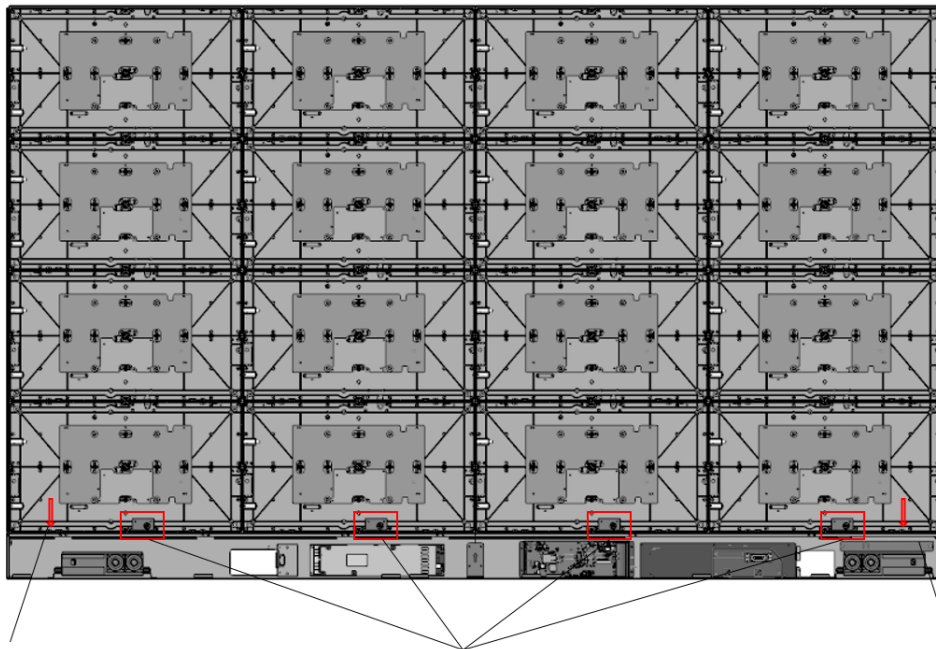


Figure 3-10 Fix Bottom Profile Connector

Step 2 Install the bottom profiles. Place the profile on the bottom of the cabinet and align the positioning pin with the corresponding holes on the cabinet. Please make sure that cables are not pressed. Rotate the eccentric lock counterclockwise to fix the bottom profile. Fix each side with one screw.



- ② Fix left side with one screw
- ① Rotate the eccentric lock counterclockwise to fix the bottom profile
- ③ Fix right side with one screw

Figure 3-11 Fix Bottom Profiles

Step 3 Install the rubber plugs on the top of the device. Remove the adhesive backing from the rubber plug. Insert the protruding rubber portion of the plug into the groove of profile until they can be fully seated.

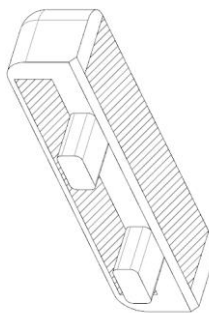


Figure 3-12 Rubber Plug

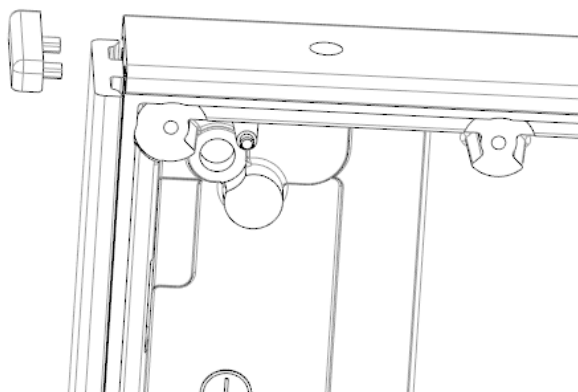


Figure 3-13 Install the Rubber Plug

3.4 Wiring

3.4.1 Electrical Safety Precautions

- The input voltage of power supply is 220V AC. A circuit breaker rated at D40, C50 or higher specification must be installed in the power distribution system due to high inrush current at power-on startup.
- Both 135-inch and 162-inch devices require a 1-channel input AC power cord. The input AC power cord should be connected to a circuit breaker rated at D40, C50 or higher specification. Pluggable wiring is strictly prohibited.
- It is not recommended to connect with residual-current devices (RCDs). Otherwise, the leakage current of switching power supplies can easily cause the tripping of RCDs.
- Although the quantity of power cords and network cables varies with different device sizes, the wiring requirements are the same.

3.4.2 Connect Power Cords between Cabinets

Connect power cords between cabinets in cascade in each column, as shown in the following figure.

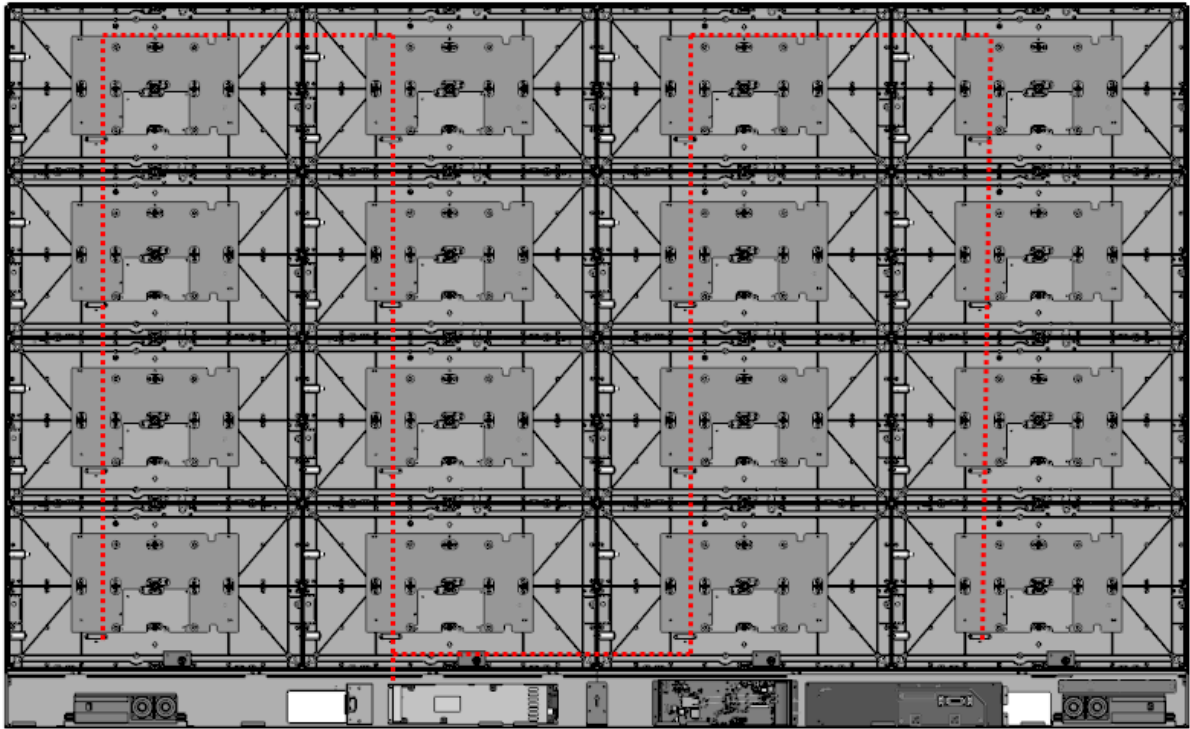


Figure 3-14 Internal Power Cords Connection between 108-inch Cabinets

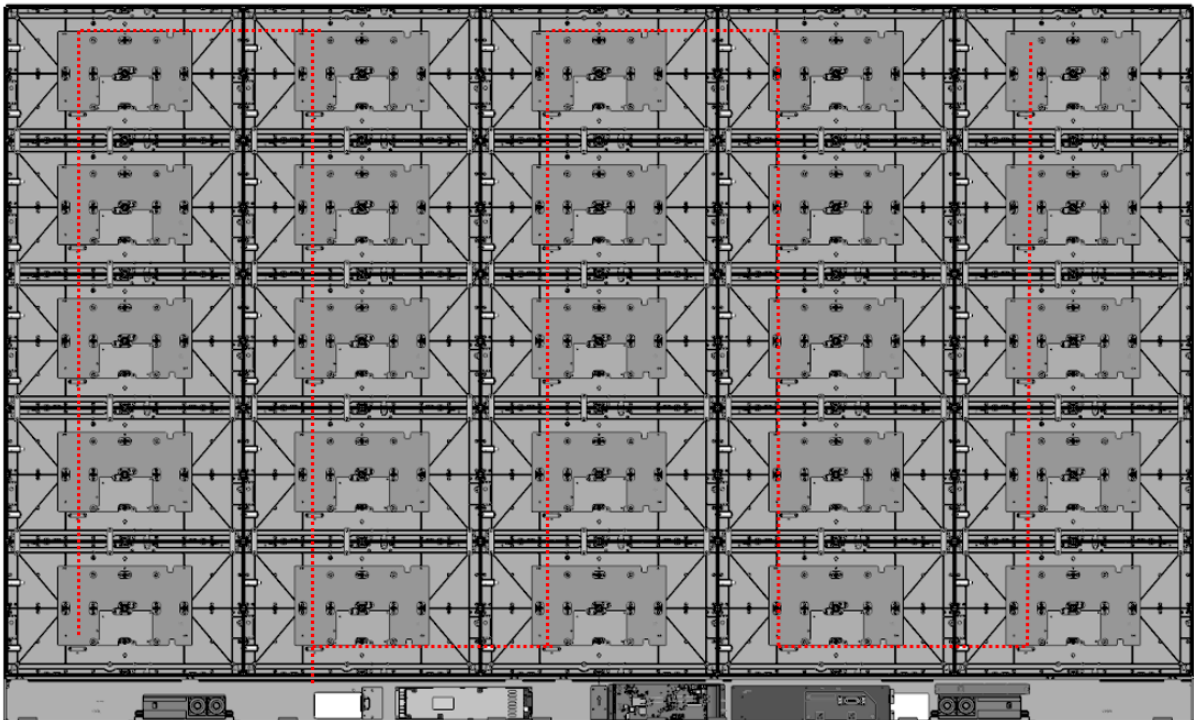


Figure 3-15 Internal Power Cords Connection between 135-inch Cabinets

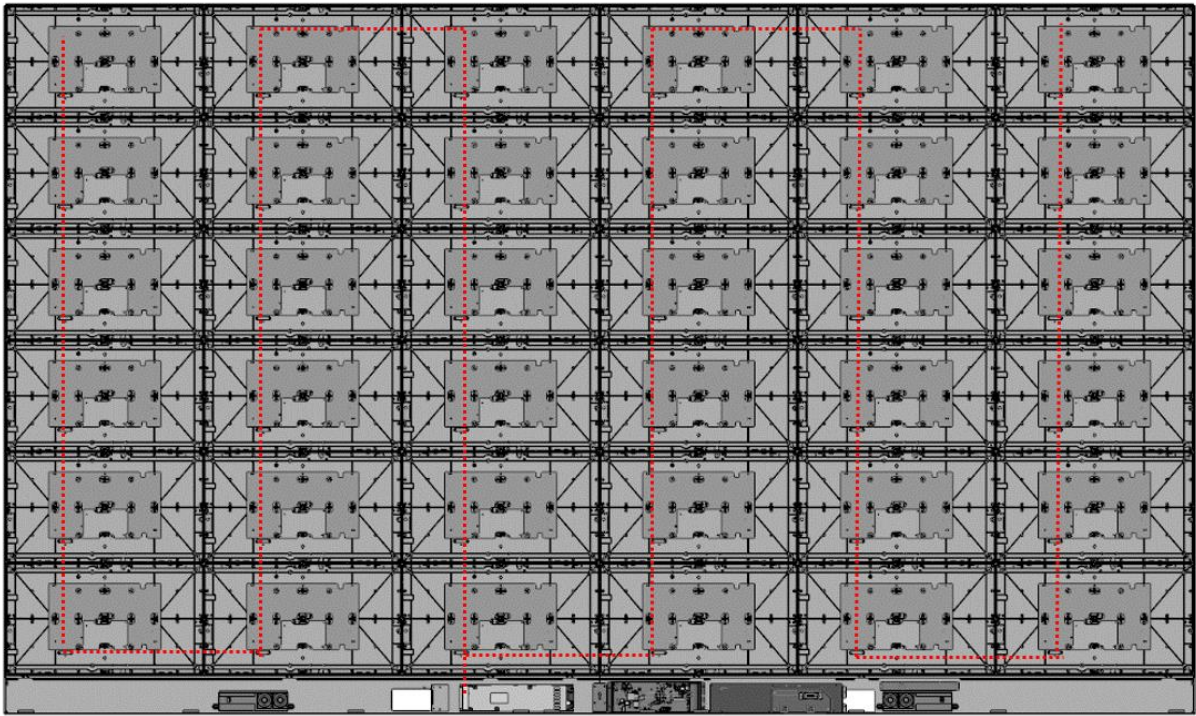


Figure 3-16 Internal Power Cords Connection between 162-inch Cabinets

 **Caution**

The power cover plate is a critical safety component. Ensure that the power cover plate is properly installed upon completion of power cord wiring prior to proceeding with subsequent installations.

3.4.3 Connect Network Cables between Cabinets

For 108-inch display, each column (1 column × 4 rows cabinets) requires 3 network cables for cascading connection between cabinets and adjacent columns should be connected with 1 cascading network cable. The main network cable path is from the rightmost last column's network cable to the rightmost network interface on the main board.

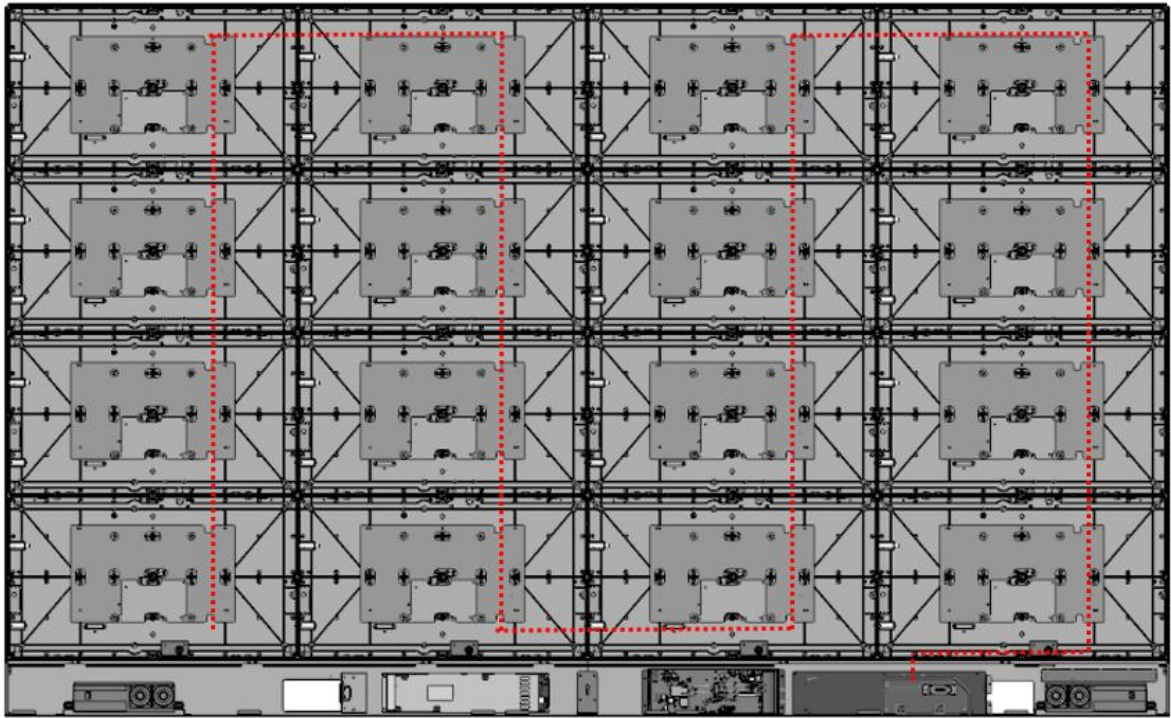


Figure 3-17 Internal Network Cables Connection between 108-inch Cabinets

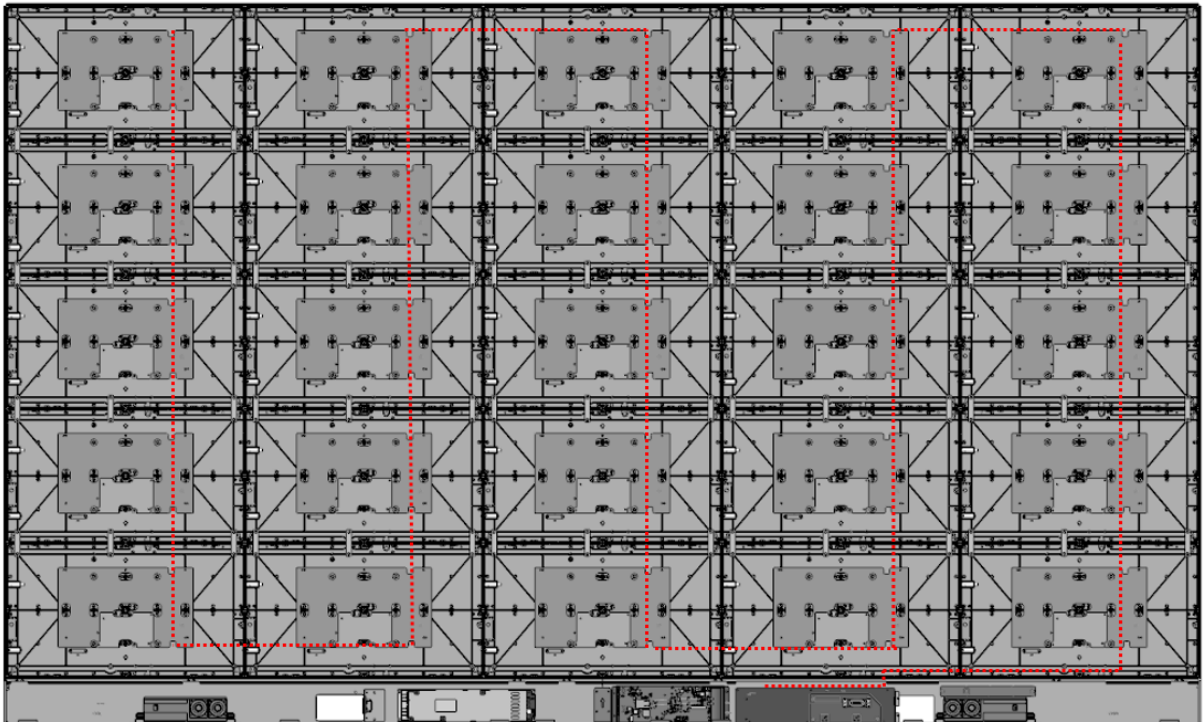


Figure 3-18 Internal Network Cables Connection between 135-inch Cabinets

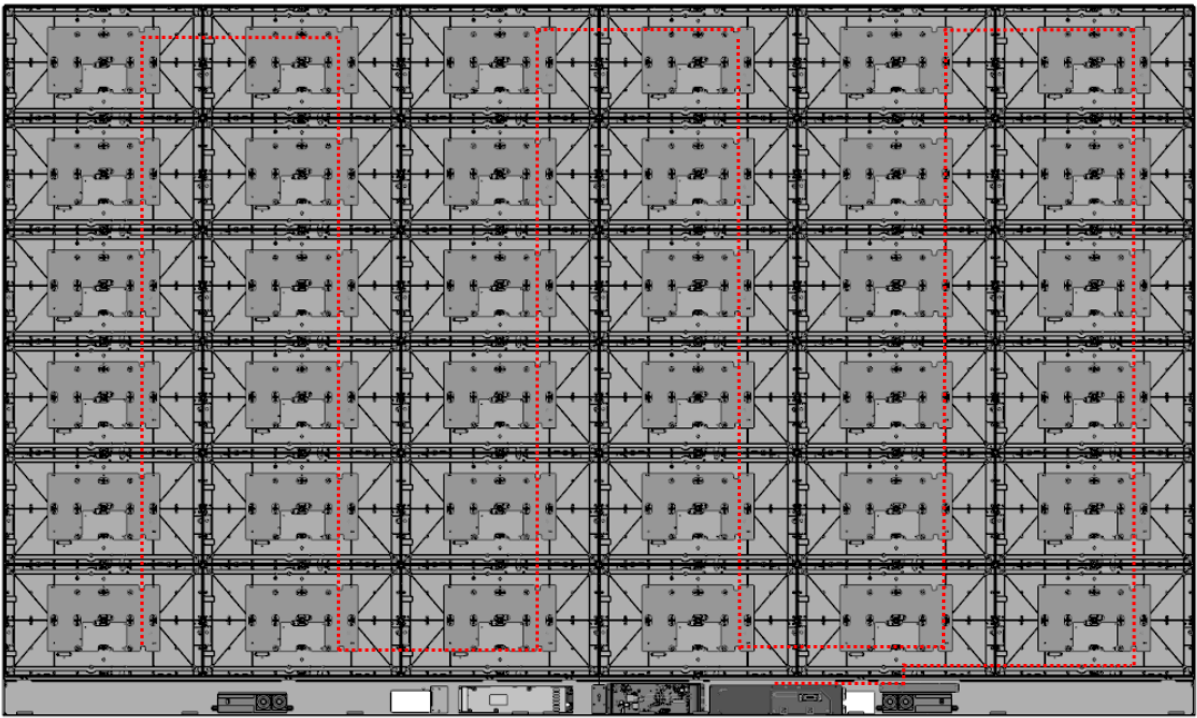


Figure 3-19 Internal Network Cables Connection between 162-inch Cabinets

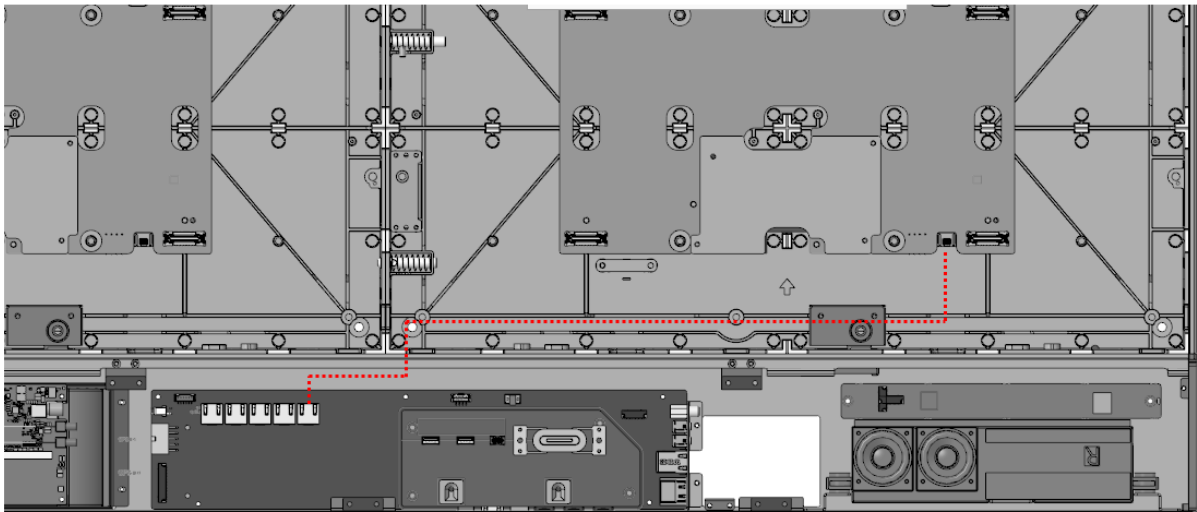


Figure 3-20 Network Cable Wire-Holes on the Bottom Profile

! Caution

The two rightmost columns of cabinets on the device are directly connected to the interfaces of the main board via primary network cables. There is no need to connect with the network interface boards.

3.4.4 Main Board Power Cord

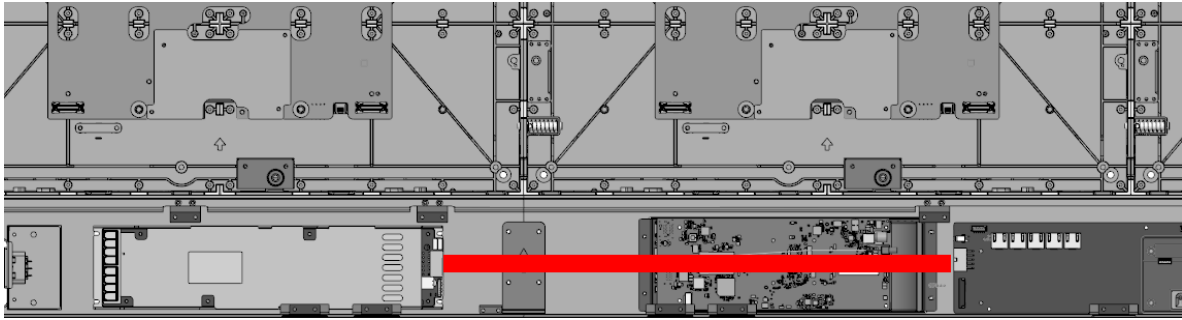
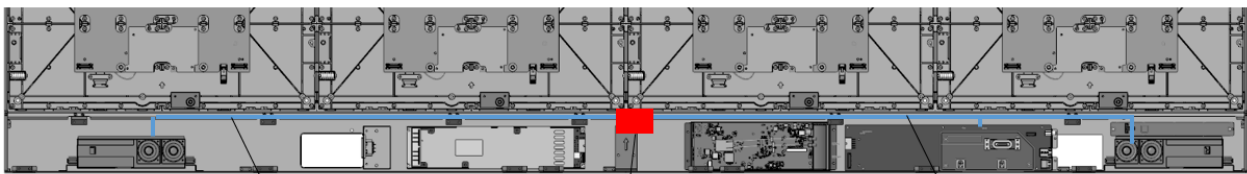


Figure 3-21 Main Board Power Cord

3.4.5 Speaker Line



Already connected by default

Please properly connect
the male and female connectors

Already connected by default

Figure 3-22 Speaker Line

3.5 Install Lamp Boards

Step 1 Install the lamp boards onto the cabinet frames from middle to both sides and from bottom to top.

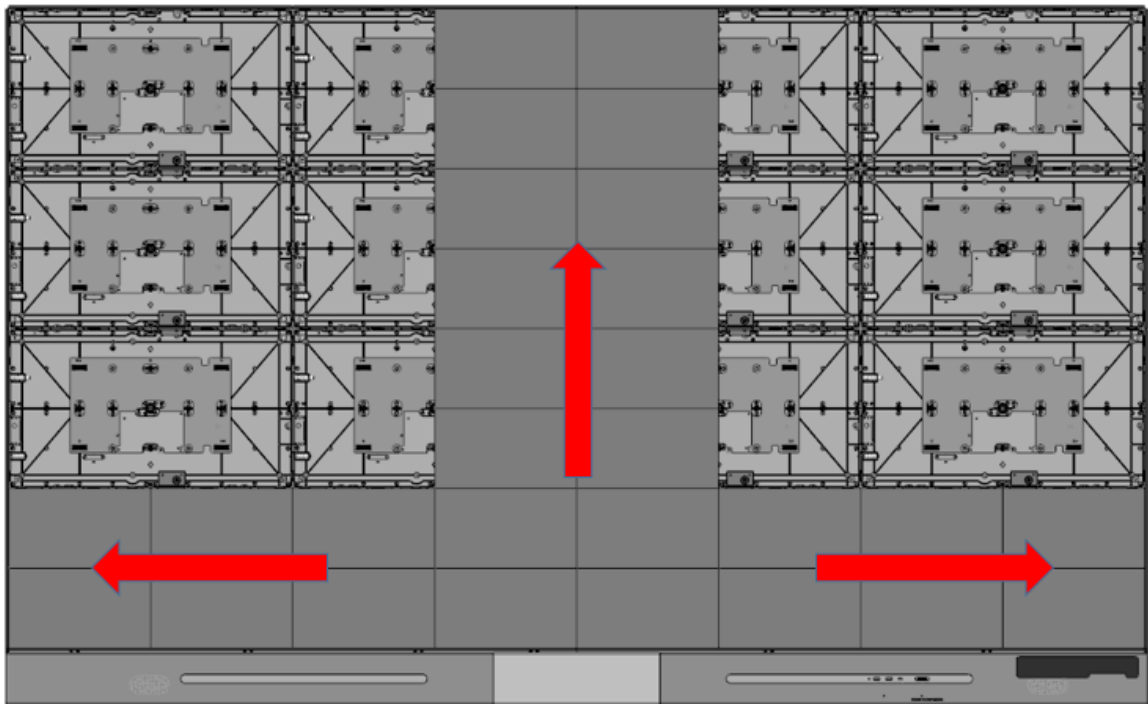


Figure 3-23 Install Lamp Boards

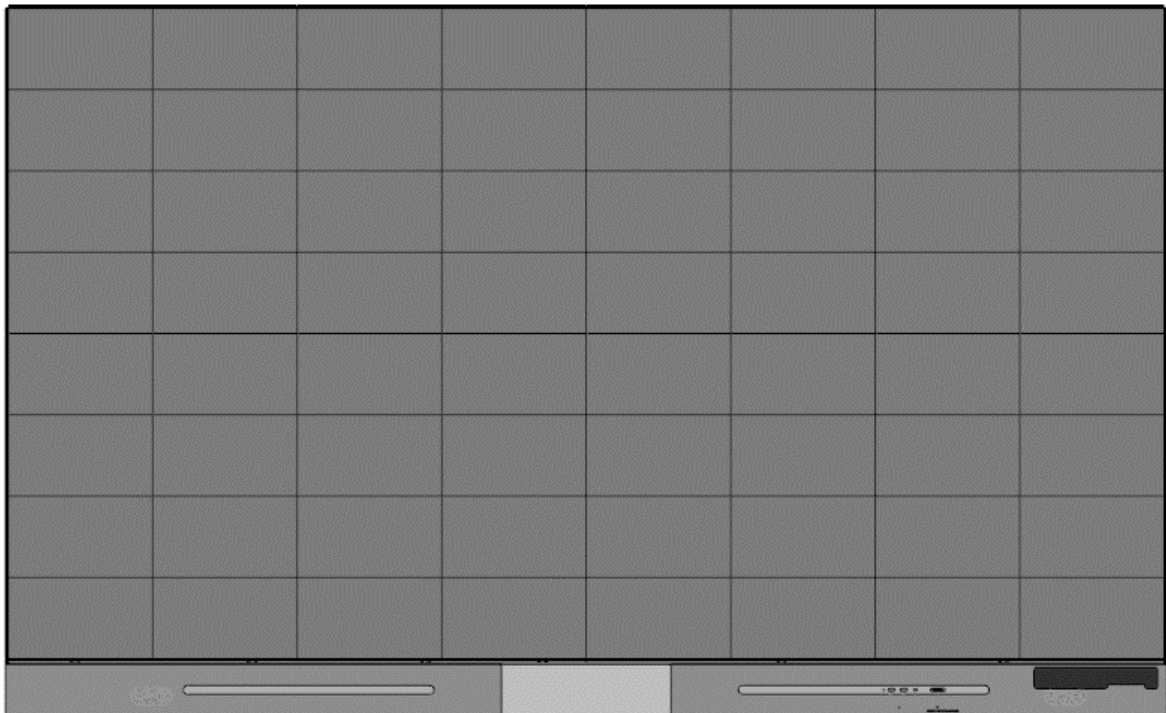


Figure 3-24 All Lamp Boards Installed

Step 2 Use infrared tools or string lines to verify the overall flatness of the LED screen, ensuring that the screen does not protrude forward by more than 5 mm.

3.6 Install OPS Module

The OPS module is an optional component. No installation is required if there is no OPS module is in the device.

Before You Start

All peripheral frame components are installed. The cover plate must be open.

Step 1 Put the OPS module at the designated location (on the bottom frame profile with the integrated air guide). Ensure the interface side of the OPS board faces inward.

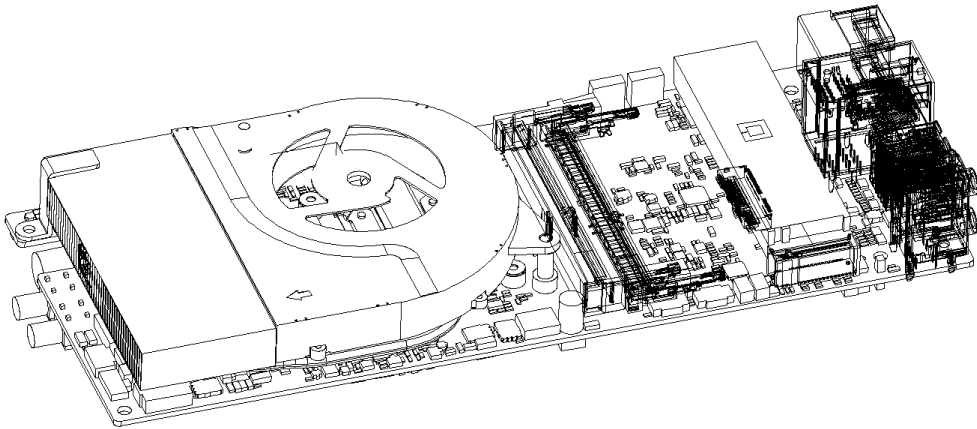


Figure 3-25 OPS

Step 2 Secure the four M3 × 6 assembly screws into the corresponding mounting holes.

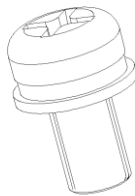


Figure 3-26 M3 × 6 assembly screws

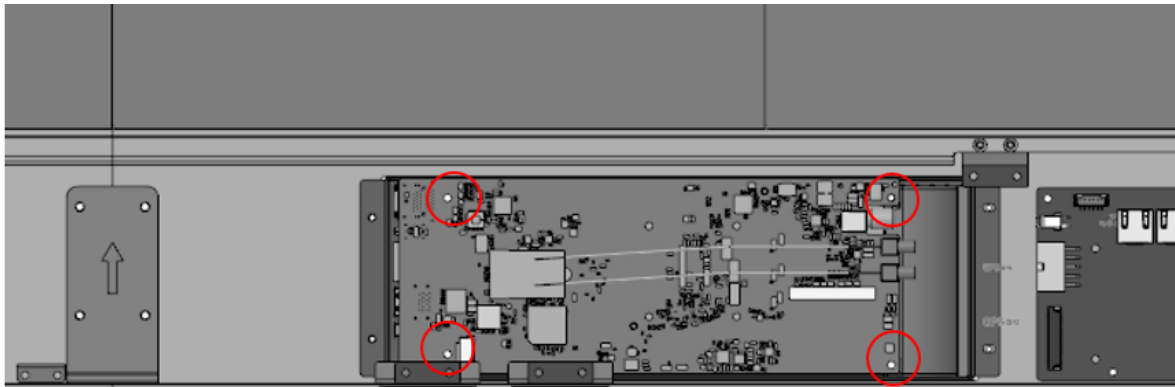


Figure 3-27 Installation Position of M3 × 6

Step 3 Connect the cables between the main board and the OPS module as shown in the figure below.

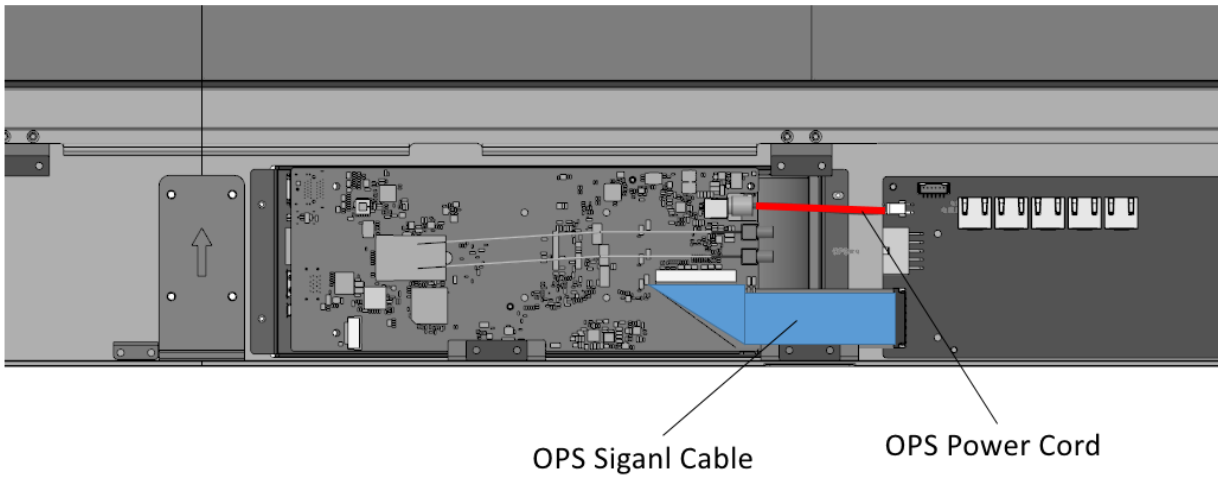


Figure 3-28 Cabling Diagram of OPS Module and Main Board

3.7 Install Cover Plates

The front cover plates of the lower profile consist of 3 components: the central button plate, and plates on both sides. All 3 fabric-covered plates are magnetically secured for easy removal during interface operations.

Before You Start

Cabinet stitching, profiles installation and internal wiring have been finished.

Step 1 Align the top edge of the central button plate with the mounting slot on the lower profile. Press and slide the plate downward along the arrow direction shown in the figure until fully seated.

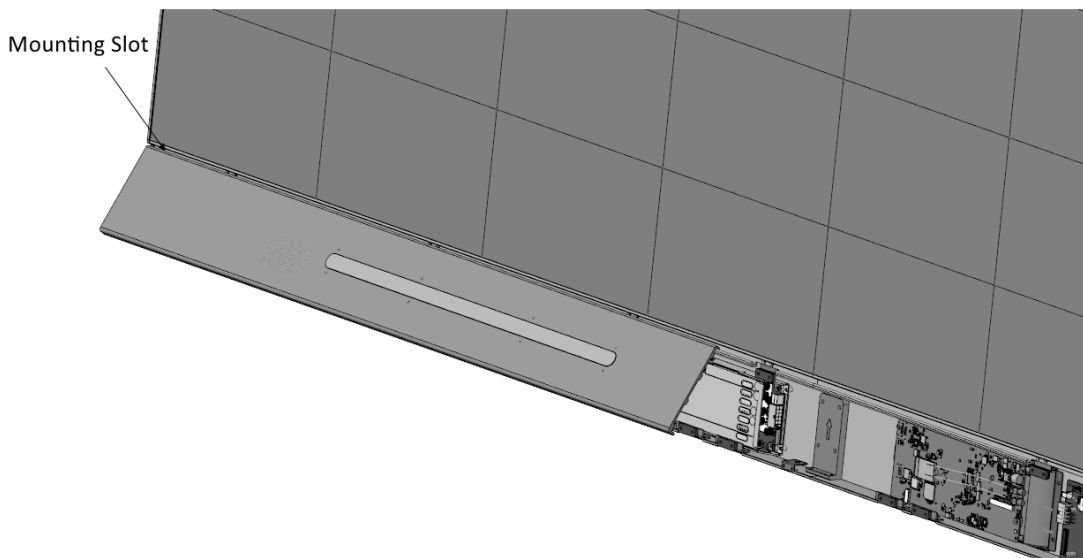


Figure 3-29 Install Central Button Cover Plate

Step 2 Repeat above steps to complete the installation of the remaining cover plates.

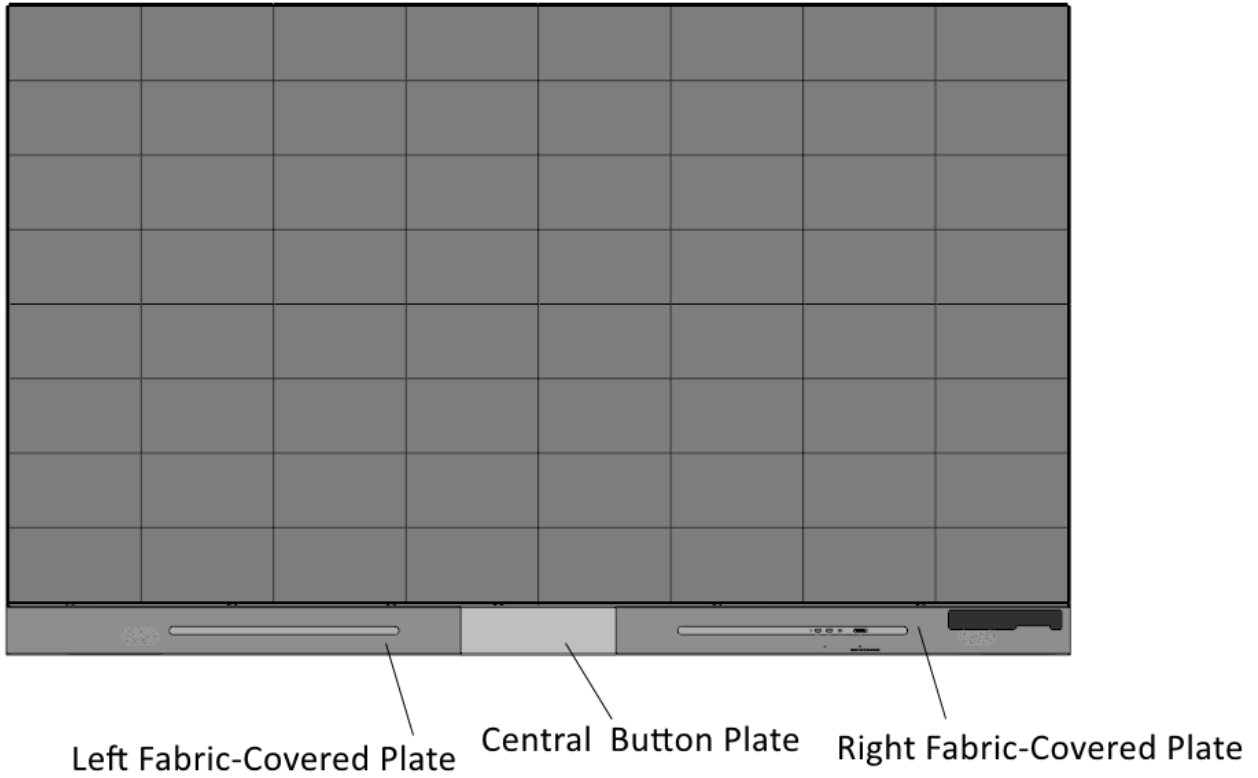


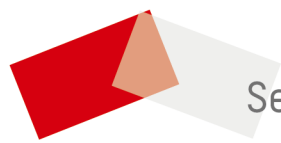
Figure 3-30 Install the Remaining Cover Plates

Chapter 4 Software Debugging

The device supports configuration on the client of LED display unit. For more details about the installation and configuration process, scan the QR code to get the installation guide.



Figure 4-1 QR Code of the User Manual of LED Batch Controller



See Far, Go Further