



POSTAR-L

User Manual

v1.1

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1. Safety warnings

This manual systematically introduces the product components, interfaces, specifications, etc., as well as operating instructions for installation, functions, use, etc., designed to enable you to understand and use the product quickly and efficiently;

Be sure to read this manual thoroughly before using this product.

<p style="text-align: center;">Warning</p>

<p>It is a Class A product that may cause radio interference in living environment.</p>

There is a high possibility that the device will be damaged and cannot be recovered due to ignoring the warning.

- 1) Do not invert or throw the device during handling and storage;
- 2) Do not tilt and collide the device during installation to avoid scratches;
- 3) Do not drench or soak the device;
- 4) Do not close the air outlet of the air conditioner to the display;
- 5) Do not place or use the display in the environment with volatile, corrosive and flammable chemicals;
- 6) Do not use the product at the humidity above 80% or in outdoor rainy environment;
- 7) Do not use water or chemical solvents to clean display device;
- 8) Do not use electrical accessories not certified by the device manufacturer;
- 9) Ensure that the display and auxiliary equipment are correctly and reliably grounded before use;
- 10) In case of abnormalities, such as peculiar smell, smoke, electric leakage and abnormal temperature, please cut off the power supply immediately, and then contact professional;
- 11) Connect to a 100 ~ 240V AC power supply;

◆ **Caution!**

The probability of not getting the best display due to ignoring the precautions is extremely high.

- 1) Wear anti-static gloves and anti-static wrist strap when installing and repairing the product;
- 2) Good ventilation on the back of the display must be considered when designing the cooling solution;
- 3) The storage environment of the display shall be ventilated and dry, and the humidity shall not exceed 85%;
- 4) Under normal circumstances, it must be ensured that the display is powered on at least twice a week, and each light-up time is not less than 2 hours;
- 5) If the display is installed in the seaside, saline areas, the areas with sulfurized gases, near the fume exhaust in kitchen, and the indoor and outdoor sites with large temperature difference, it may cause equipment failure and affect the service life. If it is unavoidable, please consult our professional and technical personnel;
- 6) This product is only suitable for safe use at altitudes below 5000m.

◆ **Onsite service requirements for service provider!**

- 1) Before going to the site, contact the customer in advance to confirm the on-site installation environment and communicate with the customer about the specific installation time;
- 2) According to the on-site installation situation, it is necessary to carry installation tools for drilling and flaring, and spirit level. In case of special requirements, it may be necessary to additionally carry such equipment as self-tapping screws and cutting machines;
- 3) It is necessary to arrive at the customer's site on time according to the time scheduled. In case of not arriving on time for special reasons, it is needed to communicate with the customer in advance to explain the reasons;
- 4) Before installation, the goods shall be checked according to the packing list attached with the goods. In case of wrong delivery, omission or damage of goods, photos shall be taken in time and communication shall be made with the agent and manufacturer for handling;
- 5) When installing the product, keep hands clean and wear anti-static gloves;
- 6) Installation must be carried out according to the marked cabinet number and the serial number of the LED panel;
- 7) During installation, attention shall be paid to the flatness and gap between the cabinet and the LED panel, and adjust it in time to avoid rework;
- 8) Check the status of the whole screen after the product is lit up to ensure the best display effect;
- 9) Provide unified training guidelines for customers to let them understand product functions and how to use them;
- 10) When the installation for a project is completed, fill in the record form required to be filled in on site, and take photos for record.

2. Product Introduction

2.1 Product application

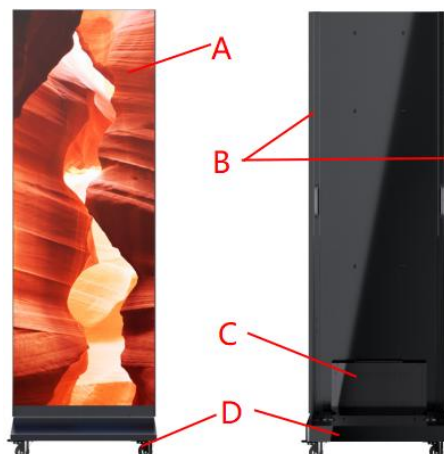
This product can be widely used in retail stores, hotels, restaurants, shopping malls, banks, companies, hospitals, schools, airports, subway stations and other places, to express the display content efficiently.

2.2 Product features

- Frame-free installation, highly integrated display device, plug and play
- 2-in-1 integrated circuit board design reduces internal wiring and improves reliability
- Full front maintenance, hot-swappable
- Flexible movement of single floor display, seamless splicing of multiple displays
- Support multi-screen play sync mechanism, available with sync and async modes, meeting all kinds of play needs
- Sync mode uses 1 HDMI 1.4 input interface, supporting full-screen adaptive play
- Support multiple interface control connections and multi-directional control plan including PC, mobile phone and Pad
- Powerful processing performance, excellent play performance

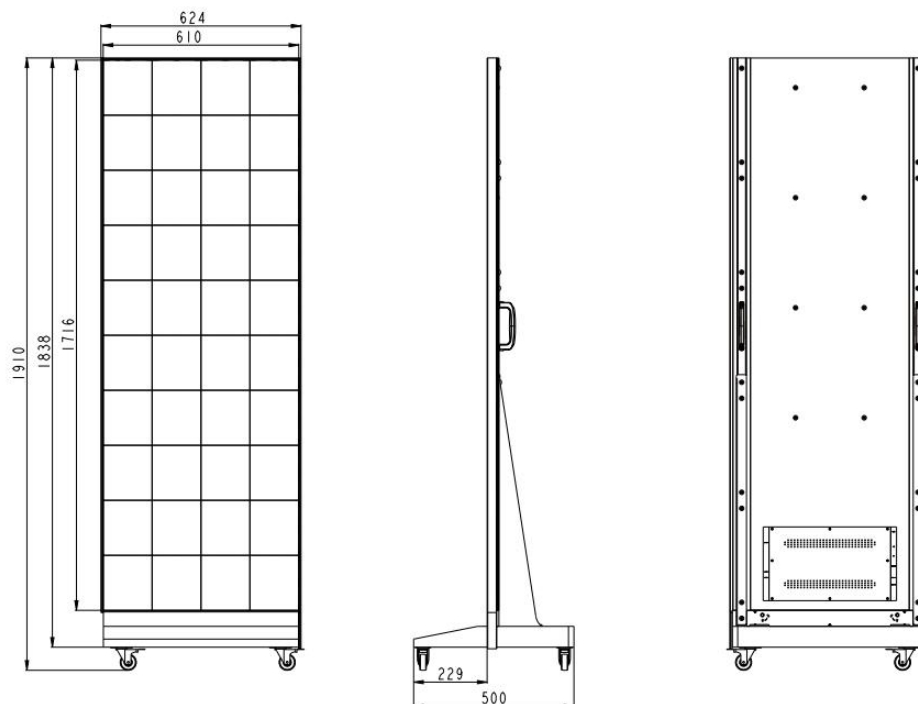
2.3 Product composition

H27 Pro series intelligent HD LED Postar display is composed of 5 LED display cabinets, floor-mount component, control box, etc. The detailed components are shown in the figure below:




Mark No.	Name	Composition
A	LED display cabinet	There are 5 cabinets in total, which are spliced and distributed in 1 row and 5 columns
B	Frame assembly	Composed of an upper frame, a lower frame, a left frame and a right frame
C	Control box	Include control card, power supply, filter and other components
D	Floor-mount assembly	Base and 4 casters

2.4 Product dimension



2.5 Description of control box interfaces



1	SWITCH: Sync and async modes switching button. Always on: Sync mode. Off: Async mode	2	ON/OFF: Power switch	3	POWER: Power input interface
4	WiFi: WiFi antenna interface, WiFi AP and WiFi STA can be switched	5	 Audio output	6	USB: USB interface
7	ETHERNET: The gigabit Ethernet port directly connects the upper computer to the device, or connects the device to the LAN or WAN for program release and display screen control	8	HDMI input: HDMI 1.4 input interface, input HDMI video source in sync mode. For sync mode, the user can enable full screen zoom to adapt the picture to the size of the display. Requirements for full-screen zoom in sync mode: $64 \text{ pixels} \leq \text{video source width} \leq 2048 \text{ pixels}$. Only zoom-out is supported, not zoom-in.	9	HDMI output: HDMI 1.4 output interface, support HDMI Loop.

2.6 Specifications

Parameters	POSTAR-15	POSTAR-19
Spacing (mm)	1.5	1.9
Brightness (cd/m ²)	800	800
Refresh Rate (Hz)	3840	3840
Power Consumption (Max/Avg) (W)	450/160	425/142
Whole Screen Resolution (px)	384*1080	240*675
Display Size (mm)	610*1716	610*1716
Whole Screen Size (mm) (with base)	624*1910	624*1910
Weight (kg/screen body) (with base)	55	55
Working Voltage (V)	AC100~AC240	AC100~AC240
Degree of Protection	IP30	IP30
Operating Temperature (°C)	-10~+40	-10~+40
Operating Humidity (RH)	10%~80%	10%~80%
* Note: The parameters are for reference only. No further notice will be given if there is any change.		

3. Receiving and Start-up

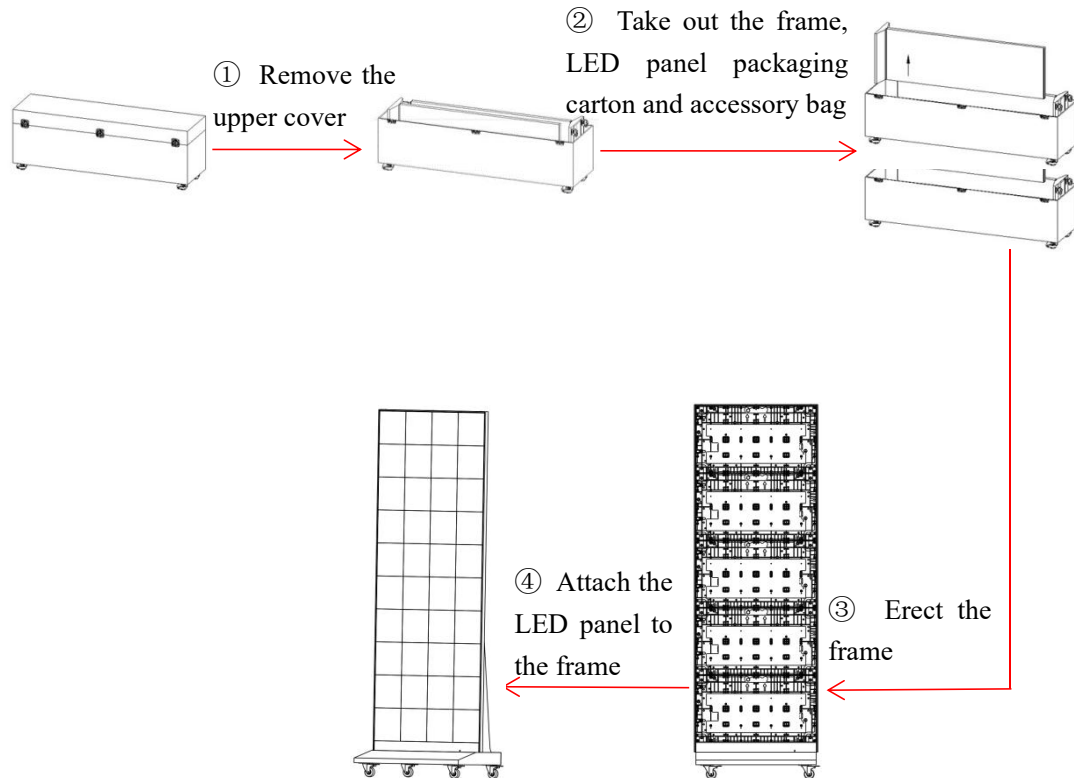
3.1 Receiving

3.1.1 Packaging description

The LED Postar display is available with: wooden box packaging and flight case packaging. Each wooden box is packed with 2 LED Postar displays (including base and casters), with dimensions of 2190mm * 675mm * 845mm and weight of 240kg; each wooden box is packed with 2 LED Postar displays (hanging/hoisting), with weight of 200KG; each flight case is packed with 2 LED Postar displays (including base and casters), with dimensions of 2130mm*615mm*755mm and weight of 240kg; each flight case is packed with 2 LED Postar displays (hanging/hoisting), with weight of 200kg.

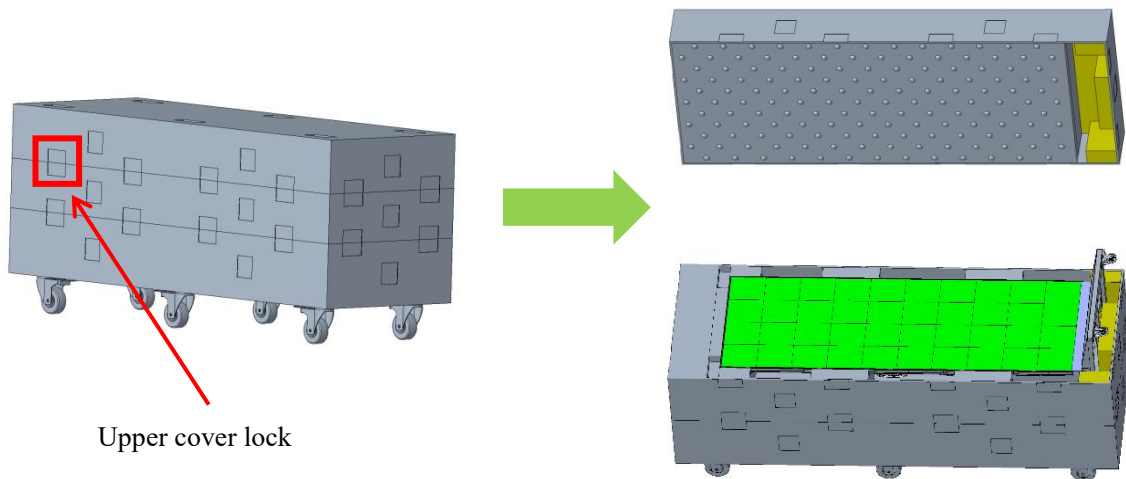
3.1.2 Unpacking instructions

3.1.2.1 Unpacking instructions for wooden boxes and standard flight cases

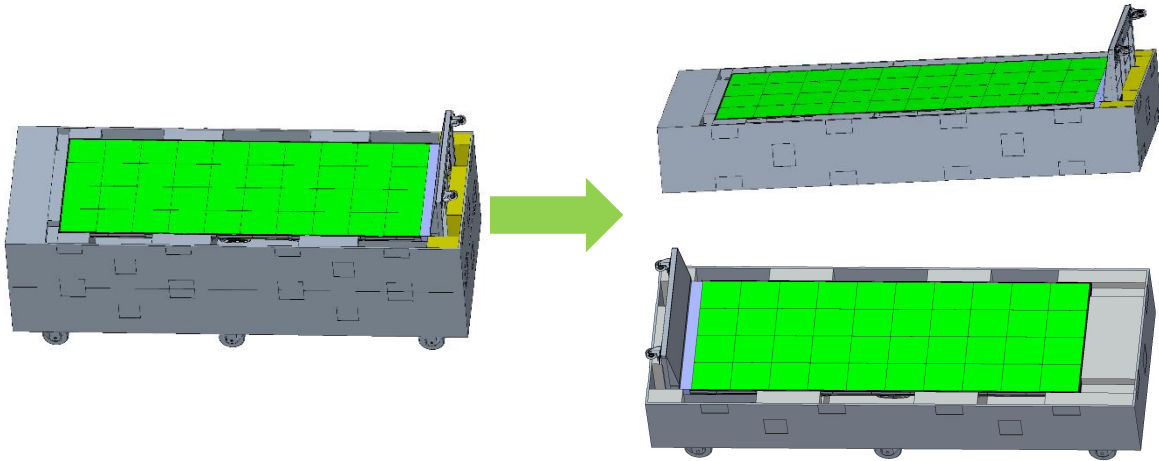


3.1.2.2 Unpacking instructions for flight cases with screens

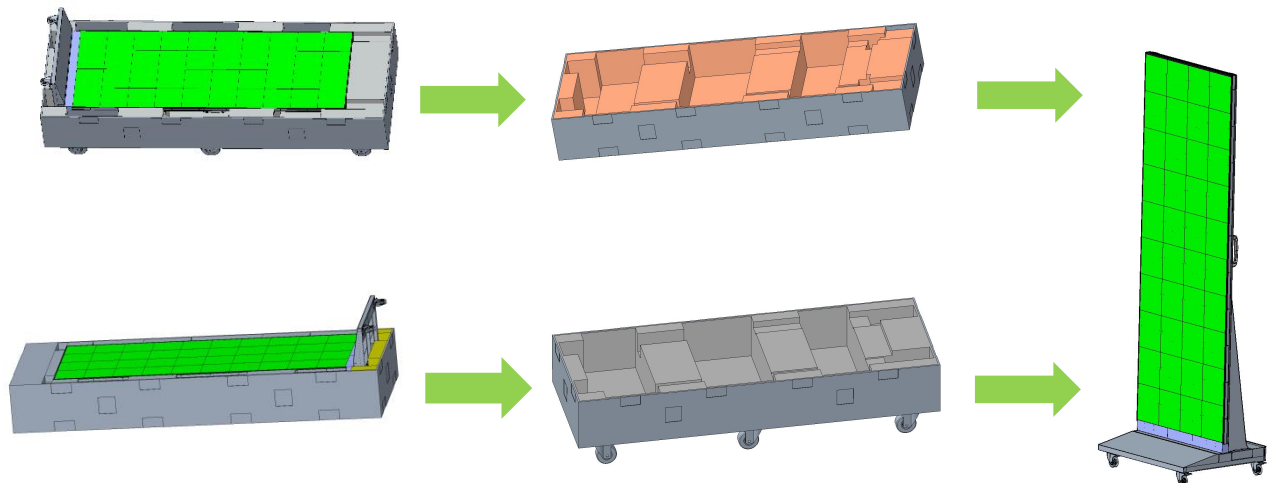
Step 1: Unlock the upper cover lock and remove the upper cover



Step 2: Unlock the middle layer case lock and remove the middle layer flight case and the Postar display



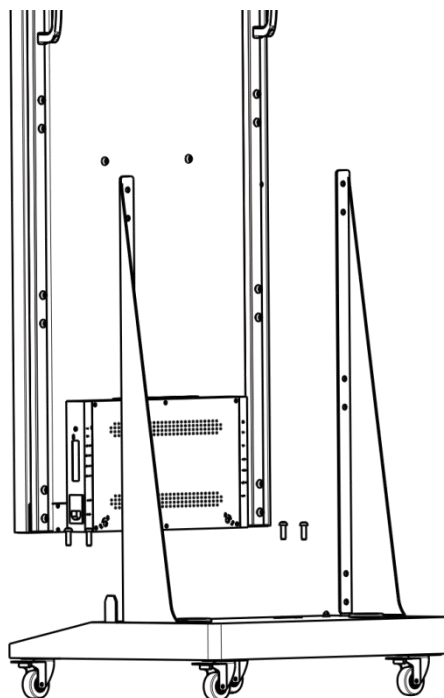
Step 3: Remove the Postar display separately









3.1.3 Base removal instructions

Tool: T-wrench

- (1) Loosen the two side locks connecting the base and the screen body with a T-wrench;
- (2) Remove the 10 screws connecting the left and right diagonal braces and the screen body with a T-wrench;
- (3) Install the removed 10 screws back to the screen body with a T-wrench;
- (4) Separate the screen body from the base, as shown in the figure below:



3.1.4 List of standard spare parts

	Modules 2 Pcs		Bridge board + receiver card 1 Pcs		USB flash drive 1 Pcs
	Gloves 2 Pcs		Front maintenance tool 1 Pcs		Mains supply cord 2 Pcs

Note: The front maintenance tool is configured according to the differences in the LED panel process. For standard SMD LED panels, a magnetic suction tool is used, as shown in the table above. For the customized GOB LED panels, a pneumatic suction tool is used, as shown in the

diagram:



3.2 LED panel installation instructions

Note: ① For LED Postar display with 1.9mm spacing, one cabinet consists of 8 small LED panels;

② For LED Postar display with 2.5mm spacing, one cabinet consists of 4 large LED panels;

③ The LED panels shall be installed according to the numbering sequence.

The following figure takes the small LED panel as an example, and the number is as shown in the figure below:



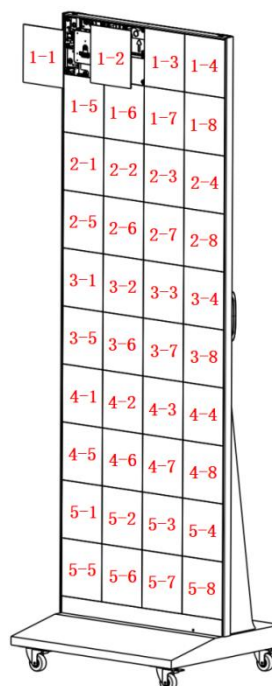
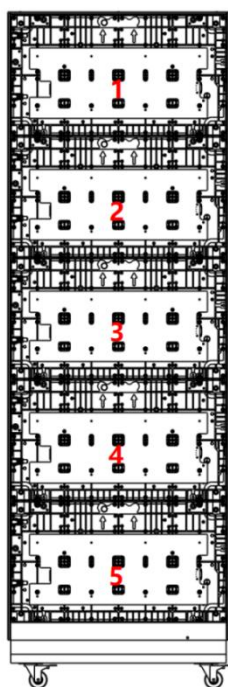
Cabinet No.

LED panel No.

1	2	3	4
5	6	7	8

Position of LED panel corresponding to the cabinet (Front view)

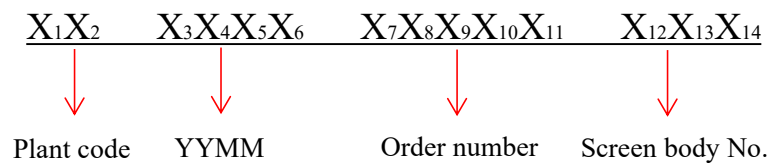
- 02 represents the second cabinet of the screen body, and 02-8 represents the No.8 LED panel of the second cabinet
- The LED panel size of the product: 152.5mm×171.5mm, and each cabinet consists of 8 LED panels;
- The LED panel number of the cabinet assembled by LED panels is: 1-8;
- The number position of each cabinet on the screen body is shown in the lower left figure:



- Anti-static gloves shall be worn during installation, and force shall be controlled, and forced insertion is not allowed;
 - In case of poor flatness or obvious joint during assembly, it is necessary to adjust and repair in time.
 - The LED panels can be installed from left to right, from right to left, from top to bottom or from bottom to top;
- ① Open the LED panel carton, open the LED panel vacuum bag, and take out the LED panel;
 - ② The LED panels shall be installed according to the numbering sequence, and shall be installed according to the arrow direction on the back of the panels;
 - ③ The LED panel positioning post and the bridge board positioning post shall be aligned and installed in sequence.

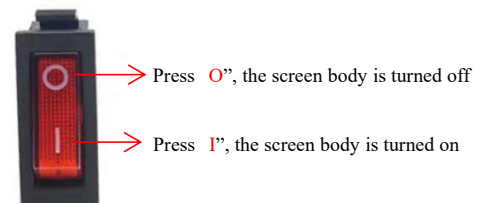
SN coding rules:

For example: SN: 50 2104 01007 801



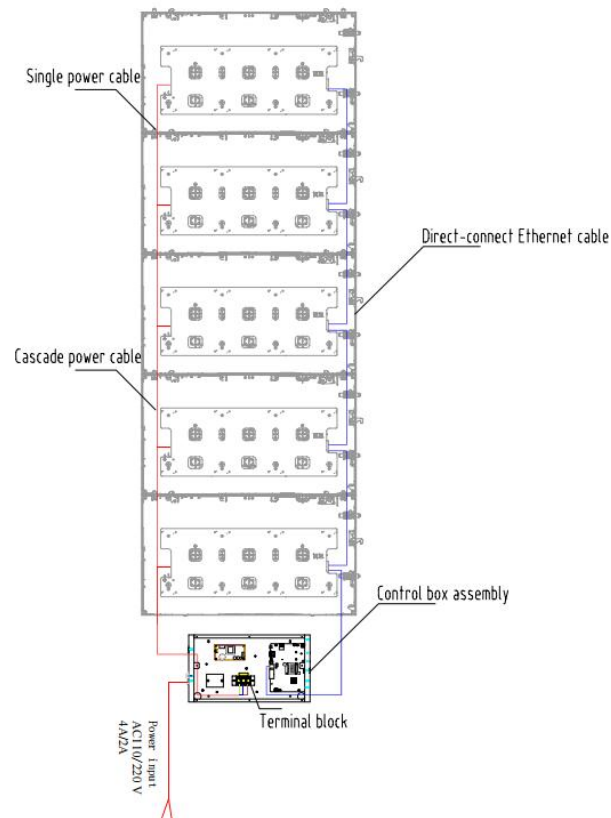
3.3 Connect and power on

- ① After taking out the screen body, connect the power cord and turn power on;
- ② Press the red switch button “I” to light up the screen body;
- ③ Prepare the required information and send to the LED Poster display.



4. Typical Application Description

4.1 Signal and power connections inside the screen body



Front view of signal cable and power cable connection

4.2 Installation methods of screen body

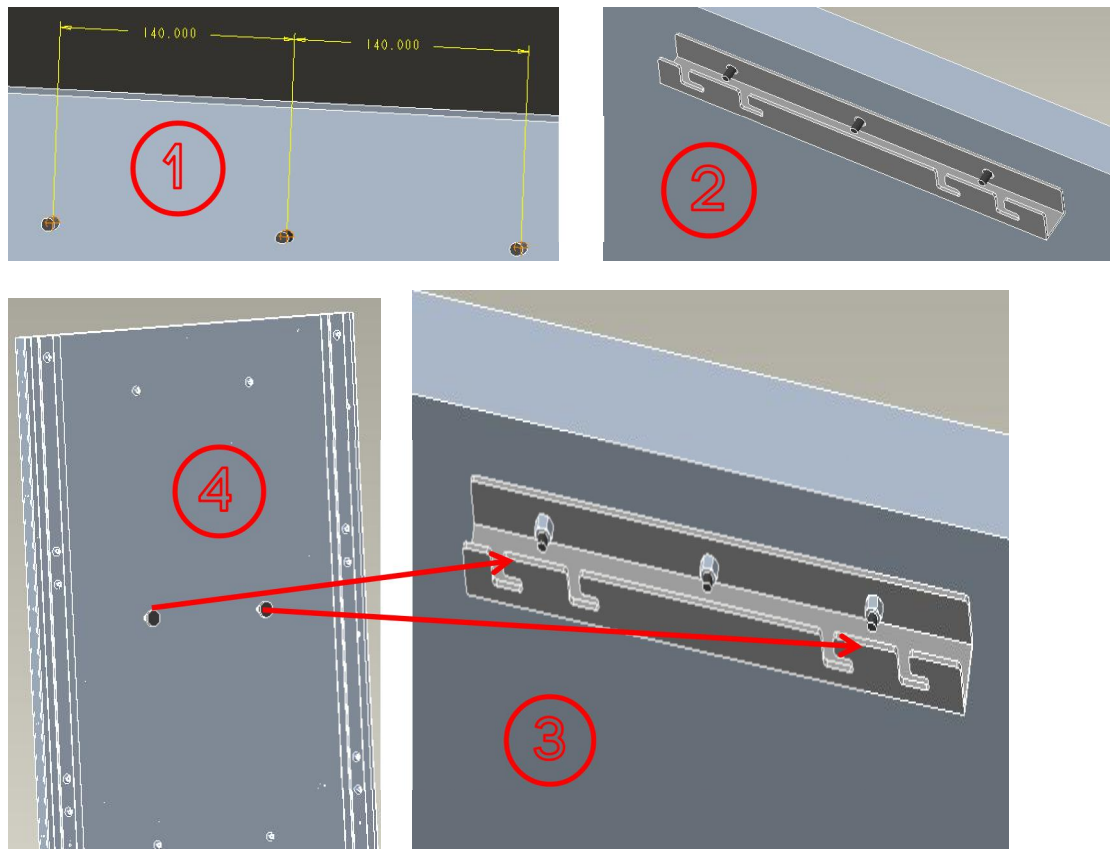
4.2.1 Floor mounting

- 1) Take out the floor-mount assembly and standard accessory package from the packing box for use;
- 2) Fix the safety rope on the screen body with M3X8 screws, and attach the LED panels;
- 3) The floor mounting is completed.

4.2.2 Wall mounting

- 1) Drill 3 holes in the target wall, 10 mm each in diameter, 140mm apart; refer to Figure 1
- 2) Install M8 expansion bolts with exposed stud length < 20 mm; refer to Figure 2
- 3) Install the wall mount and fix it with three M8 nuts; refer to Figure 3

- 4) Hang the screen body on the wall, and hang the hooks into the wall mount piece; refer to Figure 4
- 5) The wall mounting is completed.

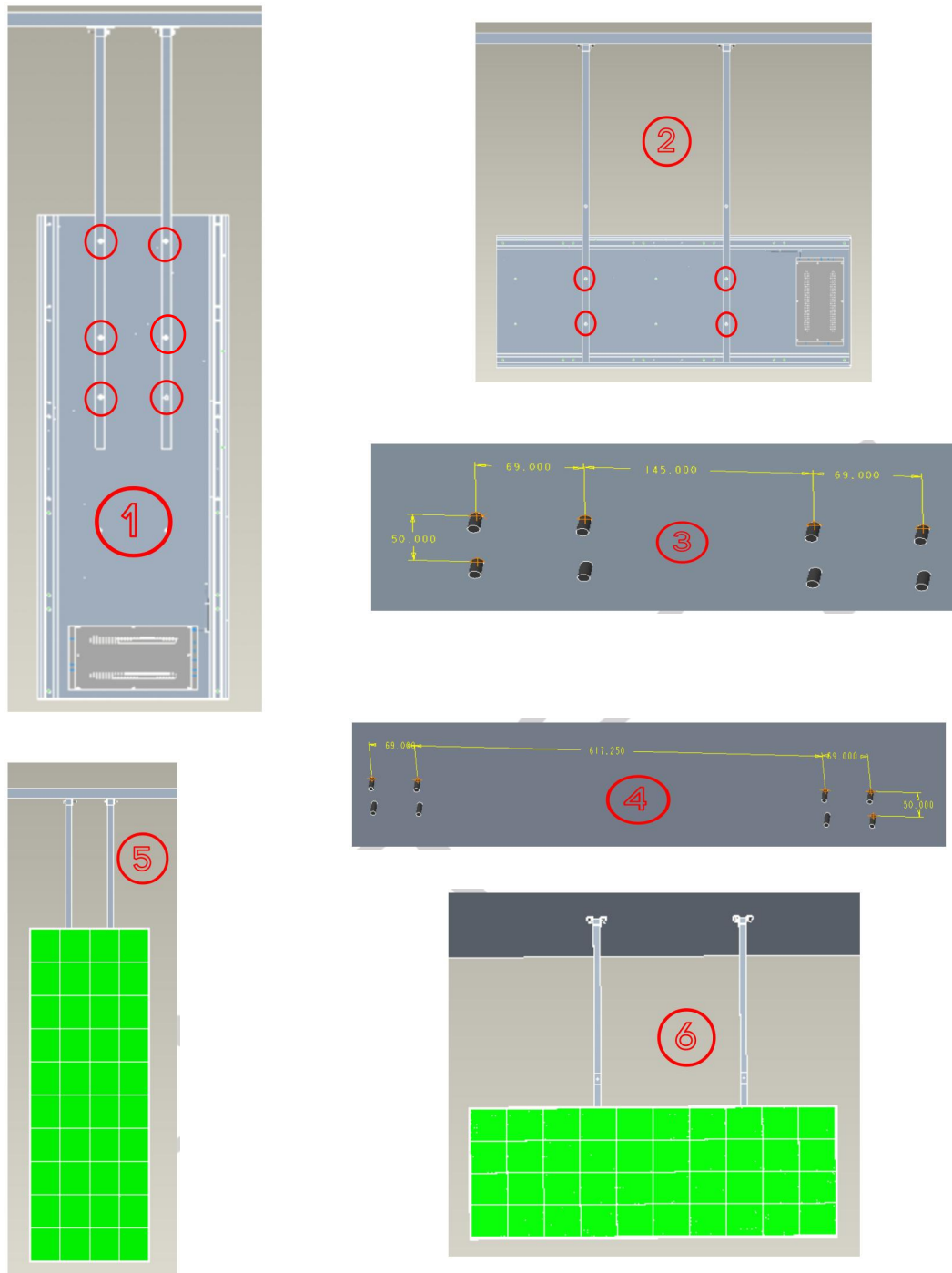


4.2.3 Ceil mounting

Ceil mounting is divided into vertical screen mounting and horizontal screen mounting

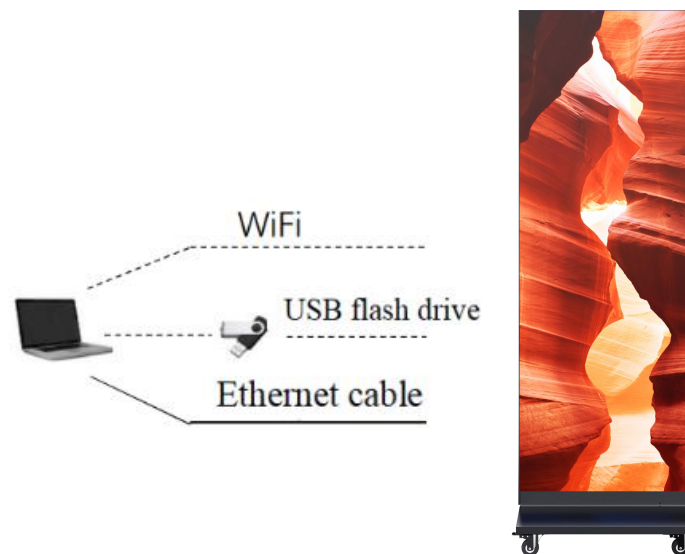
- 1) Take out the Postar display components and standard accessory package from the packing box for use
- 2) Fix the two mounting rods on the screen body with M8X25 screws respectively. Refer to Figure 1 for vertical screen mounting and Figure 2 for horizontal screen mounting
- 3) For vertical screen mounting, drill 8 holes in target wall, with 10mm each in diameter. Refer to Figure 3
- 4) For horizontal screen mounting, drill 8 holes in the target wall, with 10mm each in diameter. Refer to Figure 4
- 5) Install M8 expansion bolts with exposed stud length < 20 mm,
- 6) Install the mounting rods and fix them with 8 M8 nuts. Refer to Figure 5 for

vertical screen mounting and Figure 6 for horizontal screen mounting.



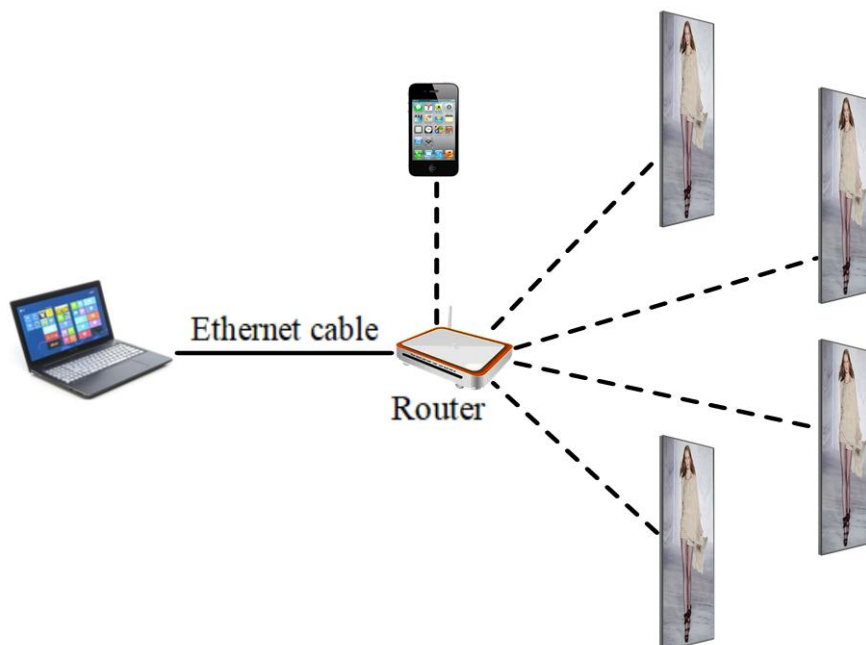
4.3 Play application

4.3.1 Release of materials on single display



Use the play management software to send program list to each screen player. The play program list can be imported by connecting to the PC via an Ethernet cable, and the program list can be sent to the Postar display for playing by means of USB flash drive, mobile terminal, etc.

4.3.2 Simultaneous release of materials on multiple displays



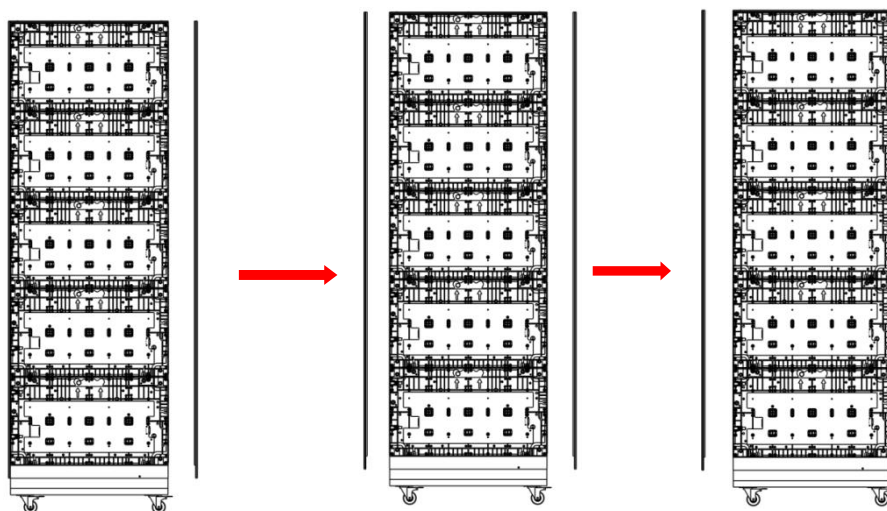
Note: Use the play management software to send program list to each screen player. Each Postar player plays independently, and each screen can be centrally controlled and managed through LAN or WAN.

4.4 Application for release by multiple displays cascaded

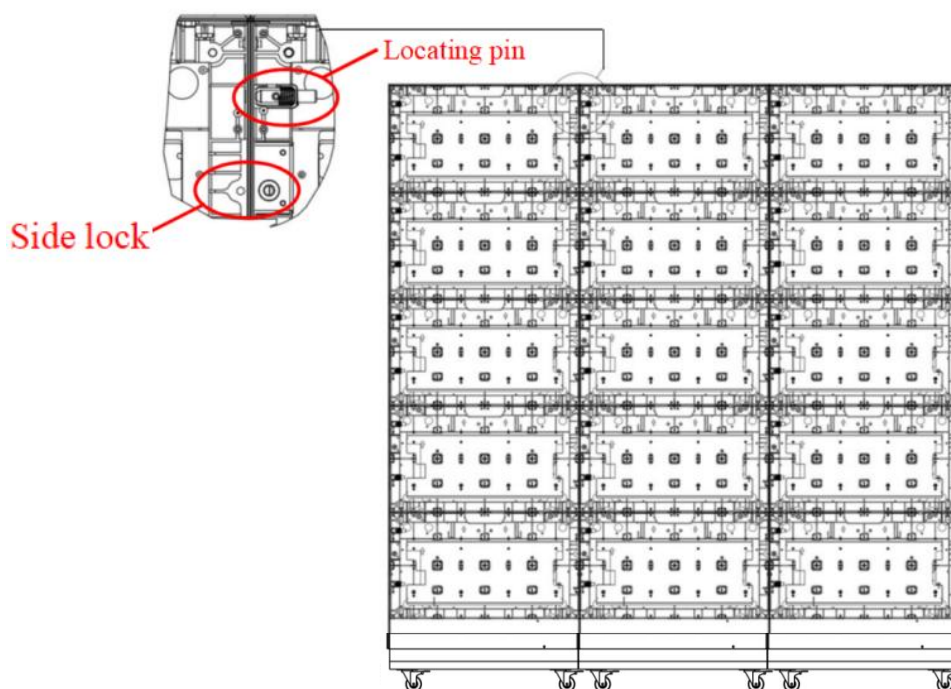
4.4.1 Splicing installation of multiple displays

Take the splicing of 3 LED Postar displays as an example for description. For the splicing method of more than 3 LED Postar displays, please refer to the following steps:

- ① According to the sequence shown in the figure below, open the frame fastener and remove the frame.
- ② Remarks: The removed frames shall be stored properly for future use.



- ③ Splice the three LED Postar displays with frames removed in sequence, insert locating pins to lock two adjacent cabinets, and fix the side locks with a hexagonal wrench;



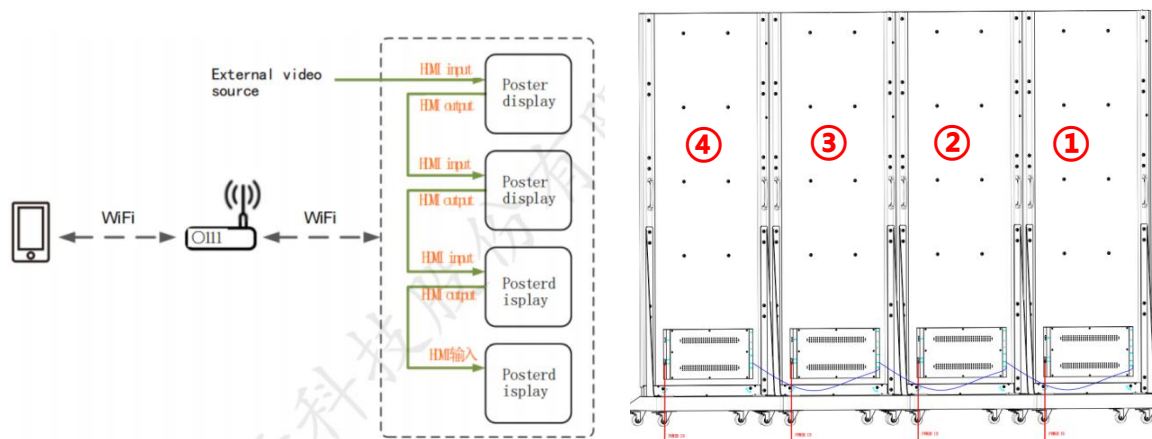
-
- ④ Refer to “3.2 LED panel Installation” to install all LED panels.

4.4.2 Connection for a cascaded system of multiple displays

1) Multiple displays cascaded

- ① The maximum splicing quantity of P-P1910-072 is 6.
- ② The maximum splicing quantity of P-P2542-072 is 8.

Display wizard software is installed on a PC or a mobile terminal, multiple Postar displays are cascaded through an HDMI interface, a video source only needs to be input into the Postar display at the starting position, and an internal source stored in the Postar display or an external video source can be used. Both the display wizard on mobile terminal and the display wizard on PC can be used to configure the splicing parameters, and it is relatively fast to use the display wizard on mobile terminal. The mobile phone installed with the display wizard can be directly connected to the WiFi AP of the Postar display or to the wireless LAN where the Postar display is located.



2) Display wizard parameter settings

➤ Precautions

The Postar displays involved in the splicing have the same specifications

Support for left-to-right or right-to-left splicing

Only the splicing parameters of the Postar display at starting position need be configured.

The device will automatically identify the video source, with no need for manual setup

The software will automatically set the picture offset according to the splicing parameters, with no need for manual setup


➤ Operation steps

Step 1: Open the display wizard on the mobile terminal and enter the local connection function interface.

Step 2: In the local device list, click “Connect” for the starting position device, enter the password, and click “OK”. The default password is 123456.

Step 3: After successful connection, click the device name to enter the “Device Management” interface.

Step 4: Select “Multi-screen Splicing”.

Step 5: Set the switch of “Multi-screen Splicing” to the  state, and set the relevant parameters according to the actual situation.

- “Splicing Direction”: the splicing direction of the Postar display, including “From left to right” and “From right to left” for choice.
- “Splicing Mode”: the splicing mode of the Postar display, including “By Quantity” and “By Width” for choice.
- “Splicing Quantity”: the number of displays involved in splicing. When the “Splicing Mode” is “By Quantity”, this parameter needs to be set, and the value cannot be greater than the rounded value of “Video Source Width/Postar Display Width with Load”.
- “Splicing Width”: the total width of the Postar display after splicing. This parameter needs to be set when the “Splicing Mode” is “By Width”.

Step 6: After setting up the parameters, click “Finish” in the upper right corner of the interface.

Note: The splicing direction of the display wizard shall be consistent with the connection direction of the HDMI cable on the screen body.

5. Introduction to functions of Postar display

5.1 Two operation modes:

- **Sync play**

The sync play refers to the local play. The display wizard plays the program on the mobile/PC side, and the display screen displays it synchronously in real time. It is applied to the scenario of sync play. When the play window is on the extended screen of the mobile phone/Pad/PC, you can use the screen monitoring function to view the current play status on the mobile phone/Pad/PC.

- **Async play**

The display wizard on PC desktop sends a program to the Postar display, and the Postar display stores the program locally and plays the program according to a play plan, which is applied to a scenario in which the Postar display carries loads of displays.

5.2 Two control modes:

5.2.1 Mobile terminal control

1) Software installation method:

Scan the QR code and download the Android and iOS display wizard files



2) Device control plan

Display wizard on mobile terminal supports two device control plans, LAN control and Internet control.

LAN control: Suitable for controlling devices connected via WiFi AP or LAN

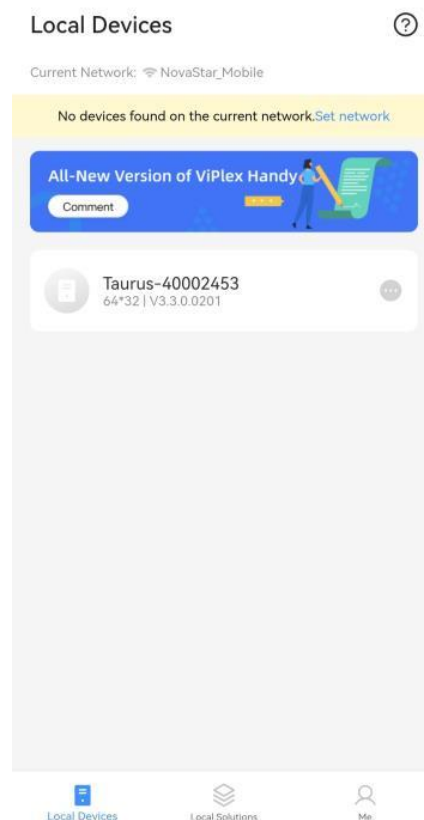
Internet control: Suitable for controlling devices connected to the Internet

3) LAN control

When the device is connected through WiFi AP or LAN, set the device control plan to “LAN control” to perform operations such as device control, program production and release:

● Operation steps

Step 1: Open the display wizard on mobile terminal



Step 2: Click “Set up network” to enter the WLAN connection interface of the mobile phone.

Click the “?” symbol on the top right corner of the interface to learn more about local

device connections.


Step 3: Connect the WiFi AP of the Postar display series products.


The default SSID is “AP + last 8 digits of SN” and the default password is “12345678”.



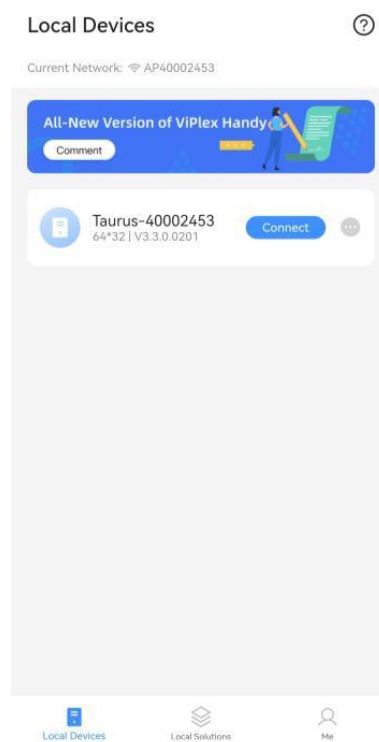
Step 4: Return to the display wizard on mobile terminal, refresh the device list, and perform corresponding operations according to the status of the Postar display.

The display wizard on mobile terminal can automatically detect the Postar display and refresh the device list. The user can also swipe down the list of devices to refresh manually.

 : indicates that the Postar display is offline and cannot be connected.

 : indicates that the Postar display is online and can be connected. Go to step

5



Step 5: Click “Connect” after the device name.

Step 6: Enter the password for the “admin” user (the default password is 123456) and click “OK”.

After the connection is successful, the display wizard on mobile terminal automatically saves the account information.

- Related operations

- After the connection is successful, if the password is verified as a weak password, the interface will bring up a prompt to change the password, and the following operations can be performed.

Click “Ignore This Time” to not change the password.

Click “Change Password” to change the device password and then the hotspot password.

- When the Postar display is online, click to perform the following operations:

“Go to Cloud”: Realize fast binding between the local device and the display wizard cloud. (This function is available only after the device has been successfully connected)

“Connect”: Click to connect to the Postar display directly.

“Clear Password”: Clear the device connection password automatically saved on the system. (This function is available only after the device has been successfully connected)

“Delete”: Delete the device from the list of “Local Device”.

- When the Postar display is connected, click to perform the following operations:

“Control”: Enter the “Device Management” interface. “Go to Cloud”: Realize fast binding between the local device and the display wizard cloud.

“New”: Exit the connected state.

“Rename”: Set the device name.

“Delete”: Delete the device from the list of “Local Device”.

Notes:

For the devices in the list of “Local Device”, “Go to Cloud” can be performed in three states: Offline, Online (the device has been successfully connected), and Connected.

When performing “Go to Cloud”, you need to ensure that the mobile phone accesses the public network first, and then register/log in display wizard on cloud according to the interface guide.

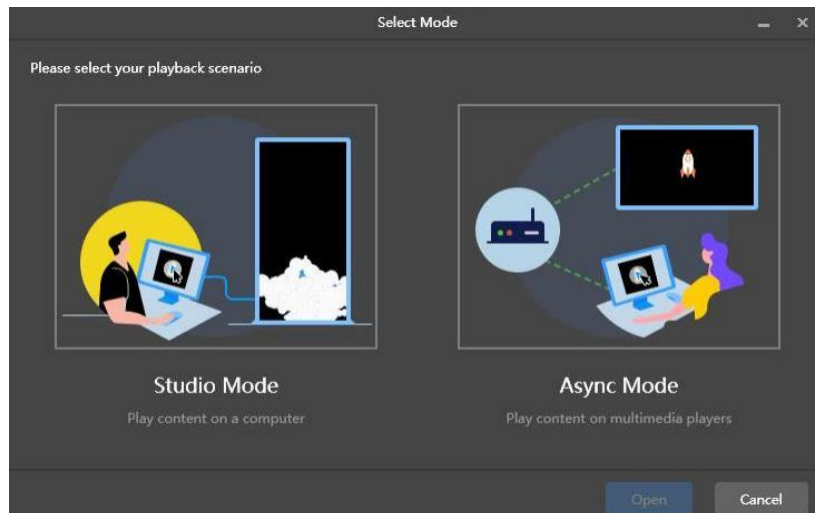
5.2.2 PC terminal control

1) Software installation method

Display wizard acquisition path: <https://www.pingjl.com/download>.


2) Select the operation mode

After the first installation of the display wizard on PC desktop, start the software, and the “Select Mode” dialog box pops up. Select “Async Play”, and click “Start Now”.



Other situations:

The dialog box in the figure above will not appear if the display wizard on PC desktop has been installed or the operation mode has been selected. After starting the software, if you enter the start page of the local play mode by default, please switch to the async play mode as described below:

On the top right of the interface, select “ > Operation Mode > Async Play” and click “OK”. After the software is restarted, the async play mode is entered.

● **Connect the display**

① Direct connection

❖ Direct connection by Ethernet cable

The PC installed with the display wizard is directly connected to the Postar display through an Ethernet cable.

Enable DHCP for the Postar display, turn on the DHCP service switch in the lower left corner of the display wizard interface, select a local IP address and click “OK” to automatically connect to the Postar display. If the connection is unstable, set a static IP address for the PC. Before turning on the DHCP service, you need to turn off the firewall of the PC or set the ICMP echo policy.

❖ Direct connection via WiFi

The PC installed with the display wizard is directly connected to the Postar display through WiFiAP.

The Postar display player comes with WiFiAP, the default SSID is “AP + the last 8 digits of SN”, and the default password is “12345678“, which requires no configuration.

② LAN connection

❖ Wired LAN connection

The PC installed with the display wizard and the Postar display player are respectively connected to the same wired LAN through a Ethernet cable without configuration.

❖ Wireless LAN connection

The PC installed with the display wizard and the Postar display are respectively connected to the same wireless LAN through WiFi. Enable DHCP for the Postar display, log in to the Postar display through the display wizard, and connect to the WiFiAP of the router in the network configuration interface.

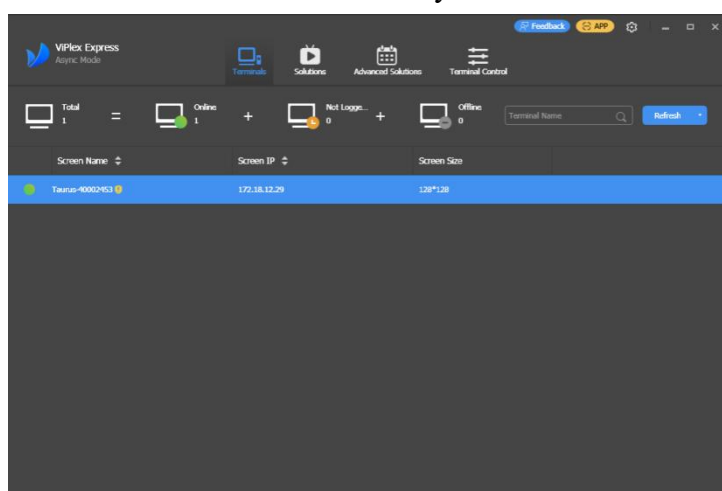
● Log in to the terminal


After selecting the async play mode, the user enters the terminal management interface of async play.

Information required

Username and password to log in to the Postar display. The login user name of the Postar system is “admin”, and the default password is “123456”. Log in to the terminal

Step 1 Click “Refresh” to refresh the screen body list.



After the display wizard on PC detects the terminal, it will use the default account or the account successfully logged in last time to try to log in automatically once; if the terminal and the display wizard are not in the same network segment and can ping each other, please click  on the right side of “Refresh”, select the designated IP, and enter the IP address or IP range for manual connection.

●: indicates that the terminal is online and can be logged in. Go to step 2.

●: indicates that the terminal is offline and cannot be logged in.


●: indicates that you have successfully logged in to the terminal.

Step 2 Click “Connect” after the screen body information.

Step 3 Enter the password for the “admin” user and click “OK”.

After successful login, the display wizard on PC desktop automatically saves the account information.

Related operations

After successful login, if the password is verified as weak, the right side of the terminal name will display . It is recommended to change to a complex password to improve security.

Right click the screen body information to display related operations:


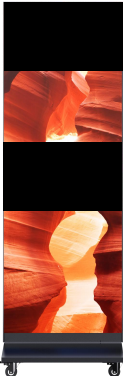
- Logout: Logout
- Rename: rename the terminal



- Change Password: Change the password for connecting to the WiFi AP and the login password of the “admin” user
- Forgot Password: Delete the password saved when the last login was successful
- Download run log: download the run log of the async terminal

6. Common Troubleshooting and Components Replacement

Instructions

6.1 Common faults and handling methods

No.	Fault phenomenon	Fault analysis	Handling method
1	 <p>The whole screen does not light up</p>	<ol style="list-style-type: none"> 1. Power adapter is not plugged in correctly 2. Power on button is not pressed 3. Controller fault 	<ol style="list-style-type: none"> 1. Check the power adapter 2. Check the power-on button 3. Replace the faulty controller
2	 <p>One or more cabinets above do not light up</p>	<ol style="list-style-type: none"> 1. Fault of power cable between cabinets 2. Fault of signal cable between cabinets 	<p>Check the connection of internal power cable and signal cable, and replace or plug in the faulty cable.</p>

3		A LED panel does not light up	<ol style="list-style-type: none"> 1. This LED panel is faulty 2. Cabinet drive unit socket fault 	<ol style="list-style-type: none"> 1. Replace the faulty LED panel 2. Replace the faulty cabinet drive unit
4		A cabinet does not light up	2-in-1 bridge board fault	Replace the faulty 2-in-1 board

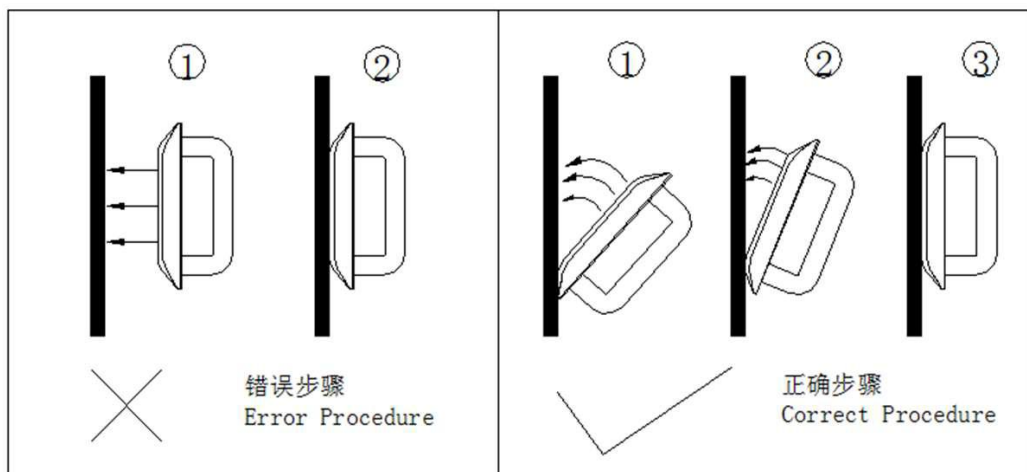
Note: Please contact your supplier if there is any other fault during the use of the product.




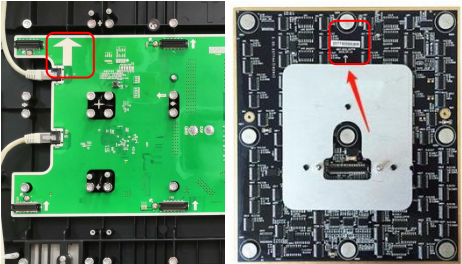
6.2 Component maintenance

All the following operations of replacing internal components must be conducted in the power-off state to avoid danger.

6.2.1 Replace LED panel

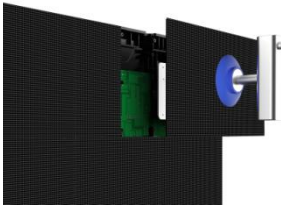
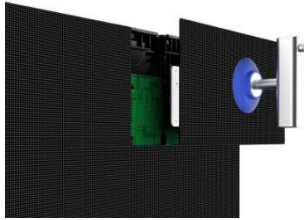

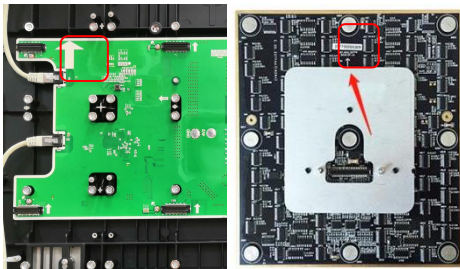
Special Reminder: Refer to the figure below for the use of the magnetic-suction front maintenance tool (for standard SMD LED panels):



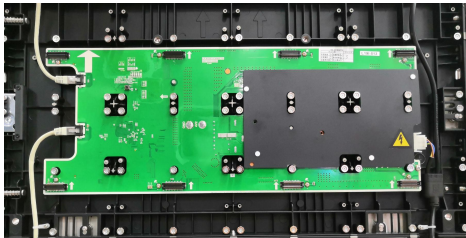
Step	Illustrations	Methods
Step 1		<p>Find out the specific position of the faulty LED panel, and stick the side inclined plane of the front maintenance tool to the position directly below the LED panel</p>
Step 2		<p>Rotate the front Maintenance tool upward, slowly transition from the arc surface to the bottom surface, and take out the LED panel in parallel direction after the LED panel is magnetically sucked</p>
Step 3		<p>Hold the LED panel in the palm of your hand and rotate the maintenance tool away from the LED panel</p>
Step 4		<p>When installing the LED panel, pay attention to the direction of the arrow</p>

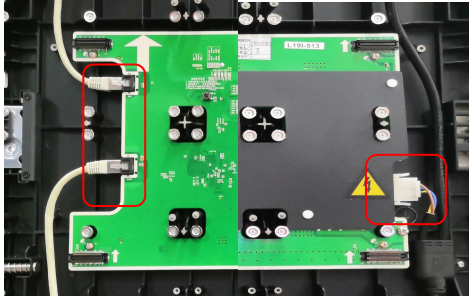
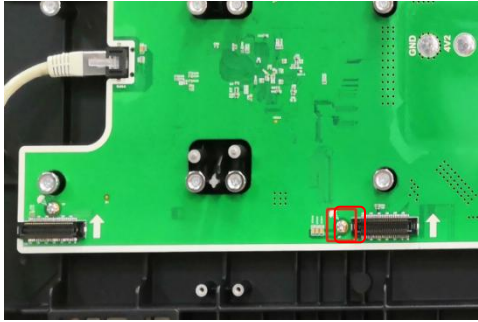
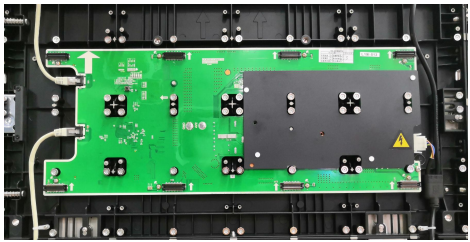
Refer to the figure below for the use of the pneumatic-suction front maintenance tool

(for customized GOB LED panels):

Step	Illustrations	Methods
Step 1		Locate the specific position of the faulty LED panel and place the suction cup of the front maintenance tool in the center of the LED panel.
Step 2		Press the handle and wait for the suction cup to adhere to the light panel, then remove the LED panel in a parallel direction.
Step 3		Hold the LED panel with your entire palm and press the button on top of the handle to release the suction cup from the LED panel
Step 4		Ensure the arrow direction is consistent when installing the LED panel

6.2.2 Replace bridge board and receiver card

Steps	Illustration	Method
Step 1		Find out the position of the faulty cabinet and remove all LED panels

Step 2		Disconnect the power cable, Ethernet cable
Step 3		Remove the 8 screws from the 2-in-1 board
Step 4		Take out the faulty 2-in-1 board, remove the receiver card, and replace it with a new 2-in-1 board or receiver card

7. Special Statement

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