newline

All-in-One Direct View LED Display

Newline DV One Elite

Quick Start Guide

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Safety Instructions

- Please read this manual carefully and follow the instructions before use.
- Please complete the installation according to the installation methods provided in the user manual.
- Please cut off the power of the screen during installation and maintenance to prevent electric shock and injury, and avoid short circuit of the live parts of the PCB board against the metal frame.
- Do not place the front of the product on an irregular surface to avoid permanent damage to the display surface of the product.
- Do not place the product on a tilted or unstable table or pallet to prevent it from falling or tipping, which may cause permanent damage to the product.
- Do not place heavy objects on the power cord to avoid damaging the cable and causing electric shock or fire.
- Do not bend or move the power or data cables repeatedly to avoid damage and cause electric shock or fire.
- Please arrange, tie and fix the power cord and network cable orderly after the installation, and separate the strong and weak current.
- Please regularly clean the screen. If you have any questions about cleaning products, please contact customer service.
- Please use the screen in a well-ventilated environment.
- Do NOT expose the product to prolonged exposure or exposure to environments containing a large amount of dust, strong acidic or alkaline substances, as this may cause permanent damage to the product.
- DO NOT place fire or any device that gives off high heat around the display.
- Please use original Newline accessories. If you need to use self-purchased accessories, please consult customer service.
- Arrange professional personnel to inspect the screen regularly.

Important Warning

Warning: Electric shock hazard.
Danger of high voltage, Non-professionals are prohibited from opening the panel. It is forbidden to plug and unplug the power cord under working conditions.

Warning: DANGER OF PERSONAL CASUALTIES.
It is necessary to take corresponding protective measures for high-altitude operators to avoid accidents.

Warning: KEEP AWAY FROM FLAMMABLES AND/OR EXPLOSIVES.
Keep the screen away from flammables and explosives.

Attention: STAY AWAY FROM THE AIRCONDITIONING VENT.
- Keep away from the air outlet of the air conditioner and keep the screen dry.

Attention: PAY ATTENTION TO SCREEN GROUNDING.
- Class I equipment, EQUIPMENT, grounding treatment is required.

Attention: POWER ON REGULARLY.
- When not in use for a long time, turn on the screen power regularly to extend the product's service life.

LED display screens cannot be turned off for a long time. In high humidity environments, if the screen has not been used for more than 3 days, it is necessary to check and confirm whether there is water vapor on the surface of the screen before turning it on. If there is moisture, ventilation or dehumidification is necessary. When lighting the screen, preheating and lighting method should be used: turn on the screen for 2 hours with black color, preheat 10-20% brightness for 4-8 hours, and then adjust to normal use brightness (40% -80%) to light the screen, in order to eliminate moisture and avoid abnormalities during use (the normal use brightness can be adjusted by the user according to the usage environment).

Attention: POWER SUPPLY.
- When wiring power supply, please pay attention to load balance, overload is strictly prohibited. Before installation, please ensure that the operating voltage of the display is suitable for the local grid voltage.

Unpacking

Please note the following when unpacking:

- Do Not discard the original packaging material. Please keep the original packaging materials for use during new transportation.
- Keep your documents in a safe place. This document is required for commissioning the device. It is also needed when presenting the equipment for debugging, and is part of the device.
- Check the delivered device for any obvious damage during transportation.
- Verify that the goods shipped contains the complete device and accessories you ordered separately. If there is any discrepancy or damage during transportation, please contact customer service.
- The product should not be exposed to the installation site under construction for a long time after unpacking.

Safety Code

- Non-professionals are not allowed to disassemble the product without permission to avoid electric shock of high voltage.
- Please consult the local power supply operator if not clear about the local grid voltage.
- Personnel working at heights shall be provided with safety protections.
- The frame structure of LED display should be designed and constructed by professionals.
- Make sure to take safety measures for grounding the equipment.

Warning Signs

Preventive measures:

For your personal safety and to avoid unnecessary property damage, it is important to pay attention to the prompts in this manual. The reminder for personal safety is indicated by ⚠. And the reminder only related to property damage does not include a warning triangle. The warning reminder varies from high to low according to the level of danger, as follows:

⚠ **Danger**: Failure to take appropriate protective measures may result in death or serious personal injury.

⚠ **Caution**: Failure to take appropriate protective measures may result in minor personal injury.

Attention: If corresponding protective measures are not taken, it may lead to unexpected results.

Documentation

Scope of application of this document:
This article is applicable to Newline DV One +.

Copyright Notice

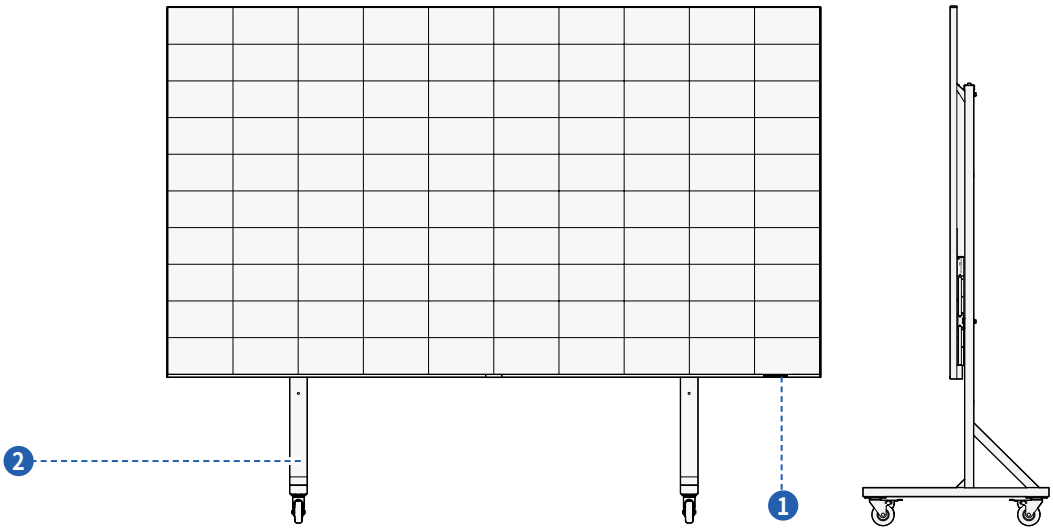
- Newline reserves the right to make changes to this product manual without prior notice. We are not responsible for any direct, indirect, intentional or unintentional damages or hidden dangers caused by not following the product manual for installation or improper use.
- The ownership of other trademarks involved in this manual belongs to the corresponding product manufacturers.

1 Product Overview

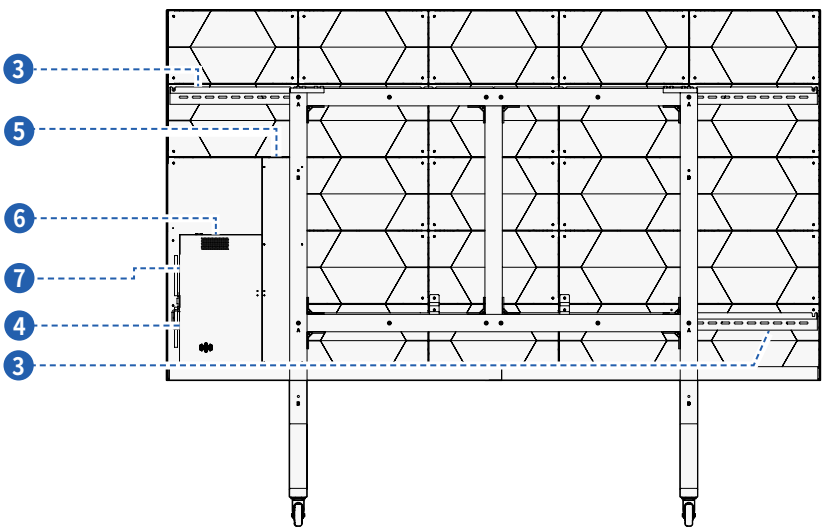
1.1 Appearance and Introduction

This product is shown in the following figure. Some features have been simplified.

Front View



Rear View



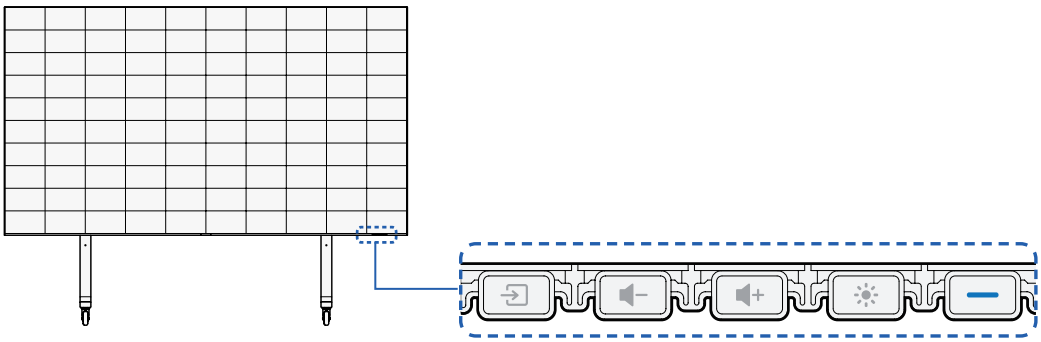
No.	Part Name	Description
1	Front key	Control the LED display
2	Mobile stand	A movable bracket for support structure
3	Wall-Mounted	A bracket for support structure
4	Wi-Fi Module	Provide the wireless network
5	Power Input	Power supply
6	Rear Interface(Up)	Connecting the external device
7	Rear Interface(Side)	Connecting the external device

Notes

The product images shown are for illustration purposes only and may not be an exact representation of the product.

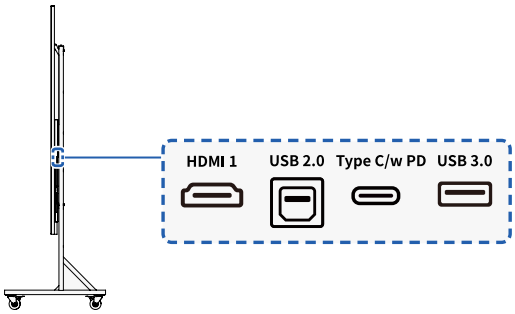
1.2 Keys and Interfaces Introduction

Front key

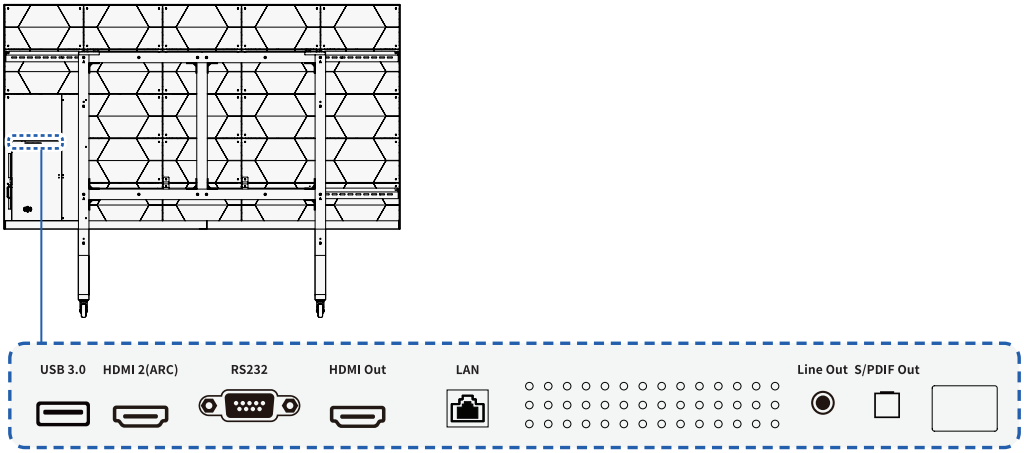


Icon	Name	Function Description
	Signal source switch key	Used to switch video sources
	volume -	Used for volume reduction
	volume +	Used for volume increase
	Brightness adjustment key	Used for brightness adjustment, 1%~100% cycle
	Power Key	Used for switching on/off the device

Rear Interface

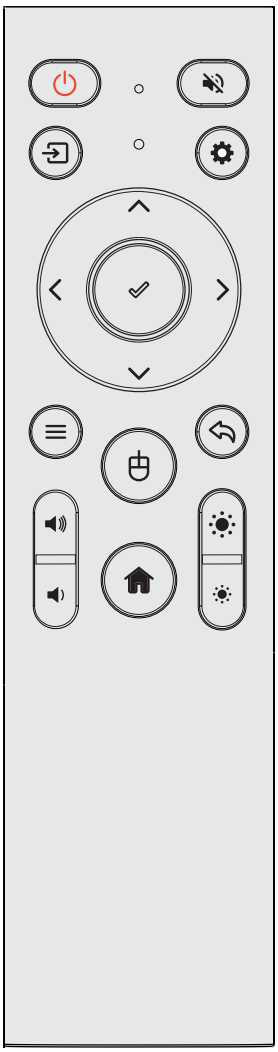


No.	Name	Function Description
1	HDMI IN interface	Used for connecting external video sources
2	USB 2.0 Type-B	Used for connecting to USB device
3	Type C/w PD interface	Used for Audio/video input, data, USB drive, supports 65W charging
4	USB3.0 interface	Used for connecting to USB device



No.	Name	Function Description
1	S/PDIF output interface	Used for connecting to fiber optic speaker
2	Line output interface	Used for connecting to 3.5mm audio output devices
3	RJ45 network interface	Used for networking
4	HDMI OUT interface	Used for video output, 1080p mode
5	RS232 interface	Used for achieving centralized control
6	HDMI 2(ARC) interface	Used for external device video access
7	USB3.0 interface	Used for connecting to USB device

1.3 Remote Control Introduction



Key icon	Function Description
	Power key, used for switching on/off the display.
	Mute.
	Signal Source.
	Settings.
	Confirm key, used for confirming selection.
	Used for up, down, left, and right selection.
	APP List.
	Turn the air mouse on or off.
	Return key, used to return to the previous page.
	Volume adjustment key, used to increase/decrease the volume.
	Home key. Return to the homepage.
	Brightness adjustment key, used to increase/decrease the brightness.

1.3.1 Air mouse pairing

First-time use requires Bluetooth pairing between the DV One+ and the remote control:

1 Hold the volume - and brightness - buttons simultaneously for 5 seconds to enter pairing mode; the remote control indicator light will flash;

2 Search for **DYC-Q5** in the initial pairing page or **Setting > Network > Bluetooth** for pairing.

2 Installation Guide

Before installing, please carefully read the following safety precautions and formulate strict safety assurance measures to ensure construction safety.

2.1 Precautions

2.1.1 Attention

- After the product is unpacked, please check whether the product is damaged.
- At least two people are required to participate in the installation process to ensure safety.
- Please take necessary measures to prevent the product from falling during installation.
- Operators shall use safety belts and helmets correctly when working at heights.
- Ensure that the bracket and support beam of the LED display screen are horizontal.
- Be careful not to drop objects on the LED display screen.
- It is strictly forbidden to install in the environment where iron filings, wood shavings and paint are produced.
- Please install this product in a relatively safe environment (avoid installation under a large amount of dust, strong acid, strong alkaline or diffuse paint).
- Do not leave screws, nuts and other metals in the box during the installation process to prevent short circuit when the screen is working.
- When moving the cabinet, please do not touch the LED and take anti-static measures to prevent static electricity from damaging the LED or IC device.
- Please be careful to prevent the LED panel surface from colliding or being compressed

2.1.2 Unpacking

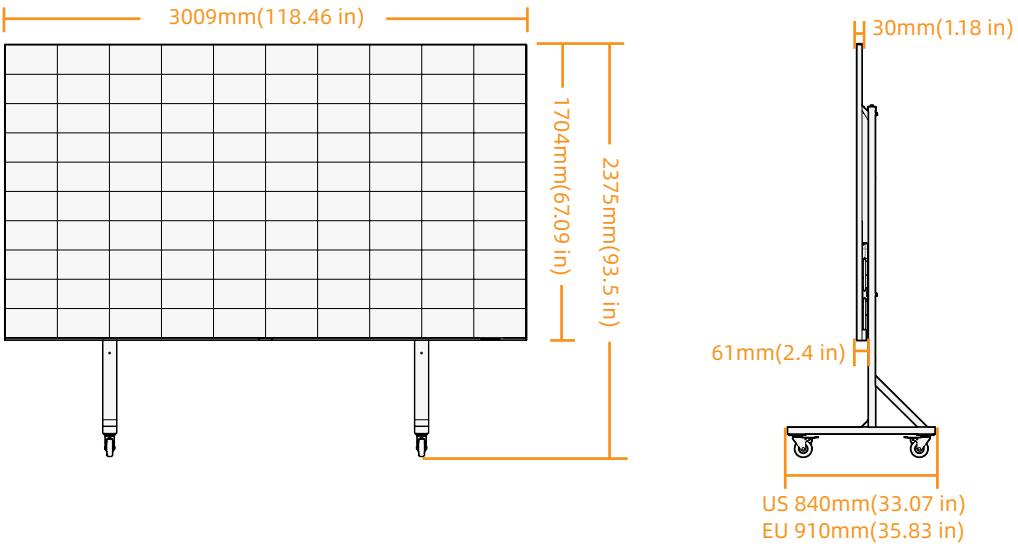
Please note the following when unpacking:

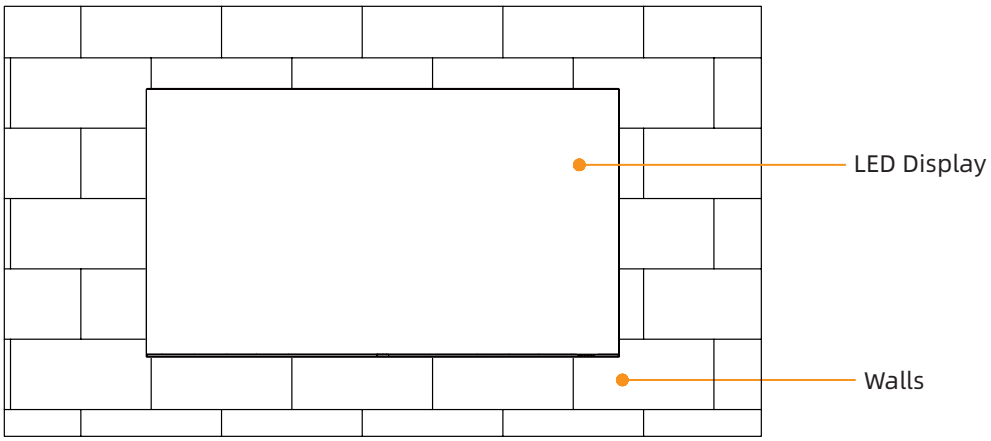
- Do Not discard the original packaging material. Please keep the original packaging materials for use during new transportation.
- Keep your documents in a safe place. This document is required for commissioning the device. It is also needed when presenting the equipment for debugging, and is part of the device.
- Check the delivered device for any obvious damage during transportation.
- Verify that the goods shipped contains the complete device and accessories you ordered separately. If there is any discrepancy or damage during transportation, please contact customer service.
- The product should not be exposed to the installation site under construction for a long time after unpacking.

2.2 LED Display Installation

2.2.1 Installation Dimensions

DV-13526-ELT





2.2.2 Installation Steps

LED display supports both wall mounting and mobile bracket installation. The following is an example of wall mounting for details. If you choose mobile bracket mounting, please follow the mobile bracket mounting instructions to assemble the mobile bracket first, and then start assembling the LED display according to the third step.





1 **Connecting the wall-mounting bracket**

Use A1 hexagon socket bolts and the B1 connector to attach the upper wall-mounting bracket, and then use the same method to attach the lower wall-mounting bracket.



A1 x8



B1 x2



8mm hexagon wrench/
Ratchet Hex Key Wrench

Upper wall-mounting bracket



135 L（Left）



135 UR（Right）

lower wall-mounting bracket



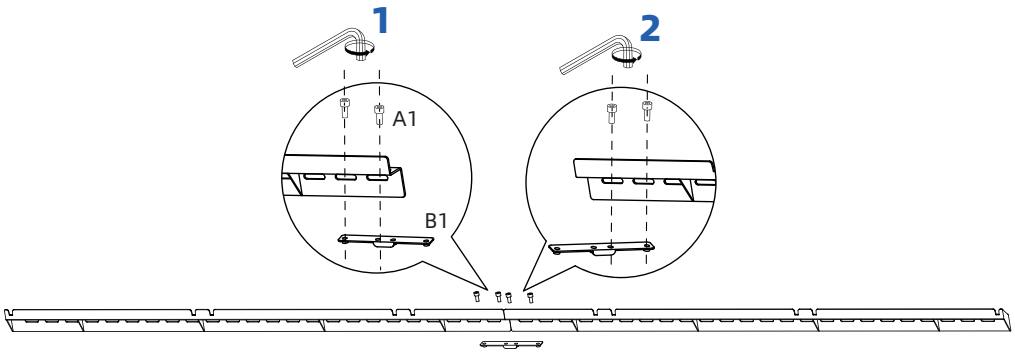
135 L（Left）



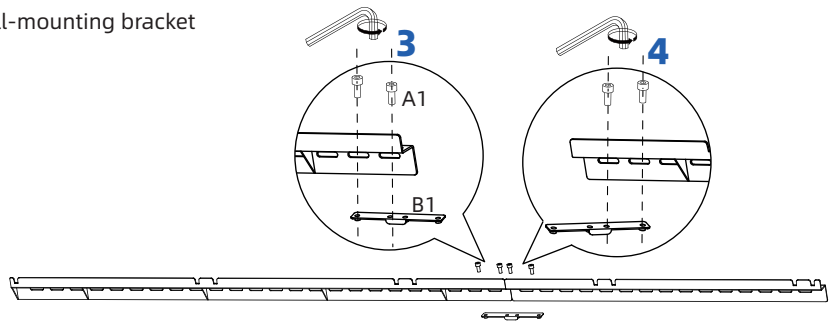
135 DR（Right）

Show the final assembly diagram

- Upper wall-mounting bracket



• lower wall-mounting bracket

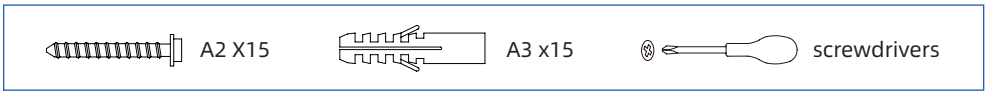


2 Fixing the wall mount bracket to the wall

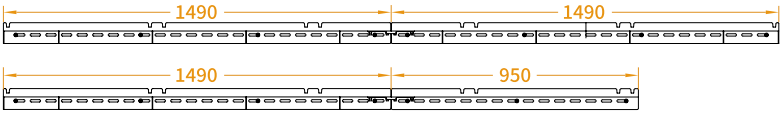
- Mark the hole positions on the wall according to the dimensions shown in the diagram, and drill holes (diameter 12mm, depth 60mm).
- Insert the A3 expansion plugs into the drilled holes, ensuring that the plugs do not protrude from the wall.
- Finally, secure the wall mount brackets with A2 expansion screws. Make sure that the upper and lower wall brackets are aligned on the left and that the vertical distance between the two wall brackets is 1039mm.

Note:

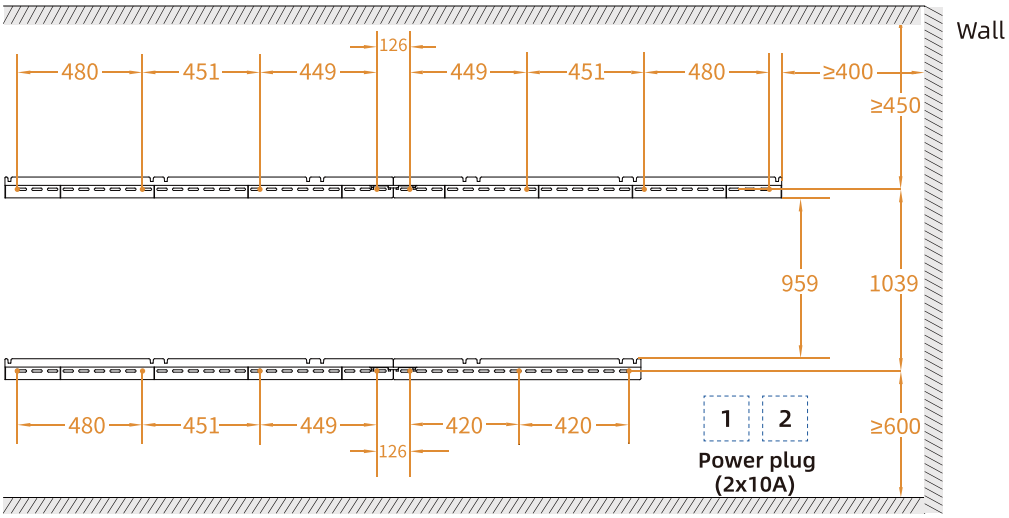
The lower mounting bracket must not be less than 280 mm above the ground.
The upper mounting bracket shall have a clearance of 450 mm above and 400 mm to the right.



Wall Mount Bracket Dimensions



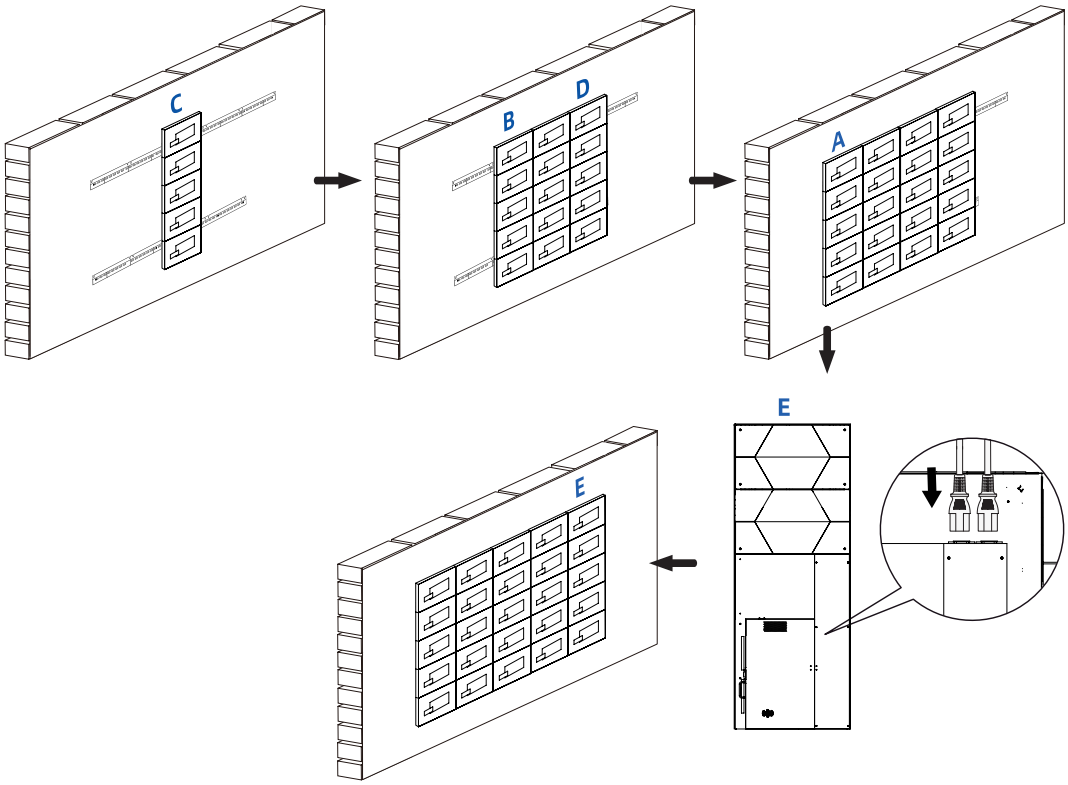
Screw Hole Location Dimension



3 **Hanging the cabinet to the bracket**

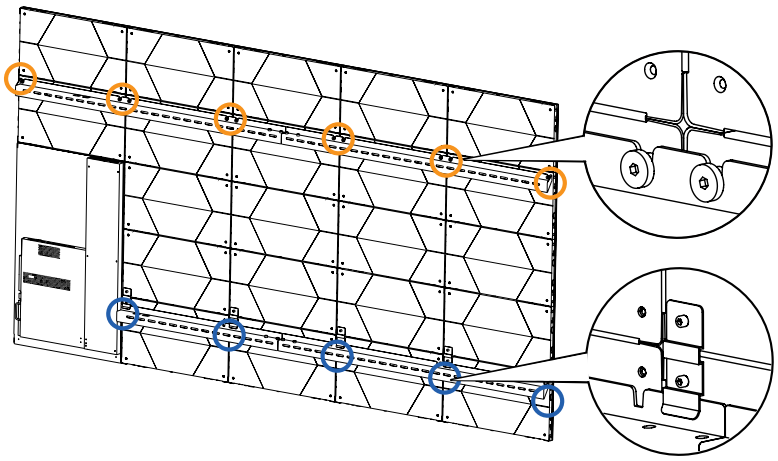
Starting with the middle column (C) by hanging it on the wall mount brackets, ensuring that the slots on the back of the cabinets fit perfectly onto the brackets. Next, hang the B and D columns, and finally, hang the A and E columns.

Be sure to connect the power cord (see reference diagram below) before hanging the F-column cabinet (with pull-out box):



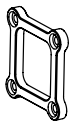
Load-bearing Screws

Make sure that the load-bearing screws snap into the notches of the wall bracket.



4 Secure the Square Connector

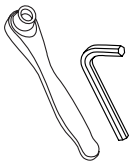
Take one set of the B2 Square Connectors and install them at the cabinet joint (as shown in the diagram). Fasten loosely with A4 Hexagon socket bolts for pre-tightening only; do not fully tighten the bolts at this stage. Adjust the tightness of the bolts to ensure that the cabinets are installed flat temporarily. Repeat this process for all the cabinets, and fully torque these A4 bolts only after finishing all cabinet assembly work in Step 5.



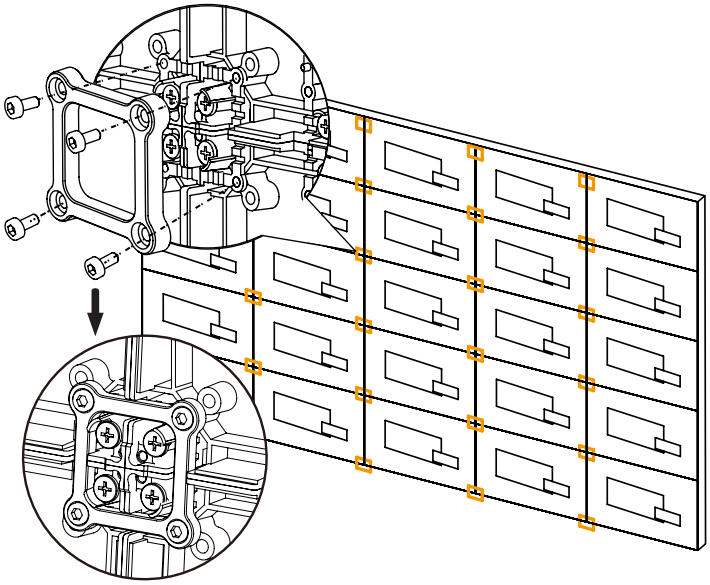
B2 x 24



A4 x 96



4mm hexagon wrench/Ratchet Hex Key Wrench

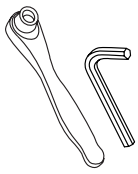


5 Assemble the cabinet

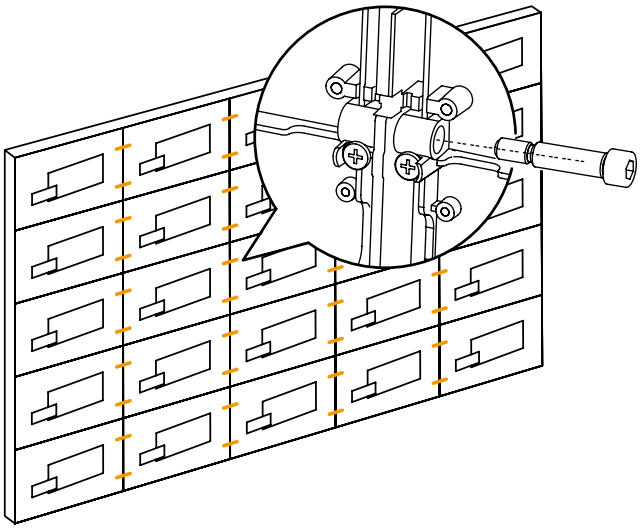
Insert the A5 Hexagon socket bolts from right to left into the connection between the two cabinets, and then tighten them with a wrench. Ensure that the adjacent cabinets are flush, as shown in the diagram.



A5 x 40



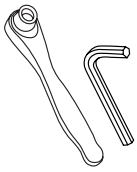
6mm hexagon wrench/Ratchet Hex Key Wrench



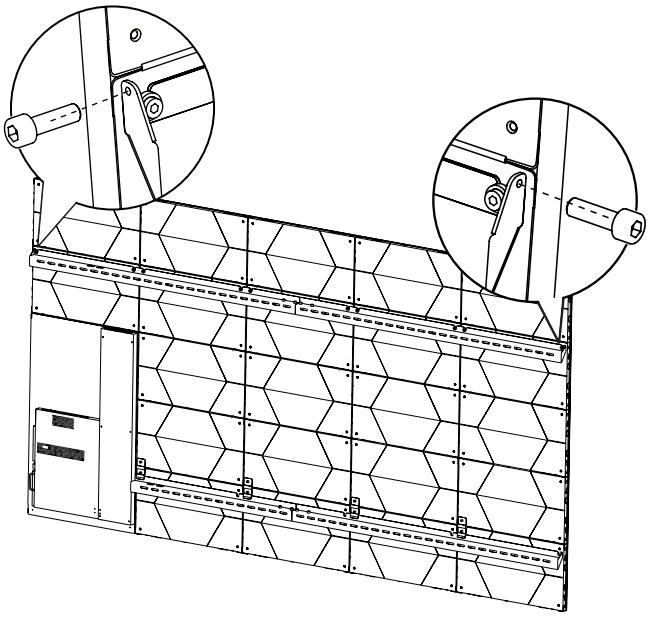
After completing the cabinet installation, use two A9 Hexagon socket bolts to lock the ends of the upper wall bracket.



A9 x 2



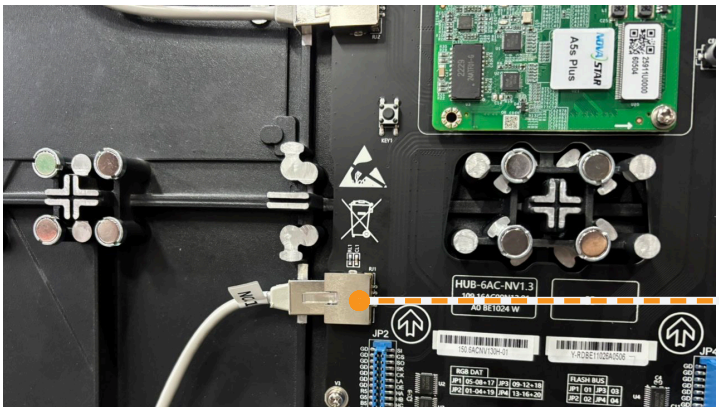
6mm hexagon wrench/Ratchet Hex Key Wrench

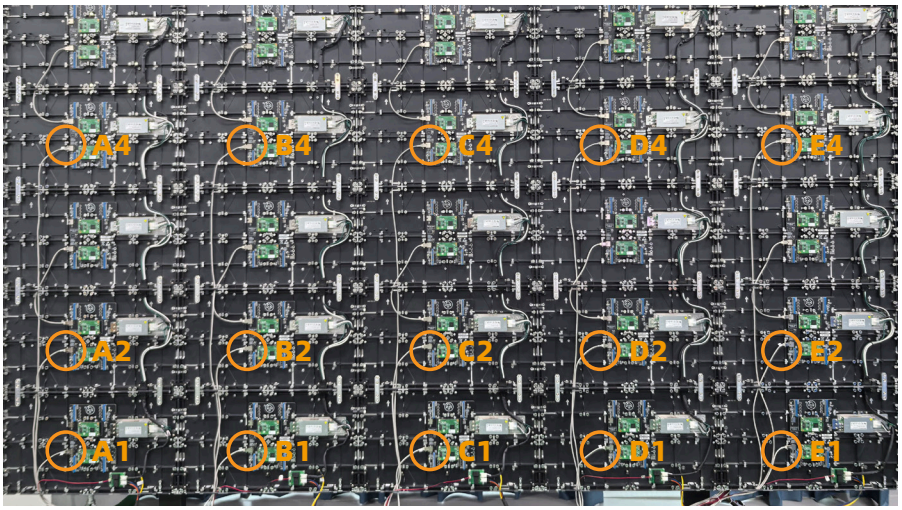


6 Connect the cables

The cables inside each individual cabinet are pre-connected at the factory. You only need to connect the cables left outside in sequence to the cabinets.

Step 1. Single-Column cabinets require three network cables to be connected, with the cable numbers corresponding one-to-one with the cabinet numbers.
Network cable A1, A2, A4 connect to cabinet A1, A2, A4;
Network cable B1, B2, B4 connect to cabinet B1, B2, B4;
Network cable C1, C2, C4 connect to cabinet C1, C2, C4;
Network cable D1, D2, D4 connect to cabinet D1, D2, D4;
Network cable E1, E2, E4 connect to cabinet E1, E2, E4.

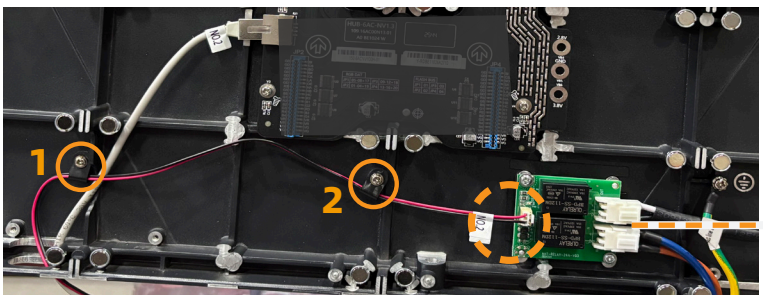




Step 2. Connect the relay wires, numbered No. 1-5, to the connectors of the E1-A1 cabinet in sequence.

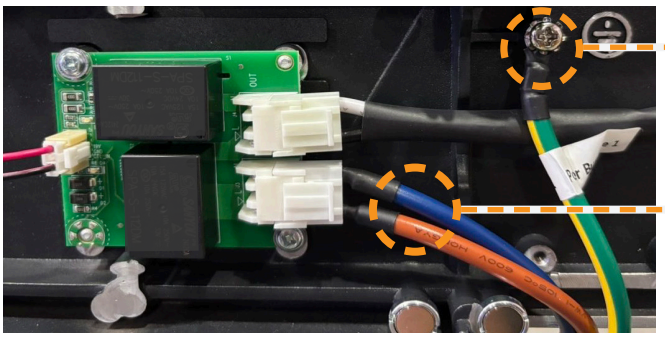
Relay wires No. 1 connects to Column E1; Relay wires No. 2 connects to Column D1; Relay wires No. 3 connects to Column C1; Relay wires No. 4 connects to Column B1; Relay wires No. 5 connects to Column A1.

Notes: Loosen the screws at positions 1 and 2, thread the relay wires through the cable ties, then tighten the screws.



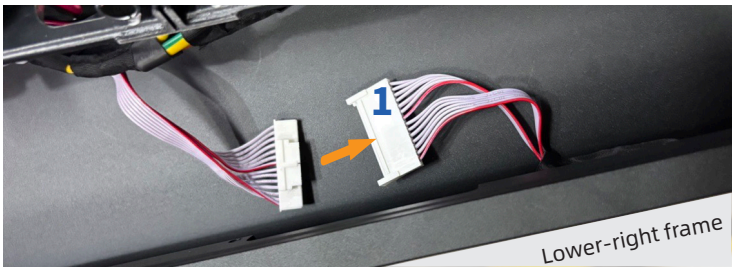
Step 3. Connect the power lines, numbered Line 1-5, to the E1-A1 cabinet in sequence:

- Connecting the brown and blue wires to the terminal;
- Connecting the yellow-green ground wire to the ground of the cabinet



7 Assemble the lower frame

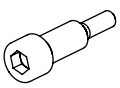
Access the cable and then stuff all the cables into the lower frame, do not jam or pinch the cables.



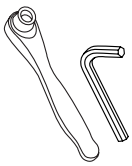
When installing the lower frame, first manually push the cable toward the upper part of the lower frame, then pre-tension the lower frame. If the cable becomes pinched, use a wrench to push it upward into the interior of the lower frame.

Secure the lower frame using A6 Hexagon socket bolts from top to bottom. Secure the lower-right frame first, then the lower-left frame, ensuring that the installation is flush.

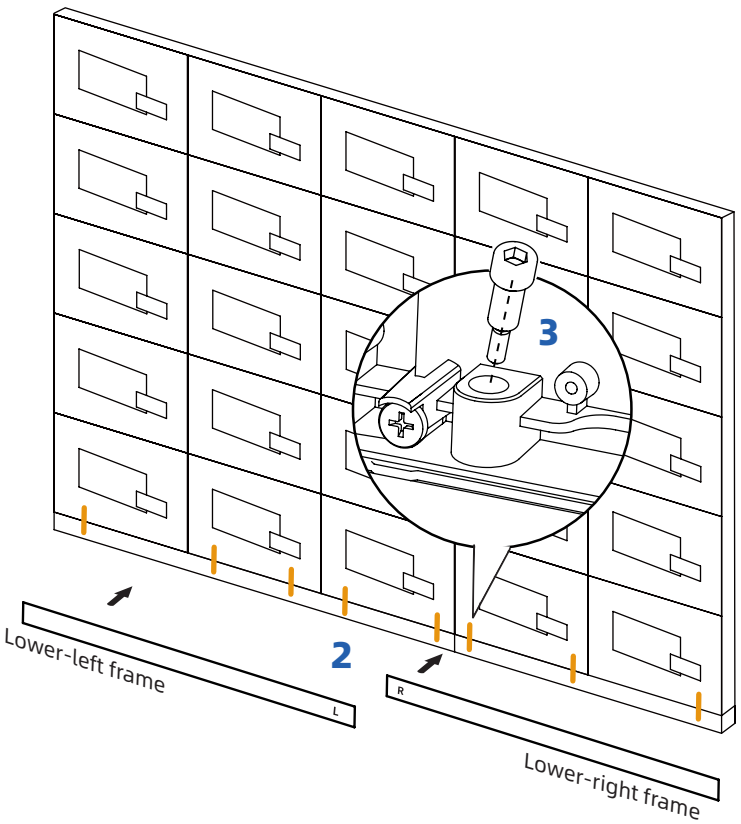
Notes: After installing the lower frame, please verify that the network cables along the A1–E1 row at the bottom of the cabinets are securely connected. Ensure all connections are stable to prevent communication issues or interruptions during use.



A6 x8

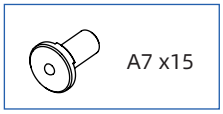


4mm hexagon wrench/Ratchet Hex Key Wrench

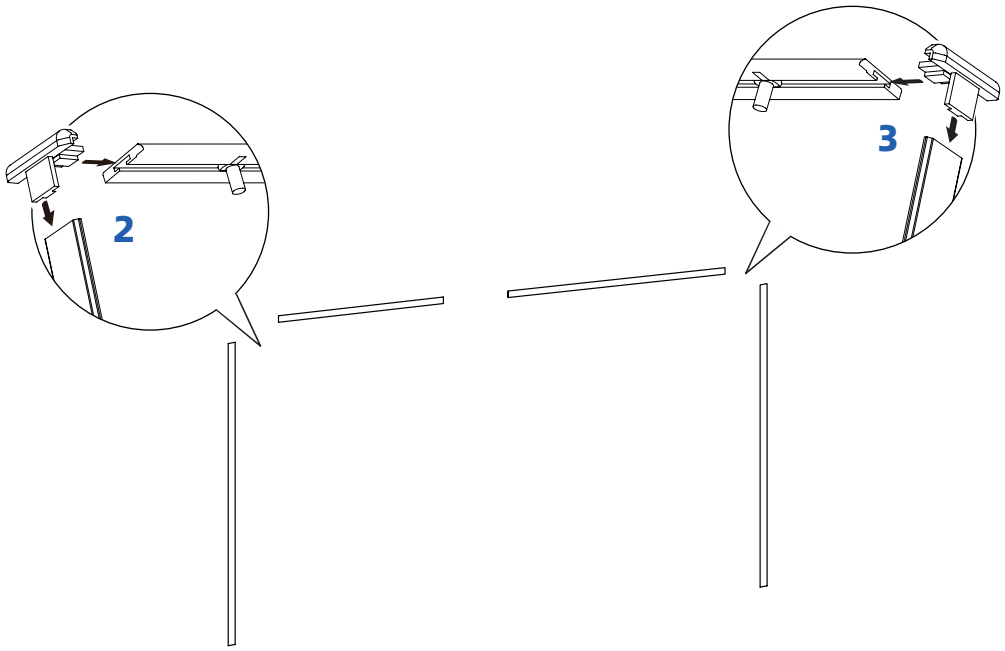


8 Frame Pre-treatment

- Insert one **A7 ball plunger** into the slot on the inside edge of each frame.
- Position the ball plunger near the **screw hole markings**, as indicated by the orange lines in the diagram.
- Repeat this step for **all frames** shown.

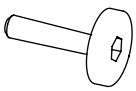


Next, insert the corner covers into the left side of the upper left frame and the right side of the upper right frame, as indicated by the figure.

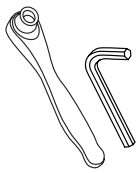


9 Install the Frame

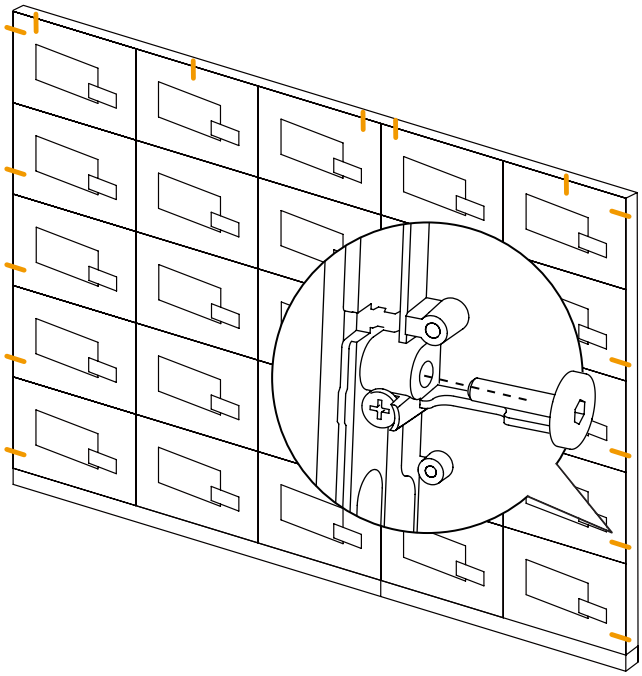
- Begin with the **left and right frame sections.**
  Adjust the position of each **ball plunger** and push the frame into the cabinet until it fits securely.
- Next, position the **top frame** and press the **corner covers** into the slots on the side frames.
- Finally, from inside the cabinet, secure the **left, right**, and **top frames** using **A8 hex socket bolts**, tightening outward with a **6mm hex wrench or ratchet.**



A8 x15



6mm hexagon wrench/Ratchet Hex Key Wrench



10 LED Panel Installation

Install the LED panels on the cabinet according to the module number diagram and the corresponding numbers on the cabinet, ensuring that the surface is flat and the gaps are minimal.

🕮 Notes

Before installing the LED panel, please check whether the cables in each cabinet are fixed in the clips to ensure that the LED panel is installed smoothly.

Explanation of LED Panel Module Numbering:

- The first character (X) represents the sequence number of the complete screen in the batch work order.
- The second character (A, B, C, D, E) represents the column number.
- The third character (1, 2, 3, 4, 5) represents the row number.
- The fourth character (1, 2, 3, 4) represents the LED panel number.

The labels on the packaging of each set of four LED panel modules should match the labels on the individual cabinets. The labels on the packaging for each column of LED panels should correspond to the column numbers: XA, XB, XC, etc.

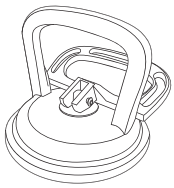
LED Panel Module Number

A		B		C		D		E	
XA5-3	XA5-4	XB5-3	XB5-4	XC5-3	XC5-4	XD5-3	XD5-4	XE5-3	XE5-4
XA5-1	XA5-2	XB5-1	XB5-2	XC5-1	XC5-2	XD5-1	XD5-2	XE5-1	XE5-2
XA4-3	XA4-4	XB4-3	XB4-4	XC4-3	XC4-4	XD4-3	XD4-4	XE4-3	XE4-4
XA4-1	XA4-2	XB4-1	XB4-2	XC4-1	XC4-2	XD4-1	XD4-2	XE4-1	XE4-2
XA3-3	XA3-4	XB3-3	XB3-4	XC3-3	XC3-4	XD3-3	XD3-4	XE3-3	XE3-4
XA3-1	XA3-2	XB3-1	XB3-2	XC3-1	XC3-2	XD3-1	XD3-2	XE3-1	XE3-2
XA2-3	XA2-4	XB2-3	XB2-4	XC2-3	XC2-4	XD2-3	XD2-4	XE2-3	XE2-4
XA2-1	XA2-2	XB2-1	XB2-2	XC2-1	XC2-2	XD2-1	XD2-2	XE2-1	XE2-2
XA1-3	XA1-4	XB1-3	XB1-4	XC1-3	XC1-4	XD1-3	XD1-4	XE1-3	XE1-4
XA1-1	XA1-2	XB1-1	XB1-2	XC1-1	XC1-2	XD1-1	XD1-2	XE1-1	XE1-2

🕮 Notes

After the installation of the LED Panel, if there is a gap or segment difference, you can adjust the screws on the cabinet (corresponding position) to adjust the height of the LED Panel.

11 LED Display Panel Maintenance



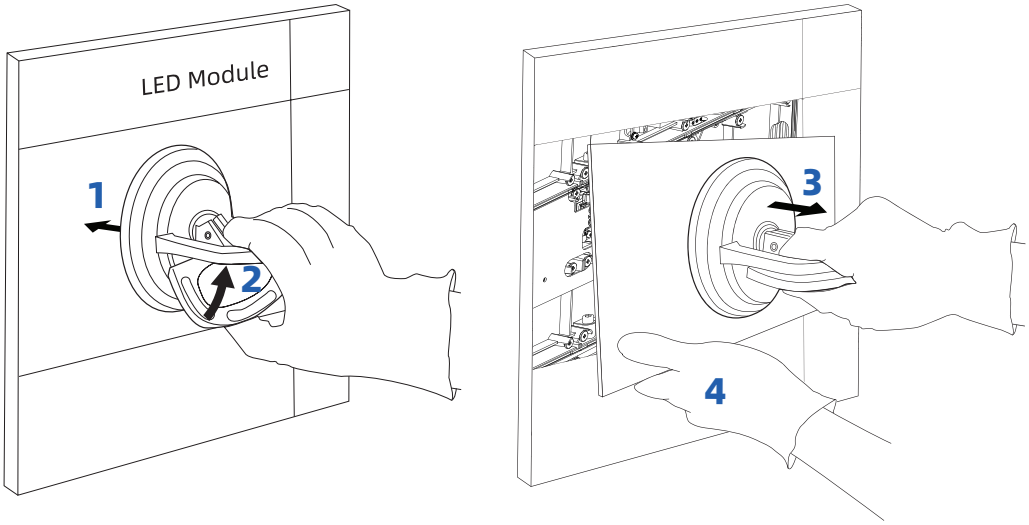
- This product supports front LED panel maintenance. The tool required for front maintenance is a suction cup, as shown below:

- The front maintenance process as follows:

Step 1: Place the suction cup on the surface of the LED panel(Turn off the power supply for the LED display first);

Step 2: Pull up the handle, make sure the light board is sucked by the suction cup;

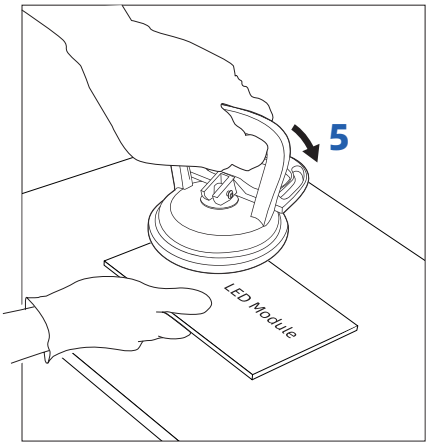
Step 3: Pull out the suction cup towards you. Protect the light board with your other hand.



Notes: Make sure that the module does not touch the adjacent modules when pulling out, so as to avoid collision and damage to the other modules or LEDs.

Step 4: Move the LED module to a safe place, and ensure that it is placed on the original foam pads or another soft, flat surface to prevent scratches or other damage to the module or the LEDs.

Step 5: Pull the handle on the suction cup down to release the LED Module.



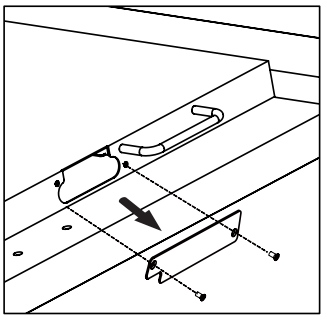
2.2.3 Installing the Wi-Fi Module

CAUTION

Wi-Fi Module does not support hot plugging. Therefore, you must insert or remove the Wi-Fi Module when the display is powered off. Otherwise, the LED display or Wi-Fi Module may be damaged.

Perform the following steps to install the Wi-Fi Module.

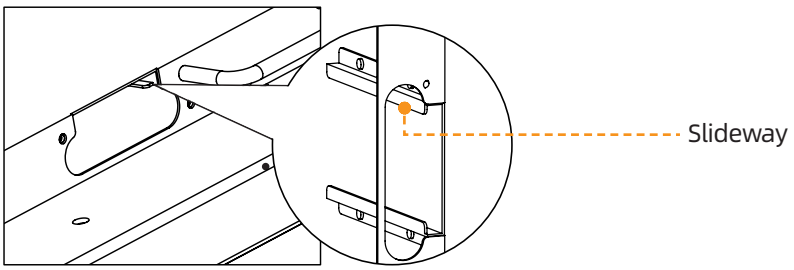
Step 1: Unscrew the 2 screws on the Wi-Fi Module port and remove the shielding cover.

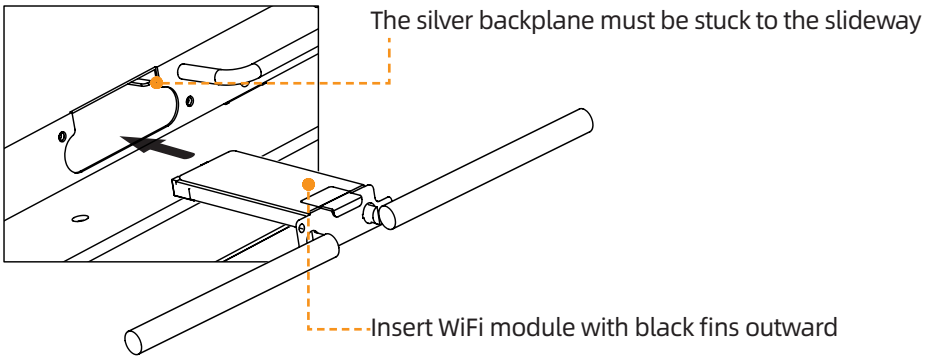


Step 2: Insert the Wi-Fi module into the port on the rear of the LED display, aligning it with the slideway.

☒ Ensure the silver backplate is fully seated in the slideway.

- The black fins of the Wi-Fi module should face outward.
- Once aligned and firmly seated, secure the module using the two screws provided.



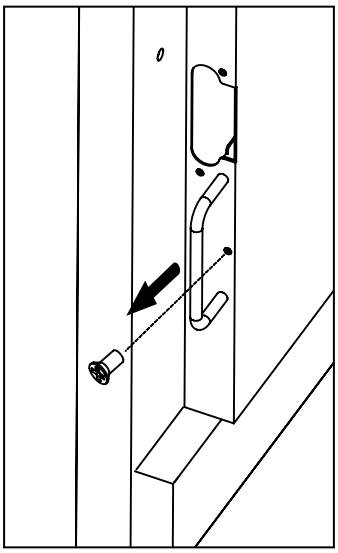


2.2.4 Pull-out drawer maintenance

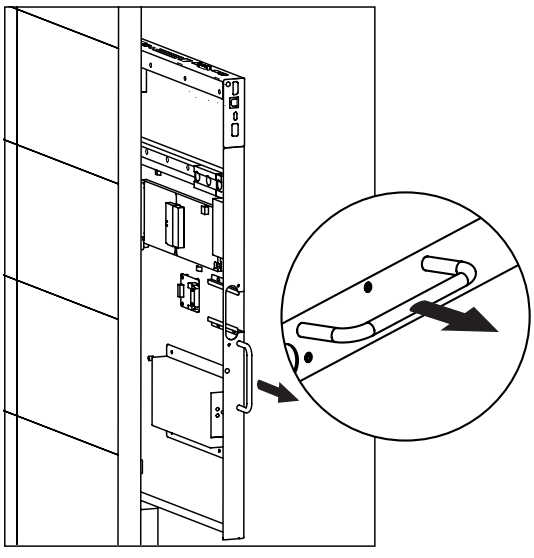
CAUTION

Unless there is a motherboard problem that makes the machine unusable, it is not recommended to pull out the pull-out drawer without permission to avoid damage to the core original parts affecting the use of the whole machine.

Step 1: Unscrew the screws on the pull-out drawer;



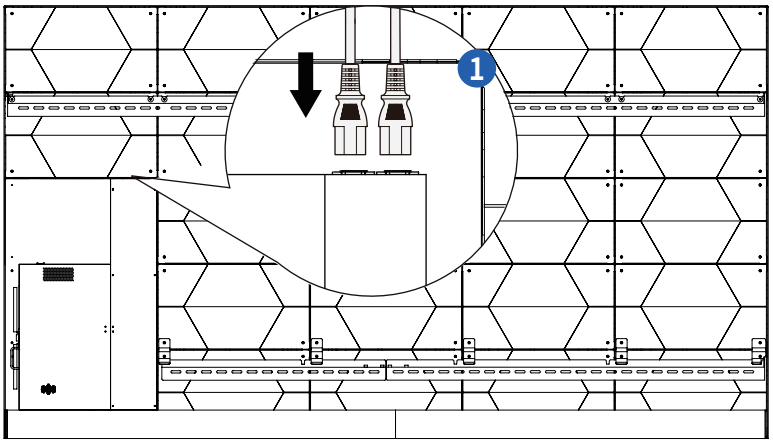
Step 2: Pull the handle to pull out the pull-out drawer.



3 Power On/Off

3.1 Power On

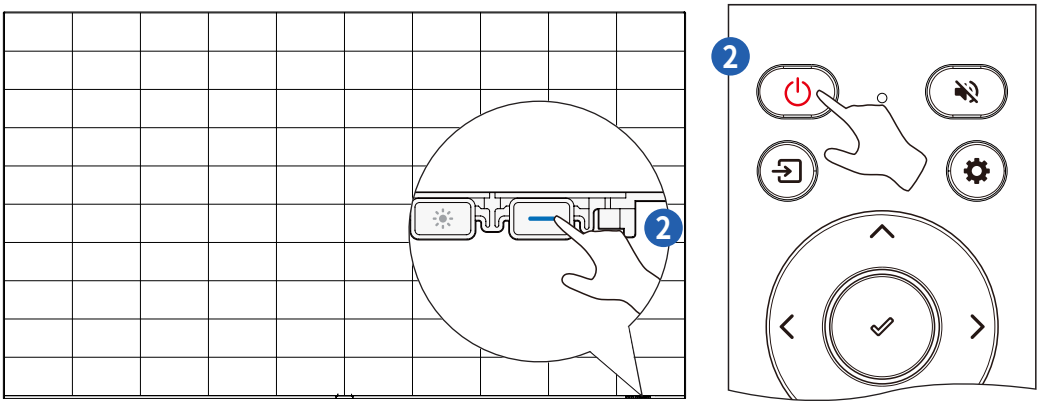
1 Ensure the two power cables are fully seated into the LED display and wall outlet before powering on the LED display.



Notes

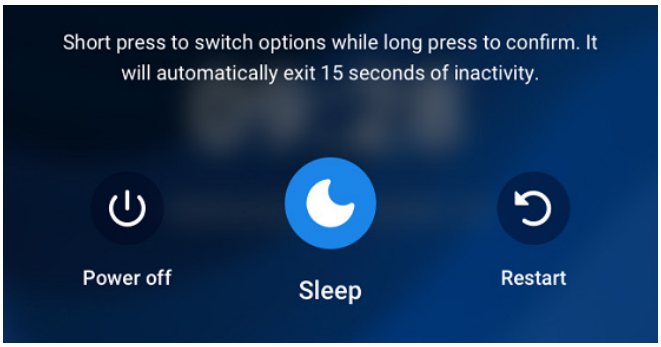
The power outlet should be installed near the LED display and should be easily accessible.

2 Press the power button on the front panel or on the remote control.



3.2 Power Off

1 Press the power button on the front display or the power button on the remote control and a **Warning** dialog box will be displayed as shown in the following figure.



2 In the **Warning** dialog box, use the remote control to select **Power off** to turn off the display, and the power indicator will turn to red. Tap the power button to switch the icon, long press the power button for 3 seconds to confirm the selection.

3 If you want to completely turn off the LED display, unplug the two power cords.

Notes

- Please properly shut down the LED display before disconnecting the power source or it may cause damage. Accidental power failure may cause damage to the LED display.
- Do not touch the power cord plug immediately after unplugging it.

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INDIA
Hotline: 1800-419-0309
Email: info.in@newline-interactive.com

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